

Letter of Transmittal

REVIEWED
CITY OF LIVERMORE
BUILDING DIVISION

NOV 18 2020



KATERRA

BY: BLAKE WARMERDAM

Submittal Title: Root Truss Calculations - Building A

Submittal ID: 061000-7.2

Project Name: Legacy at Livermore

Date: 10/9/2020

Katerra Architecture

SUBMITTAL# 06 10 00-7.2

SPEC:

☐ REVIEWED ☐ NOT REVIEWED ☐ REJECTED ☐ REVISE & RESUBMIT ☐ NO EXCEPTION TAKEN

Submittal Manager: Kushagra Bhargava

Disciplinary Reviewer(s): KATC - Kushagra Bhargava
PASE - Drew Kimball
KATA - Neil Weekley

Client Reviewer(s): Not Required

Review is for performed only for the limited purposes of checking for the general conformance with information given and the design concept expressed in the Contract Documents. This review does not include determining the accuracy or completeness of information provided, nor is it limited to dimensions, quantities, substantiating instructions, installation, performance, equipment, or systems designed by the Contractor; all of which are the Contractor's responsibility. Review does not constitute approval of safety precautions or of construction means, methods, techniques, sequences, or procedures. Review of a specific item does not constitute review of an assembly of which the item is a component. No annotation shall relieve the Contractor from the requirements of the Contract Documents unless expressly acknowledged by the Contractor. Any deviations proposed by the Contractor from the Contract Documents should be called to the attention of the reviewer within the submittal prior to submitting for Architect/Engineer review. Deviations are only acceptable if expressly acknowledged and accepted by reviewer. Contractor is responsible for field verification of all dimensions and coordination of all subcontractors and trades.

Katerra Inc.

BY: Neil Weekley

DATE: 10/20/2020

Submittal For: Approval

SUBMITTAL# 061000-7.2 SPEC: 06 10 00

☒ REVIEWED ☐ NOT REVIEWED ☐ REJECTED ☐ REVISE & RESUBMIT ☐ NO EXCEPTION TAKEN

Review is for general conformance with contract documents only and does not relieve the subcontractor/supplier of responsibility for compliance with applicable drawings, specifications, and code.

Katerra Construction, LLC.

BY: Kushagra Bhargava DATE: 10/9/2020

☒ NO EXCEPTION TAKEN w/added notes
☐ REJECTED
☐ REVISE & RESUBMIT

☐ MAKE CORRECTIONS NOTED
☐ SUBMIT SPECIFIED ITEM

Corrections or comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of the general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: Confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his or her work with that of all other trades and performing all work in a safe and satisfactory manner.

PEOPLES ASSOCIATES

DATE: 10/15/2020 BY: PASE

PASE: PROVIDE HARDWARE FOR UPLIFTS NOTED PER TRUSS UPLIFT SCHEDULE ON S1.30, UNLESS OTHERWISE NOTED. AT TRUSS BLOCKING, PROVIDE 'A35' CLIPS PER DETAIL 4/S6.30, TYP.

KTA:
1. VERIFY ROOF DIMENSIONS TO PLAN VIEWS.
2. FOR TRUSSES THAT HAVE BEEN CLOUDED IN THE PLAN VIEW, REFER TO TRUSS PROFILE SHEET FOR FURTHER COMMENTS / CORRECTIONS.
-Neil Weekley (KTA) 10/20/2020

PLANCHHECK

PROJECT #



"People, Drive, Honor... Our Formula for Success!"

**TRUSS PLACEMENT PLAN
AND
CALCULATIONS**

PROJECT: Legacy Livermore

Bldg. A

LOCATION: Livermore, CA

DEVELOPER: Livermore Multifamily Owner LLC

CUSTOMER: Unlimited Framing Inc.

M31927

1144 Commerce Way, Sanger, CA 93657
(559) 836-3630 phone / (559)876-3540 fax

PRINT DATE: 10/14/2020



"People, Drive, Honor...Our Formula for Success!"

2800 Tully Road, Hughson, CA 95326 (209) 883-8000 Phone / (209) 883-8001 Fax

Structural Truss Calculations

PROJECT: Legacy Livermore

Bldg. A

LOCATION: Livermore, CA

DEVELOPER: Liverstone Multifamily Owner LLC

CUSTOMER: Unlimited Framing Inc.



Date: 10/14/2020

My license renewal date for the state of California is December 31, 2020.

NOTES:

Truss Engineer's responsibility is solely for the design of individual trusses based upon the design parameters as shown on the referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer/Engineer of Record, not truss Engineer, per ANI/TPI-1 Chapter 2.

The bound truss design drawings, having an electronic seal and signature printed on each page, have been reviewed and approved by the truss design engineer as indicated by the Engineer's seal and wet signature on this cover page. This review and approval apply solely to the attached truss design drawing pages that are bound together.



May 15, 2020

Ref: California TrusFrame, Plant #377

To Whom It May Concern:

Please be advised that California TrusFrame, located in Sanger, CA, is an active participant in good standing with the SBCRI TPI Quality Assurance Inspection Program for metal plate connected wood trusses, owned by SBCRI. The SBCRI TPI program is recognized by the ANSI-ASQ National Accreditation Board in accordance with ANSI/ANAB Report AI-2620 as a Type A (3rd Party) Inspection Body (<https://www.sbcricri.info/sites/default/files/uploads/attachments/node/186/sbcricri-17020-certscope.pdf>); it serves as a means for truss manufacturers to comply with International Residential Code (IRC) Sections [R109.2](#), [R502.11](#) and [R802.10](#) and International Building Code (IBC) Sections [110.4](#), [1703](#), [1704.2.5](#) and [2303.4](#).

Based on random, unannounced inspections and/or audits of in-house QC records conducted by SBCRI, the metal plate connected wood truss design and manufacturing quality of California TrusFrame located in Sanger, CA, are in accordance with ANSI/TPI 1 referenced in ICC's IRC and IBC versions 2003, 2006, 2009, 2012, 2015 & 2018.

California TrusFrame, located in Sanger, CA, is authorized to affix SBCRI's TPI Quality Assurance Stamp provided that it maintains continued satisfactory conformance with ANSI/TPI 1 & IRC/IBC 2003, 2006, 2009, 2012, 2015 & 2018 codes. Its approved usage signifies that the truss manufacturer licensee is complying with the applicable provisions of the model building code. In the event of unsatisfactory performance (cycle of non-conforming reports), SBCRI TPI quality stamps may be removed from the premises of the SBCRI TPI licensee and decertification proceeding initiated.

If SBCRI can be of further assistance in familiarizing you with the voluntary Quality Assurance Inspection Program, or the ongoing status of California TrusFrame, located in Sanger, CA, or any other of the SBCRI TPI Quality Assurance Licensees, please do not hesitate to contact us, or visit our website at <https://www.sbcricri.info/qa/inspection-program-licensees> for a complete listing of truss manufacturers that are participating in our quality auditing program.

Sincerely,

A handwritten signature in black ink, appearing to read 'John Arne'.

John Arne

Director of Inspection Services



IMAGE OF BUILDING CORNER PROVIDED FOR REFERENCE

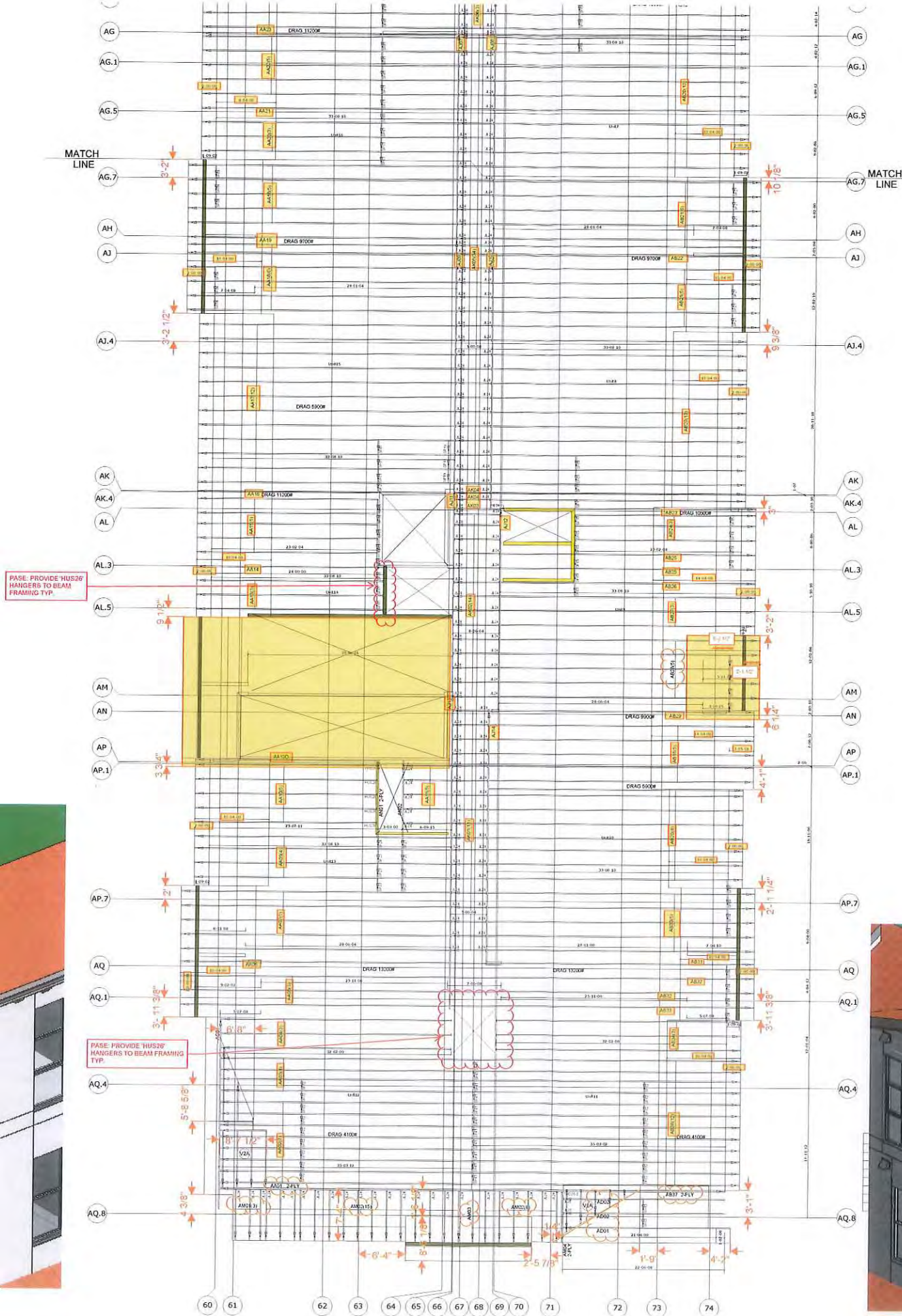


IMAGE OF BUILDING CORNER PROVIDED FOR REFERENCE

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design as the individual design sheets for each truss design are identified on the placement drawing. The building designer is responsible for permanent marking of the roof and floor system and for the overall structure. The design of the truss support structure including columns, beams, walls, and columns is the responsibility of the building designer.

Framer is responsible for accurate spacing of trusses as designed and called out on placement plan. All trusses spaced at 24" on center unless otherwise noted.

SYMBOL LEGEND

AA	Attic Access
RL	Recessed Lights
RAG	Return Air Grill
X1/2	Slope & Direction
Sxx	Hip Framing label
Vxx	Valley Framing label

DEVELOPER: LIVERMORE MULTIFAMILY OWNER LLC

LEGACY LIVERMORE

LOCATION: LIVERMORE, CA

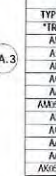
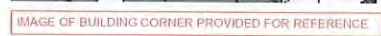
PLAN: BLDG A SECTION 1

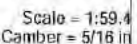
SCALE: 1/8"=1'-0"

PROJECT No: M31927
 DESIGNER: Ron L.

DATE: 8/27/2020
 REVISIONS:
 XXXX 8/20/2018

THIS LAYOUT IS FOR PLACEMENT PURPOSES ONLY AND IS NOT INTENDED AS A STRUCTURAL ENGINEERING DOCUMENT. ALL BEAM SIZES NOTED PER STRUCTURAL PLAN SET.



Weight: 607 lb FT = 20%

Job	Truss	Truss Type	Qty	Ply	M31927/Legacy Livermore/Ron L.
BUILDING A	AA01	GABLE	1	2	Job Reference (optional)

California TrusFrame LLC., Perris, CA. 92570

Run: 8,240 s Jan 6 2020 Print: 8,240 s Jan 6 2020 MiTek Industries, Inc. Fri Oct 9 15:56:20 2020 Page 2
ID: EyTyKKJiT05ot2fMsnaktVyjfQ7-y1KVxoZKc3489pCxBt1sX9xBpwD?YbdfLizhmgyV3vf

NOTES-

- 14) Use USP JL24 (With 4-10d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 2'-0" oc max. starting at 2'-3" from the left end to 33'-1" to connect truss(es) AM01 (1 ply 2x4 DF), AM02 (1 ply 2x4 DF) to front face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.
- 16) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)

Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-74, 4-10=-74, 11-19=-18

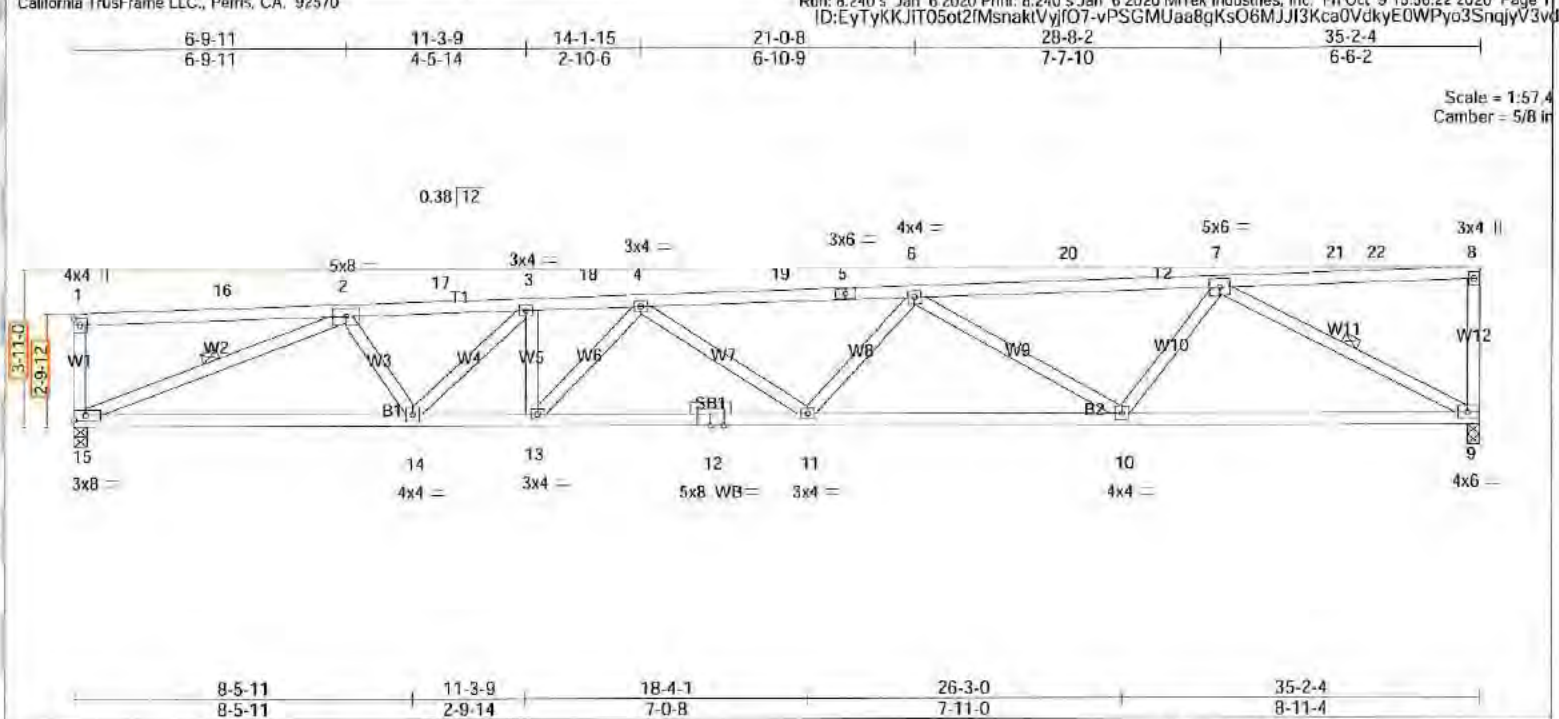
Concentrated Loads (lb)

Vert: 17=-167(F) 16=-167(F) 15=-167(F) 13=-167(F) 12=-167(F) 72=-167(F)

73=-167(F) 74=-167(F) 75=-167(F) 76=-167(F) 77=-167(F) 78=-167(F) 79=-167(F)

80=-167(F) 81=-167(F) 82=-167(F) 83=-167(F) 84=-167(F)





LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	1-7-3	TC 0.95	in (loc) l/defl L/d	MT20	220/195
TCDL 17.0	Plate Grip DOL 1.25	BC 0.75	Vert(LL) 0.25 11-13 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.84	Vert(CT) -0.86 11-13 >485 180		
BCDL 9.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.23 9 n/a n/a		
	Code IBC2015/TPI2014			Weight: 166 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 DF No.1&Btr G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G *Except*
 W2: 2x4 DF No.2 G
 OTHERS 2x4 DF Stud/Std G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 8-11-13 oc bracing.
 WEBS
 1 Row at midpt 2-15, 7-9

REACTIONS. (lb/size)
 15 = 1284/0-4-0 (min. 0-1-8)
 9 = 1284/0-3-8 (min. 0-1-8)
 Max Horz
 15 = 120(LC 9)
 Max Uplift
 15 = -178(LC 8)
 9 = -176(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 1-15=-393/56, 1-16=-390/360, 2-16=-808/749, 2-17=-2936/381,
 3-17=-2930/383, 3-18=-3415/467, 4-18=-3410/468,
 4-19=-3596/484, 5-19=-3590/484, 5-6=-3584/406,
 6-20=-2526/341, 7-20=-2519/343, 7-21=-765/726,
 21-22=-391/357, 8-22=-331/305, 8-9=-379/50
 BOT CHORD
 14-15=-339/2588, 13-14=-430/3412, 12-13=-490/3659,
 11-12=-490/3659, 10-11=-465/3454, 9-10=-268/2020
 WEBS
 2-15=-2728/406, 2-14=-201/863, 3-14=-926/334, 4-11=-615/583,
 6-11=-359/608, 6-10=-1200/260, 7-10=-70/926, 7-9=-2257/339,
 3-13=-257/558, 4-13=-683/388

NOTES-
 1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf;
 BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and
 C-C Exterior(2) 0-1-12 to 3-8-0, Interior(1) 3-8-0 to 35-0-8 zone; cantilever left and right
 exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for
 reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 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 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) This truss is designed in accordance with the 2015 International Building Code
 section 2306.1 and referenced standard ANSI/TPI 1.
 6) This truss has been designed for a moving concentrated load of 300.0lb live and
 6.0lb dead located at all mid panels and at all panel points along the Top Chord,
 nonconcurrent with any other live loads.
 7) This truss has been designed for a total seismic drag load of 4100 lb. Lumber
 DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom
 chord from 0-0-0 to 35-2-4 for 116.5 plf.
 8) This truss is designed for a creep factor of 3.01, which is used to calculate the
 Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)
 Standard

4-6-8 8-9-14 11-5-5 14-9-7 21-7-10 28-1-3 35-2-4
 4-6-8 4-3-6 2-7-7 3-4-2 6-10-3 6-5-9 7-1-1

Scale = 1/80.3
 Camber = 5/8 in

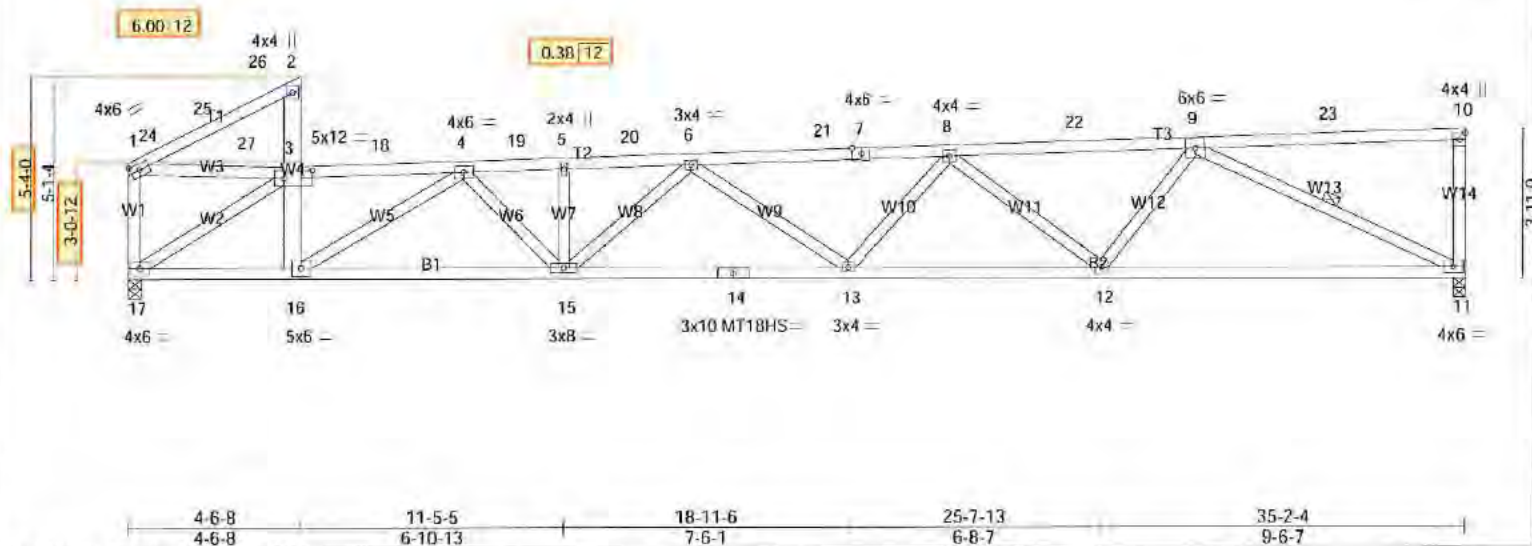


Plate Offsets (X,Y)-- [3:0-9:0,0-2-8]

LOADING (psf)	SPACING- 1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.87	Vert(LL)	-0.31 13-15	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL 1.25	BC 0.75	Vert(CT)	-0.95 13-15	>441	180	MT18HS	220/195
BCLL 0.0 *	Rep Stress Incr YES	WB 0.85	Horz(CT)	0.26 11	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014	Matrix-MSH						
							Weight: 180 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.1&Btr G *Except*
 T1: 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G *Except*
 W4: 2x6 DF No.2 G

BRACING-

TOP CHORD
 Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS
 1 Row at midpt 9-11

REACTIONS. (lb/size)

17 = 1283/0-4-0 (min. 0-1-8)
 11 = 1283/0-3-8 (min. 0-1-8)
 Max Horz
 17 = -3125(LC 27)
 Max Uplift
 17 = -241(LC 29)
 11 = -192(LC 9)

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

TOP CHORD
 1-17=-384/102, 3-18=-5423/896, 4-18=-5422/898,
 4-19=-5039/513, 5-19=-5037/514, 5-20=-5037/516,
 6-20=-5035/517, 6-21=-3968/497, 7-21=-3965/497,
 7-8=-3964/499, 8-22=-2660/343, 9-22=-2649/346,
 10-11=-391/57, 1-24=-322/302, 24-25=-297/318,
 25-26=-296/320, 2-26=-279/345, 3-16=-458/15, 3-27=-166/1125
 BOT CHORD
 16-17=-883/3485, 15-16=-581/5229, 14-15=-650/4637,
 13-14=-650/4637, 12-13=-563/3480, 11-12=-374/2154
 WEBS
 4-15=-284/657, 6-15=-499/534, 6-13=-829/256, 8-13=-74/752,
 8-12=-1149/201, 9-12=-55/1038, 9-11=-2351/387, 1-3=-291/260,
 3-17=-2014/698, 4-16=-1406/224, 5-15=-341/69

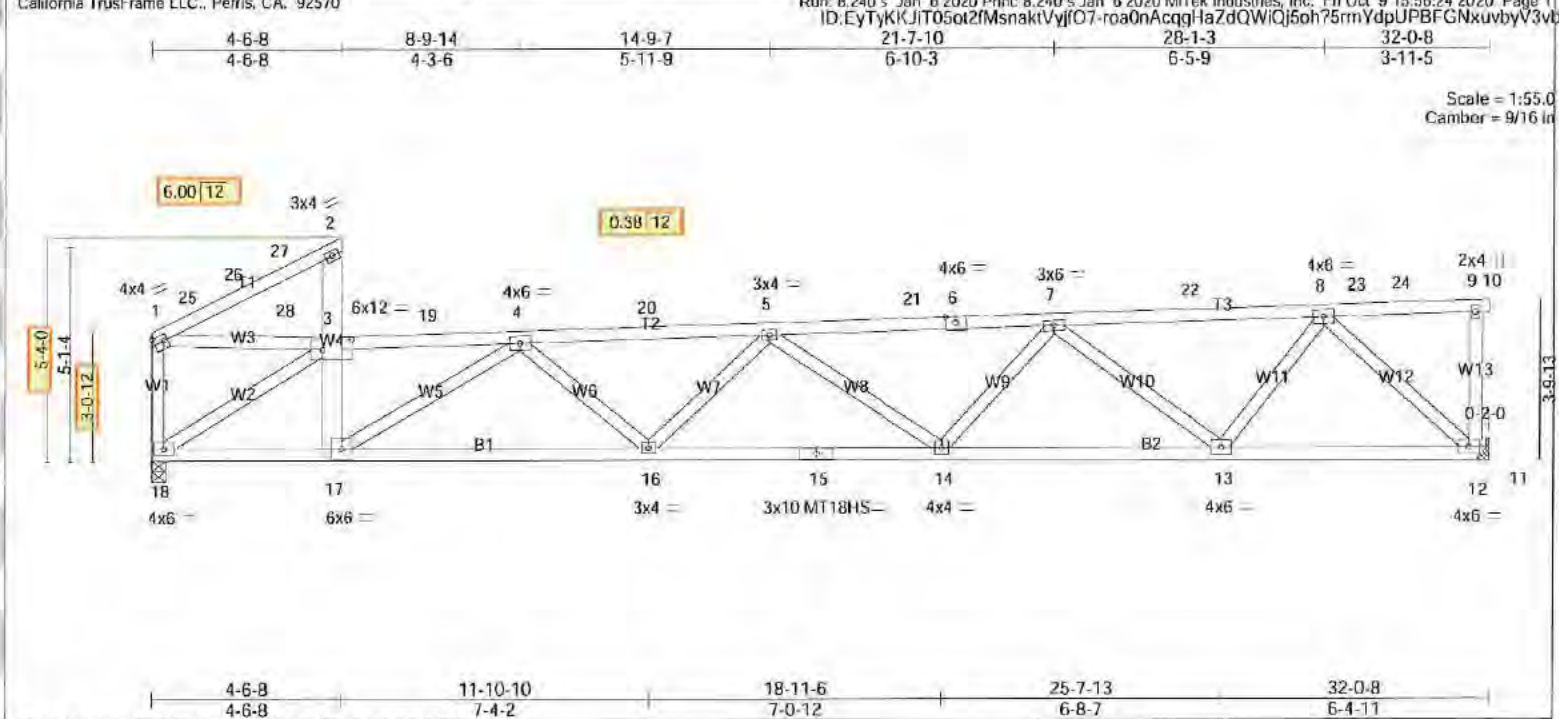
NOTES-

1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf;
 BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and
 C-C Exterior(2) 0-1-12 to 3-8-0, Interior(1) 3-8-0 to 35-0-8 zone; cantilever left and right
 exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for
 reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) All plates are MT20 plates unless otherwise indicated.
- 4) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) A plate rating reduction of 20% has been applied for the green lumber members.
- 7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 8) Load case(s) 27, 28, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 9) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 4-3-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
- 12) 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:
- 27) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 3-10=-27(F), 11-17=-14(F), 1-2=-27(F)
 Concentrated Loads (lb)
 Horz: 16=-1875(F), 3=5000(F)
 - 28) F3 Left&F4 Anchor Check: Lumb
 Uniform Loads (plf)
 Vert: 3-10=-27(F), 11-17=-14(F),
 Concentrated Loads (lb)
 Vert: 27=1050(F)
 Horz: 2=-300(F)
 - 29) F3 Right&F4 Anchor Check: Lumb
 Uniform Loads (plf)
 Vert: 3-10=-27(F), 11-17=-14(F),
 Concentrated Loads (lb)
 Vert: 27=1050(F)
 Horz: 2=300(F)



LOADING (psf)		SPACING-		CSI		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.91	Vert(LL)	-0.26 16 >999 240	MT20		220/195	
TCDL	17.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.78 14-16 >483 180	MT18HS		220/195	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.24 12 n/a n/a				
BCDL	9.0	Code IBC2015/TPI2014		Matrix-MSH							
								Weight: 165 lb		FT = 20%	

LUMBER-
 TOP CHORD 2x4 DF No.1&Btr G *Except*
 T1: 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G *Except*
 W4: 2x6 DF No.2 G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

18	=	1453/0-4-0 (min. 0-1-9)
12	=	1482/Mechanical
Max Horz		
18	=	-3125(LC 27)
Max Uplift		
18	=	-137(LC 29)
12	=	-229(LC 9)

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

TOP CHORD
 1-18=-403/83, 3-19=-5487/742, 4-19=-5485/745,
 4-20=-4962/549, 5-20=-4959/551, 5-21=-3721/489,
 6-21=-3717/489, 6-7=-3716/491, 7-22=-2125/266,
 8-22=-2117/268, 9-12=-359/37, 1-25=-340/292, 25-26=-310/307,
 26-27=-309/308, 2-27=-292/340, 3-17=-41/899,
 3-28=-176/1115

BOT CHORD
 17-18=-743/3538, 16-17=-663/5269, 15-16=-698/4552,
 14-15=-698/4552, 13-14=-554/3191, 12-13=-265/1415

WEBS
 4-16=-422/661, 5-16=-440/582, 5-14=-1029/157, 7-14=-25/943,
 7-13=-1452/280, 8-13=-121/1262, 8-12=-1917/325,
 1-3=-283/269, 3-18=-2244/534, 4-17=-1513/252

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-4-0, Interior(1) 3-4-0 to 32-0-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

LOAD CASE(S)
 Standard Except:
 27) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 3-9=-34(F), 12-18=-18(F), 1-2=-34(F)
 Concentrated Loads (lb)
 Horz: 17=-1875(F), 3=5000(F)
 28) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 3-9=-34(F), 12-18=-18(F), 1-2=-34(F)
 Concentrated Loads (lb)
 Vert: 28=1050(F)
 Horz: 2=300(F)
 29) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 3-9=-34(F), 12-18=-18(F), 1-2=-34(F)
 Concentrated Loads (lb)
 Vert: 28=1050(F)
 Horz: 2=300(F)

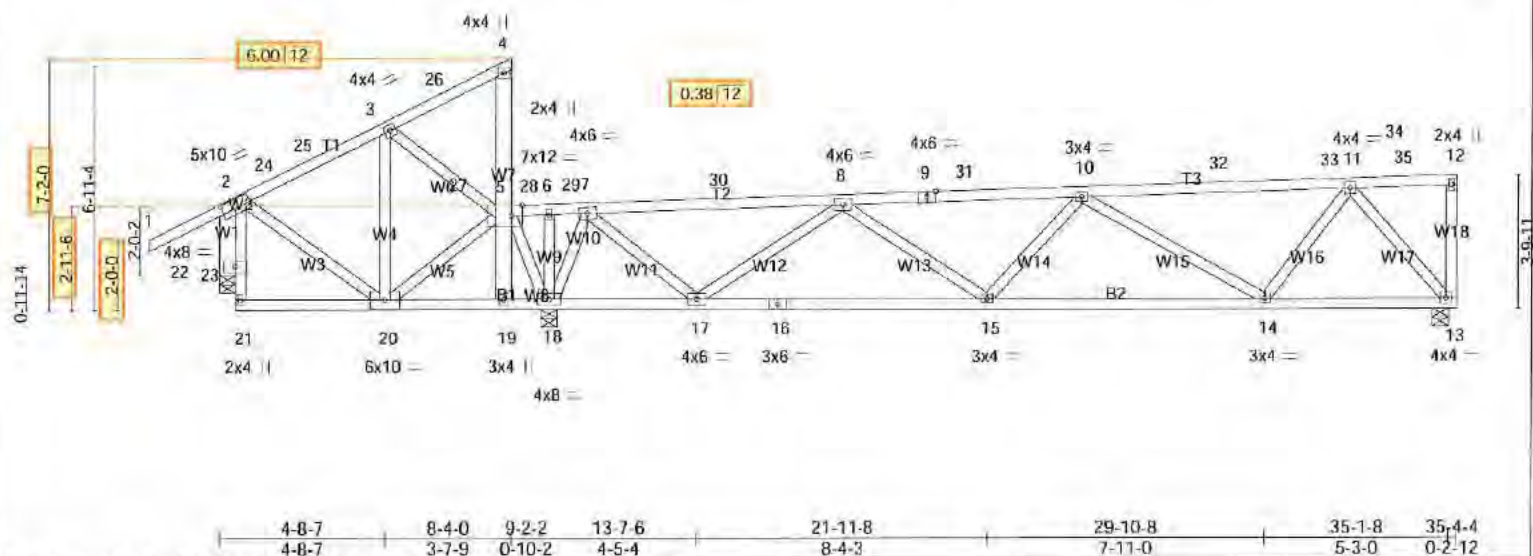
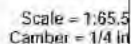


Plate Offsets (X,Y)-- [2:0-4-9,0-3-0], [5:0-3-12,0-3-8]

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 0.82	Vert(LL) -0.10 15-17	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL 1.25	BC 0.60	Vert(CT) -0.36 15-17	>859	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.80	Horz(CT) 0.07 13	n/a	n/a		
BCDL 9.0	Code IBC2015/TP12014	Matrix-MSH				Weight: 203 lb	FT = 20%

W7,W1: 2x6 DF No.2 G, W2: 2x4 DF No.2 G

Rigid ceiling directly applied or 3-4-10 or bracing.

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

13	=	1132/0-5-8 (min. 0-1-8)
18	=	2245/0-5-8 (min. 0-2-6)
23	=	201/0-5-8 (min. 0-1-8)

Max Horz
18 = -3125(LC: 27)

Max Uplift
13 = 52(LC 9)

18	=	-289(LC 9)
23	=	-877(LC 27)

Max Grav	
13	1134(LC 24

18	=	2245(LC 1)
23	=	400(LC 30)

FORCES: (lb) - Max. Comp./Max. Ten.

2-24=192/1049, 24-25=174/1057, 3-25=159/1105
3-26=346/343, 4-26=316/369, 5-27=357/1142, 4-27=357/93,
5-28=740/1494, 6-28=739/1496, 6-29=739/1501,
7-29=738/1503, 7-30=141/166, 8-30=1407/70, 8-9=1830/200,
9-31=1822/201, 10-31=1816/204, 10-32=1273/86,
32-33=1264/88, 33-34=1256/88, 11-34=1255/89,
12-13=359/43

19-20=-3445/372, 18-19=-1687/361, 17-18=-872/985,
16-17=-321/1760, 15-16=-321/1760, 14-15=-332/1926,
13-14=-130/887

3-20=-1219/84, 3-5=-63/1113, 7-18=-1679/268, 7-17=-93/1464,
8-17=-1465/241, 8-15=0/564, 11-13=-1365/161, 2-20=-1039/214.

Continued on page 2

3-20=-1219/84, 3-5=-63/1113, 7-18=-1679/268,
7-17=-93/1464, 8-17=-1465/241, 8-15=0/564,
11-13=-1365/161, 2-20=-1039/214, 6-18=-238/346,
5-18=-1593/676, 5-20=-187/3153, 11-14=-40/650,
10-14=-776/210, 2-23=403/894

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDF=10.2psf;
BCDF=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone
and C-C Exterior(2) -2-0-0 to 1-6-10, Interior(1) 1-6-10 to 35-2-8 zone; cantilever left
and right exposed ; end vertical left and right exposed; C-C for members and forces &
MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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" tall by 2'-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) Bearing at joint(s) 23 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

8) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46 has/have been modified. Building designer must review loads to verify that they are

correct for the intended use of this trial.

9) This truss has been designed for a 6.0lb dead load located at all mid panels and nonconcurrent with any other live load and

10) Hanger(s) or other connection device(s) supporting the concentrated load(s) 1875 lb left at 8 ft from the left end of the beam. The weight of such connection device(s) is the responsibility of the contractor.

11) This truss is designed for a creep
Vert(CT) deflection per ANSI/TPI 1.

12) In the LOAD CASE(S) section, load the front (F) or back (B).

LOAD CASE(S)

Standard Except:

1) Dead + Roof Live (balanced): Lun
Uniform Loads (plf)

LOAD CASE(S)

- Standard Except:
 Uniform Loads (plf)
 Vert: 1-2=-74, 2-4=-74, 5-34=-74, 12-34=-109, 19-21=-30(F=-12), 13-19=-18
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-64, 2-4=-64, 5-34=-64, 12-34=-99, 19-21=-30(F=-12), 13-19=-18
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-4=-34, 5-34=-34, 12-34=-69, 19-21=-50(F=-12), 13-19=-38
- 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=57, 2-24=28, 4-24=14, 5-34=18, 12-34=-17, 19-21=23(F=-12), 13-19=-11
 Horz: 1-2=-77, 2-24=-48, 4-24=-34, 4-5=12, 5-12=-38, 12-13=35, 21-22=19
- 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=8, 2-3=14, 3-4=28, 5-33=18, 33-34=25, 12-34=-10, 19-21=23(F=-12), 13-19=-11
 Horz: 1-2=-28, 2-3=34, 3-4=48, 4-5=41, 5-33=-38, 12-33=-45, 12-13=-19, 21-22=-35
- 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=-23, 2-4=-51, 5-34=-47, 12-34=-82, 19-21=-30(F=-12), 13-19=-18
 Horz: 1-2=-11, 2-4=17, 4-5=-16, 5-12=13, 12-13=-31, 21-22=-22
- 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=-45, 2-4=-51, 5-34=-47, 12-34=-82, 19-21=-30(F=-12), 13-19=-18
 Horz: 1-2=11, 2-4=17, 4-5=38, 5-12=13, 12-13=22, 21-22=31
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=7, 2-4=-7, 5-34=5, 12-34=-30, 19-21=-23(F=-12), 13-19=-11
 Horz: 1-2=-28, 2-4=-13, 4-5=12, 5-12=-25, 12-13=23, 21-22=18
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=0, 2-4=6, 5-34=23, 12-34=-12, 19-21=-23(F=-12), 13-19=-11
 Horz: 1-2=-21, 2-4=-27, 4-5=-29, 5-12=-44, 12-13=-18, 21-22=-23
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-27, 2-4=-34, 5-34=-22, 12-34=-57, 19-21=-30(F=-12), 13-19=-18
 Horz: 1-2=-7, 2-4=-0, 4-5=37, 5-12=-12, 12-13=11, 21-22=31
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-13, 2-4=-20, 5-34=-3, 12-34=-38, 19-21=-30(F=-12), 13-19=-18
 Horz: 1-2=-21, 2-4=-14, 4-5=-4, 5-12=-31, 12-13=-31, 21-22=-11
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=17, 2-4=23, 5-34=5, 12-34=-30, 19-21=23(F=-12), 13-19=-11
 Horz: 1-2=-38, 2-4=-44, 4-5=-50, 5-12=-25, 12-13=21, 21-22=15
- 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, 2-4=5, 5-34=23, 12-34=-12, 19-21=-23(F=-12), 13-19=-11
 Horz: 1-2=-19, 2-4=-25, 4-5=31, 5-12=-44, 12-13=-15, 21-22=21
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=4, 2-4=10, 5-34=-1, 12-34=-36, 19-21=-23(F=-12), 13-19=-11
 Horz: 1-2=-24, 2-4=-31, 4-5=-37, 5-12=-19, 12-13=16, 21-22=8
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-7, 2-4=-1, 5-34=10, 12-34=-25, 19-21=-23(F=-12), 13-19=-11
 Horz: 1-2=-13, 2-4=-19, 4-5=-26, 5-12=-31, 12-13=-8, 21-22=-16
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=4, 2-4=-3, 5-34=-22, 12-34=-57, 19-21=-30(F=-12), 13-19=-18
 Horz: 1-2=-38, 2-4=-31, 4-5=-25, 5-12=-12, 12-13=9, 21-22=28
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-15, 2-4=-22, 5-34=-3, 12-34=-38, 19-21=-30(F=-12), 13-19=-18
 Horz: 1-2=-19, 2-4=-12, 4-5=-6, 5-12=-31, 12-13=-28, 21-22=-9
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt: metal=0.90
 Uniform Loads (plf)

Continued on page 3

- Standard Except:
 Vert: 1-2=-34, 2-4=-34, 5-34=-34, 12-34=-69, 19-21=-30(F=-12), 13-19=-18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-59, 2-4=-64, 5-34=-55, 12-34=-90, 19-21=-30(F=-12), 13-19=-18
 Horz: 1-2=-5, 2-4=-0, 4-5=28, 5-12=-9, 12-13=8, 21-22=23
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-49, 2-4=-53, 5-34=-41, 12-34=-76, 19-21=-30(F=-12), 13-19=-18
 Horz: 1-2=-15, 2-4=-11, 4-5=-3, 5-12=-23, 12-13=-23, 21-22=-8
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-36, 2-4=-41, 5-34=-55, 12-34=-90, 19-21=-30(F=-12), 13-19=-18
 Horz: 1-2=-28, 2-4=-23, 4-5=-19, 5-12=-9, 12-13=7, 21-22=21
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-50, 2-4=-55, 5-34=-41, 12-34=-76, 19-21=-30(F=-12), 13-19=-18
 Horz: 1-2=-14, 2-4=-9, 4-5=-4, 5-12=-23, 12-13=-21, 21-22=-7
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-74, 2-4=-74, 5-34=-34, 12-34=-69, 19-21=-30(F=-12), 13-19=-18
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-4=-34, 5-34=-74, 12-34=-109, 19-21=-30(F=-12), 13-19=-18
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-64, 2-4=-64, 5-34=-34, 12-34=-69, 19-21=-30(F=-12), 13-19=-18
 Horz: 1-2=-18(F)
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-4=-34, 5-34=-64, 12-34=-99, 19-21=-30(F=-12), 13-19=-18
 Concentrated Loads (lb)
 Horz: 19=-1875(F), 5=5000(F)
- 27) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-4=-34(F), 5-34=-34(F), 12-34=-69(F=-34), 19-21=-30(F), 13-19=-18(F)
- 28) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-4=-34(F), 5-34=-34(F), 12-34=-69(F=-34), 19-21=-30(F), 13-19=-18(F)
- 29) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-4=-34(F), 5-34=-34(F), 12-34=-69(F=-34), 19-21=-30(F), 13-19=-18(F)
- 30) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-4=-34, 5-34=-34, 12-34=-69, 19-21=-30(F=-12), 13-19=-18
 Concentrated Loads (lb)
 Vert: 2=306
- 31) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-4=-34, 5-34=-34, 12-34=-69, 19-21=-30(F=-12), 13-19=-18
 Concentrated Loads (lb)
 Vert: 25=306
- 32) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-4=-34, 5-34=-34, 12-34=-69, 19-21=-30(F=-12), 13-19=-18
 Concentrated Loads (lb)
 Vert: 26=306
- 33) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-4=-34, 5-34=-34, 12-34=-69, 19-21=-30(F=-12), 13-19=-18
 Concentrated Loads (lb)
 Vert: 4=306
- 34) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-4=-34, 5-34=-34, 12-34=-69, 19-21=-30(F=-12), 13-19=-18
 Concentrated Loads (lb)
 Vert: 28=306
- 35) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)

LOAD CASE(S)

- Standard

Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-34=-34, 12-34=-69, 19-21=-30(F=-12), 13-19=-18
Concentrated Loads (lb)
Vert: 29=-306
- 36) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-34=-34, 12-34=-69, 19-21=-30(F=-12), 13-19=-18
Concentrated Loads (lb)
Vert: 30=-306
- 37) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-34=-34, 12-34=-69, 19-21=-30(F=-12), 13-19=-18
Concentrated Loads (lb)
Vert: 31=-306
- 38) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-34=-34, 12-34=-69, 19-21=-30(F=-12), 13-19=-18
Concentrated Loads (lb)
Vert: 32=-306
- 39) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-34=-34, 12-34=-69, 19-21=-30(F=-12), 13-19=-18
Concentrated Loads (lb)
Vert: 35=-306
- 40) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-34=-34, 12-34=-69, 19-21=-30(F=-12), 13-19=-18
Concentrated Loads (lb)
Vert: 12=-306
- 41) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-34=-34, 12-34=-69, 19-21=-30(F=-12), 13-19=-18
Concentrated Loads (lb)
Vert: 3=-306
- 42) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-34=-34, 12-34=-69, 19-21=-30(F=-12), 13-19=-18
Concentrated Loads (lb)
Vert: 6=-306
- 43) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-34=-34, 12-34=-69, 19-21=-30(F=-12), 13-19=-18
Concentrated Loads (lb)
Vert: 7=-306
- 44) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-34=-34, 12-34=-69, 19-21=-30(F=-12), 13-19=-18
Concentrated Loads (lb)
Vert: 8=-306
- 45) 16th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-34=-34, 12-34=-69, 19-21=-30(F=-12), 13-19=-18
Concentrated Loads (lb)
Vert: 10=-306
- 46) 17th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-34=-34, 12-34=-69, 19-21=-30(F=-12), 13-19=-18
Concentrated Loads (lb)
Vert: 11=-306





NOTES:-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 2-0-0 to 1-6-10, Interior(1) 1-6-10 to 35-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load in all areas where a rectangle 3-6-0 tall by 2-0-0 wide is applied to any other members.
- 7) A plate rating reduction of 20% has been considered.
- 8) Bearing at joint(s) 83 considers parallel to grain formula. Building designer should verify.
- 9) This truss is designed in accordance with the provisions of section 2306.1 and referenced standard.
- 10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer should verify that they are correct for the intended use.
- 11) This truss has been designed for a maximum live load of 6.0lb dead located at all mid panels and nonconcurrent with any other live loads.

NOTES-

12) This truss has been designed for a total seismic drag load of 13200 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 9-3-8 to 35-3-6 for 507.9 plf.

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 8-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

14) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

15) 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=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-4=-74, 5-93=-74, 11-93=-109, 12-34=-18
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-4=-64, 5-93=-64, 11-93=-99, 12-34=-18
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-93=-34, 11-93=-69, 12-34=-38
- 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=57, 2-84=28, 4-84=14, 5-93=18, 11-93=-17, 12-34=-11
Horz: 1-2=-77, 2-84=48, 4-84=-34, 4-5=12, 5-11=-38, 11-12=35, 34-82=19
- 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=8, 2-3=14, 3-4=28, 5-92=18, 92-93=25, 11-93=-10, 12-34=-11
Horz: 1-2=-28, 2-3=-34, 3-4=48, 4-5=-41, 5-92=-38, 11-92=-45, 11-12=-19, 34-82=-35
- 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=-23, 2-4=-51, 5-93=-47, 11-93=-82, 12-34=-18
Horz: 1-2=-11, 2-4=17, 4-5=-16, 5-11=13, 11-12=-31, 34-82=-22
- 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=-45, 2-4=-51, 5-93=-47, 11-93=-82, 12-34=-18
Horz: 1-2=-11, 2-4=17, 4-5=38, 5-11=13, 11-12=22, 34-82=31
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-4=-7, 5-93=-5, 11-93=-30, 12-34=-11
Horz: 1-2=-28, 2-4=-13, 4-5=12, 5-11=-25, 11-12=23, 34-82=18
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-4=6, 5-93=23, 11-93=-12, 12-34=-11
Horz: 1-2=-21, 2-4=-27, 4-5=-29, 5-11=-44, 11-12=-18, 34-82=-23
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-4=-34, 5-93=-22, 11-93=-57, 12-34=-18
Horz: 1-2=-7, 2-4=-0, 4-5=37, 5-11=-12, 11-12=11, 34-82=31
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-4=-20, 5-93=-3, 11-93=-38, 12-34=-18
Horz: 1-2=21, 2-4=-14, 4-5=-4, 5-11=-31, 11-12=-31, 34-82=-11
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-4=23, 5-93=5, 11-93=-30, 12-34=-11
Horz: 1-2=-38, 2-4=-44, 4-5=-50, 5-11=-25, 11-12=21, 34-82=15
- 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, 2-4=5, 5-93=23, 11-93=-12, 12-34=-11
Horz: 1-2=-19, 2-4=-25, 4-5=-31, 5-11=-44, 11-12=-15, 34-82=21
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-4=10, 5-93=-1, 11-93=-36, 12-34=-11
Horz: 1-2=-24, 2-4=-31, 4-5=37, 5-11=-19, 11-12=16, 34-82=8
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-4=-1, 5-93=10, 11-93=-25, 12-34=-11
Horz: 1-2=-19, 2-4=-26, 4-5=-31, 11-12=-8, 34-82=-16

- Standard Except:
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-4=-3, 5-93=-22, 11-93=-57, 12-34=-18
Horz: 1-2=-38, 2-4=-31, 4-5=-25, 5-11=-12, 11-12=9, 34-82=28
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-4=-22, 5-93=-3, 11-93=-38, 12-34=-18
Horz: 1-2=-19, 2-4=-12, 4-5=-6, 5-11=-31, 11-12=-28, 34-82=-9
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-93=-34, 11-93=-69, 12-34=-18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-59, 2-4=-64, 5-93=-55, 11-93=-90, 12-34=-18
Horz: 1-2=-5, 2-4=-0, 4-5=28, 5-11=-9, 11-12=-8, 34-82=23
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-4=-53, 5-93=-41, 11-93=-76, 12-34=-18
Horz: 1-2=-15, 2-4=-11, 4-5=-3, 5-11=-23, 11-12=-23, 34-82=-8
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-4=-41, 5-93=-55, 11-93=-90, 12-34=-18
Horz: 1-2=-28, 2-4=-23, 4-5=-19, 5-11=-9, 11-12=7, 34-82=21
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-50, 2-4=-55, 5-93=-41, 11-93=-76, 12-34=-18
Horz: 1-2=-14, 2-4=-9, 4-5=-4, 5-11=-23, 11-12=-21, 34-82=7
- 23) Dead-Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=153, 5-6=-23, 6-93=-22, 11-93=-57, 12-34=-18
Horz: 2-4=747, 5-88=13211, 6-88=13211, 6-89=11947, 7-89=11947, 7-8=11947, 8-90=11947, 9-90=11947, 9-91=11947, 91-92=11947, 92-93=11947, 10-93=11948, 10-11=11947
Drag: 4-5=373, 12-30=-508
- 24) Dead-Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-221, 5-6=-45, 6-93=-46, 11-93=-81, 12-34=-18
Horz: 2-4=-747, 5-88=-13211, 6-88=-13211, 6-89=-11947, 7-89=-11947, 7-8=11947, 8-90=-11947, 9-90=-11947, 9-91=-11947, 91-92=-11947, 92-93=-11947, 10-93=-11948, 10-11=-11947
Drag: 4-5=-373, 12-30=-508
- 25) 0.6 Dead-Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-20, 2-4=166, 5-6=-10, 6-93=-9, 11-93=-30, 12-34=-11
Horz: 2-4=747, 5-88=13211, 6-88=13211, 6-89=11947, 7-89=11947, 7-8=11947, 8-90=11947, 9-90=11947, 9-91=11947, 91-92=11947, 92-93=11947, 10-93=11948, 10-11=11947
Drag: 4-5=373, 12-30=-508
- 26) 0.6 Dead-Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-20, 2-4=-207, 5-6=-31, 6-93=-32, 11-93=-53, 12-34=-11
Horz: 2-4=-747, 5-88=-13211, 6-88=-13211, 6-89=-11947, 7-89=-11947, 7-8=11947, 8-90=-11947, 9-90=-11947, 9-91=-11947, 91-92=-11947, 92-93=-11947, 10-93=-11948, 10-11=-11947
Drag: 4-5=-373, 12-30=-508
- 27) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-4=-74, 5-93=-34, 11-93=-69, 12-34=-18
- 28) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-93=-74, 11-93=-69, 12-34=-18
- 29) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-4=-64, 5-93=-34, 11-93=-69, 12-34=-18
- 30) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-93=-64, 11-93=-69, 12-34=-18
- 31) F1&F2 Anchor Check: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-93=-34(F)
Concentrated Loads (lb)
Horz: 31=-1875(F), 5=5000(F)
- 32) F3 Left&F4 Anchor Check: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)

LOAD CASE(S)

- Standard Except:
- Uniform Loads (plf)
- Vert: 1-2=-34(F), 2-4=-34(F), 5-93=-34(F), 11-93=-69(F=-34), 12-34=-18(F)
- Concentrated Loads (lb)
- Vert: 87=1050(F)
- Horz: 4=-300(F)
- 33) F3 Righl&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-34(F), 2-4=-34(F), 5-93=-34(F), 11-93=-69(F=-34), 12-34=-18(F)
- Concentrated Loads (lb)
- Vert: 87=1050(F)
- Horz: 4=-300(F)
- 34) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-93=-34, 11-93=-69, 12-34=-18
- Concentrated Loads (lb)
- Vert: 2=-306
- 35) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-93=-34, 11-93=-69, 12-34=-18
- Concentrated Loads (lb)
- Vert: 85=-306
- 36) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-93=-34, 11-93=-69, 12-34=-18
- Concentrated Loads (lb)
- Vert: 86=-306
- 37) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-93=-34, 11-93=-69, 12-34=-18
- Concentrated Loads (lb)
- Vert: 4=-306
- 38) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-93=-34, 11-93=-69, 12-34=-18
- Concentrated Loads (lb)
- Vert: 88=-306
- 39) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-93=-34, 11-93=-69, 12-34=-18
- Concentrated Loads (lb)
- Vert: 89=-306
- 40) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-93=-34, 11-93=-69, 12-34=-18
- Concentrated Loads (lb)
- Vert: 90=-306
- 41) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-93=-34, 11-93=-69, 12-34=-18
- Concentrated Loads (lb)
- Vert: 91=-306
- 42) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-93=-34, 11-93=-69, 12-34=-18
- Concentrated Loads (lb)
- Vert: 94=-306
- 43) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-93=-34, 11-93=-69, 12-34=-18
- Concentrated Loads (lb)
- Vert: 11=-306
- 44) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-93=-34, 11-93=-69, 12-34=-18
- Concentrated Loads (lb)
- Vert: 3=-306
- 45) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-93=-34, 11-93=-69, 12-34=-18
- Concentrated Loads (lb)
- Vert: 6=-306
- 46) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-93=-34, 11-93=-69, 12-34=-18
- Concentrated Loads (lb)
- Vert: 7=-306
- 47) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-93=-34, 11-93=-69, 12-34=-18
- Concentrated Loads (lb)
- Vert: 9=-306
- 48) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

- Standard
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-93=-34, 11-93=-69, 12-34=-18
- Concentrated Loads (lb)
- Vert: 10=-306



2-0-0 4-8-7 8-4-0 10-6-0 17-9-7 24-7-15 32-3-10 35-4-4
 2-0-0 4-8-7 3-7-9 2-2-0 7-3-7 6-10-9 7-7-11 3-0-10

Scale = 1/85.5
 Camber = 5/16 in

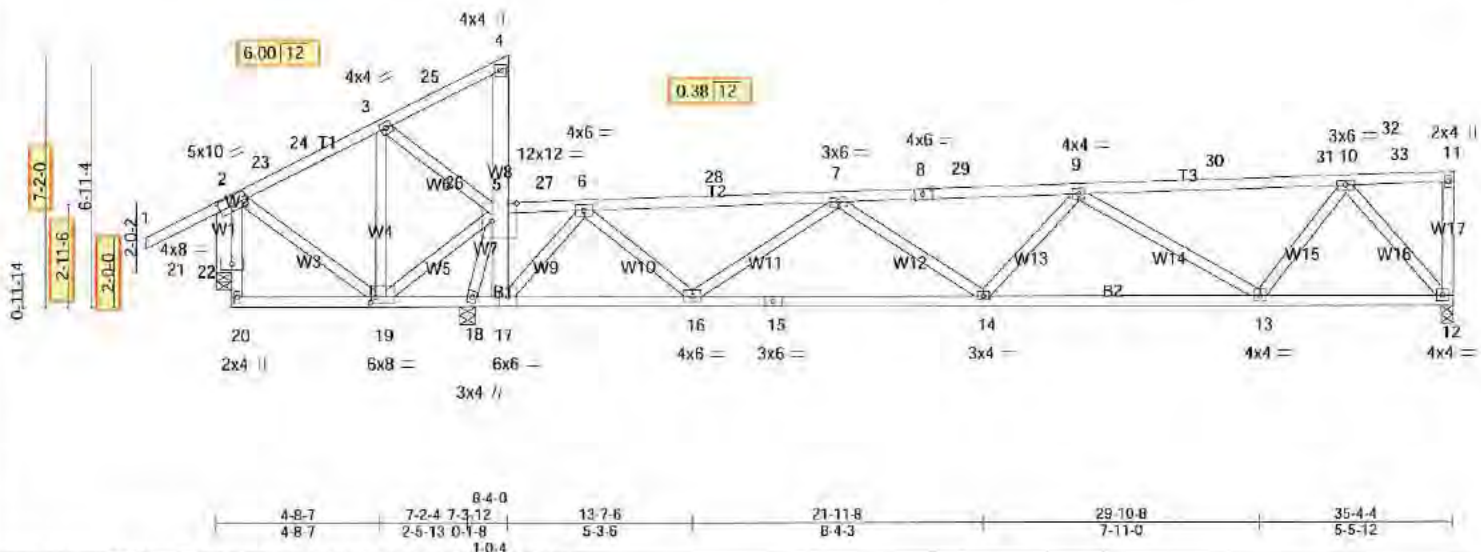


Plate Offsets (X,Y) -- [2:0-4-9,0-3-0], [5:0-8-8,0-6-2], [19:0-1-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.84	Vert(LL)	-0.11 14-16	>999	240	MT20	220/195
TCDL 17.0	Plate Grip DOL 1.25	BC 0.63	Vert(CT)	-0.43 14-16	>777	180		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.69	Horz(CT)	0.10 12	n/a	n/a		
BCDL 9.0	Rep Stress Incr YES	Matrix-MSH						
	Code IBC2015/TPI2014						Weight: 200 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.1&Btr G *Except*

T1: 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Sld G *Except*

W8,W1: 2x6 DF No.2 G, W5,W2: 2x4 DF No.2 G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 2-2-1 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 2-10-15 oc bracing.

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

12 = 1230/0-4-0 (min. 0-1-8)
 18 = 2389/0-5-8 (min. 0-2-9)
 22 = -130/0-5-8 (min. 0-1-8)

Max Horz

18 = -3125(LC 27)

Max Uplift

12 = -64(LC 9)

18 = -368(LC 9)

22 = -1208(LC 27)

Max Grav

12 = 1230(LC 1)

18 = 2389(LC 1)

22 = 243(LC 13)

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

TOP CHORD

2-23=-212/1366, 23-24=-193/1374, 3-24=-178/1422,

3-25=-353/339, 4-25=-324/364, 5-17=-108/1119,

5-26=-359/1145, 4-26=-359/95, 5-27=-1312/1262,

6-27=-1310/1264, 6-28=-2078/128, 7-28=-2074/130,

7-8=-2237/252, 8-29=-2230/253, 9-29=-2223/256,

9-30=-1426/105, 30-31=-1417/107, 31-32=-1409/107,

10-32=-1408/107, 11-12=-359/43

BOT CHORD

18-19=-4221/489, 17-18=-1284/97, 16-17=-288/1751,

15-16=-394/2276, 14-15=-394/2276, 13-14=-372/2241,

12-13=-140/969

WEBS

3-19=-1563/106, 3-5=-59/1464, 6-17=-1847/275, 6-16=-71/1318,

7-16=-1269/218, 7-14=-174/431, 9-14=-129/331,

WEBS

3-19=-1563/106, 3-5=-59/1464, 6-17=-1847/275,
 6-16=-71/1318, 7-16=-1269/218, 7-14=-174/431,
 9-14=-129/331, 10-12=-1490/177, 2-19=-1340/242,
 5-19=-312/3779, 10-13=-55/773, 9-13=-967/235,
 5-18=-2047/311, 2-22=-246/1230

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-6-10, Interior(1) 1-6-10 to 35-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces as MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Bearing at joint(s) 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 8) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 9) This truss has been designed for a 6.0lb dead located at all mid panels and nonconcurrent with any other live loads.
- 10) This truss has large uplift reaction(s) required to secure truss against upward movement. Must provide for uplift reactions indicated.
- 11) Hanger(s) or other connection device(s) is the responsible for the concentrated load(s) 1875 lb left at 8-16 such connection device(s) is the responsible for the concentrated load(s).
- 12) This truss is designed for a creep deflection per ANSI/TPI 1.
- 13) In the LOAD CASE(S) section, load is indicated as front (F) or back (B).

LOAD CASE(S)

Standard Except:

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-4=-74, 5-32=-74, 11-32=-109, 12-20=-18
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-4=-64, 5-32=-64, 11-32=-99, 12-20=-18
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-32=-34, 11-32=-69, 12-20=-38
- 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=57, 2-23=28, 4-23=14, 5-32=18, 11-32=-17, 12-20=-11
Horz: 1-2=-77, 2-23=-48, 4-23=-34, 4-5=12, 5-11=-38, 11-12=35, 20-21=19
- 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=8, 2-3=-14, 3-4=28, 5-31=18, 31-32=25, 11-32=-10, 12-20=-11
Horz: 1-2=-28, 2-3=-34, 3-4=-48, 4-5=-41, 5-31=-38, 11-31=45, 11-12=-19, 20-21=-35
- 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=-23, 2-4=-51, 5-32=-47, 11-32=-82, 12-20=-18
Horz: 1-2=-11, 2-4=17, 4-5=-16, 5-11=13, 11-12=-31, 20-21=-22
- 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=-45, 2-4=-51, 5-32=-47, 11-32=-82, 12-20=-18
Horz: 1-2=11, 2-4=17, 4-5=38, 5-11=13, 11-12=-22, 20-21=31
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-4=7, 5-32=5, 11-32=-30, 12-20=-11
Horz: 1-2=-28, 2-4=-13, 4-5=12, 5-11=-25, 11-12=23, 20-21=18
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-4=6, 5-32=23, 11-32=-12, 12-20=-11
Horz: 1-2=-21, 2-4=-27, 4-5=-29, 5-11=-44, 11-12=-18, 20-21=-23
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-4=-34, 5-32=-22, 11-32=-57, 12-20=-18
Horz: 1-2=-7, 2-4=-0, 4-5=37, 5-11=-12, 11-12=-15, 20-21=31
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-4=-20, 5-32=-3, 11-32=-38, 12-20=-18
Horz: 1-2=-21, 2-4=-14, 4-5=-4, 5-11=-31, 11-12=-31, 20-21=-11
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-4=23, 5-32=5, 11-32=-30, 12-20=-11
Horz: 1-2=-38, 2-4=44, 4-5=-50, 5-11=25, 11-12=21, 20-21=15
- 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, 2-4=5, 5-32=23, 11-32=-12, 12-20=-11
Horz: 1-2=-19, 2-4=-25, 4-5=-31, 5-11=-44, 11-12=-15, 20-21=-21
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-4=10, 5-32=-1, 11-32=-36, 12-20=-11
Horz: 1-2=-24, 2-4=-31, 4-5=-37, 5-11=-19, 11-12=16, 20-21=8
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-4=-1, 5-32=10, 11-32=-25, 12-20=-11
Horz: 1-2=-13, 2-4=-19, 4-5=-26, 5-11=-31, 11-12=-8, 20-21=-16
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-4=-3, 5-32=-22, 11-32=-57, 12-20=-18
Horz: 1-2=-38, 2-4=-31, 4-5=-25, 5-11=-12, 11-12=9, 20-21=28
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-4=-22, 5-32=-3, 11-32=-38, 12-20=-18
Horz: 1-2=-19, 2-4=-12, 4-5=-6, 5-11=-31, 11-12=-28, 20-21=9
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)

Continued on page 3

Standard Except:

- Vert: 1-2=-34, 2-4=-34, 5-32=-34, 11-32=-69, 12-20=-18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-59, 2-4=-64, 5-32=-55, 11-32=-90, 12-20=-18
Horz: 1-2=-5, 2-4=-0, 4-5=28, 5-11=-9, 11-12=8, 20-21=23
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-4=-53, 5-32=-41, 11-32=-76, 12-20=-18
Horz: 1-2=-15, 2-4=-11, 4-5=-3, 5-11=-23, 11-12=-23, 20-21=8
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-4=-41, 5-32=-55, 11-32=-90, 12-20=-18
Horz: 1-2=-28, 2-4=-23, 4-5=-19, 5-11=-9, 11-12=7, 20-21=21
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-50, 2-4=-55, 5-32=-41, 11-32=-76, 12-20=-18
Horz: 1-2=-14, 2-4=-9, 4-5=-4, 5-11=-23, 11-12=-21, 20-21=-7
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-4=-74, 5-32=-34, 11-32=-69, 12-20=-18
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-32=-74, 11-32=-109, 12-20=-18
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-4=-64, 5-32=-34, 11-32=-69, 12-20=-18
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-32=-64, 11-32=-99, 12-20=-18
- 27) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-32=-34(F), 11-32=-69(F=-34), 12-20=-18(F)
Concentrated Loads (lb)
Horz: 17=-1875(F), 5=5000(F)
- 28) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-32=-34(F), 11-32=-69(F=-34), 12-20=-18(F)
Concentrated Loads (lb)
Vert: 26=1050(F)
Horz: 4=-300(F)
- 29) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-32=-34(F), 11-32=-69(F=-34), 12-20=-18(F)
Concentrated Loads (lb)
Vert: 26=1050(F)
Horz: 4=300(F)
- 30) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 2=306
- 31) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 24=306
- 32) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 25=306
- 33) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 4=306
- 34) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 27=306
- 35) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 28=306

Job	Truss	Truss Type	Qty	Ply	M31927/Legacy Livermore/Ron L.
BUILDING A	AA07	ROOF SPECIAL	5	1	Job Reference (optional)

California TrusFrame LLC., Perris, CA. 92570

Run: 8.240 s Jan 6 2020 Print: 8.240 s Jan 6 2020 MiTek Industries, Inc. Fri Oct 9 15:56:32 2020 Page 3
ID: EyTyKKJIT05ot2fMsnaktVylfO7-ck21SvmlbRbf7EuOEg0hQEwmOVM4BQ6dUB8yV3y

LOAD CASE(S)

Standard

- 36) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 29=-306
- 37) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 30=-306
- 38) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 33=-306
- 39) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 11=-306
- 40) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 3=-306
- 41) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 6=-306
- 42) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 7=-306
- 43) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 9=-306
- 44) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 10=-306

California TrusFrame LLC., Perris, CA. 92570

Run: 8/24/20 Jan 6 2020 Print: 8/24/20 Jan 6 2020 Mitek Industries, Inc. Fri Oct 9 15:56:34 2020 Page 1
ID: EyTyKKJIT05ot2fMsnakVylfO7-YjAotbk6JMr9qyGd0pH856WbYa1lqvLJzwmQFOyV3vR

Scale = 1:59.2
Camber = 5/8 in

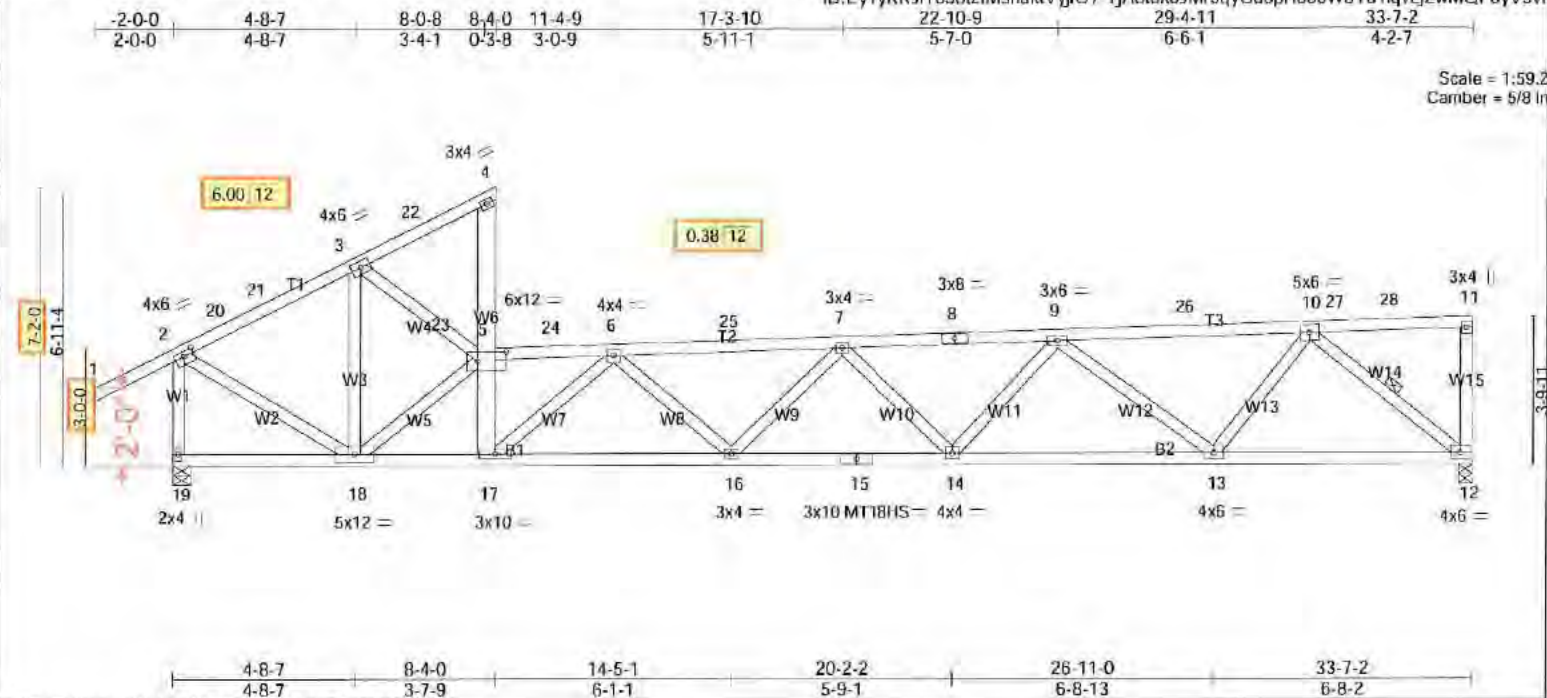


Plate Offsets (X,Y) = [2:0 3:0,0-1-8], [5:0-8-12,0-3:0]

LOADING (psf)	SPACING	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.76	Vert(LL) 0.27	16-17	>999	240	MT20	220/195
TCDL 17.0	Plate Grip DOL 1.25	BC 0.78	Vert(CT) -0.86	14-16	>465	180	MT18HS	220/195
BCLL 0.0 *	Lumber DOL 1.25	WB 0.97	Horz(CT) 0.25	12	n/a	n/a		
BCDL 9.0	Rep Stress Incr YES	Matrix-MSH						
	Code IBC2015/TPI2014							
							Weight: 187 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.1&Btr G *Except*

T1: 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G *Except*

W6: 2x6 DF No.2 G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 2-3-7 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc bracing.

WEBS

1 Row at midpt

10-12

Mitek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

12 = 1641/0-4-0 (min. 0-1-12)

19 = 1702/0-5-8 (min. 0-1-13)

Max Horz

19 = -3125(LC 27)

Max Uplift

12 = -124(LC 9)

19 = -42(LC 9)

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

TOP CHORD

2-20=-1421/109, 20-21=-1345/125, 3-21=-1340/146,

3-22=-350/302, 4-22=-319/348, 5-17=-436/852, 5-23=-333/1146,

4-23=-333/96, 5-24=-5881/1009, 6-24=-5877/1017,

6-25=-4915/645, 7-25=-4912/647, 7-8=-3958/547,

8-9=-3947/550, 9-26=-2458/263, 10-26=-2451/265,

11-12=-422/0, 2-19=-1665/233

BOT CHORD

18-19=-515/3120, 17-18=-1004/3932, 16-17=-835/5275,

15-16=-744/4479, 14-15=-744/4479, 13-14=-583/3552,

12-13=-252/1719

WEBS

5-18=-2885/896, 3-5=-1407/364, 2-18=-110/1398,

3-18=-474/1102, 6-17=-1156/770, 6-16=-499/721,

7-16=-535/622, 7-14=-848/237, 9-14=-92/946, 9-13=-1406/316,

10-13=-142/1240, 10-12=-2212/297

NOTES-

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

Continued on page 2

2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-4-6, Interior(1) 1-4-6 to 33-5-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) All plates are MT20 plates unless otherwise indicated.

4) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) A plate rating reduction of 20% has been applied for the green lumber members.

7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

8) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

9) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 8-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

11) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

12) 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

Uniform Loads (plf)

Vert: 1-2=-74, 2-4=-74, 5-27=-74, 11-

2) Dead + 0.75 Roof Live (balanced): Lumber

Uniform Loads (plf)

Vert: 1-2=-64, 2-4=-64, 5-27=-64, 11-

3) Dead + Uninhabitable Attic Without S

Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-

4) Dead + 0.6 C-C Wind (Pos. Internal)

Increase=1.60

Uniform Loads (plf)

LOAD CASE(S)

- Standard
 - Uniform Loads (plf)
 - Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
 - Concentrated Loads (lb)
 - Vert: 28=-306
- 39) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
 - Concentrated Loads (lb)
 - Vert: 11=-306
- 40) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
 - Concentrated Loads (lb)
 - Vert: 3=-306
- 41) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
 - Concentrated Loads (lb)
 - Vert: 6=-306
- 42) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
 - Concentrated Loads (lb)
 - Vert: 7=-306
- 43) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
 - Concentrated Loads (lb)
 - Vert: 9=-306
- 44) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
 - Concentrated Loads (lb)
 - Vert: 10=-306



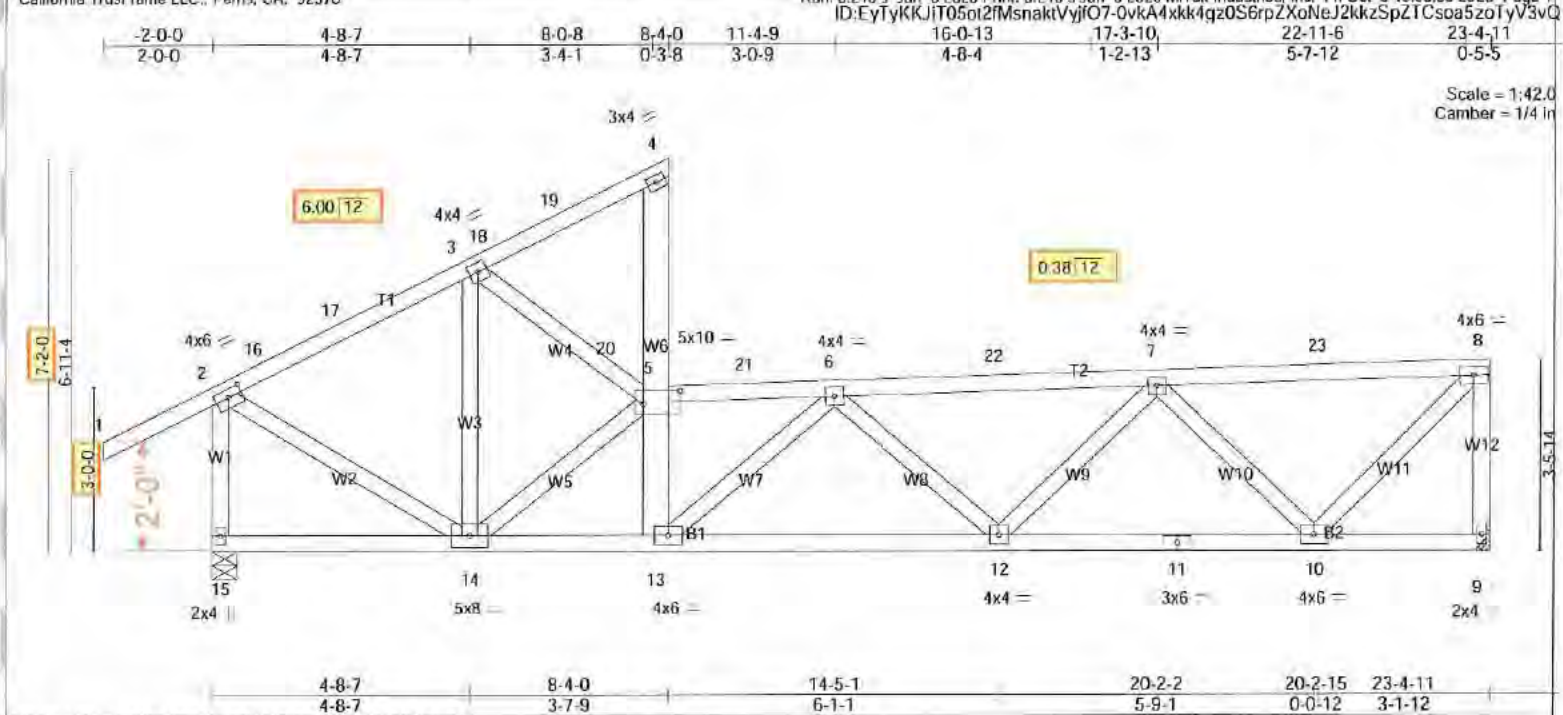


Plate Offsets (X,Y) -- [2:0-3-0,0-1-12], [5:0-8-0,0-3-0]		LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
		TCLL 20.0		2-0-0		TC 0.86		in (loc) l/defl L/d		MT20		220/195	
		TCDL 17.0		Plate Grip DOL 1.25		BC 0.46		Vert(LL) 0.16 12-13 >999 240					
		BCLL 0.0 *		Lumber DOL 1.25		WB 0.55		Vert(CT) 0.32 12-13 >856 180					
		BCDL 9.0		Rep Stress Incr YES		Matrix-MSH		Horz(CT) 0.11 9 n/a n/a					
				Code IBC2015/TPI2014						Weight: 140 lb		FT = 20%	

LUMBER-
 TOP CHORD 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G *Except*
 W6: 2x6 DF No.2 G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 5-3-14 oc bracing.
 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)		2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 23-2-15 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	
9	=	1055/Mechanical	3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
15	=	1229/0-5-8 (min. 0-1-8)	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.
Max Horz	=	-3125(LC 27)	5) A plate rating reduction of 20% has been applied for the green lumber members.
Max Uplift	=	-183(LC 9)	6) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
15	=	-99(LC 29)	7) Load case(s) 27, 28, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
Max Grav	=	1147(LC 27)	8) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
15	=	1229(LC 1)	9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 8-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
			10) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
			11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 2-16=-942/263, 16-17=-867/291, 3-17=-861/326, 3-18=-343/312,
 18-19=-317/312, 4-19=-312/358, 5-13=-751/755,
 5-20=-339/1143, 4-20=-339/93, 5-21=-4504/1425,
 6-21=-4497/1434, 6-22=-2778/364, 7-22=-2775/366,
 7-23=-1044/112, 8-23=-1041/114, 8-9=-1121/195,
 2-15=-1191/201
 BOT CHORD
 14-15=-511/3119, 13-14=-1406/2601, 12-13=-662/3531,
 11-12=-365/1987, 10-11=-365/1987
 WEBS
 5-14=-1629/1249, 3-5=-905/478, 2-14=-307/898, 3-14=-615/600,
 6-13=-1005/1262, 6-12=-1033/567, 7-12=-382/1137,
 7-10=-1369/273, 8-10=-193/1477

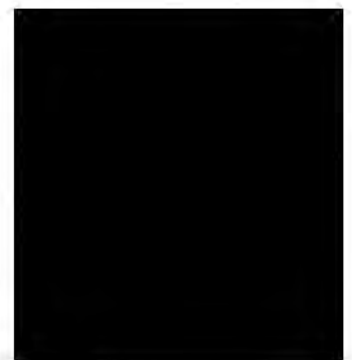
NOTES-
 1) Unbalanced roof live loads have been considered for this design.

Job	Truss	Truss Type	Qty	Ply	m319277/Legacy Livermore/Ron L.
BUILDING A	AA10	GABLE	5	1	Job Reference (optional)

California TrusFrame LLC., Perris, CA. 92570

Run: 8.240 s Jan 6 2020 Print: 8.240 s Jan 6 2020 MITek Industries, Inc. Fri Oct 9 15:56:35 2020 Page 2
ID: EyTyKKJIT05ot2fMsnak(VyjfO7-U6IYIHIMrz5s4GQ07EJcBXbvUNo2IwS00ErXKvyV3vP

LOAD CASE(S)
Standard Except:
Concentrated Loads (lb)
Vert: 20=1050(F)
Horz: 4=300(F)



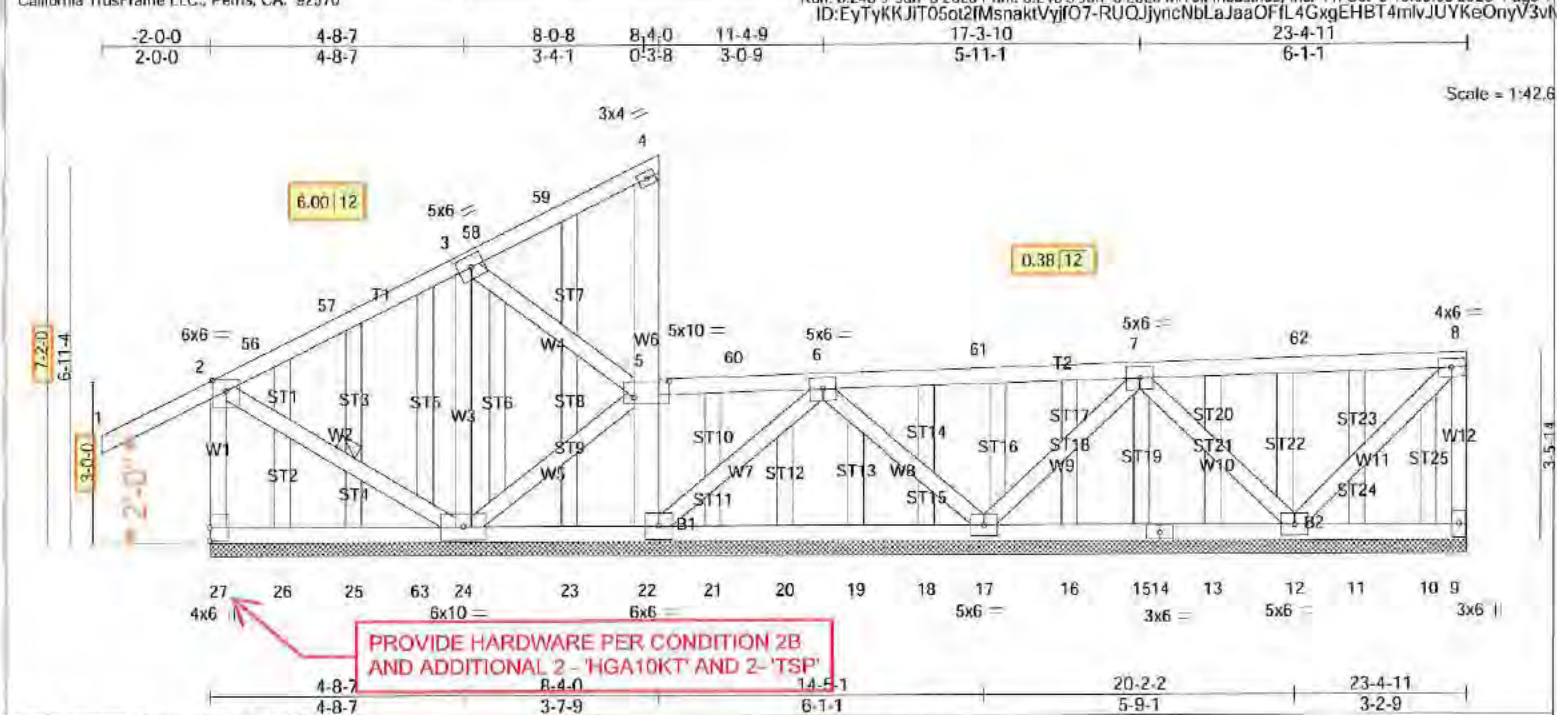


Plate Offsets (X,Y) = [5:0-7-12,0-3-8]									
LOADING (psf)	SPACING	2-0-0	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES
TCLL 20.0	Plate Grip DOL	1.25	TC 0.91	Vert(LL)	0.00	1	n/r	120	MT20
TCDL 17.0	Lumber DOL	1.25	BC 0.49	Vert(CT)	-0.05	1-2	n/r	120	GRIP
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(CT)	0.03	9	n/a	n/a	220/195
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MSH						Weight: 203 lb FT = 20%

LUMBER-
 TOP CHORD 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G *Except*
 W6: 2x6 DF No.2 G
 OTHERS 2x4 DF Stud/Std G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 4-1-10 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 3-11-4 oc bracing.
 WEBS
 1 Row at midpt 2-24

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 23-4-11.
 (lb) - Max Horz
 27= 376(LC 9)
 Max Uplift
 All uplift 100 lb or less at joint(s) 26, 23, 21, 20, 19,
 18, 16, 15, 10 except 22=1286(LC 25), 9=1236(LC 26),
 27=2087(LC 25), 24=1169(LC 25), 12=152(LC 13)
 Max Grav
 All reactions 250 lb or less at joint(s) 26, 25, 23, 21, 20,
 19, 16, 15, 13, 11, 10 except 22=1701(LC 24), 9=1288(LC
 23), 27=2347(LC 24), 24=1419(LC 24), 12=548(LC 1), 18=280(LC
 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 2-56=2220/2166, 56-57=1803/1201, 3-57=930/1109,
 3-58=1636/1584, 58-59=805/1398, 4-59=681/626,
 5-22=383/424, 4-5=1828/1754, 5-60=688/612,
 6-60=1798/1872, 6-61=1239/90, 7-61=1411/1303,
 7-62=1274/1358, 8-62=1176/1270, 8-9=1231/1206,
 2-27=2312/2065
 BOT CHORD
 26-27=591/357, 25-26=591/357, 25-63=591/357,
 24-63=591/357, 23-24=2577/2513, 22-23=1580/1516,
 21-22=2421/2603, 20-21=1797/1979, 19-20=1120/1302,
 18-19=443/625, 17-18=650/832, 16-17=1919/2102,
 15-16=1117/1300, 14-15=441/623, 13-14=266/448,
 12-13=867/1049, 11-12=1540/1560, 10-11=954/974,
 9-10=277/297

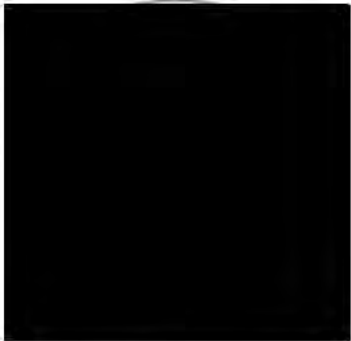
NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf;
 BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone
 and C-C Corner(3) 2-0-0 to 1-0-0, Exterior(2) 1-0-0 to 23-2-15 zone; cantilever left and
 right exposed; end vertical left and right exposed; C-C for members and forces &
 MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to
 wind (normal to the face), see Standard Industry Gable End Details as applicable, or
 consult qualified building designer as per ANSI/TPI 1.
 4) Gable requires continuous bottom chord bearing.
 5) Gable studs spaced at 1-4-0 oc.
 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent
 with any other live loads.
 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all
 areas where a rectangle 3-5-0 tall by 2-0-0 wide and any other members.
 8) A plate rating reduction of 20% has been applied.
 9) This truss is designed in accordance with section 2306.1 and referenced standards.
 10) This truss has been designed for a 6.0lb dead load at all mid panels and
 nonconcurrent with any other live load.
 11) This truss has been designed for a DOL=(1.33) Plate grip DOL=(1.33) Co
 chord from 3-10-11 to 23-4-11 for 507
 12) This truss is designed for a creep
 Vert(CT) deflection per ANSI/TPI 1.

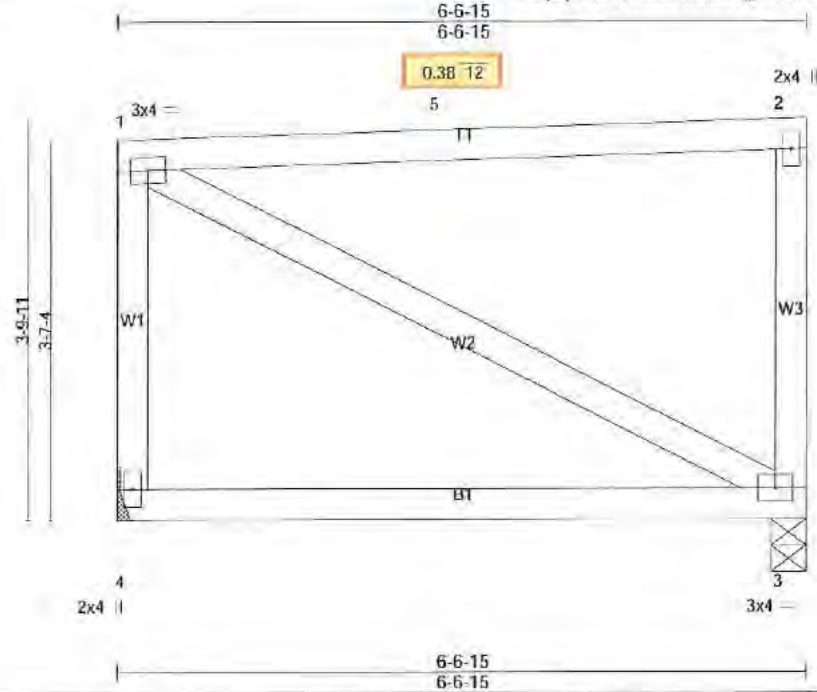
Job	Truss	Truss Type	Qty	Ply	M3192 // Legacy Livermore/Ron L.
BUILDING A	AA10D	GABLE	1	1	Job Reference (optional)

California TrusFrame LLC., Perris, CA. 92570

Run: 8.240 s Jan 6 2020 Print: 8.240 s Jan 6 2020 MiTek Industries, Inc. Fri Oct 9 15:56:39 2020 Page 2
ID:EyTyKKJiT05ot2fMsnaktVyjIO7-vh_hwloE8uTRxj9boMsJo9DP1bpJVC9SjC3BxEyV3vM

LOAD CASE(S)
Standard





Scale = 1:21.9
Camber = 1/8 in

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 0.98	Vert(LL)	-0.08	3-4	>920	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.40	Vert(CT)	0.23	3-4	>328	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP						Weight: 35 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

LOAD CASE(S)
Standard

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

4	=	289/Mechanical
3	=	289/0-4-0 (min. 0-1-8)
Max Horz		
4	=	145(LC 9)
Max Uplift		
4	=	-74(LC 8)
3	=	-21(LC 9)
Max Grav		
4	=	469(LC 23)
3	=	469(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-4=-413/183, 2-3=-413/126

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 6-5-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 6) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 - 7) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

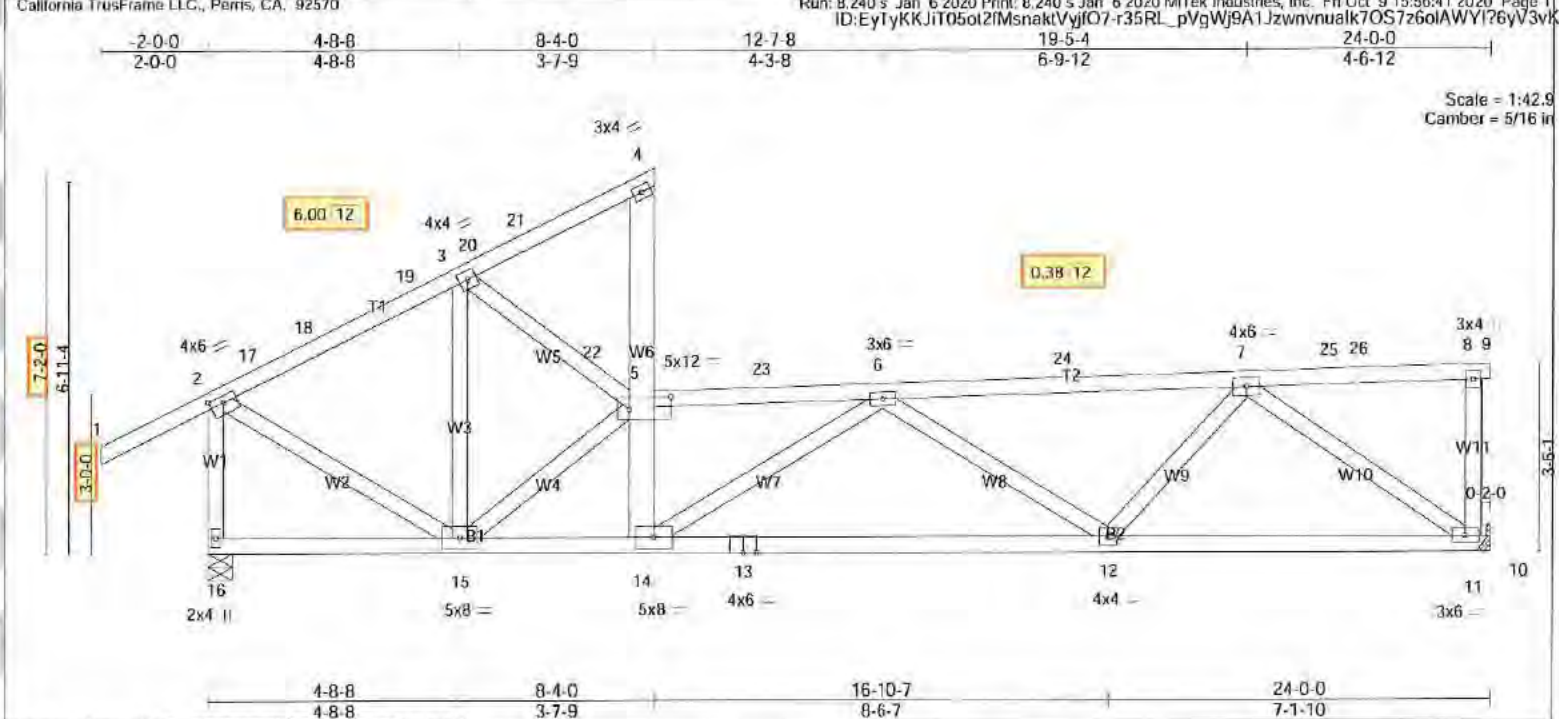


Plate Offsets (X,Y) - [2:0-3-0-0-1-8], [5:0-9-4,0-2-12]							
LOADING (psf)		SPACING- 2-0-0	CSI	DEFL.	in (loc)	l/defl	L/d
TCLL	20.0	Plate Grip DOL 1.25	TC 1.00	Vert(LL)	0.17 12-14	>999	240
TCDL	17.0	Lumber DOL 1.25	BC 0.66	Vert(CT)	-0.46 12-14	>620	180
BCLL	0.0 *	Rep Stress Incr YES	WB 0.86	Horz(CT)	0.12 11	n/a	n/a
BCDL	9.0	Code IBC2015/TPI2014	Matrix-MSH				
				PLATES	GRIP		
				MT20	220/195		
				Weight: 140 lb FT = 20%			

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G *Except*
W6: 2x6 DF No.2 G

BRACING-
TOP CHORD
Structural wood sheathing directly applied, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 5-3-14 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
11 = 1105/Mechanical
16 = 1249/0-5-8 (min. 0-1-8)
Max Horz
16 = -3125(LC 38)
Max Uplift
11 = -194(LC 9)
16 = -93(LC 40)
Max Grav
11 = 1165(LC 38)
16 = 1249(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-17=-962/258, 17-18=-899/280, 18-19=-881/288,
3-19=-826/320, 3-20=-344/310, 20-21=-338/311, 4-21=-313/357,
5-14=-686/723, 5-22=-339/1144, 4-22=-339/94,
5-23=-4596/1390, 6-23=-4588/1400, 6-24=-2222/262,
7-24=-2219/264, 8-11=-368/46, 2-16=-1211/203
BOT CHORD
15-16=-510/3119, 14-15=-1395/2672, 13-14=-582/3337,
12-13=-582/3337, 11-12=-279/1460
WEBS
3-15=-615/622, 3-5=-927/477, 6-14=-1116/1473,
7-11=-1778/310, 2-15=-301/919, 5-15=-1692/1237,
6-12=-1350/521, 7-12=-188/1181

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

LOAD CASE(S)
Standard Except:
38) F1&F2 Anchor Check: Lumber Incl
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-8=-
Concentrated Loads (lb)
Horz: 14=-1875(F), 5=5000(F)
39) F3 Left&F4 Anchor Check: Lumber Incl
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-8=-
Concentrated Loads (lb)
Vert: 22=1050(F)
Horz: 4=-300(F)
40) F3 Right&F4 Anchor Check: Lumber Incl
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-8=-
Concentrated Loads (lb)

Job	Truss	Truss Type	City	Fly	Mid 1927 Legacy Livermore/Ran C.
BUILDING A	AA13	Roof Special	3	1	Job Reference (optional)

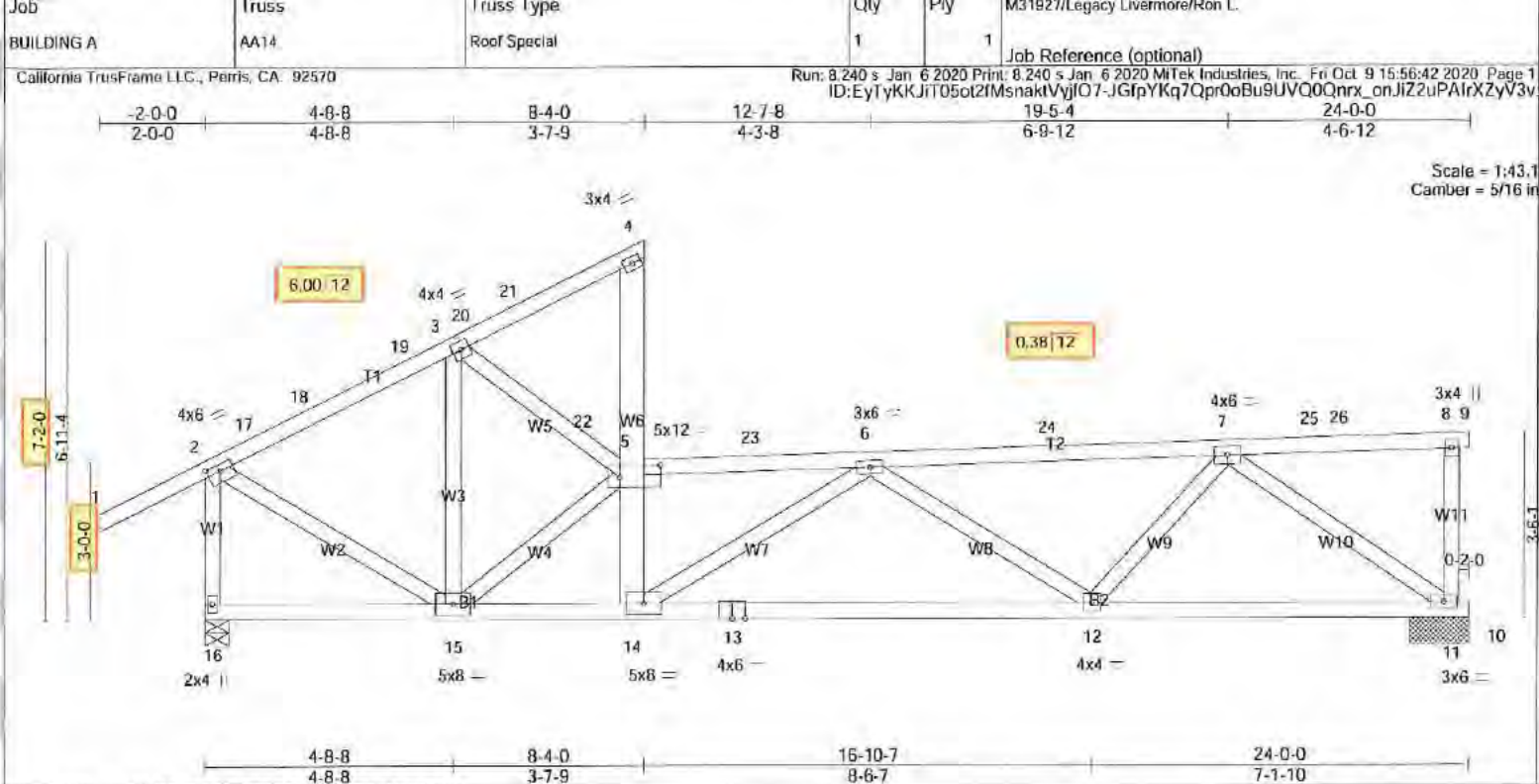
California TrusFrame LLC., Petris, CA. 92570

Run: 8.240 s Jan 6 2020 Print: 8.240 s Jan 6 2020 MiTek Industries, Inc. Fri Oct 9 15:56:41 2020 Page 2
ID: EyTyKKJiT05ot2IMsnaktVijtO7-r35RL_pVgWj9A1Jzwnvnuak7OS7z6olAWYI76yV3vk

LOAD CASE(S)

Concentrated Loads (lb)
Vert: 22=1050(F)
Horz: 4=300(F)





LOADING (psf)		SPACING-		CSI		DEFL.		PLATES		GRIP	
TCLL	20.0	2-0-0		TC	0.86	in (loc)	l/defl	MT20		220/195	
TCDL	17.0	Plate Grip DOL	1.25	BC	0.73	Vert(LL)	0.17 12-14				
BCLL	0.0 *	Lumber DOL	1.25	WB	0.86	Vert(CT)	-0.45 12-14				
BCDL	9.0	Rep Stress Incr	NO	Matrix-MSH		Horz(CT)	0.12 11				
		Code IBC2015/TPI2014									
								Weight: 140 lb		FT = 20%	

LUMBER-
 TOP CHORD 2x4 DF No.2 G *Except*
 T2: 2x4 DF No.1&Btr G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G *Except*
 W6: 2x6 DF No.2 G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 3-1-9 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 5-3-15 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
 11 = 1105/1-1-4 (min. 0-1-8)
 16 = 1249/0-5-8 (min. 0-1-8)
 Max Horz
 16 = -3125(LC 27)
 Max Uplift
 11 = -194(LC 9)
 16 = -93(LC 29)
 Max Grav
 11 = 1165(LC 27)
 16 = 1249(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 2-17=-962/258, 17-18=-899/280, 18-19=-881/288,
 3-19=-826/320, 3-20=-344/310, 20-21=-338/311, 4-21=-313/357,
 5-14=-686/722, 5-22=-339/1144, 4-22=-339/94,
 5-23=-4597/1389, 6-23=-4588/1399, 6-24=-2222/262,
 7-24=-2218/264, 8-11=-368/46, 2-16=-1211/203
 BOT CHORD
 15-16=-510/3119, 14-15=-1395/2672, 13-14=-582/3337,
 12-13=-582/3337, 11-12=-279/1460
 WEBS
 3-15=-615/622, 3-5=-927/477, 6-14=-1115/1474,
 7-11=-1776/311, 2-15=-301/919, 5-15=-1692/1236,
 6-12=-1350/522, 7-12=-188/1181

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

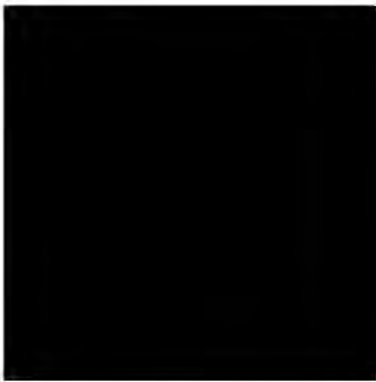
LOAD CASE(S)
 Standard Except:
 27) F1&F2 Anchor Check: Lumber In
 Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-4=-34(F), 5-8
 Concentrated Loads (lb)
 Horz: 14=-1875(F), 5=5000(F)
 28) F3 Left&F4 Anchor Check: Lumb
 Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-4=-34(F), 5-8
 Concentrated Loads (lb)
 Vert: 22=1050(F)
 Horz: 4=-300(F)
 29) F3 Right&F4 Anchor Check: Lumb
 Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-4=-34(F), 5-8
 Concentrated Loads (lb)

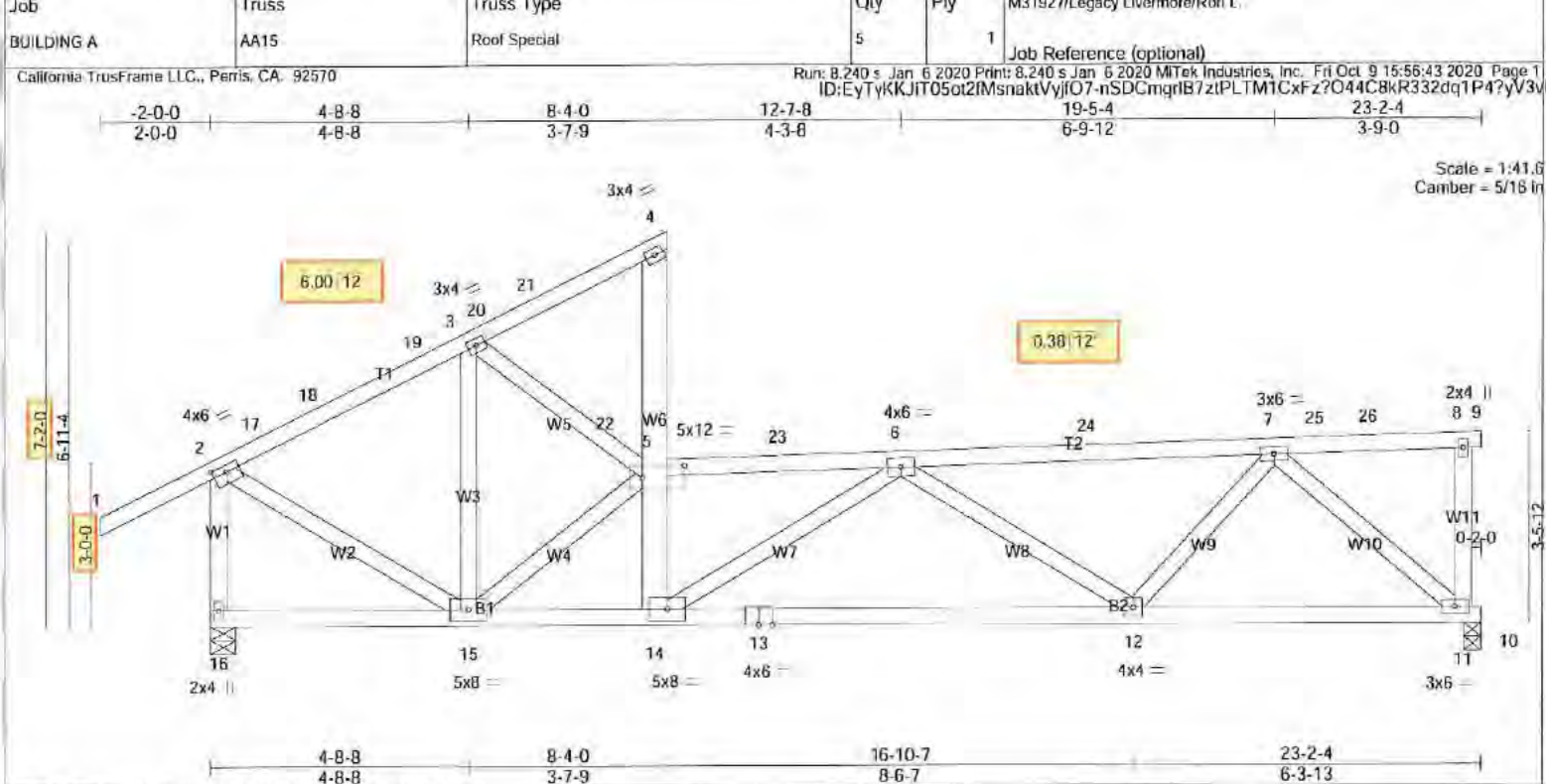
Job	Truss	Truss Type	Qty	Ply	M31927/Legacy Livermore/Ron L.
BUILDING A	AA14	Roof Special	1	1	Job Reference (optional)

California TrusFrame LLC., Perris, CA. 92570

Run: 8.240 s Jan 6 2020 Print: 8.240 s Jan 6 2020 MiTek Industries, Inc. Fri Oct 9 15:56:42 2020 Page 2
 ID: EyTyKKJiT05ot2fMsnaktVjifO7-JGfpYKq7Qpr0oBu9UVQ0QnrX_onJiZ2uPAIrXZyV3vJ

LOAD CASE(S)
 Standard Except:
 Concentrated Loads (lb)
 Vert: 22=1050(F)
 Horz: 4=300(F)





LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.97	in (loc)	l/defl	MT20		220/195	
TCDL	17.0	Lumber DOL	1.25	BC	0.65	Vert(LL)	0.16 12-14				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Vert(CT)	-0.44 12-14				
BCDL	9.0	Code IBC2015/TPI2014		Matrix-MSH		Horz(CT)	0.11 11				
								Weight: 137 lb		FT = 20%	

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G*Except*
W6: 2x6 DF No.2 G

BRACING-
TOP CHORD
Structural wood sheathing directly applied, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 5-3-8 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

11	=	1067/0-3-8 (min. 0-1-8)
16	=	1212/0-5-8 (min. 0-1-8)
Max Horz		
16	=	-3125(LC 38)
Max Uplift		
11	=	-190(LC 9)
16	=	-104(LC 40)
Max Grav		
11	=	1163(LC 38)
16	=	1212(LC 1)

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

TOP CHORD
2-17=-924/269, 17-18=-862/291, 18-19=-843/299,
3-19=-788/332, 3-20=-344/310, 20-21=-338/311, 4-21=-313/357,
5-14=-716/720, 5-22=-339/1144, 4-22=-339/94,
5-23=-4471/1405, 6-23=-4462/1415, 6-24=-1995/231,
7-24=-1992/233, 8-11=-347/33, 2-16=-1173/200

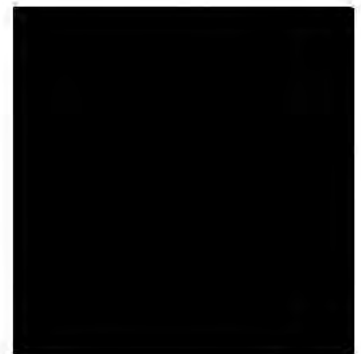
BOT CHORD
15-16=-511/3119, 14-15=-1411/2550, 13-14=-557/3162,
12-13=-557/3162, 11-12=-241/1209

WEBS
3-15=-621/582, 3-5=-887/483, 7-11=-1607/281, 2-15=-313/880,
6-14=-1107/1533, 6-12=-1412/511, 7-12=-188/1218,
5-15=-1594/1250

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

LOAD CASE(S)
Standard Except:
38) F1&F2 Anchor Check: Lumber Incr
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-8=-34(F)
Concentrated Loads (lb)
Horz: 14=-1875(F), 5=5000(F)
39) F3 Left&F4 Anchor Check: Lumber Incr
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-8=-34(F)
Concentrated Loads (lb)
Vert: 22=1050(F)
Horz: 4=-300(F)
40) F3 Right&F4 Anchor Check: Lumber Incr
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-8=-34(F)
Concentrated Loads (lb)

LOAD CASE(S)
Concentrated Loads (lb)
Vert: 22=1050(F)
Horz: 4=300(F)



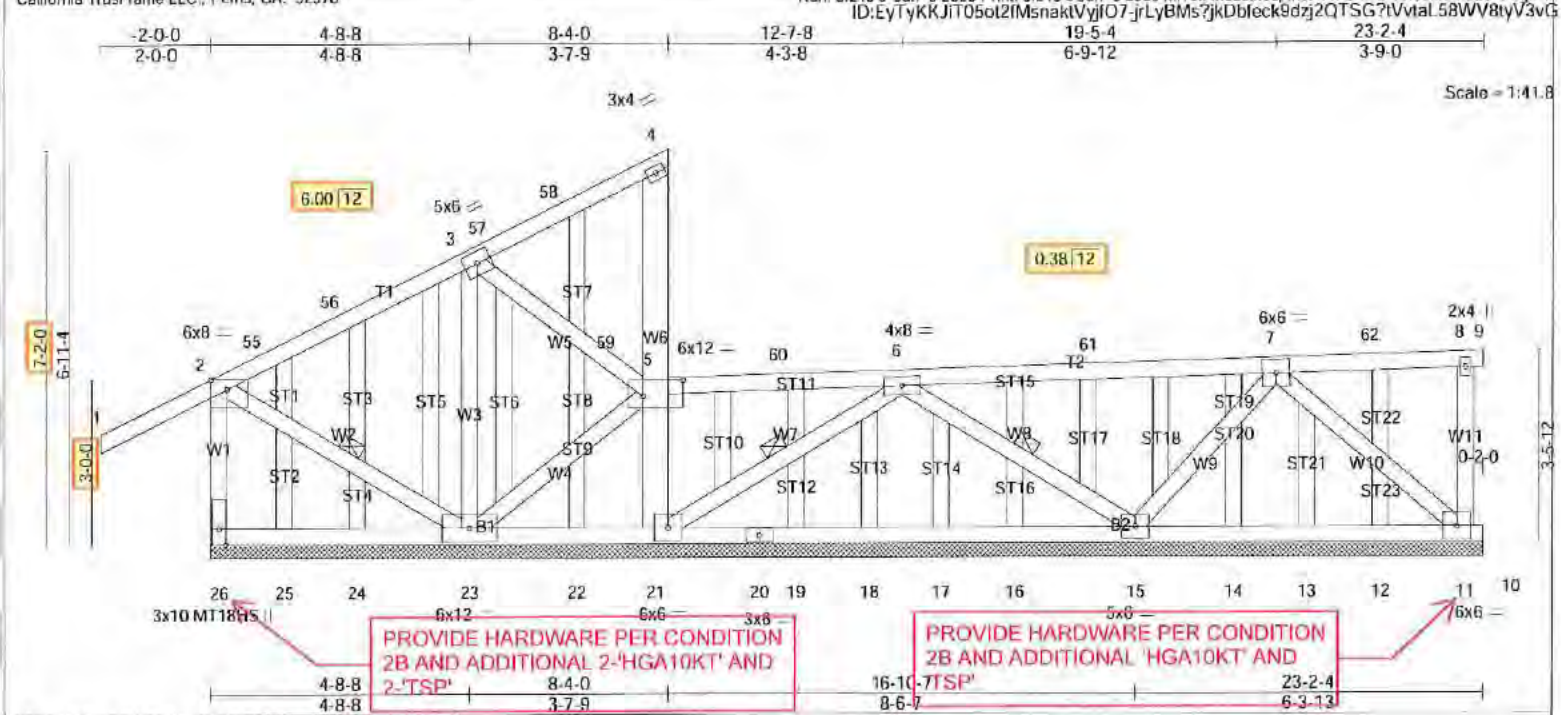


Plate Offsets (X,Y)-- [2-0-3-8,Edge], [5-0-8-12,0-3-8]		LOADING (psf)		SPACING--		CSI.		DEFL.		PLATES		GRIP	
TCLL 20.0		Plate Grip DOL 1.25		TC 0.86		in (loc) l/defl L/d		MT20 220/195		Weight: 195 lb FT = 20%			
TCDL 17.0		Lumber DOL 1.25		BC 0.44		Vert(LL) 0.00 1 n/r 120		MT18HS 220/195					
BCLL 0.0 *		Rep Stress Incr YES		WB 1.00		Vert(CT) 0.05 1-2 n/r 120							
BCDL 9.0		Code IBC2015/TPI2014		Matrix-SH		Horz(CT) 0.04 11 n/a n/a							

LUMBER--
 TOP CHORD 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G *Except*
 W6: 2x6 DF No.2 G, W1,W2: 2x4 DF No.2 G
OTHERS
 2x4 DF Stud/Std G
BRACING--
 TOP CHORD
 Structural wood sheathing directly applied or 3-7-8 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 4-1-7 oc bracing.
 WEBS
 1 Row at midpt 2-23, 6-21, 6-15

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 23-2-4.
 (lb) - Max Horz
 26=-3125(LC 31)
 Max Uplift
 All uplift 100 lb or less at joint(s) 10, 25, 22, 19, 18
 except 21=-967(LC 32), 9=-302(LC 40), 11=-1463(LC 26),
 26=-2698(LC 25), 23=-1339(LC 25), 15=-482(LC 25)
 Max Grav
 All reactions 250 lb or less at joint(s) 10, 25, 24, 22, 19,
 18, 17, 16, 14, 13, 12 except 21=1243(LC 24), 9=323(LC 46),
 11=1627(LC 23), 26=2964(LC 24), 23=1594(LC 24), 15=988(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 2-55=-2836/2774, 55-56=-2362/1723, 3-56=-1338/1564,
 3-57=-1869/1818, 57-58=-926/1607, 4-58=-809/705,
 5-21=-1571/1120, 5-59=-2077/2003, 4-59=-1523/1449,
 5-60=-1858/484, 6-60=-1849/1782, 6-61=-1765/1860,
 7-61=-1452/1558, 7-62=-1799/1795, 8-62=-417/965,
 8-11=-513/259, 2-26=-2917/2663
 BOT CHORD
 25-26=-617/3107, 24-25=-1196/3107, 23-24=-2180/3107,
 22-23=-2045/2010, 21-22=-1098/1062, 20-21=-2318/2516,
 19-20=-1204/1449, 18-19=-1080/1229, 17-18=-372/1040,
 16-17=-703/1040, 15-16=-1768/1965, 14-15=-1169/1271,
 13-14=-301/403, 12-13=-910/1012, 11-12=-1581/1758
 WEBS
 3-23=-1797/1572, 3-5=-1675/1674, 7-11=-2537/2400,

NOTES--
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -2-0-0 to 1-0-0, Exterior(2) 1-0-0 to 23-2-4 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
 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.
 4) All plates are MT20 plates unless otherwise indicated.
 5) Gable requires continuous bottom chord bearing.
 6) Gable studs spaced at 1-4-0 oc.
 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 9) A plate rating reduction of 20% has been applied for the green lumber members.
 10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 11) Load case(s) 31, 32, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 12) This truss has been designed for a moving concentrated load of 300 0lb live and 6.0lb dead located at all mid panels and nonconcurrent with any other live loads.
 13) This truss has been designed for a top chord DOL=(1.33) Plate grip DOL=(1.33) Continuous bottom chord from 0-0-0 to 23-2-4 for 483.0 plf.
 14) Hanger(s) or other connection device supporting concentrated load(s) 300 lb left and 300 lb right at 8-1-4 on bottom chord. The design/s responsibility of others.
 15) This truss is designed for a creep factor of 1.0. The design/s responsibility of others.
 16) In the LOAD CASE(S) section, loads are designated as front (F) or back (B).

LOAD CASE(S)

Standard Except:

- 31) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-8=-34(F), 8-9=-34(F), 10-26=-18(F)
Concentrated Loads (lb)
Horz: 21=-1875(F), 5=5000(F)
- 32) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-8=-34(F), 8-9=-34(F), 10-26=-18(F)
Concentrated Loads (lb)
Vert: 59=1050(F)
Horz: 4=-300(F)
- 33) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-8=-34(F), 8-9=-34(F), 10-26=-18(F)
Concentrated Loads (lb)
Vert: 59=1050(F)
Horz: 4=-300(F)



Scale = 1:59.3
Camber = 5/8 in

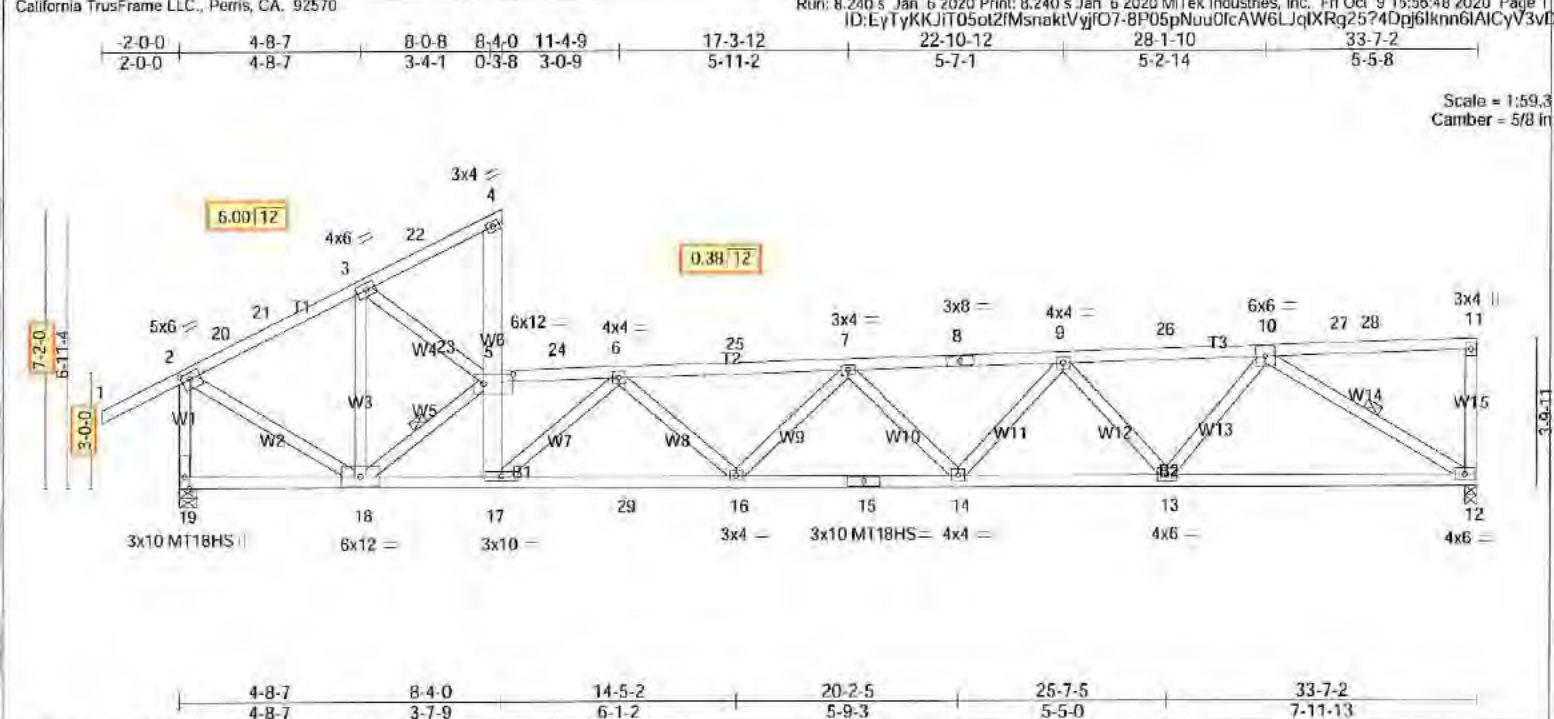


Plate Offsets (X,Y) -- [2-0-2-12,0-2-0], [5:0-9-0,0-3-0]									
LOADING (psf)		SPACING-- 2-0-0		CSI.		DEFL. in (loc) l/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.76	Vert(LL)	0.27 16-17	>999	240
TCDL	17.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.88 14-16	>456	180
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.25 12	n/a	n/a
BCDL	9.0	Code IBC2015/TPI2014		Matrix-MSH					
								Weight: 187 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G *Except*
T1: 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G *Except*
W6: 2x6 DF No.2 G, W2: 2x4 DF No.2 G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 2-3-11 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 4-1-3 oc bracing.
WEBS
1 Row at midpt 5-18, 10-12
MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)	
12	= 1641/0-3-8 (min. 0-1-12)
19	= 1702/0-5-8 (min. 0-3-0)
Max Horz	
19	= -3125(LC 31)
Max Uplift	
12	= -124(LC 9)
19	= -1298(LC 25)
Max Grav	
12	= 1641(LC 1)
19	= 2814(LC 24)

FORCES. (lb) - Max, Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-20=-2686/1404, 20-21=-2204/985, 3-21=-2137/977,
3-22=-763/651, 4-22=-385/348, 5-17=-437/850, 5-23=-763/1146,
4-23=-555/503, 5-24=-5881/1010, 6-24=-5878/1018,
6-25=-4918/727, 7-25=-4915/647, 7-8=-3981/549,
8-9=-3936/552, 9-26=-2884/331, 10-26=-2844/332,
10-27=-966/912, 27-28=-496/448, 11-28=-435/395,
11-12=-466/0, 2-19=-2772/1315
BOT CHORD
18-19=-2349/3120, 17-18=-1004/3933, 17-29=-834/5275,
16-29=-834/5275, 15-16=-747/4479, 14-15=-747/4479,
13-14=-571/3537, 12-13=-319/2138
WEBS
5-18=-3893/1263, 3-5=-1408/364, 2-18=-1480/2752,
3-18=-474/1103, 6-17=-1157/770, 6-16=-494/726,
7-16=-531/626, 7-14=-866/246, 9-14=-166/933, 9-13=-1101/258,
9-13=-1101/258, 10-13=-141/1216, 10-12=-2478/351

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCCL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 2-0-0 to 1-4-5, Interior(1) 1-4-5 to 33-5-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are MT20 plates unless otherwise indicated.
4) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) A plate rating reduction of 20% has been applied for the green lumber members.
7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
9) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
10) This truss has been designed for a [REDACTED] member bottom DOL=(1.33) Plate grip DOL=(1.33) Co [REDACTED] chord from 0-0-0 to 11-6-0 for 513.0 pl [REDACTED]
11) Hanger(s) or other connection devi [REDACTED] port ion of concentrated load(s) 1875 lb left at 8- [REDACTED] the such connection device(s) is the respo [REDACTED]
12) This truss is designed for a creep f [REDACTED] the Vert(CT) deflection per ANSI/TPI 1.
13) In the LOAD CASE(S) section, load [REDACTED] as front (F) or back (B).

LOAD CASE(S)
Standard Except:
1) Dead + Roof Live (balanced); Lumb [REDACTED]

LOAD CASE(S)

Standard Except:

Uniform Loads (plf)

Vert: 1-2=-74, 2-4=-74, 5-27=-74, 11-27=-109, 12-19=-18

2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-64, 2-4=-64, 5-27=-64, 11-27=-99, 12-19=-18

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-38

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=57, 2-20=28, 4-20=14, 5-27=18, 11-27=-17, 12-19=-11

Horz: 1-2=-77, 2-20=48, 4-20=-34, 4-5=13, 5-11=38, 11-12=35, 2-19=19

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=8, 2-3=14, 3-4=28, 5-27=18, 11-27=-10, 12-19=-11

Horz: 1-2=-28, 2-3=-34, 3-4=-48, 4-5=-41, 5-27=-38, 11-27=-45, 11-12=-19, 2-19=-35

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=-23, 2-4=-51, 5-27=-47, 11-27=-82, 12-19=-18

Horz: 1-2=-11, 2-4=17, 4-5=-16, 5-11=13, 11-12=32, 2-19=23

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=-45, 2-4=-51, 5-27=-47, 11-27=-82, 12-19=-18

Horz: 1-2=-11, 2-4=17, 4-5=38, 5-11=13, 11-12=23, 2-19=32

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=7, 2-4=-7, 5-27=5, 11-27=-30, 12-19=-11

Horz: 1-2=-28, 2-4=-13, 4-5=12, 5-11=-25, 11-12=23, 2-19=18

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=0, 2-4=6, 5-27=23, 11-27=-12, 12-19=-11

Horz: 1-2=-21, 2-4=-27, 4-5=-29, 5-11=-44, 11-12=-18, 2-19=-23

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-27, 2-4=-34, 5-27=-22, 11-27=-57, 12-19=-18

Horz: 1-2=-7, 2-4=0, 4-5=37, 5-11=-12, 11-12=11, 2-19=31

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-13, 2-4=-20, 5-27=-3, 11-27=-38, 12-19=-18

Horz: 1-2=-21, 2-4=-14, 4-5=-4, 5-11=-31, 11-12=-31, 2-19=-11

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=17, 2-4=23, 5-27=5, 11-27=-30, 12-19=-11

Horz: 1-2=-38, 2-4=-44, 4-5=-50, 5-11=-25, 11-12=21, 2-19=15

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, 2-4=5, 5-27=23, 11-27=-12, 12-19=-11

Horz: 1-2=-19, 2-4=-25, 4-5=-31, 5-11=-44, 11-12=-15, 2-19=21

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=4, 2-4=10, 5-27=-1, 11-27=-36, 12-19=-11

Horz: 1-2=-24, 2-4=-31, 4-5=-37, 5-11=-19, 11-12=16, 2-19=8

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-7, 2-4=-1, 5-27=10, 11-27=-25, 12-19=-11

Horz: 1-2=-13, 2-4=-19, 4-5=-26, 5-11=-31, 11-12=-8, 2-19=-16

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-4, 2-4=-3, 5-27=-22, 11-27=-57, 12-19=-18

Horz: 1-2=-38, 2-4=-31, 4-5=-25, 5-11=-12, 11-12=9, 2-19=28

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-15, 2-4=-22, 5-27=-3, 11-27=-38, 12-19=-18

Horz: 1-2=-19, 2-4=-12, 4-5=-6, 5-11=-31, 11-12=-28, 2-19=-9

18) Dead: Lumber Increase=0.90, Plate Increase=0.90 P/L metal=0.90

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18

Continued on page 3

Standard Except:

19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-59, 2-4=-64, 5-27=-55, 11-27=-90, 12-19=-18

Horz: 1-2=-5, 2-4=0, 4-5=28, 5-11=-9, 11-12=8, 2-19=23

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-49, 2-4=-53, 5-27=-41, 11-27=-76, 12-19=-18

Horz: 1-2=-15, 2-4=-11, 4-5=-3, 5-11=-23, 11-12=-23, 2-19=-8

21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-36, 2-4=-41, 5-27=-55, 11-27=-90, 12-19=-18

Horz: 1-2=-28, 2-4=-23, 4-5=-19, 5-11=-9, 11-12=7, 2-19=21

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-50, 2-4=-55, 5-27=-41, 11-27=-76, 12-19=-18

Horz: 1-2=-14, 2-4=-9, 4-5=-4, 5-11=-23, 11-12=-21, 2-19=-7

23) Dead-Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-54, 5-6=-19, 6-27=-29, 11-27=-64, 12-19=-18

Horz: 2-4=-351, 5-6=-2060, 6-25=-5620, 7-25=-5620, 7-8=-5620, 8-26=-5620, 26-27=-5620, 27-28=-5620, 11-28=-5620

Drag: 4-5=176, 19-29=-513

24) Dead-Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-122, 5-6=-49, 6-27=-39, 11-27=-74, 12-19=-18

Horz: 2-4=-351, 5-6=-2060, 6-25=-5620, 7-25=-5620, 7-8=-5620, 8-26=-5620, 26-27=-5620, 27-28=-5620, 11-28=-5620

Drag: 4-5=-176, 19-29=-513

25) 0.6 Dead-Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-2=-20, 2-4=67, 5-6=-5, 6-27=-15, 11-27=-36, 12-19=-11

Horz: 2-4=-351, 5-6=-2060, 6-25=-5620, 7-25=-5620, 7-8=-5620, 8-26=-5620, 26-27=-5620, 27-28=-5620, 11-28=-5620

Drag: 4-5=176, 19-29=-513

26) 0.6 Dead-Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-2=-20, 2-4=-108, 5-6=-35, 6-27=-26, 11-27=-47, 12-19=-11

Horz: 2-4=-351, 5-6=-2060, 6-25=-5620, 7-25=-5620, 7-8=-5620, 8-26=-5620, 26-27=-5620, 27-28=-5620, 11-28=-5620

Drag: 4-5=-176, 19-29=-513

27) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-74, 2-4=-74, 5-27=-34, 11-27=-69, 12-19=-18

28) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-27=-74, 11-27=-109, 12-19=-18

29) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-64, 2-4=-64, 5-27=-34, 11-27=-69, 12-19=-18

30) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-27=-64, 11-27=-99, 12-19=-18

31) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-34(F), 2-4=-34(F), 5-27=-34(F), 11-27=-69(F=-34), 12-19=-18(F)

Concentrated Loads (lb)

Horz: 17=-1875(F), 5=5000(F)

32) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-34(F), 2-4=-34(F), 5-27=-34(F), 11-27=-69(F=-34), 12-19=-18(F)

Concentrated Loads (lb)

Vert: 23=1050(F)

Horz: 4=-300(F)

33) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-34(F), 2-4=-34(F), 5-27=-34(F), 11-27=-69(F=-34), 12-19=-18(F)

Concentrated Loads (lb)

Vert: 23=1050(F)

Horz: 4=-300(F)

34) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18

Concentrated Loads (lb)

Vert: 2=-306

35) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Job	Truss	Truss Type	Qty	Ply	M31927/Legacy Livermore/Ron L.
BUILDING A	AA17	Roof Special	25	1	Job Reference (optional)

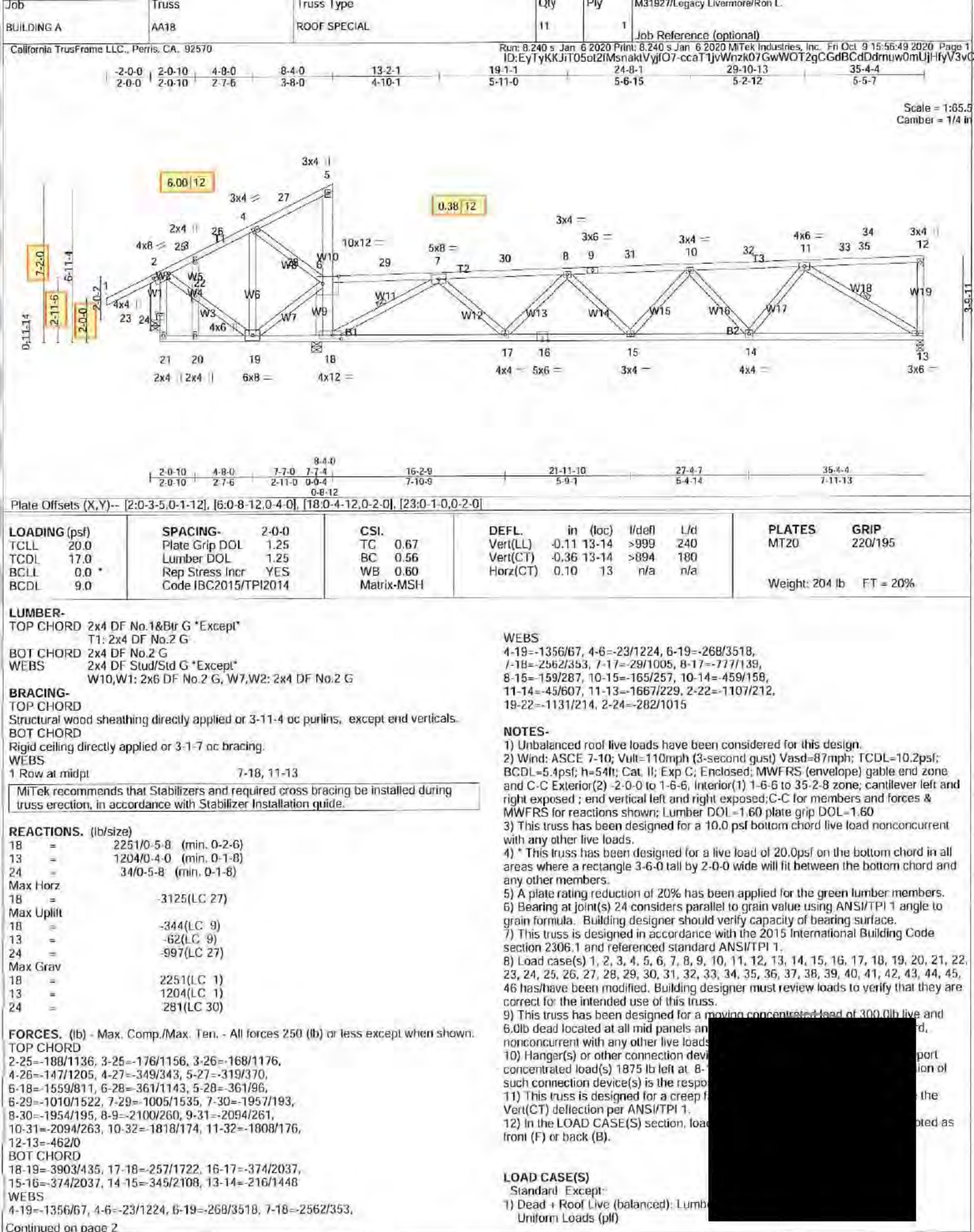
California TrusFrame LLC., Perris, CA 92570

Run: 8.240 s Jan 6 2020 Print: 8.240 s Jan 6 2020 MiTek Industries, Inc. Fri Oct 9 15:56:48 2020 Page 3
ID: EyTyKKJtD5ot2IMsnaktVytO7-8P05pNuu0fcAW6LJqIXRg25?4Dpj6Ikn6AICyV3vD

LOAD CASE(S)

Standard

- Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 21=-306
- 36) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 22=-306
- 37) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 4=-306
- 38) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 24=-306
- 39) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 25=-306
- 40) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 8=-306
- 41) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 26=-306
- 42) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 28=-306
- 43) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 11=-306
- 44) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 3=-306
- 45) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 6=-306
- 46) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 7=-306
- 47) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 9=-306
- 48) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 10=-306



LOAD CASE(S)

Standard Except:

- Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-34=-74, 12-34=-109, 13-21=-18
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-34=-64, 12-34=-99, 13-21=-18
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-38
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=57, 2-25=28, 5-25=14, 6-34=18, 12-34=-17, 13-21=-11
Horz: 1-2=-77, 2-25=48, 5-25=-34, 5-6=12, 6-12=-38, 12-13=35, 21-23=19
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=8, 2-4=14, 4-5=28, 6-33=18, 33-34=25, 12-34=-10, 13-21=-11
Horz: 1-2=-28, 2-4=-34, 4-5=48, 5-6=-41, 6-33=-38, 12-33=-45, 12-13=-19, 21-23=-35
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=-23, 2-5=-51, 6-34=-47, 12-34=-82, 13-21=-18
Horz: 1-2=-11, 2-5=17, 5-6=-16, 6-12=13, 12-13=-31, 21-23=-22
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=-45, 2-5=-51, 6-34=-47, 12-34=-82, 13-21=-18
Horz: 1-2=11, 2-5=17, 5-6=38, 6-12=13, 12-13=22, 21-23=31
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-5=-7, 6-34=5, 12-34=-30, 13-21=-11
Horz: 1-2=-28, 2-5=-13, 5-6=12, 6-12=-25, 12-13=23, 21-23=18
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-5=6, 6-34=23, 12-34=-12, 13-21=-11
Horz: 1-2=-21, 2-5=-27, 5-6=-29, 6-12=-44, 12-13=18, 21-23=-23
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-5=-34, 6-34=-22, 12-34=-57, 13-21=-18
Horz: 1-2=-7, 2-5=0, 5-6=37, 6-12=-12, 12-13=11, 21-23=31
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-5=-20, 6-34=-3, 12-34=-38, 13-21=-18
Horz: 1-2=-21, 2-5=-14, 5-6=-4, 6-12=-31, 12-13=-31, 21-23=-11
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-5=23, 6-34=5, 12-34=-30, 13-21=-11
Horz: 1-2=-38, 2-5=-44, 5-6=-50, 6-12=-25, 12-13=21, 21-23=15
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, 2-5=5, 6-34=23, 12-34=-12, 13-21=-11
Horz: 1-2=-19, 2-5=-25, 5-6=-31, 6-12=-44, 12-13=-15, 21-23=-21
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=10, 6-34=-1, 12-34=-36, 13-21=-11
Horz: 1-2=-24, 2-5=-31, 5-6=-37, 6-12=-19, 12-13=16, 21-23=8
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-5=-1, 6-34=10, 12-34=-25, 13-21=-11
Horz: 1-2=-13, 2-5=-19, 5-6=-26, 6-12=-31, 12-13=-8, 21-23=-16
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=-3, 6-34=-22, 12-34=-57, 13-21=-18
Horz: 1-2=-38, 2-5=-31, 5-6=-25, 6-12=-12, 12-13=9, 21-23=28
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-5=-22, 6-34=-3, 12-34=-38, 13-21=-18
Horz: 1-2=-19, 2-5=-12, 5-6=-6, 6-12=-31, 12-13=-28, 21-23=-9
18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18

Continued on page 3

Standard Except:

- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-59, 2-5=-64, 6-34=-55, 12-34=-90, 13-21=-18
Horz: 1-2=-5, 2-5=0, 5-6=28, 6-12=-9, 12-13=8, 21-23=23
20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-5=-53, 6-34=-41, 12-34=-76, 13-21=-18
Horz: 1-2=-15, 2-5=-11, 5-6=-3, 6-12=-23, 12-13=-23, 21-23=-8
21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-5=-41, 6-34=-55, 12-34=-90, 13-21=-18
Horz: 1-2=-28, 2-5=-23, 5-6=-19, 6-12=-9, 12-13=-7, 21-23=21
22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-50, 2-5=-55, 6-34=-41, 12-34=-76, 13-21=-18
Horz: 1-2=-14, 2-5=-9, 5-6=-4, 6-12=-23, 12-13=-21, 21-23=-7
23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-34=-34, 12-34=-69, 13-21=-18
24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-74, 12-34=-109, 13-21=-18
25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-34=-34, 12-34=-69, 13-21=-18
26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-64, 12-34=-99, 13-21=-18
27) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Concentrated Loads (lb)
Horz: 18=-1875(F), 6=5000(F)
28) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-34=-34(F), 12-34=-69(F=-34), 13-21=-18(F)
Concentrated Loads (lb)
Vert: 28=1050(F)
Horz: 5=-300(F)
29) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-34=-34(F), 12-34=-69(F=-34), 13-21=-18(F)
Concentrated Loads (lb)
Vert: 28=1050(F)
Horz: 5=-300(F)
30) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 2=-306
31) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 25=-306
32) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 26=-306
33) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 27=-306
34) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 29=-306
35) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 29=-306
36) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 29=-306

LOAD CASE(S)

- Standard
- Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
- Concentrated Loads (lb)
Vert: 30=-306
- 37) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
- Concentrated Loads (lb)
Vert: 31=-306
- 38) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
- Concentrated Loads (lb)
Vert: 32=-306
- 39) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
- Concentrated Loads (lb)
Vert: 35=-306
- 40) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
- Concentrated Loads (lb)
Vert: 12=-306
- 41) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
- Concentrated Loads (lb)
Vert: 3=-306
- 42) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
- Concentrated Loads (lb)
Vert: 4=-306
- 43) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
- Concentrated Loads (lb)
Vert: 7=-306
- 44) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
- Concentrated Loads (lb)
Vert: 8=-306
- 45) 16th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
- Concentrated Loads (lb)
Vert: 10=-306
- 46) 17th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
- Concentrated Loads (lb)
Vert: 11=-306



-2-0-0 2-0-10 4-8-0 8-4-0 13-2-1 19-1-1 24-8-1 29-10-13 35-4-4
 2-0-0 2-0-10 2-7-6 3-8-0 4-10-1 5-11-0 5-6-15 5-2-12 5-5-7

Scale = 1:63.3

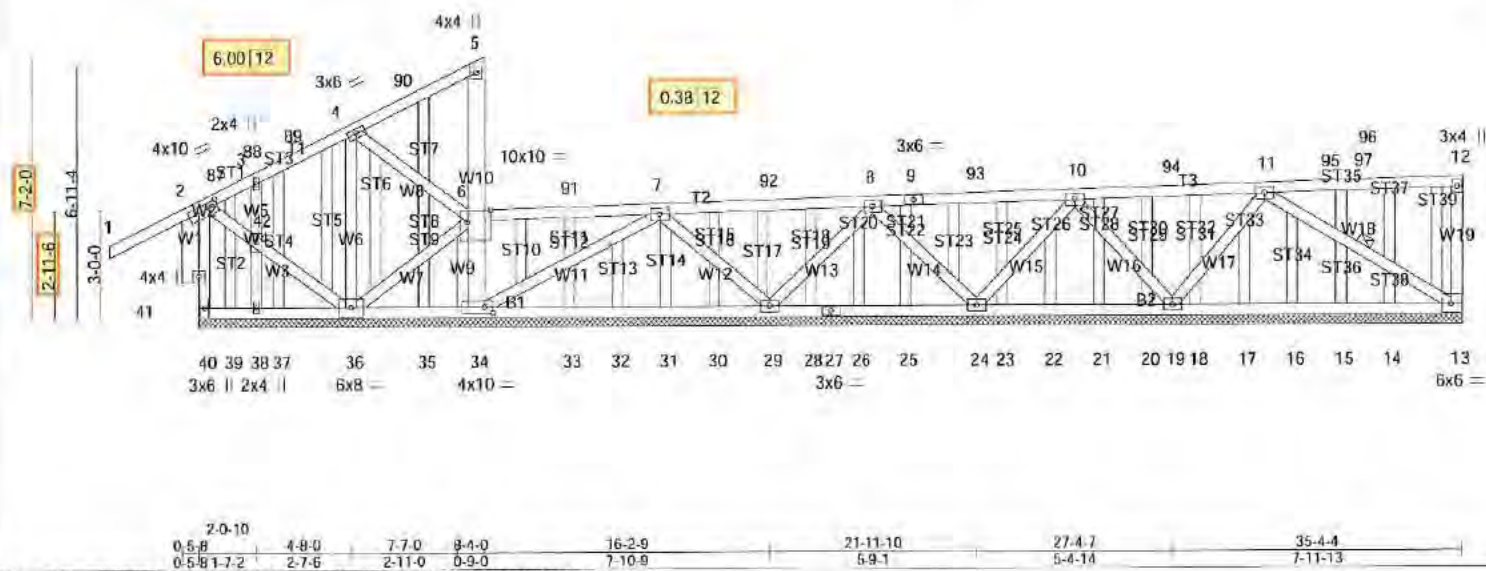


Plate Offsets (X,Y) -- [2:0-2-12,0-1-12], [6:0-7-8,0-4-0], [34:0-2-12,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.63	in (loc) l/defl L/d	MT20	220/195
TCDL 17.0	Plate Grip DOL 1.25	BC 0.28	Vert(LL) 0.00 1 n/r 120		
BCLL 0.0	Lumber DOL 1.25	WB 0.88	Vert(CT) -0.08 1-2 n/r 120		
BCDL 9.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) -0.02 34 n/a n/a		
	Code IBC2015/TPI2014			Weight: 299 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.1&Btr G *Except*

T1: 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Stid G *Except*

W10,W1: 2x6 DF No.2 G, W7,W2: 2x4 DF No.2 G

OTHERS 2x4 DF Stud/Stid G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 5-1-4 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 4-7-11 oc bracing.

WEBS

1 Row at midpt

11-13

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 34-10-12.

(lb) - Max Horz.

40=1875(LC 31)

Max Uplift

All uplift 100 lb or less at joint(s) 39, 35 except

34=304(LC 25), 13=652(LC 26), 40=1359(LC 25),

36=657(LC 25), 29=253(LC 25), 24=112(LC 13), 19=143(LC

9), 38=238(LC 25)

Max Grav

All reactions 250 lb or less at joint(s) 39, 37, 35, 33, 32,

31, 30, 28, 26, 25, 23, 22, 21, 20, 18, 17, 16, 15, 14

except 34=644(LC 24), 13=1002(LC 23), 40=1572(LC 24),

36=869(LC 24), 29=707(LC 24), 24=408(LC 1), 19=583(LC 1),

38=341(LC 45)

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

TOP CHORD

2-87=1467/1393, 87-88=1197/1193, 3-88=1091/1095,

3-89=947/851, 4-89=457/239, 4-90=1087/1036,

5-90=529/443, 6-34=438/357, 5-6=1222/1023, 6-91=334/392,

7-91=1113/1122, 7-92=96/685, 8-92=936/1059,

8-9=807/889, 10-93=660/752, 10-94=992/1086,

11-94=369/472, 11-95=1473/1440, 95-96=894/865,

96-97=741/714, 12-97=611/614, 12-13=459/0,

40-41=1567/1344, 2-41=1572/1344

BOT CHORD

39-40=1903/331, 38-39=1903/528, 37-38=1903/697,

36-37=1903/1245, 35-36=1543/1182, 34-35=1543/632,

BOT CHORD

39-40=1903/331, 38-39=1903/528, 37-38=1903/697,

36-37=1903/1245, 35-36=1543/1182, 34-35=1543/632,

33-34=1353/1524, 32-33=683/784, 31-32=280/454,

30-31=313/449, 29-30=737/874, 28-29=731/784,

27-28=423/476, 26-27=241/292, 25-26=270/322,

24-25=810/862, 23-24=925/946, 22-23=733/754,

21-22=366/388, 20-21=350/371, 19-20=524/546,

18-19=849/989, 17-18=694/834, 16-17=328/468,

15-16=300/439, 14-15=666/769, 13-14=1129/1320

WEBS

4-36=1139/936, 4-6=1026/1038, 6-36=1310/1331,

7-34=1420/1265, 7-29=1037/689, 8-29=1512/1265,

8-24=1400/1198, 10-24=1467/1299, 10-19=1411/1227,

11-19=1294/900, 11-13=1535/1400, 2-42=1565/1624,

36-42=1711/1776, 3-42=340/56, 38-42=343/236

NOTES-

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

2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-6-9, Interior(1) 1-6-9 to 35-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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.

4) All plates are 4x6 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord.

6) Gable studs spaced at 1-4-0 oc.

7) This truss has been designed for a dead load of 10 psf in all areas where a rectangle 3-6-0 tall by 2-0-0 wide is applied with any other live loads.

8) * This truss has been designed for a dead load of 10 psf in all areas where a rectangle 3-6-0 tall by 2-0-0 wide is applied with any other live loads.

9) A plate rating reduction of 20% has been applied to all plates in all areas where a rectangle 3-6-0 tall by 2-0-0 wide is applied with any other live loads.

10) This truss is designed in accordance with the provisions of section 2306.1 and referenced standards.

11) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50 has/have been modified to verify that they are correct for the interior.

NOTES-

- 12) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 13) This truss has been designed for a total seismic drag load of 9700 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 35-3-14 for 274.6 plf.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 8-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
- 16) 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:

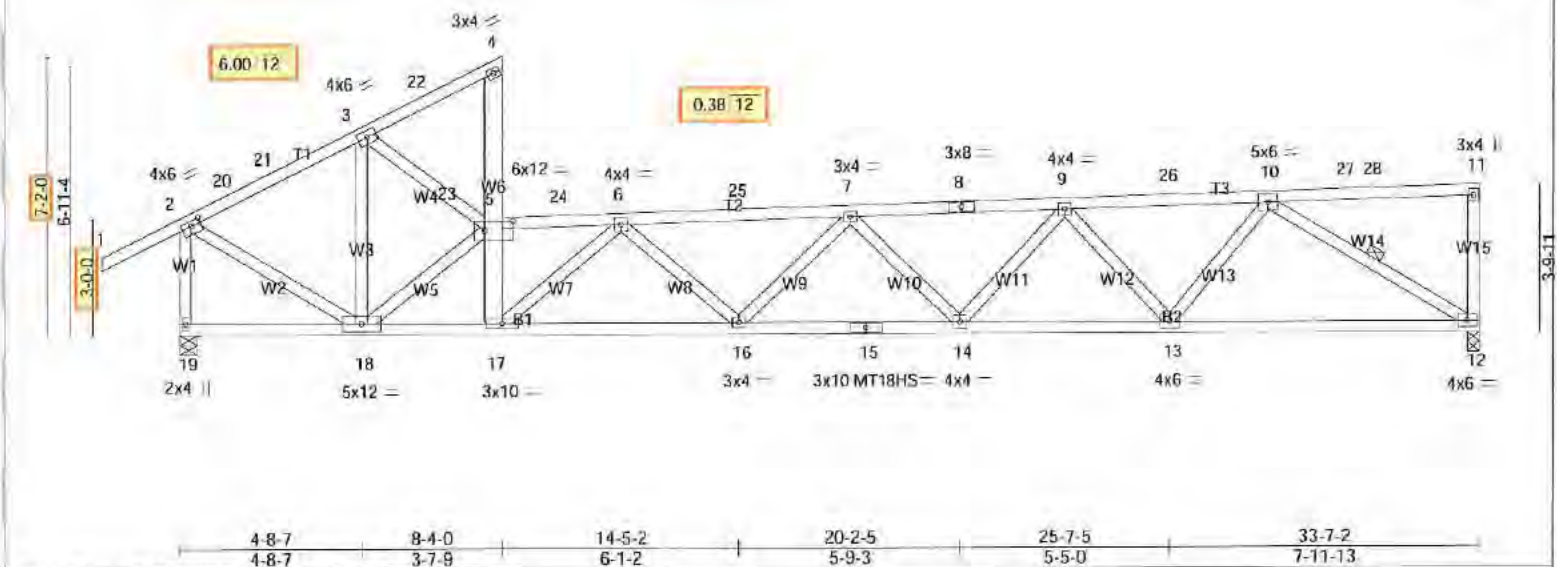
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-96=-74, 12-96=-109, 13-40=-18
Horz: 1-2=-13, 2-5=-19, 5-6=-26, 6-12=-31, 12-13=-8, 2-40=-16
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-96=-64, 12-96=-99, 13-40=-18
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-96=-34, 12-96=-69, 13-40=-38
- 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=-57, 2-88=-28, 5-88=-14, 6-96=-18, 12-96=-17, 13-40=-11, 2-41=-19
Horz: 1-2=-77, 2-88=-48, 5-88=-34, 5-6=-12, 6-12=-38, 12-13=-35, 2-40=-19
- 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=-8, 2-4=-14, 4-5=-26, 6-95=-18, 95-96=-25, 12-96=-10, 13-40=-11, 2-41=-35
Horz: 1-2=-28, 2-4=-34, 4-5=-48, 5-6=-41, 6-95=-38, 12-95=-45, 12-13=-19, 2-40=-35
- 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=-23, 2-5=-51, 6-96=-47, 12-96=-82, 13-40=-18, 2-41=-22
Horz: 1-2=-11, 2-5=-17, 5-6=-16, 6-12=-13, 12-13=-31, 2-40=-22
- 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=-45, 2-5=-51, 6-96=-47, 12-96=-82, 13-40=-18, 2-41=-31
Horz: 1-2=-11, 2-5=-17, 5-6=-38, 6-12=-13, 12-13=-22, 2-40=-31
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-5=-7, 6-96=-5, 12-96=-30, 13-40=-11, 2-41=-18
Horz: 1-2=-28, 2-5=-13, 5-6=-12, 6-12=-25, 12-13=-23, 2-40=-18
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-5=6, 6-96=23, 12-96=-12, 13-40=-11, 2-41=-23
Horz: 1-2=-21, 2-5=-27, 5-6=-29, 6-12=-44, 12-13=-18, 2-40=-23
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-5=-34, 6-96=-22, 12-96=-57, 13-40=-18, 2-41=-31
Horz: 1-2=-7, 2-5=-0, 5-6=-37, 6-12=-12, 12-13=-11, 2-40=-31
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-5=-20, 6-96=-3, 12-96=-38, 13-40=-18, 2-41=-11
Horz: 1-2=-21, 2-5=-14, 5-6=-4, 6-12=-31, 12-13=-31, 2-40=-11
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-17, 2-5=-23, 6-96=-5, 12-96=-30, 13-40=-11, 2-41=-15
Horz: 1-2=-38, 2-5=-44, 5-6=-50, 6-12=-25, 12-13=-21, 2-40=-15
- 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, 2-5=-5, 6-96=23, 12-96=-12, 13-40=-11, 2-41=-21
Horz: 1-2=-19, 2-5=-25, 5-6=-31, 6-12=-44, 12-13=-15, 2-40=-21
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=10, 6-96=-1, 12-96=-36, 13-40=-11, 2-41=-8
Horz: 1-2=-24, 2-5=-31, 5-6=-37, 6-12=-19, 12-13=-16, 2-40=-8
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-96=-34, 12-96=-69, 13-40=-38
Horz: 1-2=-19, 2-5=-12, 5-6=-6, 6-12=-31, 12-13=-28, 2-40=-9
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=-3, 6-96=-22, 12-96=-57, 13-40=-18, 2-41=-28
Horz: 1-2=-38, 2-5=-31, 5-6=-25, 6-12=-12, 12-13=-9, 2-40=-28
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-5=-22, 6-96=-3, 12-96=-38, 13-40=-18, 2-41=-9
Horz: 1-2=-19, 2-5=-12, 5-6=-6, 6-12=-31, 12-13=-28, 2-40=-9
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-96=-34, 12-96=-69, 13-40=-38
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-59, 2-5=-64, 6-96=-55, 12-96=-90, 13-40=-18, 2-41=-23
Horz: 1-2=-5, 2-5=-0, 5-6=-28, 6-12=-9, 12-13=-8, 2-40=-23
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-5=-53, 6-96=-41, 12-96=-76, 13-40=-18, 2-41=-8
Horz: 1-2=-15, 2-5=-11, 5-6=-3, 6-12=-23, 12-13=-23, 2-40=-8
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-5=-41, 6-96=-55, 12-96=-90, 13-40=-18, 2-41=-21
Horz: 1-2=-28, 2-5=-23, 5-6=-19, 6-12=-9, 12-13=-7, 2-40=-21
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-50, 2-5=-55, 6-96=-41, 12-96=-76, 13-40=-18, 2-41=-7
Horz: 1-2=-14, 2-5=-9, 5-6=-4, 6-12=-23, 12-13=-21, 2-40=-7
- 23) Dead-Drage LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-103, 6-7=-16, 7-96=-25, 12-96=-60, 13-40=-18
Horz: 2-5=-549, 6-7=-4141, 7-92=-8779, 8-92=-8779, 8-9=-8779, 9-93=-8779, 11-93=-8779, 11-95=-8779, 12-95=-8779
- 24) Dead-Drage LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-171, 6-7=-52, 7-96=-43, 12-96=-78, 13-40=-18
Horz: 2-5=-549, 6-7=-4141, 7-92=-8779, 8-92=-8779, 8-9=-8779, 9-93=-8779, 12-93=-8779
- 25) 0.6 Dead-Drage LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-20, 2-5=-117, 6-7=-2, 7-96=-12, 12-96=-33, 13-40=-11
Horz: 2-5=-549, 6-7=-4141, 7-92=-8779, 8-92=-8779, 8-9=-8779, 9-93=-8779, 11-93=-8779, 11-95=-8779, 12-95=-8779
- 26) 0.6 Dead-Drage LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-20, 2-5=-158, 6-7=-39, 7-96=-29, 12-96=-50, 13-40=-11
Horz: 2-5=-549, 6-7=-4141, 7-92=-8779, 8-92=-8779, 8-9=-8779, 9-93=-8779, 12-93=-8779
- 27) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-96=-34, 12-96=-69, 13-40=-18
- 28) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-96=-74, 12-96=-109, 13-40=-18
- 29) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-96=-34, 12-96=-69, 13-40=-18
- 30) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-96=-64, 12-96=-109, 13-40=-18
- 31) F1&F2 Anchor Check: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-96=-34(F)
Concentrated Loads (lb)
Horz: 34=1875(F)
- 32) F3 Left&F4 Anchor Check: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-96=-34(F)

LOAD CASE(S)

- Standard Except:
- Concentrated Loads (lb)
 - Horz: 5=-300(F)
- 33) F3 Right&F4 Anchor Check; Lumber Increase=2.00, Plate Increase=1.60
- Uniform Loads (plf)
 - Vert: 1-2=-34(F), 2-5=-34(F), 6-96=-34(F), 12-96=-69(F=-34), 13-40=-18(F)
 - Concentrated Loads (lb)
 - Horz: 5=300(F)
- 34) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
 - Vert: 1-2=-34, 2-5=-34, 6-96=-34, 12-96=-69, 13-40=-18
 - Concentrated Loads (lb)
 - Vert: 2=-306
- 35) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
 - Vert: 1-2=-34, 2-5=-34, 6-96=-34, 12-96=-69, 13-40=-18
 - Concentrated Loads (lb)
 - Vert: 87=-306
- 36) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
 - Vert: 1-2=-34, 2-5=-34, 6-96=-34, 12-96=-69, 13-40=-18
 - Concentrated Loads (lb)
 - Vert: 89=-306
- 37) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
 - Vert: 1-2=-34, 2-5=-34, 6-96=-34, 12-96=-69, 13-40=-18
 - Concentrated Loads (lb)
 - Vert: 90=-306
- 38) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
 - Vert: 1-2=-34, 2-5=-34, 6-96=-34, 12-96=-69, 13-40=-18
 - Concentrated Loads (lb)
 - Vert: 5=-306
- 39) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
 - Vert: 1-2=-34, 2-5=-34, 6-96=-34, 12-96=-69, 13-40=-18
 - Concentrated Loads (lb)
 - Vert: 91=-306
- 40) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
 - Vert: 1-2=-34, 2-5=-34, 6-96=-34, 12-96=-69, 13-40=-18
 - Concentrated Loads (lb)
 - Vert: 92=-306
- 41) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
 - Vert: 1-2=-34, 2-5=-34, 6-96=-34, 12-96=-69, 13-40=-18
 - Concentrated Loads (lb)
 - Vert: 93=-306
- 42) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
 - Vert: 1-2=-34, 2-5=-34, 6-96=-34, 12-96=-69, 13-40=-18
 - Concentrated Loads (lb)
 - Vert: 94=-306
- 43) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
 - Vert: 1-2=-34, 2-5=-34, 6-96=-34, 12-96=-69, 13-40=-18
 - Concentrated Loads (lb)
 - Vert: 97=-306
- 44) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
 - Vert: 1-2=-34, 2-5=-34, 6-96=-34, 12-96=-69, 13-40=-18
 - Concentrated Loads (lb)
 - Vert: 12=-306
- 45) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
 - Vert: 1-2=-34, 2-5=-34, 6-96=-34, 12-96=-69, 13-40=-18
 - Concentrated Loads (lb)
 - Vert: 3=-306
- 46) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
 - Vert: 1-2=-34, 2-5=-34, 6-96=-34, 12-96=-69, 13-40=-18
 - Concentrated Loads (lb)
 - Vert: 4=-306
- 47) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
 - Vert: 1-2=-34, 2-5=-34, 6-96=-34, 12-96=-69, 13-40=-18
 - Concentrated Loads (lb)
 - Vert: 7=-306
- 48) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
 - Vert: 1-2=-34, 2-5=-34, 6-96=-34, 12-96=-69, 13-40=-18
 - Concentrated Loads (lb)
 - Vert: 8=-306

- Standard
- 49) 16th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
 - Vert: 1-2=-34, 2-5=-34, 6-96=-34, 12-96=-69, 13-40=-18
 - Concentrated Loads (lb)
 - Vert: 10=-306
- 50) 17th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
 - Vert: 1-2=-34, 2-5=-34, 6-96=-34, 12-96=-69, 13-40=-18
 - Concentrated Loads (lb)
 - Vert: 11=-306

Scale = 1:59.2
Camber = 5/8 in



LOADING (psf)	SPACING	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.76	in (loc)	MT20	220/195
TCDL 17.0	Plate Grip DOL 1.25	BC 0.79	Vert(LL) 0.27 16-17 >999 240	MT18HS	220/195
BCLL 0.0 *	Lumber DOL 1.25	WB 0.97	Vert(CT) -0.87 14-16 >461 180		
BCDL 9.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.25 12 n/a n/a		
	Code IBC2015/TPI2014			Weight: 187 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G *Except*
T1: 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G *Except*
W6: 2x6 DF No.2 G, W2: 2x4 DF No.2 G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 2-3-13 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS
1 Row at midpt 10-12

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
12 = 1527/0-3-8 (min. 0-1-10)
19 = 1696/0-5-8 (min. 0-1-13)
Max Horz
19 = -3125(LC 27)
Max Uplift
12 = -239(LC 9)
19 = -48(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-20=-1415/115, 20-21=-1339/131, 3-21=-1334/152,
3-22=-349/302, 4-22=-318/349, 5-17=-441/846, 5-23=-333/1146,
4-23=-333/96, 5-24=-5862/1029, 6-24=-5858/1038,
6-25=-4887/675, 7-25=-4884/677, 7-8=-3904/590,
8-9=-3897/592, 9-26=-2802/383, 10-26=-2796/385,
11-12=-387/55, 2-19=-1659/240
BOT CHORD
18-19=-515/3120, 17-18=-1023/3914, 16-17=-859/5251,
15-16=-784/4442, 14-15=-784/4442, 13-14=-613/3495,
12-13=-383/2075
WEBS
5-18=-2870/913, 3-5=-1402/371, 2-18=-117/1393,
3-18=-481/1096, 6-17=-1150/776, 6-16=-503/718,
7-16=-523/635, 7-14=-870/216, 9-14=-108/936, 9-13=-1118/240,
10-13=-123/1234, 10-12=-2412/417

LOAD CASE(S)
Standard Except:
27) F1&F2 Anchor Check: Lumber Increase
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-11=-
Concentrated Loads (lb)
Horz: 17=-1875(F), 5=5000(F)
28) F3 Left&F4 Anchor Check: Lumber Increase
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-11=-
Concentrated Loads (lb)
Vert: 23=-1050(F)
Horz: 4=-300(F)
29) F3 Right&F4 Anchor Check: Lumber Increase
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-11=-
Concentrated Loads (lb)

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

Continued on page 2

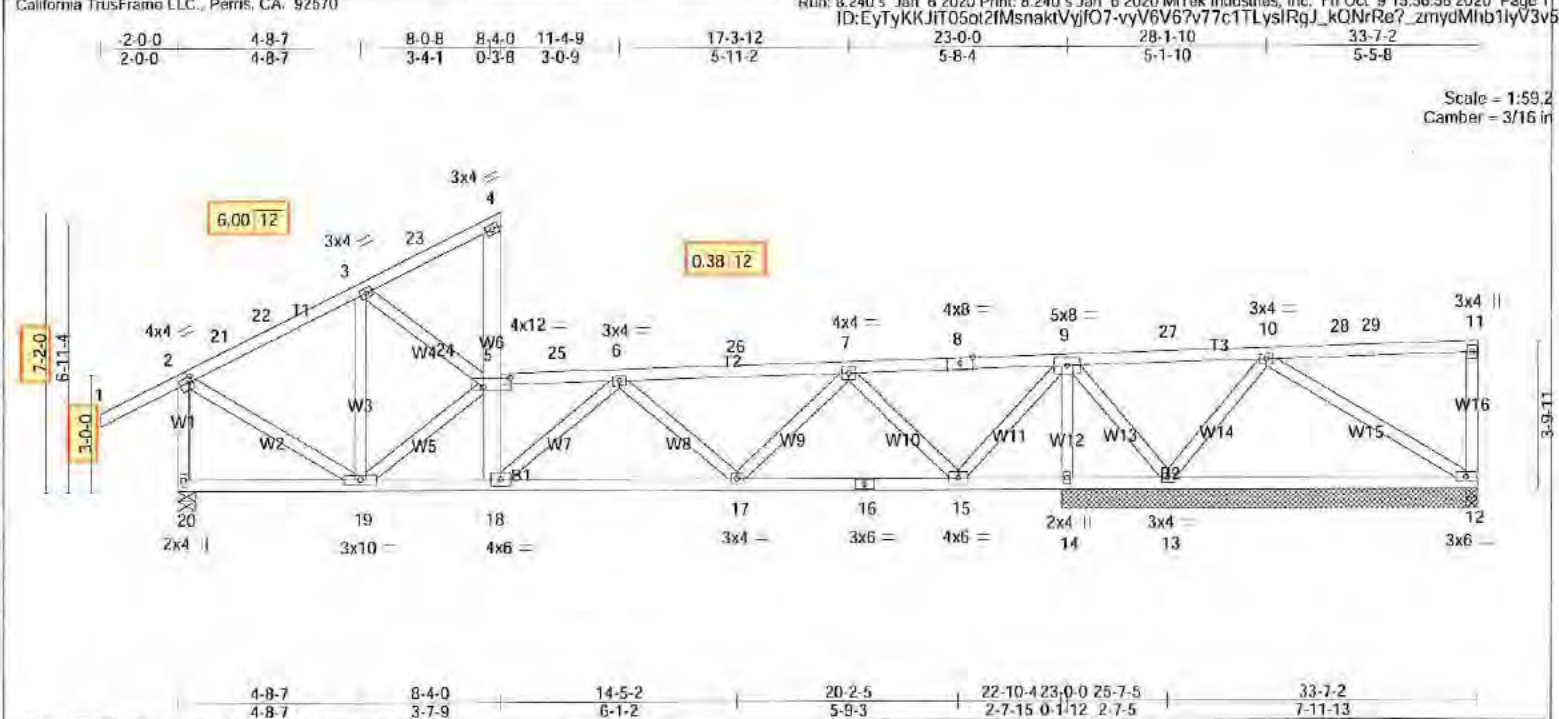
LOAD CASE(S)

Standard Except:

Concentrated Loads (lb)

Vert: 23=1050(F)

Horz: 4=300(F)



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	in (loc)	l/defl	MT20		220/195	
TCDL	17.0	Lumber DOL	1.25	BC	0.38	Vert(LL)	0.12 17-18				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.53	Vert(CT)	-0.24 12-13				
BCDL	9.0	Code IBC2015/TPI2014		Matrix-MSH		Horz(CT)	0.03 14				
								Weight: 190 lb		FT = 20%	

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G *Except*
T1: 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G *Except*
W6: 2x6 DF No.2 G, W2: 2x4 DF No.2 G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 5-1-10 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 4-7-11 oc bracing.

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 0-3-8 except (it=length) 20=0-5-8, 13=10-8-14, 14=10-8-14.
(lb) - Max Horz
20=1875(LC 27)
Max Uplift
All uplift 100 lb or less at joint(s) except 20=109(LC 29),
14=335(LC 9)
Max Grav
All reactions 250 lb or less at joint(s) 12 except 12=393(LC 39), 20=1055(LC 1), 13=603(LC 44), 14=1657(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-21=-767/273, 21-22=-691/301, 3-22=-686/335, 3-23=-345/312,
4-23=-314/359, 5-18=-179/784, 5-24=-342/1144, 4-24=-342/94,
5-25=-1618/1301, 6-25=-1602/1310, 6-26=-1095/164,
7-26=-1089/166, 7-8=-324/257, 8-9=-321/262, 9-27=-219/853,
10-27=-217/863, 11-12=-462/0, 2-20=-1018/188
BOT CHORD
19-20=-1867/378, 18-19=-1286/1549, 17-18=-502/1495,
16-17=-163/616, 15-16=-163/616, 14-15=-1102/310,
13-14=-1102/310, 12-13=-316/213
WEBS
5-19=-1169/1144, 3-5=-721/435, 2-19=-317/716, 3-19=-573/449,
6-18=-1052/387, 6-17=-566/611, 7-17=-424/692,
7-15=-1246/296, 9-15=-204/1292, 9-13=-298/386,
10-13=-896/155, 10-12=-221/414, 9-14=-1630/324

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

LOAD CASE(S)

- Standard Except:
- Uniform Loads (plf)
- Vert: 1-2=57, 2-21=28, 4-21=14, 5-28=18, 11-28=17, 12-20=11
- Horz: 1-2=-77, 2-21=-48, 4-21=-34, 4-5=13, 5-11=-38, 11-12=35, 2-20=19
- 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=8, 2-3=14, 3-4=28, 5-28=18, 11-28=10, 12-20=11
- Horz: 1-2=-28, 2-4=-34, 3-4=-48, 4-5=41, 5-28=-38, 11-28=-45, 11-12=-19, 2-20=-35
- 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=-23, 2-4=-51, 5-28=-47, 11-28=-82, 12-20=-18
- Horz: 1-2=-11, 2-4=17, 4-5=-16, 5-11=13, 11-12=32, 2-20=23
- 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=-45, 2-4=-51, 5-28=-47, 11-28=-82, 12-20=-18
- Horz: 1-2=11, 2-4=17, 4-5=38, 5-11=13, 11-12=23, 2-20=32
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=7, 2-4=7, 5-28=5, 11-28=-30, 12-20=-11
- Horz: 1-2=-28, 2-4=-13, 4-5=12, 5-11=-25, 11-12=23, 2-20=18
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=0, 2-4=6, 5-28=23, 11-28=-12, 12-20=-11
- Horz: 1-2=-21, 2-4=-27, 4-5=-29, 5-11=-44, 11-12=-18, 2-20=-23
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-27, 2-4=-34, 5-28=-22, 11-28=-57, 12-20=-18
- Horz: 1-2=-7, 2-4=0, 4-5=37, 5-11=-12, 11-12=11, 2-20=31
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-13, 2-4=-20, 5-28=-3, 11-28=-38, 12-20=-18
- Horz: 1-2=-21, 2-4=-14, 4-5=-4, 5-11=-31, 11-12=-31, 2-20=-11
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=17, 2-4=23, 5-28=5, 11-28=-30, 12-20=-11
- Horz: 1-2=-38, 2-4=-44, 4-5=-50, 5-11=-25, 11-12=21, 2-20=15
- 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, 2-4=5, 5-28=23, 11-28=-12, 12-20=-11
- Horz: 1-2=-19, 2-4=-25, 4-5=-31, 5-11=-44, 11-12=-15, 2-20=-21
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=4, 2-4=10, 5-28=-1, 11-28=-36, 12-20=-11
- Horz: 1-2=-24, 2-4=-31, 4-5=-37, 5-11=-19, 11-12=-16, 2-20=8
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-7, 2-4=-1, 5-28=10, 11-28=-25, 12-20=-11
- Horz: 1-2=-13, 2-4=-19, 4-5=-26, 5-11=-31, 11-12=-8, 2-20=-16
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=4, 2-4=-3, 5-28=-22, 11-28=-57, 12-20=-18
- Horz: 1-2=-38, 2-4=-31, 4-5=-25, 5-11=-12, 11-12=-9, 2-20=28
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-15, 2-4=-22, 5-28=-3, 11-28=-38, 12-20=-18
- Horz: 1-2=-19, 2-4=-12, 4-5=-6, 5-11=-31, 11-12=-28, 2-20=9
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-59, 2-4=-64, 5-28=-55, 11-28=-90, 12-20=-18
- Horz: 1-2=-5, 2-4=0, 4-5=28, 5-11=-9, 11-12=8, 2-20=23
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-49, 2-4=-53, 5-28=-41, 11-28=-76, 12-20=-18
- Horz: 1-2=-15, 2-4=-11, 4-5=-3, 5-11=-23, 11-12=23, 2-20=-8

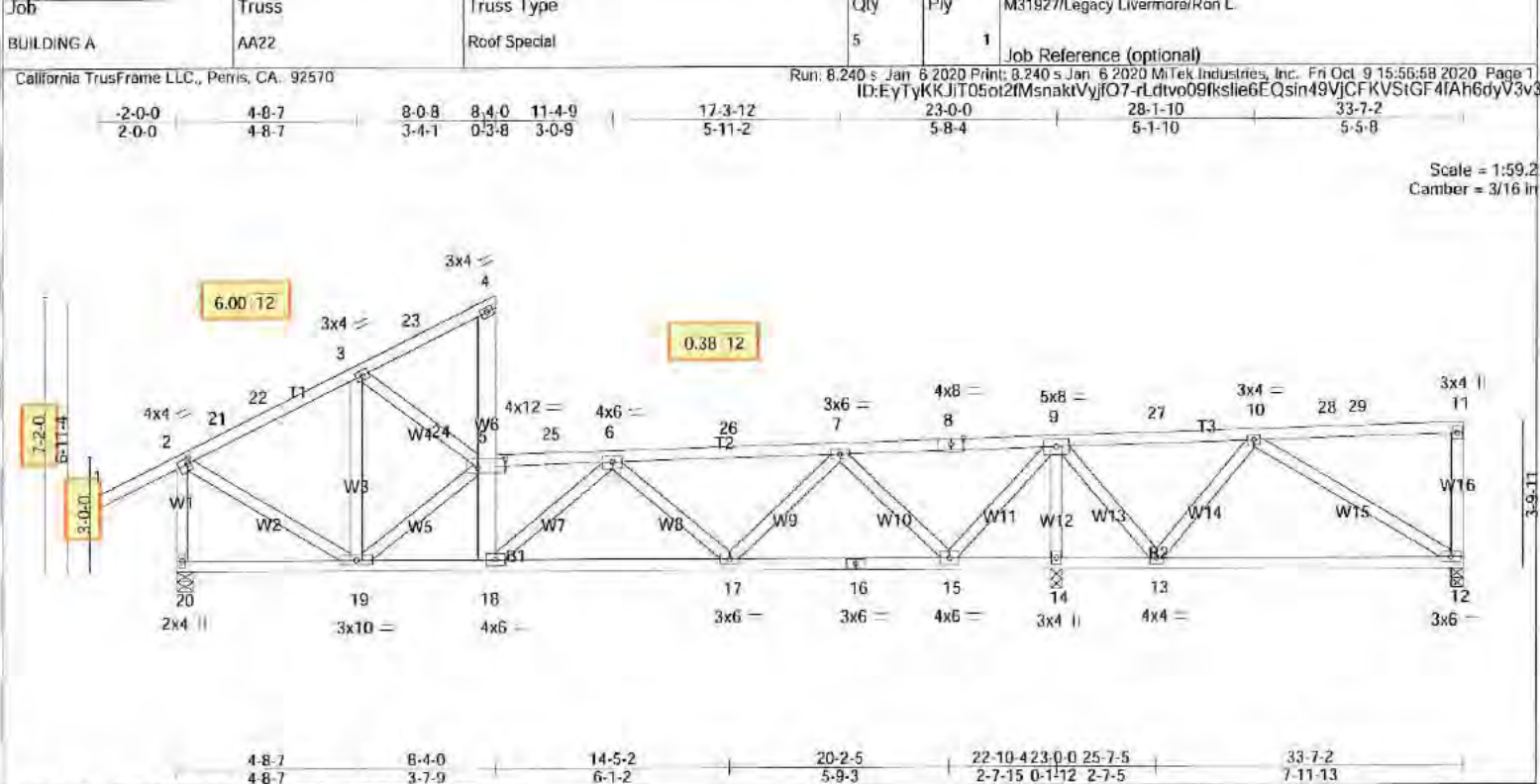
- Standard Except:
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-36, 2-4=-41, 5-28=-55, 11-28=-90, 12-20=-18
- Horz: 1-2=-28, 2-4=-23, 4-5=-19, 5-11=-9, 11-12=7, 2-20=21
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-50, 2-4=-55, 5-28=-41, 11-28=-76, 12-20=-18
- Horz: 1-2=-14, 2-4=-9, 4-5=-4, 5-11=-23, 11-12=-21, 2-20=-7
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-74, 2-4=-74, 5-28=-34, 11-28=-69, 12-20=-18
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-74, 11-28=-109, 12-20=-18
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-64, 2-4=-64, 5-28=-34, 11-28=-69, 12-20=-18
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-64, 11-28=-99, 12-20=-18
- 27) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-34(F), 2-4=-34(F), 5-28=-34(F), 11-28=-69(F=-34), 12-20=-18(F)
- Concentrated Loads (lb)
- Horz: 18=-1875(F)
- 28) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-34(F), 2-4=-34(F), 5-28=-34(F), 11-28=-69(F=-34), 12-20=-18(F)
- Concentrated Loads (lb)
- Vert: 24=1050(F)
- Horz: 4=-300(F)
- 29) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-34(F), 2-4=-34(F), 5-28=-34(F), 11-28=-69(F=-34), 12-20=-18(F)
- Concentrated Loads (lb)
- Vert: 24=1050(F)
- Horz: 4=-300(F)
- 30) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
- Concentrated Loads (lb)
- Vert: 2=306
- 31) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
- Concentrated Loads (lb)
- Vert: 22=-306
- 32) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
- Concentrated Loads (lb)
- Vert: 23=-306
- 33) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
- Concentrated Loads (lb)
- Vert: 4=-306
- 34) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
- Concentrated Loads (lb)
- Vert: 25=-306
- 35) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
- Concentrated Loads (lb)
- Vert: 26=-306
- 36) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
- Concentrated Loads (lb)
- Vert: 8=-306
- 37) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
- Concentrated Loads (lb)
- Vert: 27=-306
- 38) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
- Concentrated Loads (lb)
- Vert: 28=-306

Job	Truss	Truss Type	Qty	Ply	M3192//Legacy Livermore/Ron L.
BUILDING A	AA21	Roof Special	1	1	Job Reference (optional)
California TrusFrame LLC., Perris, CA. 92570			Run: 8.240 s Jan 6 2020 Print: 8.240 s Jan 6 2020 MiTek Industries, Inc. Fri Oct 9 15:56:57 2020 Page 3 ID: EyTyKKJit05ot2fMsnaktVyjfO7-N83UIS?XuQku5UX2s8BYXyzYar_EjQ06r0Q8ZByV3v4		

LOAD CASE(S)

- Standard
- Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 29=-306
- 39) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 11=-306
- 40) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 3=-306
- 41) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 6=-306
- 42) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 7=-306
- 43) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 9=-306
- 44) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 10=-306





LOADING (psf)		SPACING-		CSI.	DEFL.		PLATES	GRIP
TCLL	20.0	2-0-0	Plate Grip DOL		in (loc)	l/defl		
TCDL	17.0	Lumber DOL	1.25	TC	0.12	17-18	MT20	220/195
BCLL	0.0 *	Rep Stress Incr	YES	BC	0.26	12-13	Weight: 190 lb FT = 20%	
BCDL	9.0	Code IBC2015/TPI2014		WB	0.07	14		

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G *Except*
T1: 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G *Except*
W6: 2x6 DF No.2 G, W2: 2x4 DF No.2 G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 3-5-2 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 5-6-4 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)	
12	= 209/0-3-8 (min. 0-1-8)
20	= 1047/0-5-8 (min. 0-1-8)
14	= 2086/0-3-8 (min. 0-2-4)
Max Horz	
20	= -3125(LC 27)
Max Uplift	
12	= -22(LC 27)
20	= -115(LC 29)
14	= -326(LC 9)
Max Grav	
12	= 468(LC 39)
20	= 1047(LC 1)
14	= 2086(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-21=-759/280, 21-22=-683/307, 3-22=-678/342, 3-23=-344/312,
4-23=-313/359, 5-18=-885/779, 5-24=-342/1144, 4-24=-342/94,
5-25=-3899/1324, 6-25=-3892/1332, 6-26=-1833/168,
7-26=-1830/170, 7-8=-277/294, 8-9=-274/304, 9-27=-382/744,
10-27=-378/749, 11-12=-463/0, 2-20=-1010/188
BOT CHORD
19-20=-514/3118, 18-19=-1308/2017, 17-18=-530/2767,
16-17=-164/880, 15-16=-164/880, 14-15=-1256/263,
13-14=-1256/263, 12-13=-363/384
WEBS
5-19=-1148/1163, 3-5=-712/443, 2-19=-324/708, 3-19=-580/444,
6-18=-1044/1473, 6-17=-1278/602, 7-17=-415/1371,
7-15=-1566/295, 9-15=-204/1590, 9-13=-45/908,
10-13=-738/159, 10-12=-421/459, 9-14=-2046/310

LOAD CASE(S)

- Standard Except:
 Uniform Loads (plf)
 Vert: 1-2=-64, 2-4=-64, 5-28=-64, 11-28=-99, 12-20=-18
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-38
- 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=57, 2-21=28, 4-21=14, 5-28=18, 11-28=-17, 12-20=-11
 Horz: 1-2=-77, 2-21=48, 4-21=-34, 4-5=13, 5-11=-38, 11-12=35, 2-20=19
- 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=8, 2-3=14, 3-4=28, 5-28=18, 11-28=-10, 12-20=-11
 Horz: 1-2=-28, 2-3=-34, 3-4=48, 4-5=-41, 5-28=-38, 11-28=45, 11-12=-19, 2-20=-35
- 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=-23, 2-4=-51, 5-28=-47, 11-28=-82, 12-20=-18
 Horz: 1-2=-11, 2-4=17, 4-5=-16, 5-11=13, 11-12=-32, 2-20=-23
- 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=-45, 2-4=-51, 5-28=-47, 11-28=-82, 12-20=-18
 Horz: 1-2=11, 2-4=17, 4-5=38, 5-11=13, 11-12=23, 2-20=32
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=7, 2-4=-7, 5-28=5, 11-28=-30, 12-20=-11
 Horz: 1-2=-28, 2-4=-13, 4-5=12, 5-11=-25, 11-12=23, 2-20=18
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=0, 2-4=6, 5-28=23, 11-28=-12, 12-20=-11
 Horz: 1-2=-21, 2-4=-27, 4-5=-29, 5-11=-44, 11-12=-18, 2-20=23
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-27, 2-4=-34, 5-28=-22, 11-28=-57, 12-20=-18
 Horz: 1-2=-7, 2-4=0, 4-5=37, 5-11=-12, 11-12=11, 2-20=31
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-13, 2-4=-20, 5-28=-3, 11-28=-38, 12-20=-18
 Horz: 1-2=-21, 2-4=-14, 4-5=4, 5-11=31, 11-12=31, 2-20=-11
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=17, 2-4=23, 5-28=5, 11-28=-30, 12-20=-11
 Horz: 1-2=-38, 2-4=-44, 4-5=-50, 5-11=-25, 11-12=21, 2-20=15
- 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, 2-4=5, 5-28=23, 11-28=-12, 12-20=-11
 Horz: 1-2=-19, 2-4=-25, 4-5=-31, 5-11=-44, 11-12=-15, 2-20=-21
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=4, 2-4=10, 5-28=-1, 11-28=-36, 12-20=-11
 Horz: 1-2=-24, 2-4=-31, 4-5=-37, 5-11=-19, 11-12=16, 2-20=8
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-7, 2-4=-1, 5-28=10, 11-28=-25, 12-20=-11
 Horz: 1-2=-13, 2-4=-19, 4-5=-26, 5-11=-31, 11-12=-8, 2-20=-16
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=4, 2-4=-3, 5-28=-22, 11-28=-57, 12-20=-18
 Horz: 1-2=-38, 2-4=-31, 4-5=-25, 5-11=-12, 11-12=9, 2-20=28
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-15, 2-4=-22, 5-28=-3, 11-28=-38, 12-20=-18
 Horz: 1-2=-19, 2-4=-12, 4-5=-6, 5-11=-31, 11-12=-28, 2-20=-9
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)

Standard Except:

- Vert: 1-2=-59, 2-4=-64, 5-28=-55, 11-28=-90, 12-20=-18
 Horz: 1-2=-5, 2-4=-0, 4-5=28, 5-11=-9, 11-12=8, 2-20=23
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-49, 2-4=-53, 5-28=-47, 11-28=-76, 12-20=-18
 Horz: 1-2=-15, 2-4=-11, 4-5=-3, 5-11=-23, 11-12=-23, 2-20=-8
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-36, 2-4=-41, 5-28=-55, 11-28=-90, 12-20=-18
 Horz: 1-2=-28, 2-4=-23, 4-5=-19, 5-11=-9, 11-12=7, 2-20=21
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-50, 2-4=-55, 5-28=-41, 11-28=-76, 12-20=-18
 Horz: 1-2=-14, 2-4=-9, 4-5=-4, 5-11=-23, 11-12=-21, 2-20=-7
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-74, 2-4=-74, 5-28=-74, 11-28=-69, 12-20=-18
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-4=-34, 5-28=-74, 11-28=-109, 12-20=-18
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-64, 2-4=-64, 5-28=-34, 11-28=-69, 12-20=-18
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-4=-34, 5-28=-64, 11-28=-99, 12-20=-18
- 27) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-4=-34(F), 5-28=-34(F), 11-28=-69(F=-34), 12-20=-18(F)
 Concentrated Loads (lb)
 Horz: 18=-1875(F), 5=5000(F)
- 28) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-4=-34(F), 5-28=-34(F), 11-28=-69(F=-34), 12-20=-18(F)
 Concentrated Loads (lb)
 Vert: 24=1050(F)
 Horz: 4=-300(F)
- 29) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-4=-34(F), 5-28=-34(F), 11-28=-69(F=-34), 12-20=-18(F)
 Concentrated Loads (lb)
 Vert: 24=1050(F)
 Horz: 4=-300(F)
- 30) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
 Concentrated Loads (lb)
 Vert: 2=-306
- 31) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
 Concentrated Loads (lb)
 Vert: 22=-306
- 32) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
 Concentrated Loads (lb)
 Vert: 23=-306
- 33) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
 Concentrated Loads (lb)
 Vert: 4=-306
- 34) 5th Moving Load: Lumber Increase
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
 Concentrated Loads (lb)
 Vert: 25=-306
- 35) 6th Moving Load: Lumber Increase
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
 Concentrated Loads (lb)
 Vert: 26=-306
- 36) 7th Moving Load: Lumber Increase
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
 Concentrated Loads (lb)

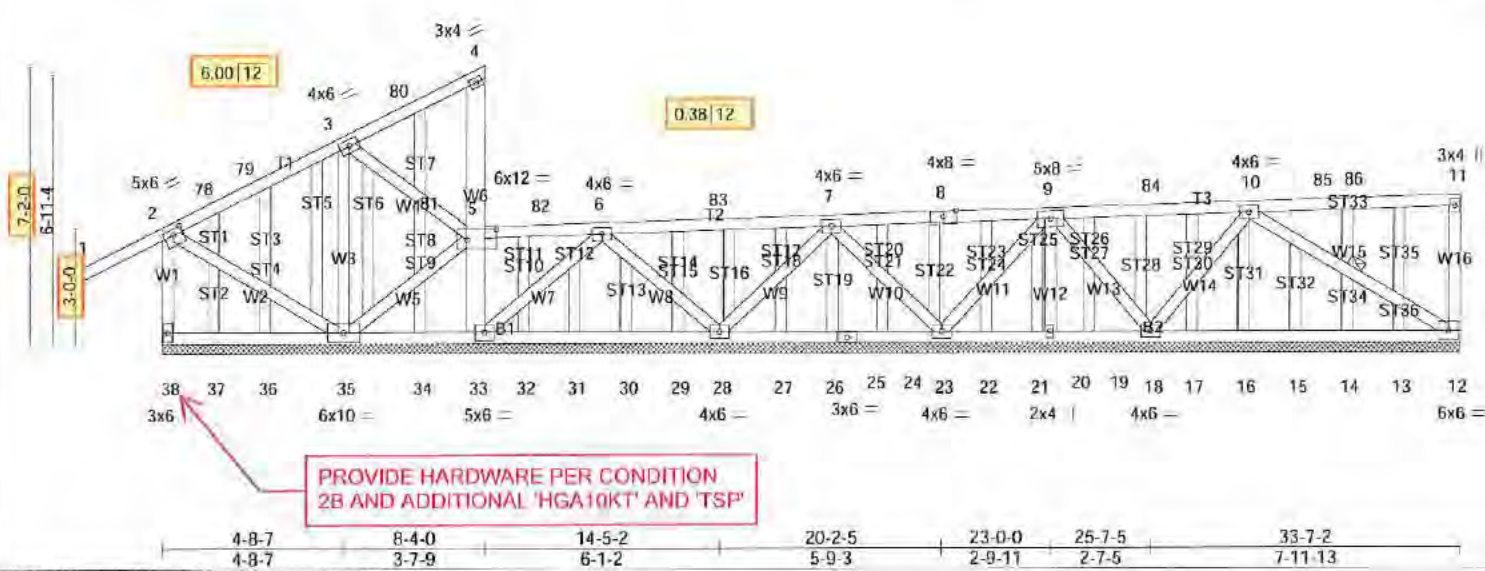
LOAD CASE(S)

- Standard
 - Concentrated Loads (lb)
 - Vert: 8=-306
- 37) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
 - Concentrated Loads (lb)
 - Vert: 27=-306
- 38) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
 - Concentrated Loads (lb)
 - Vert: 29=-306
- 39) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
 - Concentrated Loads (lb)
 - Vert: 11=-306
- 40) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
 - Concentrated Loads (lb)
 - Vert: 3=-306
- 41) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
 - Concentrated Loads (lb)
 - Vert: 6=-306
- 42) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
 - Concentrated Loads (lb)
 - Vert: 7=-306
- 43) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
 - Concentrated Loads (lb)
 - Vert: 9=-306
- 44) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-20=-18
 - Concentrated Loads (lb)
 - Vert: 10=-306





Scale = 1:59.3



LOADING (psf)		SPACING-		CSI		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.77	Vert(LL)	-0.00	MT20		220/195	
TCDL	17.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	-0.05				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.04				
BCDL	9.0	Code IBC2015/TPI2014		Matrix-SH							
								Weight: 280 lb		FT = 20%	

LUMBER-
TOP CHORD 2x4 DF No.1&8tr G *Except*
T1: 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G *Except*
W6: 2x6 DF No.2 G, W2: 2x4 DF No.2 G
OTHERS 2x4 DF Stud/Std G
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 4-6-1 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 5-2-5 oc bracing.
WEBS
1 Row at midpt 10-12
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

BOT CHORD
37-38=-514/3109, 36-37=-818/3109, 35-36=-1498/3109,
34-35=-1195/1133, 33-34=-540/477, 32-33=-1178/1354,
31-32=-768/1313, 30-31=-279/1313, 29-30=-435/1313,
28-29=-800/1313, 27-28=-1043/1175, 26-27=-505/651,
25-26=-104/355, 24-25=-272/405, 23-24=-782/915,
22-23=-1176/1114, 21-22=-795/734, 20-21=-350/289,
18-19=-708/647, 17-18=-1069/1210, 16-17=-716/857,
15-16=-271/412, 14-15=-513/654, 13-14=-958/1054,
12-13=-1437/1582
WEBS
5-35=-1239/2850, 3-5=-1237/1244, 2-35=-1914/1915,
3-35=-1373/1140, 6-33=-1775/1460, 6-28=-1419/1305,
7-28=-1437/1378, 7-23=-1563/1167, 9-23=-1677/1554,
9-18=-1651/1596, 10-18=-1520/1116, 10-12=-1841/1707,
9-20=-253/76

REACTIONS. All bearings 33-7-2.
(lb) - Max Horz
38=-3125(LC 31)
Max Uplift
All uplift 100 lb or less at joint(s) 18, 20, 37, 34, 32,
30, 29, 27, 26, 13 except 33=-953(LC 32), 12=-818(LC 26),
38=-1752(LC 25), 35=-893(LC 25), 23=-147(LC 13)
Max Grav
All reactions 250 lb or less at joint(s) 37, 36, 34, 32, 31,
30, 27, 26, 24, 22, 21, 19, 17, 16, 15, 14, 13 except
33=1216(LC 24), 12=1171(LC 23), 38=2012(LC 24), 35=1143(LC
24), 23=588(LC 31), 18=521(LC 48), 20=255(LC 47),
29=307(LC 31)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf;
BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone
and C-C Exterior(2) -2-0-0 to 1-4-5, Interior(1) 1-4-5 to 33-5-6 zone; cantilever left and
right exposed ; end vertical left and right exposed; C-C for members and forces &
MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to
wind (normal to the face), see Standard Industry Gable End Details as applicable, or
consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10 year current
with any other live loads.
7) * This truss has been designed for a 10 year current
d in all
ord and
any other members.
8) A plate rating reduction of 20% has b
9) This truss is designed in accordance
section 2306.1 and referenced standard
10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9,
22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32
45, 46, 47, 48 has/have been modified,
that they are correct for the intended use
11) This truss has been designed for a 10
6.0lb dead located at all mid panels and
nonconcurrent with any other live loads.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-78=-1884/1829, 78-79=-1001/1051, 3-79=-873/1001,
3-80=-1297/1245, 4-80=-532/497, 5-33=-1529/1137,
5-81=-1450/1376, 4-81=-1055/115, 5-82=-2003/136,
6-82=-1995/1101, 6-83=-1194/1097, 7-83=-899/812,
7-8=-986/1123, 8-9=-806/953, 9-84=-1188/1287,
10-84=-447/555, 10-85=-1787/1753, 85-86=-897/869,
11-86=-753/767, 11-12=-462/0, 2-38=-1980/1732
BOT CHORD
37-38=-514/3109, 36-37=-818/3109, 35-36=-1498/3109,
34-35=-1195/1133, 33-34=-540/477, 32-33=-1178/1354,
31-32=-768/1313, 30-31=-279/1313, 29-30=-435/1313,
28-29=-800/1313, 27-28=-1043/1175, 26-27=-505/651,
25-26=-104/355, 24-25=-272/405, 23-24=-782/915,
22-23=-1176/1114, 21-22=-795/734, 20-21=-350/289,
18-19=-708/647, 17-18=-1069/1210, 16-17=-716/857,
15-16=-271/412, 14-15=-513/654, 13-14=-958/1054,
12-13=-1437/1582

NOTES-

- 12) This truss has been designed for a total seismic drag load of 11200 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 33-6-12 for 333.7 plf.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 8-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
- 15) 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=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=74, 2-4=74, 5-85=74, 11-85=109, 12-38=18
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=64, 2-4=64, 5-85=64, 11-85=99, 12-38=18
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=34, 2-4=34, 5-85=34, 11-85=69, 12-38=38
- 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=57, 2-78=28, 4-78=14, 5-85=18, 11-85=17, 12-38=11
Horz: 1-2=77, 2-78=48, 4-78=34, 4-5=13, 5-11=38, 11-12=35, 2-38=19
- 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=8, 2-3=14, 3-4=28, 5-85=18, 11-85=10, 12-38=11
Horz: 1-2=28, 2-3=34, 3-4=48, 4-5=41, 5-85=38, 11-85=45, 11-12=19, 2-38=35
- 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=23, 2-4=51, 5-85=47, 11-85=82, 12-38=18
Horz: 1-2=11, 2-4=17, 4-5=16, 5-11=13, 11-12=32, 2-38=23
- 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=45, 2-4=51, 5-85=47, 11-85=82, 12-38=18
Horz: 1-2=11, 2-4=17, 4-5=38, 5-11=13, 11-12=23, 2-38=32
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-4=7, 5-85=5, 11-85=30, 12-38=11
Horz: 1-2=28, 2-4=13, 4-5=12, 5-11=25, 11-12=23, 2-38=18
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-4=6, 5-85=23, 11-85=12, 12-38=11
Horz: 1-2=21, 2-4=27, 4-5=29, 5-11=44, 11-12=18, 2-38=23
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=27, 2-4=34, 5-85=22, 11-85=57, 12-38=18
Horz: 1-2=7, 2-4=0, 4-5=37, 5-11=12, 11-12=11, 2-38=31
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=13, 2-4=20, 5-85=3, 11-85=38, 12-38=18
Horz: 1-2=21, 2-4=14, 4-5=4, 5-11=31, 11-12=31, 2-38=11
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-4=23, 5-85=5, 11-85=30, 12-38=11
Horz: 1-2=38, 2-4=44, 4-5=50, 5-11=25, 11-12=21, 2-38=15
- 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, 2-4=5, 5-85=23, 11-85=12, 12-38=11
Horz: 1-2=19, 2-4=25, 4-5=31, 5-11=44, 11-12=15, 2-38=21
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-4=10, 5-85=1, 11-85=36, 12-38=11
Horz: 1-2=24, 2-4=31, 4-5=37, 5-11=19, 11-12=16, 2-38=8
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-4=1, 5-85=10, 11-85=25, 12-38=11
Horz: 1-2=19, 2-4=19, 4-5=26, 5-11=31, 11-12=8, 2-38=16

Standard Except:

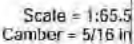
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-4=3, 5-85=22, 11-85=57, 12-38=18
Horz: 1-2=38, 2-4=31, 4-5=25, 5-11=23, 11-12=9, 2-38=28
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-4=22, 5-85=3, 11-85=38, 12-38=18
Horz: 1-2=19, 2-4=12, 4-5=6, 5-11=31, 11-12=28, 2-38=9
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=34, 2-4=34, 5-85=34, 11-85=69, 12-38=18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=59, 2-4=64, 5-85=55, 11-85=90, 12-38=18
Horz: 1-2=5, 2-4=0, 4-5=28, 5-11=9, 11-12=8, 2-38=23
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=49, 2-4=53, 5-85=41, 11-85=76, 12-38=18
Horz: 1-2=15, 2-4=11, 4-5=3, 5-11=23, 11-12=23, 2-38=8
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=36, 2-4=41, 5-85=55, 11-85=90, 12-38=18
Horz: 1-2=28, 2-4=23, 4-5=19, 5-11=9, 11-12=7, 2-38=21
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=50, 2-4=55, 5-85=41, 11-85=76, 12-38=18
Horz: 1-2=14, 2-4=9, 4-5=4, 5-11=23, 11-12=21, 2-38=7
- 23) Dead-Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=34, 2-4=133, 5-6=6, 6-85=24, 11-85=59, 12-38=18
Horz: 2-4=667, 5-6=3910, 6-83=10668, 7-83=10668, 7-8=10668, 8-9=10668, 9-10=10668, 10-85=10668, 85-86=10668, 11-86=10668
Drag: 4-5=333, 12-38=334
- 24) Dead-Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=34, 2-4=201, 5-6=62, 6-85=44, 11-85=79, 12-38=18
Horz: 2-4=667, 5-6=3910, 6-83=10668, 7-83=10668, 7-8=10668, 8-9=10668, 9-10=10668, 10-85=10668, 85-86=10668, 11-86=10668
Drag: 4-5=333, 12-38=334
- 25) 0.6 Dead-Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=20, 2-4=146, 5-6=8, 6-85=10, 11-85=31, 12-38=11
Horz: 2-4=667, 5-6=3910, 6-83=10668, 7-83=10668, 7-8=10668, 8-9=10668, 9-10=10668, 10-85=10668, 85-86=10668, 11-86=10668
Drag: 4-5=333, 12-38=334
- 26) 0.6 Dead-Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=20, 2-4=187, 5-6=49, 6-85=31, 11-85=52, 12-38=11
Horz: 2-4=667, 5-6=3910, 6-83=10668, 7-83=10668, 7-8=10668, 8-9=10668, 9-10=10668, 10-85=10668, 85-86=10668, 11-86=10668
Drag: 4-5=333, 12-38=334
- 27) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=74, 2-4=74, 5-85=34, 11-85=69, 12-38=18
- 28) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=34, 2-4=34, 5-85=74, 11-85=109, 12-38=18
- 29) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=64, 2-4=64, 5-85=34, 11-85=69, 12-38=18
- 30) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=34, 2-4=34, 5-85=64, 11-85=109, 12-38=18
- 31) F1&F2 Anchor Check: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=34(F), 2-4=34(F), 5-85=86(F)
Concentrated Loads (lb)
Horz: 33=1875(F), 5=5000(F)
- 32) F3 Left&F4 Anchor Check: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=34(F), 2-4=34(F), 5-85=34(F)
Concentrated Loads (lb)
Vert: 81=1050(F)
Horz: 4=300(F)

LOAD CASE(S)

Standard Except:

- 33) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-85=-34(F), 11-85=-69(F=-34), 12-38=-18(F)
Concentrated Loads (lb)
Vert: 81=1050(F)
Horz: 4=300(F)
- 34) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-85=-34, 11-85=-69, 12-38=-18
Concentrated Loads (lb)
Vert: 2=-306
- 35) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-85=-34, 11-85=-69, 12-38=-18
Concentrated Loads (lb)
Vert: 79=-306
- 36) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-85=-34, 11-85=-69, 12-38=-18
Concentrated Loads (lb)
Vert: 80=-306
- 37) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-85=-34, 11-85=-69, 12-38=-18
Concentrated Loads (lb)
Vert: 4=-306
- 38) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-85=-34, 11-85=-69, 12-38=-18
Concentrated Loads (lb)
Vert: 82=-306
- 39) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-85=-34, 11-85=-69, 12-38=-18
Concentrated Loads (lb)
Vert: 83=-306
- 40) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-85=-34, 11-85=-69, 12-38=-18
Concentrated Loads (lb)
Vert: 8=-306
- 41) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-85=-34, 11-85=-69, 12-38=-18
Concentrated Loads (lb)
Vert: 84=-306
- 42) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-85=-34, 11-85=-69, 12-38=-18
Concentrated Loads (lb)
Vert: 86=-306
- 43) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-85=-34, 11-85=-69, 12-38=-18
Concentrated Loads (lb)
Vert: 11=-306
- 44) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-85=-34, 11-85=-69, 12-38=-18
Concentrated Loads (lb)
Vert: 3=-306
- 45) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-85=-34, 11-85=-69, 12-38=-18
Concentrated Loads (lb)
Vert: 6=-306
- 46) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-85=-34, 11-85=-69, 12-38=-18
Concentrated Loads (lb)
Vert: 7=-306
- 47) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-85=-34, 11-85=-69, 12-38=-18
Concentrated Loads (lb)
Vert: 9=-306
- 48) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-85=-34, 11-85=-69, 12-38=-18
Concentrated Loads (lb)
Vert: 10=-306





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

TOP CHORD
2-24=-210/1263, 3-24=-202/1283, 3-25=-191/1303,
4-25=-169/1332, 4-26=-352/351, 5-26=-323/377,
6-17=-2225/415, 6-27=-369/1144, 5-27=-369/104,
6-28=-1652/96, 7-28=-1649/98, 7-29=-2009/216,
8-29=-2005/216, 8-9=-2002/218, 9-30=-1894/171,
10-30=-1885/173, 11-12=-481/0

BOT CHORD
17-18=-3901/455, 16-17=-1640/869, 15-16=-265/1832,
14-15=-265/1832, 13-14=-385/2121, 12-13=-256/1672

WEBS
4-18=-1469/78, 4-6=-35/1343, 6-18=-281/3538, 6-16=-266/2342,
7-16=-1217/210, 7-14=-40/960, 9-14=-553/129, 9-13=-480/165,

LOAD CASE(S)

Standard Except:

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-32=-74, 11-32=-109, 12-20=-18
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-32=-64, 11-32=-99, 12-20=-18
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-38
- 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=57, 2-24=28, 5-24=14, 5-6=-6, 6-32=18, 11-32=-17, 12-20=-11
Horz: 1-2=-77, 2-24=-48, 5-24=-34, 5-6=6, 6-11=38, 11-12=35, 20-22=19
- 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=8, 2-4=14, 4-5=28, 5-6=48, 6-31=18, 31-32=25, 11-32=-10, 12-20=-11
Horz: 1-2=28, 2-4=-34, 4-5=-48, 5-6=-48, 6-31=-38, 11-31=-45, 11-12=-19, 20-22=-35
- 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=-23, 2-5=-51, 5-6=10, 6-32=-47, 11-32=-82, 12-20=-18
Horz: 1-2=-11, 2-5=17, 5-6=-10, 6-11=13, 11-12=31, 20-22=22
- 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=-45, 2-5=-51, 5-6=-44, 6-32=-47, 11-32=-82, 12-20=-18
Horz: 1-2=11, 2-5=17, 5-6=44, 6-11=13, 11-12=22, 20-22=31
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-5=-7, 5-6=-5, 6-32=5, 11-32=-30, 12-20=-11
Horz: 1-2=-28, 2-5=-13, 5-6=5, 6-11=-25, 11-12=23, 20-22=18
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-5=6, 5-6=36, 6-32=23, 11-32=-12, 12-20=-11
Horz: 1-2=-21, 2-5=-27, 5-6=36, 6-11=-44, 11-12=-18, 20-22=23
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-5=-34, 5-6=-43, 6-32=-22, 11-32=-57, 12-20=-18
Horz: 1-2=-7, 2-5=0, 5-6=43, 6-11=-12, 11-12=11, 20-22=31
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-5=-20, 5-6=-2, 6-32=3, 11-32=38, 12-20=-18
Horz: 1-2=-21, 2-5=-14, 5-6=2, 6-11=-31, 11-12=-31, 20-22=-11
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-5=23, 5-6=57, 6-32=5, 11-32=-30, 12-20=-11
Horz: 1-2=38, 2-5=-44, 5-6=-57, 6-11=-25, 11-12=21, 20-22=15
- 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, 2-5=5, 5-6=38, 6-32=23, 11-32=-12, 12-20=-11
Horz: 1-2=-19, 2-5=-25, 5-6=38, 6-11=-44, 11-12=-15, 20-22=21
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=10, 5-6=43, 6-32=-1, 11-32=-36, 12-20=-11
Horz: 1-2=24, 2-5=-31, 5-6=-43, 6-11=-19, 11-12=16, 20-22=8
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-5=-1, 5-6=32, 6-32=10, 11-32=-25, 12-20=-11
Horz: 1-2=-13, 2-5=-19, 5-6=-32, 6-11=31, 11-12=-8, 20-22=-16
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=-3, 5-6=19, 6-32=-22, 11-32=-57, 12-20=-18
Horz: 1-2=-38, 2-5=-31, 5-6=-19, 6-11=-12, 11-12=9, 20-22=28
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-5=-22, 5-6=0, 6-32=-3, 11-32=-38, 12-20=-18
Horz: 1-2=-19, 2-5=-12, 5-6=0, 6-11=-31, 11-12=-28, 20-22=9
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)

Continued on page 3

Standard Except:

- Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-59, 2-5=-64, 5-6=-32, 6-32=-55, 11-32=-90, 12-20=-18
Horz: 1-2=-5, 2-5=0, 5-6=32, 6-11=-9, 11-12=8, 20-22=23
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-5=-53, 5-6=-2, 6-32=-41, 11-32=-76, 12-20=-18
Horz: 1-2=-15, 2-5=-11, 5-6=2, 6-11=-23, 11-12=-23, 20-22=-8
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-5=-41, 5-6=14, 6-32=-55, 11-32=-90, 12-20=-18
Horz: 1-2=-28, 2-5=-23, 5-6=14, 6-11=-9, 11-12=7, 20-22=21
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-50, 2-5=-55, 5-6=0, 6-32=-41, 11-32=-76, 12-20=-18
Horz: 1-2=-14, 2-5=-9, 5-6=0, 6-11=-23, 11-12=-21, 20-22=-7
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-32=-34, 11-32=-69, 12-20=-18
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-74, 11-32=-109, 12-20=-18
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-32=-34, 11-32=-69, 12-20=-18
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-64, 11-32=-99, 12-20=-18
- 27) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-32=-34(F), 11-32=-69(F=-34), 12-20=-18(F)
Concentrated Loads (lb)
Horz: 17=-1875(F), 6=5000(F)
- 28) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-32=-34(F), 11-32=-69(F=-34), 12-20=-18(F)
Concentrated Loads (lb)
Vert: 27=1050(F)
Horz: 5=-300(F)
- 29) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-32=-34(F), 11-32=-69(F=-34), 12-20=-18(F)
Concentrated Loads (lb)
Vert: 27=1050(F)
Horz: 5=300(F)
- 30) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 2=-306
- 31) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 24=-306
- 32) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 25=-306
- 33) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 26=-306
- 34) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 5=-306
- 35) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 28=-306

LOAD CASE(S)

- Standard
- 36) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 29=-306
- 37) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 30=-306
- 38) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 32=-306
- 39) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 11=-306
- 40) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 3=-306
- 41) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 4=-306
- 42) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 5=-306
- 43) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 5=-306
- 44) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 7=-306
- 45) 16th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 9=-306
- 46) 17th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 10=-306



California TrusFrame LLC., Perris, CA. 92570 Run: 8.240 s Jan 6 2020 Print: 8.240 s Jan 6 2020 MiTek Industries, Inc. Fri Oct 9 15:57:04 2020 Page 1
ID: EyTyKKJiTO5ot2IMsnaktVyiO7-gU_8Ar5wFaduRZZOm6pBJQllygl6sU18Sbd0IHV3uz

-2-0-0 2-0-10 4-8-7 8-4-0 14-1-9 21-2-5 28-9-8 35-4-4
2-0-0 2-0-10 2-7-13 3-7-9 5-9-9 7-0-12 7-7-3 6-6-12

Scale = 1:63.2
Camber = 5/16 in

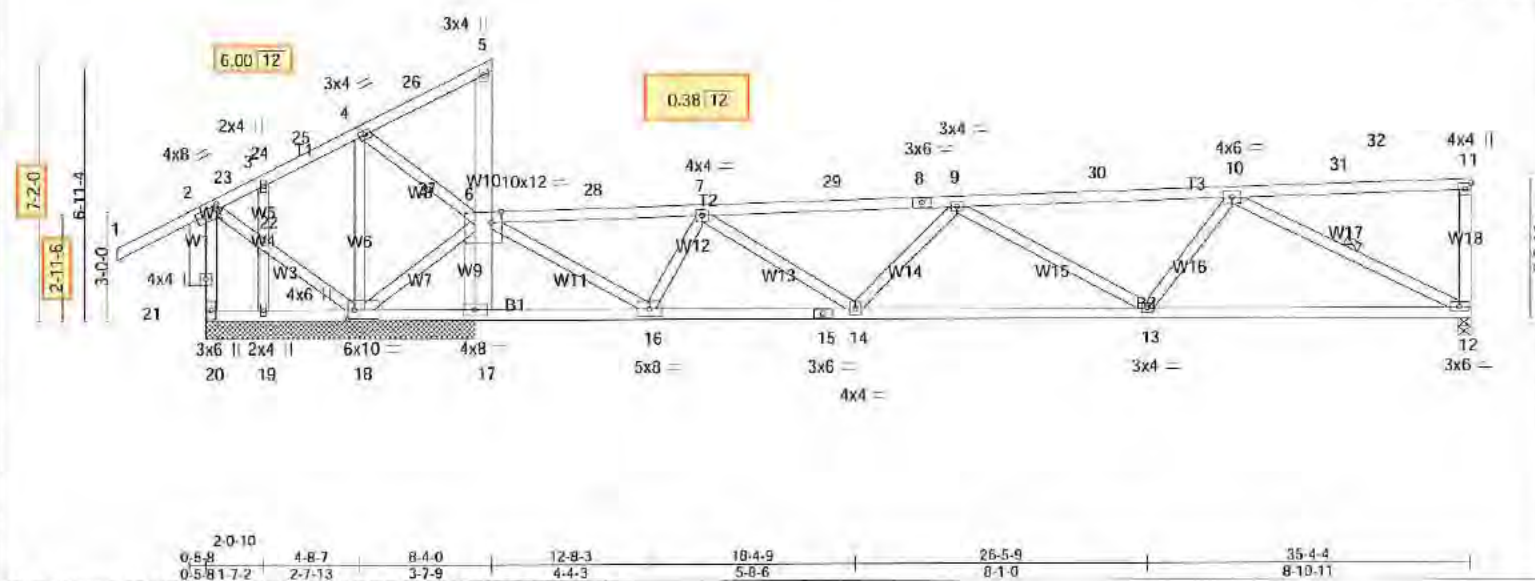


Plate Offsets (X,Y)~ [2-0-0-12,0-1-12], [6-0-3-4,Edge], [18-0-2-0,0-3-0]		LOADING (psf)		SPACING- 2.0-0		CSI.		DEFL.		PLATES		GRIP	
TCLL 20.0		Plate Grip DOL 1.25		TC 0.89		in (loc) l/defl L/d		MT20		220/195			
TCDL 17.0		Lumber DOL 1.25		BC 0.69		Vert(LL) -0.14 12-13 >999 240							
BCLL 0.0 *		Rep Stress Incr YES		WB 0.96		Vert(CT) -0.46 12-13 >703 180							
BCDL 9.0		Code IBC2015/TPI2014		Matrix-MSH		Horz(CT) 0.08 12 n/a n/a							

Weight: 202 lb FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.1&Btr G *Except*
T1: 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G *Except*
W10,W1: 2x6 DF No.2 G, W7: 2x4 DF No.2 G

BRACING-

TOP CHORD
Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 4-9-0 oc bracing.
WEBS
1 Row at midpt 10-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 7-5-0 except (lt-length) 12=0-4-0.

(lb) - Max Horz
20=-3125(LC 27)
Max Uplift
All uplift 100 lb or less at joint(s) 12, 19 except
17=-508(LC 9), 20=-786(LC 27), 18=-1295(LC 27)
Max Grav
All reactions 250 lb or less at joint(s) 20, 18 except
17=3217(LC 27), 12=1186(LC 1), 19=361(LC 40)

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

TOP CHORD
2-23=-156/906, 23-24=-146/916, 3-24=-146/929, 3-25=-127/885,
4-25=-107/921, 4-26=-351/349, 5-26=-323/375,
6-17=-3113/545, 6-27=-371/1141, 5-27=-371/103,
6-28=-1255/75, 7-28=-1252/77, 7-29=-1736/185,
8-29=-1728/186, 8-9=-1723/188, 9-30=-1884/156,
10-30=-1875/158, 11-12=-480/0, 20-21=-224/770,
2-21=-228/766
BOT CHORD
19-20=-530/3134, 18-19=-530/3134, 17-18=-1567/131,
16-17=-1677/367, 15-16=-224/1466, 14-15=-224/1466,
13-14=-360/2104, 12-13=-246/1665
WEBS
4-18=-1023/35, 4-6=0/919, 6-18=-420/4620, 6-16=-280/2351,
7-16=-1222/217, 7-14=-52/967, 9-14=-558/138, 9-13=-374/154,
10-13=0/474, 10-12=-1819/252, 2-22=-927/264,
18-22=-1014/288, 3-22=-347/56, 19-22=-312/54

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-6-8, Interior(1) 1-6-8 to 35-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 7) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 8) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 8-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of the building designer.
- 12) This truss is designed for a creep Vert(CT) deflection per ANSI/TPI 1.
- 13) In the LOAD CASE(S) section, load is indicated as front (F) or back (B).

LOAD CASE(S)

- Standard Except:
- 1) Dead + Roof Live (balanced): Lumb Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-32=-74, 1
 - 2) Dead + 0.75 Roof Live (balanced): Lumb Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-32=-64, 1

LOAD CASE(S)

Standard Except:

- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-38
- 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=57, 2-24=28, 5-24=14, 5-6=-6, 6-32=18, 11-32=-17, 12-20=-11, 2-21=-19
Horz: 1-2=-77, 2-24=-48, 5-24=-34, 5-6=6, 6-11=-38, 11-12=35, 2-20=19
- 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=8, 2-4=14, 4-5=28, 5-6=48, 6-31=18, 31-32=25, 11-32=-10, 12-20=-11, 2-21=35
Horz: 1-2=-28, 2-4=-34, 4-5=48, 5-6=48, 6-31=-38, 11-31=-45, 11-12=-19, 2-20=-35
- 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=-23, 2-5=-51, 5-6=10, 6-32=-47, 11-32=-82, 12-20=-18, 2-21=22
Horz: 1-2=-11, 2-5=17, 5-6=-10, 6-11=13, 11-12=-31, 2-20=-22
- 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=-45, 2-5=-51, 5-6=-44, 6-32=-47, 11-32=-82, 12-20=-18, 2-21=-31
Horz: 1-2=11, 2-5=17, 5-6=44, 6-11=13, 11-12=22, 2-20=31
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-5=-7, 5-6=-5, 6-32=5, 11-32=-30, 12-20=-11, 2-21=-18
Horz: 1-2=-28, 2-5=-13, 5-6=5, 6-11=-25, 11-12=23, 2-20=18
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-5=6, 5-6=36, 6-32=23, 11-32=-12, 12-20=-11, 2-21=23
Horz: 1-2=-21, 2-5=-27, 5-6=-36, 6-11=-44, 11-12=-18, 2-20=-23
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-5=-34, 5-6=-43, 6-32=-22, 11-32=-57, 12-20=-18, 2-21=-31
Horz: 1-2=-7, 2-5=0, 5-6=43, 6-11=-12, 11-12=11, 2-20=31
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-5=-20, 5-6=-2, 6-32=-3, 11-32=-38, 12-20=-18, 2-21=11
Horz: 1-2=-21, 2-5=-14, 5-6=2, 6-11=-31, 11-12=-31, 2-20=-11
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-5=23, 5-6=57, 6-32=5, 11-32=-30, 12-20=-11, 2-21=-15
Horz: 1-2=-38, 2-5=-44, 5-6=57, 6-11=25, 11-12=21, 2-20=15
- 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, 2-5=5, 5-6=38, 6-32=23, 11-32=-12, 12-20=-11, 2-21=21
Horz: 1-2=-19, 2-5=-25, 5-6=38, 6-11=-44, 11-12=-15, 2-20=21
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=10, 5-6=43, 6-32=-1, 11-32=-36, 12-20=-11, 2-21=8
Horz: 1-2=-24, 2-5=-31, 5-6=43, 6-11=19, 11-12=16, 2-20=8
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-5=-1, 5-6=32, 6-32=10, 11-32=-25, 12-20=-11, 2-21=16
Horz: 1-2=-13, 2-5=-19, 5-6=32, 6-11=-31, 11-12=-8, 2-20=-16
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=-3, 5-6=19, 6-32=-22, 11-32=-57, 12-20=-18, 2-21=-28
Horz: 1-2=-38, 2-5=-31, 5-6=-19, 6-11=12, 11-12=9, 2-20=28
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-5=-22, 5-6=0, 6-32=-3, 11-32=-38, 12-20=-18, 2-21=9
Horz: 1-2=-19, 2-5=-12, 5-6=0, 6-11=-31, 11-12=-28, 2-20=9
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)

Standard Except:

- Vert: 1-2=-59, 2-5=-64, 5-6=-32, 6-32=-55, 11-32=-90, 12-20=-18, 2-21=-23
Horz: 1-2=-5, 2-5=0, 5-6=32, 6-11=-9, 11-12=8, 2-20=23
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-5=-53, 5-6=-2, 6-32=-41, 11-32=-76, 12-20=-18, 2-21=8
Horz: 1-2=-15, 2-5=-11, 5-6=2, 6-11=-23, 11-12=-23, 2-20=8
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-5=-41, 5-6=14, 6-32=-55, 11-32=-90, 12-20=-18, 2-21=-21
Horz: 1-2=-28, 2-5=-23, 5-6=-14, 6-11=-9, 11-12=7, 2-20=21
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-50, 2-5=-55, 5-6=0, 6-32=-41, 11-32=-76, 12-20=-18, 2-21=7
Horz: 1-2=-14, 2-5=9, 5-6=0, 6-11=-23, 11-12=-21, 2-20=-7
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-32=-34, 11-32=-69, 12-20=-18
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-74, 11-32=-109, 12-20=-18
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-32=-34, 11-32=-69, 12-20=-18
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-64, 11-32=-99, 12-20=-18
- 27) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-32=-34(F), 11-32=-69(F=-34), 12-20=-18(F)
Concentrated Loads (lb)
Horz: 17=-1875(F), 6=5000(F)
- 28) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-32=-34(F), 11-32=-69(F=-34), 12-20=-18(F)
Concentrated Loads (lb)
Vert: 27=1050(F)
Horz: 5=-300(F)
- 29) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-32=-34(F), 11-32=-69(F=-34), 12-20=-18(F)
Concentrated Loads (lb)
Vert: 27=1050(F)
Horz: 5=-300(F)
- 30) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 2=-306
- 31) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 23=-306
- 32) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 25=-306
- 33) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 26=-306
- 34) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 5=-306
- 35) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 28=-306
- 36) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)

Continued on page 3

Standard Concentrated Loads (lb)
Vert: 29=-306

37) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 30=-306

38) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 32=-306

39) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 11=-306

40) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 3=-306

41) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 4=-306

42) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 5=-306

43) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 5=-306

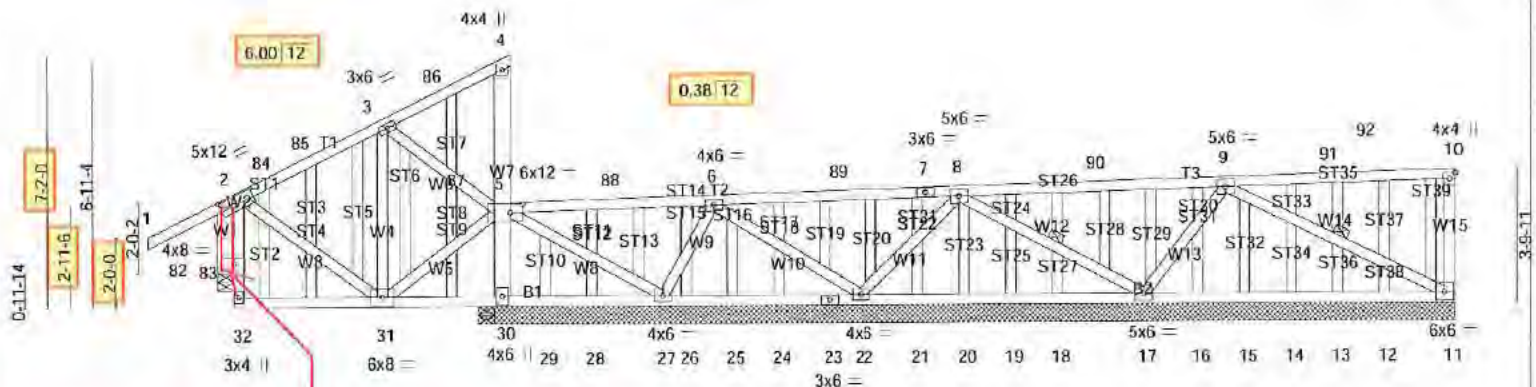
44) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 7=-306

45) 16th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 9=-306

46) 17th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-32=-34, 11-32=-69, 12-20=-18
Concentrated Loads (lb)
Vert: 10=-306

-2-0-0 4-8-7 8-4-0 14-1-9 21-2-5 28-9-8 35-4-4
 2-0-0 4-8-7 3-7-9 5-9-9 7-0-12 7-7-3 6-6-12

Scale = 1:65.5



PROVIDE HARDWARE PER CONDITION 1E AND ADDITIONAL
 HGA10KT. PROVIDE ADDITIONAL 2x 2' - 0" VERTICAL SCAB
 TO VERTICAL MEMBER W/ 2 ROWS OF 10d AT 4" O.C.

4-8-7 7-5-0 8-4-0 12-8-3 18-4-9 26-5-9 35-4-4
 4-8-7 2-8-9 0-11-0 4-4-3 5-8-6 8-1-0 8-10-11

Plate Offsets (X,Y)-- [2:0-4-9,0-3-0], [5:0-4-4,0-3-0]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.85	in (loc) l/defl L/d	MT20	220/195
TCDL 17.0	Plate Grip DOL 1.25	BC 0.37	Vert(LL) -0.01 17 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.97	Vert(CT) -0.04 17-18 >999 180		
BCDL 9.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.03 11 n/a n/a		
	Code IBC2015/TPI2014			Weight: 290 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.1&Btr G *Except*

T1: 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G *Except*

W7,W1: 2x6 DF No.2 G, W2: 2x4 DF No.2 G

OTHERS 2x4 DF Stud/Std G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 4-8-11 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 4-1-2 oc bracing.

WEBS

1 Row at midpt

8-17, 9-11

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 27-11-4 except (l=length) 30=0-5-8, 30=0-5-8, 83=0-5-8.

(lb) - Max Horz

30=3125(LC 31)

Max Uplift

All uplift 100 lb or less at joint(s) 29, 19, 18, 16

except 30=1165(LC 25), 11=730(LC 26), 27=240(LC 25),

22=246(LC 9), 15=127(LC 28), 83=1408(LC 25)

Max Grav

All reactions 250 lb or less at joint(s) 29, 28, 26, 25, 24,

21, 20, 19, 18, 15, 14, 13, 12 except 30=1601(LC 24),

30=491(LC 1), 11=1261(LC 23), 27=705(LC 31), 22=929(LC 28),

16=318(LC 28), 83=1846(LC 24)

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

TOP CHORD

2-84=1671/1485, 84-85=998/1200, 3-85=956/772,

3-86=1088/1043, 4-86=449/451, 5-30=1518/1159,

5-87=1193/1148, 4-87=898/98, 5-88=877/318,

6-88=1150/1277, 6-89=137/414, 7-89=135/425,

7-8=1111/1419, 8-90=1627/1329, 9-90=866/581,

9-91=1816/1774, 91-92=914/878, 10-92=707/700,

10-11=478/0

BOT CHORD

30-31=2417/1430, 29-30=1697/2487, 28-29=1247/2487,

27-28=758/2487, 26-27=1688/1661, 25-26=1450/1423,

24-25=961/934, 23-24=473/736, 22-23=433/736,

21-22=1937/2087, 20-21=1343/1494, 19-20=854/1005,

18-19=366/517, 17-18=913/1063, 16-17=1248/1708,

BOT CHORD

30-31=2417/1430, 29-30=1697/2487, 28-29=1247/2487,

27-28=758/2487, 26-27=1688/1661, 25-26=1450/1423,

24-25=961/934, 23-24=473/736, 22-23=433/736,

21-22=1937/2087, 20-21=1343/1494, 19-20=854/1005,

18-19=366/517, 17-18=913/1063, 16-17=1248/1708,

15-16=686/1146, 14-15=197/657, 13-14=386/895,

12-13=923/1335, 11-12=1542/2070

WEBS

3-31=885/821, 3-5=953/805, 5-31=116/2227,

5-27=1867/1279, 6-27=1275/1065, 6-22=1930/1600,

8-22=1865/1196, 8-17=1893/2057, 9-17=1402/1109,

9-11=2297/1818, 2-31=1421/1528, 2-83=1873/1433

NOTES-

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

2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCCL=10.2psi; BCDL=5.4psi; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-6-8, Interior(1) 1-6-8 to 35-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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.

4) Gable studs spaced at 1-4-0 oc.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) * 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 is applied to the bottom chord and any other members.

7) A plate rating reduction of 20% has been applied to the bottom chord plates.

8) Bearing at joint(s) 83 considers parallel grain formula. Building designer should verify.

9) This truss is designed in accordance with section 2306.1 and referenced standard.

10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 45, 46 has/have been modified. Building designer should verify that they are correct for the intended use of this truss.

11) This truss has been designed for a 6.0lb dead located at all mid panels and nonconcurrent with any other live loads.

NOTES-

- 12) This truss has been designed for a total seismic drag load of 9900 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 8-4-0 to 35-4-4 for 366.4 plf.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 8-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(C1) deflection per ANSI/TPI 1.
- 15) 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)

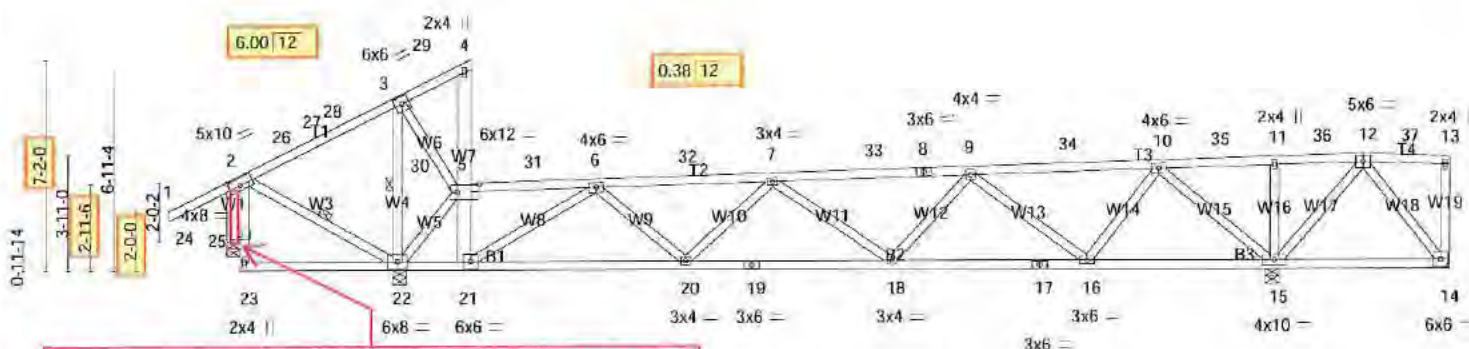
- Standard Except:
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-4=-74, 5-92=-74, 10-92=-109, 11-32=-18
Horz: 1-2=-38, 2-4=-31, 4-5=-25, 5-10=-12, 10-11=9, 32-82=28
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-4=-64, 5-92=-64, 10-92=-99, 11-32=-18
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-92=-34, 10-92=-69, 11-32=-38
- 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=57, 2-84=28, 4-84=14, 5-92=18, 10-92=-17, 11-32=-11
Horz: 1-2=-77, 2-84=-48, 4-84=-34, 4-5=12, 5-10=-38, 10-11=35, 32-82=19
- 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=8, 2-3=14, 3-4=28, 5-91=18, 91-92=25, 10-92=-10, 11-32=11
Horz: 1-2=-28, 2-3=-34, 3-4=-48, 4-5=-41, 5-91=-38, 10-91=-45, 10-11=-19, 32-82=35
- 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=-23, 2-4=-51, 5-92=-47, 10-92=-82, 11-32=-18
Horz: 1-2=-11, 2-4=17, 4-5=-16, 5-10=13, 10-11=-31, 32-82=-22
- 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=-45, 2-4=-51, 5-92=-47, 10-92=-82, 11-32=-18
Horz: 1-2=-11, 2-4=17, 4-5=38, 5-10=13, 10-11=22, 32-82=31
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-4=-7, 5-92=5, 10-92=-30, 11-32=-11
Horz: 1-2=-28, 2-4=-13, 4-5=12, 5-10=-25, 10-11=23, 32-82=18
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-4=6, 5-92=23, 10-92=-12, 11-32=-11
Horz: 1-2=-21, 2-4=-27, 4-5=-29, 5-10=-44, 10-11=-18, 32-82=-23
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=27, 2-4=-34, 5-92=-22, 10-92=-57, 11-32=-18
Horz: 1-2=-7, 2-4=-0, 4-5=37, 5-10=-12, 10-11=11, 32-82=31
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-4=-20, 5-92=-3, 10-92=-38, 11-32=-18
Horz: 1-2=-21, 2-4=-14, 4-5=-4, 5-10=-31, 10-11=-31, 32-82=-11
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-4=23, 5-92=5, 10-92=-30, 11-32=-11
Horz: 1-2=-38, 2-4=-44, 4-5=-50, 5-10=-25, 10-11=21, 32-82=15
- 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, 2-4=5, 5-92=23, 10-92=-12, 11-32=-11
Horz: 1-2=-19, 2-4=-25, 4-5=-31, 5-10=-44, 10-11=-15, 32-82=-21
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-4=10, 5-92=-1, 10-92=-36, 11-32=-11
Horz: 1-2=-24, 2-4=-31, 4-5=-37, 5-10=-19, 10-11=16, 32-82=8
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-4=-1, 5-92=10, 10-92=-25, 11-32=-11
Horz: 1-2=-19, 2-4=-19, 4-5=-26, 5-10=-31, 10-11=-8, 32-82=-16

- Standard Except:
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-4=-3, 5-92=-22, 10-92=-57, 11-32=-18
Horz: 1-2=-38, 2-4=-31, 4-5=-25, 5-10=-12, 10-11=9, 32-82=28
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-4=-22, 5-92=-3, 10-92=-38, 11-32=-18
Horz: 1-2=-19, 2-4=-12, 4-5=-6, 5-10=-31, 10-11=-28, 32-82=-9
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-92=-34, 10-92=-69, 11-32=-18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-59, 2-4=-64, 5-92=-55, 10-92=-90, 11-32=-18
Horz: 1-2=-5, 2-4=-0, 4-5=-28, 5-10=-9, 10-11=8, 32-82=23
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-4=-53, 5-92=-41, 10-92=-76, 11-32=-18
Horz: 1-2=-15, 2-4=-11, 4-5=-3, 5-10=-23, 10-11=-23, 32-82=-8
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-4=-41, 5-92=-55, 10-92=-90, 11-32=-18
Horz: 1-2=-28, 2-4=-23, 4-5=-19, 5-10=-9, 10-11=7, 32-82=21
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-50, 2-4=-55, 5-92=-41, 10-92=-76, 11-32=-18
Horz: 1-2=-14, 2-4=-9, 4-5=-4, 5-10=-23, 10-11=-21, 32-82=-7
- 23) Dead-Drage LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=106, 5-6=-26, 6-92=-25, 10-92=-60, 11-32=-18
Horz: 2-4=-560, 5-6=9315, 6-89=8960, 7-89=8960, 7-8=8961, 8-91=8960, 91-92=8961, 10-92=8960
Drag: 4-5=280, 11-30=-366
- 24) Dead-Drage LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-174, 5-6=-42, 6-92=-43, 10-92=-78, 11-32=-18
Horz: 2-4=-560, 5-6=9315, 6-89=-8960, 7-89=-8960, 7-8=-8961, 8-91=-8960, 91-92=-8961, 10-92=-8960
Drag: 4-5=280, 11-30=366
- 25) 0.6 Dead-Drage LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-20, 2-4=120, 5-6=-12, 6-92=-12, 10-92=-33, 11-32=-11
Horz: 2-4=-560, 5-6=9315, 6-89=8960, 7-89=8960, 7-8=8961, 8-91=8960, 91-92=8961, 10-92=8960
Drag: 4-5=280, 11-30=-366
- 26) 0.6 Dead-Drage LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-20, 2-4=-160, 5-6=-29, 6-92=-29, 10-92=-50, 11-32=-11
Horz: 2-4=-560, 5-6=9315, 6-89=-8960, 7-89=-8960, 7-8=-8961, 8-91=-8960, 91-92=-8961, 10-92=-8960
Drag: 4-5=280, 11-30=366
- 27) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-4=-74, 5-92=-34, 10-92=-69, 11-32=-18
- 28) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-92=-74, 10-92=-109, 11-32=-18
- 29) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-4=-64, 5-92=-34, 10-92=-69, 11-32=-18
- 30) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-92=-64, 10-92=-109, 11-32=-18
- 31) F1&F2 Anchor Check: Lumber Inc
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-92=-64(F)
Concentrated Loads (lb)
Horz: 30=-1875(F), 5=5000(F)
- 32) F3 Left&F4 Anchor Check: Lumber Inc
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-92=-64(F)
Concentrated Loads (lb)
Vert: 87=1050(F)
Horz: 4=-300(F)

46) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-92=34, 10-92=-69, 11-32=-18
Concentrated Loads (lb)
Vert: 9=306

-2-0-0 5-10-0 8-4-0 12-7-5 18-7-7 25-5-6 31-10-13 35-10-4 38-10-6 41-10-0
2-0-0 5-10-0 2-6-0 4-3-5 6-0-2 6-9-15 6-5-7 3-11-7 3-0-2 2-11-10

Scale = 1:78.4
Camber = 1/4 in



PROVIDE HARDWARE PER CONDITION 1E AND ADDITIONAL 'HGA10KT'. PROVIDE ADDITIONAL 2x x 2' -0" VERTICAL SCAB TO VERTICAL MEMBER W/ 2 ROWS OF 10d AT 4" O.C.

5-8-2 5-10-0 15-8-0 22-9-5 29-5-8 35-10-4 36-0-2 41-10-0
5-8-2 0-1-14 7-4-0 7-1-5 6-8-3 6-4-12 0-1-14 5-9-14
2-6-0

Plate Offsets (X,Y)-- [2:0-4-9,0-3-0], [5:0-9-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.74	Vert(LL) -0.08	20	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL 1.25	BC 0.48	Vert(CT) -0.31	18-20	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.95	Horz(CT) 0.07	15	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014	Matrix-MSH						
							Weight: 232 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G *Except*
T2,T3: 2x4 DF No.1&Btr G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G *Except*
W7,W1: 2x6 DF No.2 G, W4,W6,W5,W2: 2x4 DF No.2 G

BRACING-

TOP CHORD
Structural wood sheathing directly applied or 3-8-2 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS
1 Row at midpt. 3-22, 2-22

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 0-5-8 except (It-length) 14=Mechanical.

(lb) - Max Horz
22=-3125(LC 27)
Max Uplift
All uplift 100 lb or less at joint(s) except 14=-689(LC 27),
22=-389(LC 9), 15=-139(LC 9), 25=-1472(LC 27)
Max Grav
All reactions 250 lb or less at joint(s) 14 except
22=2426(LC 1), 15=2962(LC 1), 25=324(LC 28)

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

TOP CHORD
2-26=-299/1838, 26-27=-275/1870, 27-28=-272/1875,
3-28=-269/1910, 3-29=-345/323, 4-29=-316/350, 5-21=-79/1012,
5-30=-321/1178, 4-30=-321/128, 5-31=-1832/757,
6-31=-1830/760, 6-32=-2081/169, 7-32=-2078/171,
7-33=-1536/157, 8-33=-1528/157, 8-9=-1522/159, 9-34=-407/41,
10-34=-394/43, 10-35=-263/1646, 11-35=-261/1658,
11-36=-259/1647, 12-36=-255/1656, 13-14=-397/0
BOT CHORD
21-22=-769/69, 20-21=-259/2097, 19-20=-335/1927,
18-19=-335/1927, 17-18=-236/1309, 16-17=-236/1309,
15-16=-373/91, 14-15=-655/127
WEBS
3-22=-3048/272, 3-5=-191/2641, 5-22=-352/2216,
6-21=-1783/252, 6-20=-27/723, 7-20=-504/213,
7-18=-610/124, 9-18=0/626, 9-16=-1175/255,
10-15=-1897/220, 11-15=-564/0, 12-14=-182/1079, 2-22=-1709/345, 10-16=-110/1039,
12-15=-1559/171, 2-25=-328/1497

WEBS

3-22=-3048/272, 3-5=-191/2641, 5-22=-352/2216,
6-21=-1783/252, 6-20=-27/723, 7-20=-504/213,
7-18=-610/124, 9-18=0/626, 9-16=-1175/255,
10-15=-1897/220, 11-15=-564/0, 12-14=-182/1079,
2-22=-1709/345, 10-16=-110/1039, 12-15=-1559/171,
2-25=-328/1497

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCCL=10.2psf; BCCL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 2-2-2, Interior(1) 2-2-2 to 41-8-4 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
- 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) Bearing at joint(s) 25 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 8) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 9) This truss has been designed for a maximum dead load of 6.0lb dead located at all mid panels and nonconcurrent with any other live loads.
- 10) This truss has large uplift reaction(s) required to secure truss against upward movement. Designer must provide for uplift reactions indicated.
- 11) Hanger(s) or other connection device required to secure truss against upward movement. Designer must provide for uplift reactions indicated.
- 12) This truss is designed for a creep factor of 1.0. Designer must provide for creep factor indicated.
- 13) In the LOAD CASE(S) section, loads are designated as front (F) or back (B).

LOAD CASE(S)

Standard Except:

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-4=-74, 5-10=-74, 10-12=-109, 14-23=-18, 12-13=-109
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-4=-64, 5-10=-64, 10-12=-99, 14-23=-18, 12-13=-99
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-10=-34, 10-12=-69, 14-23=-38, 12-13=-69
- 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=57, 2-26=28, 4-26=14, 5-10=18, 10-12=-17, 14-23=-11, 12-13=-17
Horz: 1-2=-77, 2-26=-48, 4-26=-34, 4-5=12, 5-12=-38, 13-14=34, 23-24=18, 12-13=38
- 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=8, 2-28=14, 4-28=28, 5-10=18, 10-12=-17, 14-23=-11, 12-13=-10
Horz: 1-2=-28, 2-28=-34, 4-28=-48, 4-5=-41, 5-12=-38, 13-14=-18, 23-24=-34, 12-13=45
- 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=-23, 2-4=-51, 5-10=-47, 10-12=-82, 14-23=-18, 12-13=-82
Horz: 1-2=-11, 2-4=-17, 4-5=-15, 5-12=13, 13-14=-31, 23-24=-22, 12-13=-13
- 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=-45, 2-4=-51, 5-10=-47, 10-12=-82, 14-23=-18, 12-13=-82
Horz: 1-2=11, 2-4=-17, 4-5=37, 5-12=13, 13-14=22, 23-24=31, 12-13=-13
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-4=-7, 5-10=5, 10-12=-30, 14-23=-11, 12-13=-30
Horz: 1-2=-28, 2-4=-13, 4-5=12, 5-12=-25, 13-14=23, 23-24=18, 12-13=25
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-4=6, 5-10=23, 10-12=-12, 14-23=-11, 12-13=-12
Horz: 1-2=-21, 2-4=-27, 4-5=-29, 5-12=-44, 13-14=-18, 23-24=-23, 12-13=44
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-4=-34, 5-10=-22, 10-12=-57, 14-23=-18, 12-13=-57
Horz: 1-2=-7, 2-4=0, 4-5=37, 5-12=12, 13-14=11, 23-24=31, 12-13=12
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-4=-20, 5-10=3, 10-12=-38, 14-23=-18, 12-13=-38
Horz: 1-2=-21, 2-4=-14, 4-5=-4, 5-12=-31, 13-14=-31, 23-24=-11, 12-13=31
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-4=23, 5-10=5, 10-12=-30, 14-23=-11, 12-13=-30
Horz: 1-2=-38, 2-4=-44, 4-5=-50, 5-12=-25, 13-14=21, 23-24=15, 12-13=25
- 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, 2-4=5, 5-10=23, 10-12=-12, 14-23=-11, 12-13=-12
Horz: 1-2=-19, 2-4=-25, 4-5=-31, 5-12=-44, 13-14=-15, 23-24=-21, 12-13=44
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-4=10, 5-10=-1, 10-12=-36, 14-23=-11, 12-13=-36
Horz: 1-2=-24, 2-4=-31, 4-5=-37, 5-12=-19, 13-14=16, 23-24=8, 12-13=19
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-4=-1, 5-10=10, 10-12=-25, 14-23=-11, 12-13=-25
Horz: 1-2=-13, 2-4=-19, 4-5=-26, 5-12=-31, 13-14=-8, 23-24=-16, 12-13=31
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-4=-3, 5-10=-22, 10-12=-57, 14-23=-18, 12-13=-57
Horz: 1-2=-38, 2-4=-31, 4-5=-25, 5-12=-12, 13-14=9, 23-24=28, 12-13=12
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-4=-22, 5-10=-3, 10-12=-38, 14-23=-18, 12-13=-38
Horz: 1-2=-19, 2-4=-12, 4-5=-6, 5-12=-31, 13-14=-28, 23-24=-9, 12-13=31
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Pli. metal=0.90

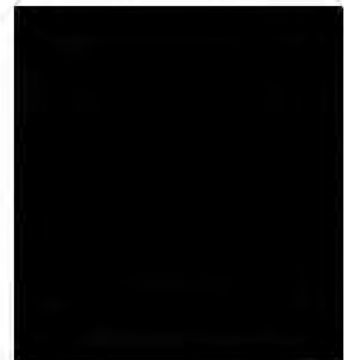
Continued on page 3

Standard Except:

- Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-10=-34, 10-12=-69, 14-23=-18, 12-13=-69
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-59, 2-4=-64, 5-10=-55, 10-12=-90, 14-23=-18, 12-13=-90
Horz: 1-2=-5, 2-4=0, 4-5=28, 5-12=-9, 13-14=8, 23-24=23, 12-13=9
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-4=-53, 5-10=-41, 10-12=-76, 14-23=-18, 12-13=-76
Horz: 1-2=-15, 2-4=-11, 4-5=-3, 5-12=-23, 13-14=-23, 23-24=-8, 12-13=23
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-4=-41, 5-10=-55, 10-12=-80, 14-23=-18, 12-13=-90
Horz: 1-2=-28, 2-4=-23, 4-5=-19, 5-12=-9, 13-14=-7, 23-24=21, 12-13=9
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-50, 2-4=-55, 5-10=-41, 10-12=-76, 14-23=-18, 12-13=-76
Horz: 1-2=-14, 2-4=-9, 4-5=-4, 5-12=-23, 13-14=-21, 23-24=-7, 12-13=23
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-4=-74, 5-10=-34, 10-12=-69, 14-23=-18, 12-13=-69
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-10=-74, 10-12=-109, 14-23=-18, 12-13=-109
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-4=-64, 5-10=-34, 10-12=-69, 14-23=-18, 12-13=-69
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-10=-64, 10-12=-99, 14-23=-18, 12-13=-99
- 27) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-10=-34(F), 10-12=-69(F=-34), 14-23=-18(F), 12-13=-69(F=-34)
Concentrated Loads (lb)
Horz: 21=-1875(F), 5=5000(F)
- 28) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-10=-34(F), 10-12=-69(F=-34), 14-23=-18(F), 12-13=-69(F=-34)
Concentrated Loads (lb)
Vert: 30=1050(F)
Horz: 4=-300(F)
- 29) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-10=-34(F), 10-12=-69(F=-34), 14-23=-18(F), 12-13=-69(F=-34)
Concentrated Loads (lb)
Vert: 30=1050(F)
Horz: 4=300(F)
- 30) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-10=-34, 10-12=-69, 14-23=-18, 12-13=-69
Concentrated Loads (lb)
Vert: 2=-306
- 31) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-10=-34, 10-12=-69, 14-23=-18, 12-13=-69
Concentrated Loads (lb)
Vert: 27=-306
- 32) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-10=-34, 10-12=-69, 14-23=-18, 12-13=-69
Concentrated Loads (lb)
Vert: 29=-306
- 33) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-10=-34, 10-12=-69, 14-23=-18, 12-13=-69
Concentrated Loads (lb)
Vert: 4=-306
- 34) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-10=-34, 10-12=-69, 14-23=-18, 12-13=-69
Concentrated Loads (lb)
Vert: 31=-306
- 35) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-10=-34, 10-12=-69, 14-23=-18, 12-13=-69
Concentrated Loads (lb)
Vert: 31=-306

LOAD CASE(S)

- Standard
- Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-10=-34, 10-12=-69, 14-23=-18, 12-13=-69
Concentrated Loads (lb)
Vert: 32=-306
- 36) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-10=-34, 10-12=-69, 14-23=-18, 12-13=-69
Concentrated Loads (lb)
Vert: 33=-306
- 37) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-10=-34, 10-12=-69, 14-23=-18, 12-13=-69
Concentrated Loads (lb)
Vert: 34=-306
- 38) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-10=-34, 10-12=-69, 14-23=-18, 12-13=-69
Concentrated Loads (lb)
Vert: 35=-306
- 39) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-10=-34, 10-12=-69, 14-23=-18, 12-13=-69
Concentrated Loads (lb)
Vert: 36=-306
- 40) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-10=-34, 10-12=-69, 14-23=-18, 12-13=-69
Concentrated Loads (lb)
Vert: 37=-306
- 41) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-10=-34, 10-12=-69, 14-23=-18, 12-13=-69
Concentrated Loads (lb)
Vert: 13=-306
- 42) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-10=-34, 10-12=-69, 14-23=-18, 12-13=-69
Concentrated Loads (lb)
Vert: 3=-306
- 43) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-10=-34, 10-12=-69, 14-23=-18, 12-13=-69
Concentrated Loads (lb)
Vert: 6=-306
- 44) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-10=-34, 10-12=-69, 14-23=-18, 12-13=-69
Concentrated Loads (lb)
Vert: 7=-306
- 45) 16th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-10=-34, 10-12=-69, 14-23=-18, 12-13=-69
Concentrated Loads (lb)
Vert: 9=-306
- 46) 17th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-10=-34, 10-12=-69, 14-23=-18, 12-13=-69
Concentrated Loads (lb)
Vert: 10=-306
- 47) 18th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-10=-34, 10-12=-69, 14-23=-18, 12-13=-69
Concentrated Loads (lb)
Vert: 11=-306
- 48) 19th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-10=-34, 10-12=-69, 14-23=-18, 12-13=-69
Concentrated Loads (lb)
Vert: 12=-306



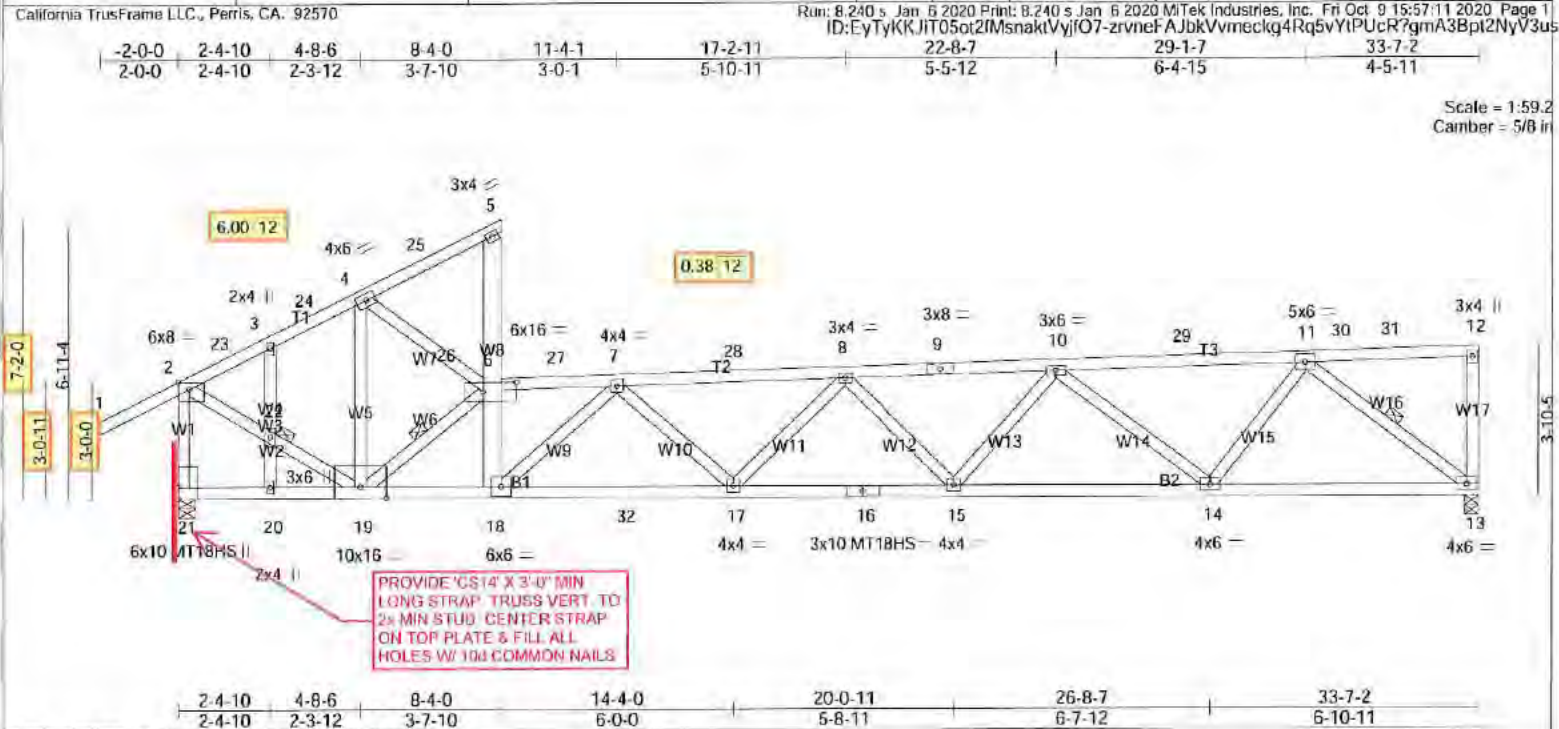


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [6:0-10-4,0-3-0]											
LOADING (psf)		SPACING- 2-0-0		CSI		DEFL. in (loc) l/dell L/d		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.94	Vert(LL)	0.26 17-18	>999	240	MT20	220/195
TCDL	17.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	0.83 15-17	>479	180	MT18HS	220/195
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.25 13	n/a	n/a		
BCDL	9.0	Code IBC2015/TPI2014		Matrix-MSH						Weight: 192 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G *Except*
T1: 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G *Except*
WB: 2x6 DF No.2 G, W2: 2x4 DF No.2 G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 2-4-8 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied.
WEBS
1 Row at midpt 6-19, 11-13
JOINTS
1 Brace at Jt(s): 22

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
13 = 1641/0-4-0 (min. 0-1-12)
21 = 1702/0-5-8 (min. 0-3-15)
Max Horz
21 = -3125(LC 35)
Max Uplift
13 = -124(LC 9)
21 = -2182(LC 27)
Max Grav
13 = 1641(LC 1)
21 = 3698(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-23=-3589/2305, 3-23=-2975/1777, 3-24=-2859/1615,
4-24=-2263/1088, 4-25=-1107/995, 5-25=-319/397,
6-18=-435/852, 6-26=-1086/1145, 5-26=-783/732,
6-27=-5833/1849, 7-27=-5830/1098, 7-28=-5546/1732,
8-28=-4890/971, 8-9=-4743/1165, 9-10=-4044/544,
10-29=-3424/1117, 11-29=-2590/288, 11-30=-1143/1107,
30-31=-578/548, 12-31=-488/464, 12-13=-431/0,
2-21=-3634/2177
BOT CHORD
20-21=-1153/3119, 19-20=-2341/3119, 18-19=-2591/5809,
18-32=-2147/5752, 17-32=-820/5247, 16-17=-1400/5230,
15-16=-733/4459, 14-15=-943/4144, 13-14=-629/2270
WEBS
4-19=-466/1113, 4-6=-1396/360, 6-19=-4804/2242,

WEBS
4-19=-466/1113, 4-6=-1396/360, 6-19=-4804/2242,
7-18=-1134/755, 7-17=-585/866, 8-17=-679/646,
8-15=-854/473, 10-15=-365/949, 10-14=-1397/307,
11-14=-136/1234, 2-22=-2395/3662, 19-22=-2425/3695,
11-13=-2250/306

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-4-5, Interior(1) 1-4-5 to 33-5-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are MT20 plates unless otherwise indicated.
4) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) A plate rating reduction of 20% has been applied for the green lumber members.
7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
9) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and a nonconcurrent with any other live loads.
10) This truss has been designed for a top chord live load of 10.0 psf nonconcurrent with any other live loads. DOL=(1.33) Plate grip DOL=(1.33) Connected to bottom chord from 0-0-0 to 33-7-2 for 259.0 plf.
11) This truss has been designed for a top chord live load of 10.0 psf nonconcurrent with any other live loads. DOL=(1.33) Plate grip DOL=(1.33) Connected to bottom chord from 0-0-0 to 11-6-0 for 513.0 plf.
12) Hanger(s) or other connection device(s) supporting concentrated load(s) 1875 lb left at 8-1-4. Such connection device(s) is the responsibility of the designer.
13) This truss is designed for a creep factor of 1.0. Vertical deflection shall be limited to L/240. Vertical(CT) deflection per ANSI/TPI 1.
14) In the LOAD CASE(S) section, loads are indicated as front (F) or back (B).

LOAD CASE(S)

Standard Except:

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-30=-74, 12-30=-109, 13-21=-18
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-30=-64, 12-30=-99, 13-21=-18
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-30=-34, 12-30=-69, 13-21=-38
- 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=57, 2-23=28, 5-23=14, 6-30=18, 12-30=-17, 13-21=-11
Horz: 1-2=-77, 2-23=-48, 5-23=-34, 5-6=13, 6-12=-38, 12-13=35, 2-21=19
- 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=8, 2-4=14, 4-5=28, 6-30=18, 12-30=-10, 13-21=-11
Horz: 1-2=-28, 2-4=-34, 4-5=-48, 5-6=-41, 6-30=-38, 12-30=-45, 12-13=-19, 2-21=-35
- 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=-23, 2-5=-51, 6-30=-47, 12-30=-82, 13-21=-18
Horz: 1-2=-11, 2-5=17, 5-6=-16, 6-12=13, 12-13=-32, 2-21=-23
- 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=-45, 2-5=-51, 6-30=-47, 12-30=-82, 13-21=-18
Horz: 1-2=11, 2-5=17, 5-6=38, 6-12=13, 12-13=23, 2-21=32
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-5=-7, 6-30=5, 12-30=-30, 13-21=-11
Horz: 1-2=-28, 2-5=-13, 5-6=12, 6-12=-25, 12-13=23, 2-21=18
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-5=6, 6-30=23, 12-30=-12, 13-21=-11
Horz: 1-2=21, 2-5=-27, 5-6=-29, 6-12=-44, 12-13=-18, 2-21=-23
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-5=-34, 6-30=22, 12-30=-57, 13-21=-18
Horz: 1-2=-7, 2-5=-0, 5-6=37, 6-12=-12, 12-13=11, 2-21=31
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-5=-20, 6-30=3, 12-30=-38, 13-21=-18
Horz: 1-2=-21, 2-5=-14, 5-6=-4, 6-12=-31, 12-13=-31, 2-21=-11
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-5=23, 6-30=5, 12-30=-30, 13-21=-11
Horz: 1-2=38, 2-5=-44, 5-6=-50, 6-12=-25, 12-13=21, 2-21=15
- 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, 2-5=5, 6-30=23, 12-30=-12, 13-21=-11
Horz: 1-2=-19, 2-5=-25, 5-6=-31, 6-12=-44, 12-13=-15, 2-21=-21
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=10, 6-30=-1, 12-30=-36, 13-21=-11
Horz: 1-2=-24, 2-5=-31, 5-6=-37, 6-12=-19, 12-13=16, 2-21=8
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-5=-1, 6-30=10, 12-30=-25, 13-21=-11
Horz: 1-2=-13, 2-5=-19, 5-6=-26, 6-12=-31, 12-13=-8, 2-21=-16
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=-3, 6-30=-22, 12-30=-57, 13-21=-18
Horz: 1-2=-38, 2-5=-31, 5-6=-25, 6-12=-12, 12-13=9, 2-21=28
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-5=-22, 6-30=-3, 12-30=-38, 13-21=-18
Horz: 1-2=-19, 2-5=-12, 5-6=-6, 6-12=-31, 12-13=-28, 2-21=-9
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)

Continued on page 3

Standard Except:

- Vert: 1-2=-34, 2-5=-34, 6-30=-34, 12-30=-69, 13-21=-18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-59, 2-5=-64, 6-30=-55, 12-30=-90, 13-21=-18
Horz: 1-2=-5, 2-5=-0, 5-6=28, 6-12=-9, 12-13=8, 2-21=23
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-5=-53, 6-30=-41, 12-30=-76, 13-21=-18
Horz: 1-2=-15, 2-5=11, 5-6=-3, 6-12=-23, 12-13=-23, 2-21=-8
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-5=-41, 6-30=-55, 12-30=-90, 13-21=-18
Horz: 1-2=-28, 2-5=-23, 5-6=-19, 6-12=-9, 12-13=7, 2-21=21
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-50, 2-5=-55, 6-30=-41, 12-30=-76, 13-21=-18
Horz: 1-2=14, 2-5=-9, 5-6=-4, 6-12=-23, 12-13=21, 2-21=-7
- 23) Dead-Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-95, 6-7=-12, 7-30=-26, 12-30=-61, 13-21=-18
Horz: 2-5=518, 6-7=3061, 7-28=8287, 8-28=8287, 8-11=8287, 11-30=8287, 30-31=8287, 12-31=8287
Drag: 5-6=259, 13-21=-259
- 24) Dead-Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-163, 6-7=-56, 7-30=-42, 12-30=-77, 13-21=-18
Horz: 2-5=-518, 6-7=-3061, 7-28=-8287, 8-28=-8287, 8-29=-8287, 11-29=-8287, 11-30=-8287, 30-31=-8287, 12-31=-8287
Drag: 5-6=259, 13-21=259
- 25) Dead-Drag LC#2 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=34, 2-5=54, 6-7=-19, 7-30=-29, 12-30=-64, 13-21=-18
Horz: 2-5=351, 6-7=2076, 7-28=5620, 8-28=5620, 8-11=5620, 11-30=5620, 30-31=5620, 12-31=5620
Drag: 5-6=176, 21-32=-513
- 26) Dead-Drag LC#2 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-122, 6-7=-49, 7-30=-39, 12-30=-74, 13-21=-18
Horz: 2-5=-351, 6-7=-2076, 7-28=-5620, 8-28=-5620, 8-11=-5620, 11-30=-5620, 30-31=-5620, 12-31=-5620
Drag: 5-6=-176, 21-32=513
- 27) 0.6 Dead-Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-20, 2-5=109, 6-7=2, 7-30=-12, 12-30=-33, 13-21=-11
Horz: 2-5=518, 6-7=3061, 7-28=8287, 8-28=8287, 8-11=8287, 11-30=8287, 30-31=8287, 12-31=8287
Drag: 5-6=259, 13-21=-259
- 28) 0.6 Dead-Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-20, 2-5=-150, 6-7=-42, 7-30=-28, 12-30=-49, 13-21=-11
Horz: 2-5=-518, 6-7=-3061, 7-28=-8287, 8-28=-8287, 8-11=-8287, 11-30=-8287, 30-31=-8287, 12-31=-8287
Drag: 5-6=-259, 13-21=259
- 29) 0.6 Dead-Drag LC#2 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-20, 2-5=67, 6-7=-6, 7-30=-15, 12-30=-36, 13-21=-11
Horz: 2-5=351, 6-7=2076, 7-28=5620, 8-28=5620, 8-11=5620, 11-30=5620, 30-31=5620, 12-31=5620
Drag: 5-6=176, 21-32=-513
- 30) 0.6 Dead-Drag LC#2 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-20, 2-5=-108, 6-7=-35, 7-30=-26, 12-30=-47, 13-21=-11
Horz: 2-5=-351, 6-7=-2076, 7-28=-5620, 8-28=-5620, 8-11=-5620, 11-30=-5620, 30-31=-5620, 12-31=-5620
Drag: 5-6=-176, 21-32=513
- 31) 1st Dead + Roof Live (unbalanced)
Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-30=-34, 12-30=-109, 13-21=-18
- 32) 2nd Dead + Roof Live (unbalanced)
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-30=-34, 12-30=-69, 13-21=-18
- 33) 3rd Dead + 0.75 Roof Live (unbalanced)
Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-30=-64, 12-30=-99, 13-21=-18
- 34) 4th Dead + 0.75 Roof Live (unbalanced)
Increase=1.25
Uniform Loads (plf)

LOAD CASE(S)

Standard Except:

- Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-30=-64, 12-30=-99, 13-21=-18
- 35) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-30=-34(F), 12-30=-69(F=-34), 13-21=-18(F)
Concentrated Loads (lb)
Horz: 18=-1875(F), 6=5000(F)
- 36) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-30=-34(F), 12-30=-69(F=-34), 13-21=-18(F)
Concentrated Loads (lb)
Vert: 26=1050(F)
Horz: 5=-300(F)
- 37) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-30=-34(F), 12-30=-69(F=-34), 13-21=-18(F)
Concentrated Loads (lb)
Vert: 26=1050(F)
Horz: 5=-300(F)
- 38) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-30=-34, 12-30=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 2=-306
- 39) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-30=-34, 12-30=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 23=-306
- 40) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-30=-34, 12-30=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 24=-306
- 41) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-30=-34, 12-30=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 25=-306
- 42) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-30=-34, 12-30=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 5=-306
- 43) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-30=-34, 12-30=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 27=-306
- 44) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-30=-34, 12-30=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 28=-306
- 45) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-30=-34, 12-30=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 9=-306
- 46) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-30=-34, 12-30=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 29=-306
- 47) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-30=-34, 12-30=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 31=-306
- 48) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-30=-34, 12-30=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 12=-306
- 49) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-30=-34, 12-30=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 3=-306
- 50) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-30=-34, 12-30=-69, 13-21=-18

Standard

- Concentrated Loads (lb)
Vert: 4=-306
- 51) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-30=-34, 12-30=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 7=-306
- 52) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-30=-34, 12-30=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 8=-306
- 53) 16th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-30=-34, 12-30=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 10=-306
- 54) 17th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-30=-34, 12-30=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 11=-306



LUMBER-
TOP CHORD 2x4 DF No.1&Blr G *Except*
T1: 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G *Except*
W6: 2x6 DF No.2 G, W1: 2x4 DF No.2 G

TOP CHORD	
Structural wood sheathing directly applied or 4-0-3 oc purlins, except end verticals.	
BOT CHORD	
Rigid ceiling directly applied or 6-0-0 oc bracing.	
WEBS	
1 Row at midpt	3-18, 2-18

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

12	=	1220/0-4-0 (min. 0-1-8)
18	=	3081/6-1-0 (min. 0-2-4)
19	=	-958/6-1-0 (min. 0-2-4)

Max Horiz		
19	=	-3125(LC 27)
Max Uplift		
12	=	-57(LC 9)
18	=	-491(LC 9)
19	=	-2056(LC 27)

Max Grav	
12	= 1220(LC 1)
18	= 3081(LC 1)
19	= 385(LC 13)

TOP CHORD
2-20=349/2231, 20-21=329/2257, 3-21=324/2293,
3-22=353/314, 4-22=322/361, 5-17=102/1214,
5-23=350/1146, 4-23=350/96, 5-24=1820/841,
6-24=1817/849, 6-25=2233/204, 7-25=2230/206,
7-8=2137/259, 8-9=2134/262, 9-26=1639/138,
10-26=1631/140, 11-12=430/0, 2-19=359/2077

BOT CHORD
18-19=-511/3108, 17-18=-839/58, 16-17=-273/2071,
15-16=-378/2271, 14-15=-378/2271, 13-14=-357/2128,
12-13=-179/1256

WEBS
3-18=-2571/257, 3-5=-195/2438, 5-18=-813/1421.

3-18=-2571/257, 3-5=-195/2438, 5-18=-813/1421,
6-17=-1715/236, 6-16=-38/981, 7-16=-793/126,
7-14=-203/309, 9-14=-155/331, 9-13=-684/193,
10-13=-49/686, 2-18=-2341/474, 10-12=-1575/198

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDF=10.2pst; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable and zone and C-C Exterior(2) -2-0-0 to 1-4-5, Interior(1) 1-4-5 to 33-5-6 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) 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) This truss is designed in accordance with the 2015 International Building Code

7) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

8) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

9) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement. [REDACTED] designer must provide for uplift reactions indicated.

10) Hanger(s) or other connection device(s) supporting the concentrated load(s) 1875 lb left at 8'-0" from the left end of such connection device(s) is the responsible party.

11) This truss is designed for a creep Δ (the
Vert(Cr) deflection per ANSI/TPI 1.

12) In the LOAD CASE(S) section, load front (E) or back (B).

Standard Except:
1) Dead + Roof Live (balanced): Lumb
Uniform Loads (plf)

LOAD CASE(S)

- Standard Except:
Uniform Loads (plf)
Vert: 1-2=-74, 2-4=-74, 5-27=-74, 11-27=-109, 12-19=-18
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-4=-64, 5-27=-64, 11-27=-99, 12-19=-18
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-38
- 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=57, 2-20=28, 4-20=14, 5-27=18, 11-27=-17, 12-19=-11
Horz: 1-2=-77, 2-20=-48, 4-20=-34, 4-5=13, 5-11=-38, 11-12=35, 2-19=19
- 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=8, 2-3=14, 3-4=28, 5-27=18, 11-27=-10, 12-19=-11
Horz: 1-2=-28, 2-3=-34, 3-4=-48, 4-5=41, 5-27=-38, 11-27=-45, 11-12=-19, 2-19=-35
- 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=-23, 2-4=-51, 5-27=-47, 11-27=-82, 12-19=-18
Horz: 1-2=-11, 2-4=17, 4-5=-16, 5-11=13, 11-12=32, 2-19=-23
- 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=-45, 2-4=-51, 5-27=-47, 11-27=-82, 12-19=-18
Horz: 1-2=11, 2-4=17, 4-5=38, 5-11=13, 11-12=23, 2-19=32
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-4=-7, 5-27=5, 11-27=-30, 12-19=-11
Horz: 1-2=-28, 2-4=-13, 4-5=12, 5-11=-25, 11-12=23, 2-19=18
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-4=6, 5-27=23, 11-27=-12, 12-19=-11
Horz: 1-2=-21, 2-4=-27, 4-5=-29, 5-11=-44, 11-12=-18, 2-19=-23
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-4=-34, 5-27=-22, 11-27=-57, 12-19=-18
Horz: 1-2=-7, 2-4=0, 4-5=37, 5-11=12, 11-12=11, 2-19=31
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-4=-20, 5-27=-3, 11-27=-38, 12-19=-18
Horz: 1-2=-21, 2-4=-14, 4-5=4, 5-11=31, 11-12=31, 2-19=-11
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-4=23, 5-27=5, 11-27=-30, 12-19=-11
Horz: 1-2=-38, 2-4=-44, 4-5=-50, 5-11=-25, 11-12=21, 2-19=15
- 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, 2-4=5, 5-27=23, 11-27=-12, 12-19=-11
Horz: 1-2=-19, 2-4=-25, 4-5=-31, 5-11=-44, 11-12=-15, 2-19=-21
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-4=10, 5-27=-1, 11-27=-36, 12-19=-11
Horz: 1-2=-24, 2-4=-31, 4-5=-37, 5-11=-19, 11-12=16, 2-19=8
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-4=-1, 5-27=10, 11-27=-25, 12-19=-11
Horz: 1-2=-13, 2-4=-19, 4-5=-26, 5-11=-31, 11-12=-8, 2-19=-16
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-4=-3, 5-27=-22, 11-27=-57, 12-19=-18
Horz: 1-2=-38, 2-4=-31, 4-5=-25, 5-11=-12, 11-12=9, 2-19=28
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-4=-22, 5-27=-3, 11-27=-38, 12-19=-18
Horz: 1-2=-19, 2-4=-12, 4-5=-6, 5-11=-31, 11-12=-28, 2-19=-9
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18

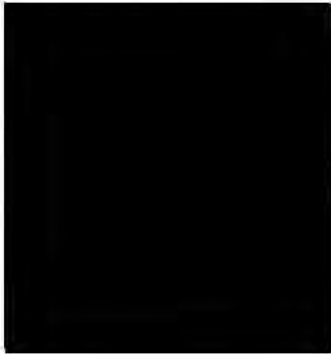
Continued on page 3

Standard Except:

- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-59, 2-4=-64, 5-27=-55, 11-27=-90, 12-19=-18
Horz: 1-2=-5, 2-4=0, 4-5=28, 5-11=-9, 11-12=8, 2-19=23
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-4=-53, 5-27=-41, 11-27=-76, 12-19=-18
Horz: 1-2=-15, 2-4=-11, 4-5=-3, 5-11=-23, 11-12=-23, 2-19=-8
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-4=-41, 5-27=-55, 11-27=-90, 12-19=-18
Horz: 1-2=-28, 2-4=-23, 4-5=-19, 5-11=-9, 11-12=7, 2-19=21
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-50, 2-4=-55, 5-27=-41, 11-27=-76, 12-19=-18
Horz: 1-2=-14, 2-4=-9, 4-5=-4, 5-11=-23, 11-12=-21, 2-19=-7
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-4=-74, 5-27=-34, 11-27=-69, 12-19=-18
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-74, 11-27=-109, 12-19=-18
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-4=-64, 5-27=-34, 11-27=-69, 12-19=-18
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-64, 11-27=-99, 12-19=-18
- 27) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-27=-34(F), 11-27=-69(F=-34), 12-19=-18(F)
Concentrated Loads (lb)
Horz: 17=-1875(F), 5=5000(F)
- 28) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-27=-34(F), 11-27=-69(F=-34), 12-19=-18(F)
Concentrated Loads (lb)
Vert: 23=1050(F)
Horz: 4=300(F)
- 29) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-27=-34(F), 11-27=-69(F=-34), 12-19=-18(F)
Concentrated Loads (lb)
Vert: 23=1050(F)
Horz: 4=300(F)
- 30) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 2=-306
- 31) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 21=-306
- 32) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 22=-306
- 33) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 4=-306
- 34) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 24=-306
- 35) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 25=-306
- 36) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

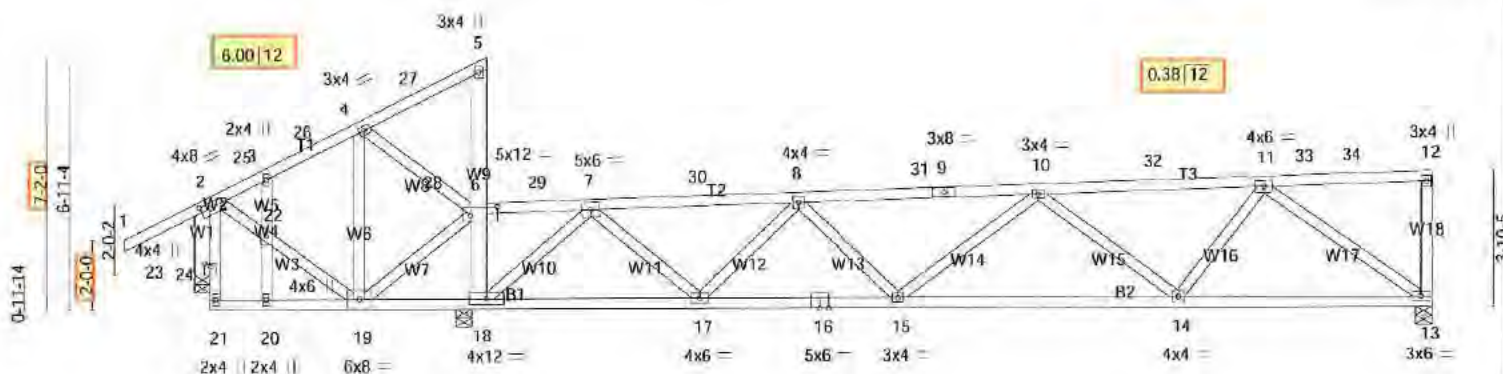
LOAD CASE(S)

- Standard
- Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
- Concentrated Loads (lb)
Vert: 8=-306
- 37) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
- Concentrated Loads (lb)
Vert: 26=-306
- 38) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
- Concentrated Loads (lb)
Vert: 28=-306
- 39) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
- Concentrated Loads (lb)
Vert: 11=-306
- 40) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
- Concentrated Loads (lb)
Vert: 3=-306
- 41) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
- Concentrated Loads (lb)
Vert: 6=-306
- 42) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
- Concentrated Loads (lb)
Vert: 7=-306
- 43) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
- Concentrated Loads (lb)
Vert: 9=-306
- 44) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-27=-34, 11-27=-69, 12-19=-18
- Concentrated Loads (lb)
Vert: 10=-306



2-0-0 2-0-10 4-8-7 8-4-0 11-3-15 17-3-1 24-1-11 30-6-12 35-4-4
2-0-0 2-0-10 2-7-13 3-7-9 2-11-15 5-11-3 6-10-9 6-5-2 4-9-8

Scale = 1/85.5
Camber = 5/16 in



2-0-10 4-8-7 7-5-8 8-4-0 14-5-2 20-1-10 28-1-11 35-4-4
2-0-10 2-7-13 2-9-1 0-10-8 6-1-2 5-8-8 8-0-1 7-2-9

Plate Offsets (X,Y)-- [2:0-3-5,0-1-12], [6:0-9-4,0-2-12], [23:0-1,0-0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.78	Vert(LL)	-0.09 14-15	>999	240	MT20	220/195
TCDL 17.0	Plate Grip DOL 1.25	BC 0.60	Vert(CT)	-0.38 14-15	>851	180		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.93	Horz(CT)	0.09 13	n/a	n/a		
BCDL 9.0	Rep Stress Incr YES	Matrix-MSH						
	Code IBC2015/TPI2014						Weight: 201 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.1&Btr G *Except*

T1: 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G *Except*

W9,W1: 2x6 DF No.2 G, W7,W2: 2x4 DF No.2 G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 2-11-15 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 3-1-8 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

18 = 2280/0-5-8 (min. 0-2-7)
13 = 1165/0-5-8 (min. 0-1-8)
24 = 8/0-5-8 (min. 0-1-8)

Max Horz

18 = -3125(LC 27)

Max Uplift

18 = -356(LC 9)

13 = -91(LC 9)

24 = -1015(LC 27)

Max Grav

18 = 2280(LC 1)

13 = 1165(LC 1)

24 = 269(LC 30)

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

TOP CHORD

2-25=-196/1160, 3-25=-184/1180, 3-26=-176/1200,

4-26=-155/1229, 4-27=-351/341, 5-27=-322/367,

6-18=-1564/854, 6-28=-359/1144, 5-28=-359/95,

6-29=-1019/1608, 7-29=-1010/1626, 7-30=-1824/142,

8-30=-1821/144, 8-31=-1981/244, 9-31=-1977/244,

9-10=-1976/245, 10-32=-1637/163, 11-32=-1630/165,

12-13=-427/0

BOT CHORD

18-19=-3894/451, 17-18=-188/1493, 16-17=-352/2008,

15-16=-352/2008, 14-15=-378/2081, 13-14=-215/1267

WEBS

2-22=-1128/217, 19-22=-1151/219, 4-19=-1393/75,

4-6=-31/1264, 6-19=-283/3521, 7-18=-2108/304,

8-17=-1070/177, 8-15=-45/432, 10-15=-299/251,

Continued on page 2

WEBS

2-22=-1128/217, 19-22=-1151/219, 4-19=-1393/75,

4-6=-31/1264, 6-19=-283/3521, 7-18=-2108/304,

7-17=-98/1299, 8-17=-1070/177, 8-15=-45/432,

10-15=-299/251, 10-14=-585/186, 11-14=-30/531,

11-13=-1545/234, 2-24=-269/1033

NOTES-

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

2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf;

BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 2-0-0 to 1-6-9, Interior(1) 1-6-9 to 35-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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) Bearing at joint(s) 24 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

8) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

9) This truss has been designed for a dead load of 10.0 psf and 6.0 lb dead located at all mid panels and nonconcurrent with any other live load.

10) Hanger(s) or other connection device(s) is the responsible for concentrated load(s) 1875 lb left at 8' from the left end of the truss.

11) This truss is designed for a creep deflection per ANSI/TPI 1.

12) In the LOAD CASE(S) section, load cases are listed as front (F) or back (B).

LOAD CASE(S)

Standard Except:

1) Dead + Roof Live (balanced); Lumber Uniform Loads (plf)

LOAD CASE(S)

Standard Except:

- Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-34=-74, 12-34=-109, 13-21=-18
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-34=-64, 12-34=-99, 13-21=-18
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-38
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=57, 2-25=28, 5-25=14, 6-34=18, 12-34=-17, 13-21=-11
Horz: 1-2=-77, 2-25=48, 5-25=34, 5-6=12, 6-12=38, 12-13=35, 21-23=19
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=8, 2-4=14, 4-5=28, 6-33=18, 33-34=25, 12-34=-10, 13-21=-11
Horz: 1-2=-28, 2-4=-34, 4-5=48, 5-6=41, 6-33=38, 12-33=45, 12-13=-19, 21-23=35
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=-23, 2-5=-51, 6-34=-47, 12-34=-82, 13-21=-18
Horz: 1-2=-11, 2-5=17, 5-6=-16, 6-12=13, 12-13=-31, 21-23=-22
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=45, 2-5=-51, 6-34=-47, 12-34=-82, 13-21=-18
Horz: 1-2=11, 2-5=17, 5-6=38, 6-12=13, 12-13=22, 21-23=31
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-5=7, 6-34=5, 12-34=-30, 13-21=-11
Horz: 1-2=-28, 2-5=-13, 5-6=12, 6-12=-25, 12-13=23, 21-23=18
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-5=6, 6-34=23, 12-34=-12, 13-21=-11
Horz: 1-2=-21, 2-5=-27, 5-6=-29, 6-12=-44, 12-13=-18, 21-23=-23
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-5=-34, 6-34=-22, 12-34=-57, 13-21=-18
Horz: 1-2=-7, 2-5=0, 5-6=37, 6-12=12, 12-13=11, 21-23=31
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-5=-20, 6-34=-3, 12-34=-38, 13-21=-18
Horz: 1-2=-21, 2-5=-14, 5-6=-4, 6-12=-31, 12-13=-31, 21-23=-11
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-5=23, 6-34=5, 12-34=-30, 13-21=-11
Horz: 1-2=-38, 2-5=-44, 5-6=-50, 6-12=-25, 12-13=21, 21-23=15
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, 2-5=5, 6-34=23, 12-34=-12, 13-21=-11
Horz: 1-2=-19, 2-5=-25, 5-6=-31, 6-12=-44, 12-13=-15, 21-23=-21
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=10, 6-34=-1, 12-34=-36, 13-21=-11
Horz: 1-2=-24, 2-5=-31, 5-6=-37, 6-12=-19, 12-13=16, 21-23=8
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-5=-1, 6-34=10, 12-34=-25, 13-21=-11
Horz: 1-2=-13, 2-5=-19, 5-6=-26, 6-12=-31, 12-13=-8, 21-23=-16
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=-3, 6-34=-22, 12-34=-57, 13-21=-18
Horz: 1-2=-38, 2-5=-31, 5-6=-25, 6-12=-12, 12-13=9, 21-23=28
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-5=-22, 6-34=-3, 12-34=-38, 13-21=-18
Horz: 1-2=-19, 2-5=-12, 5-6=-6, 6-12=-31, 12-13=-28, 21-23=-9
18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18

Continued on page 3

Standard Except:

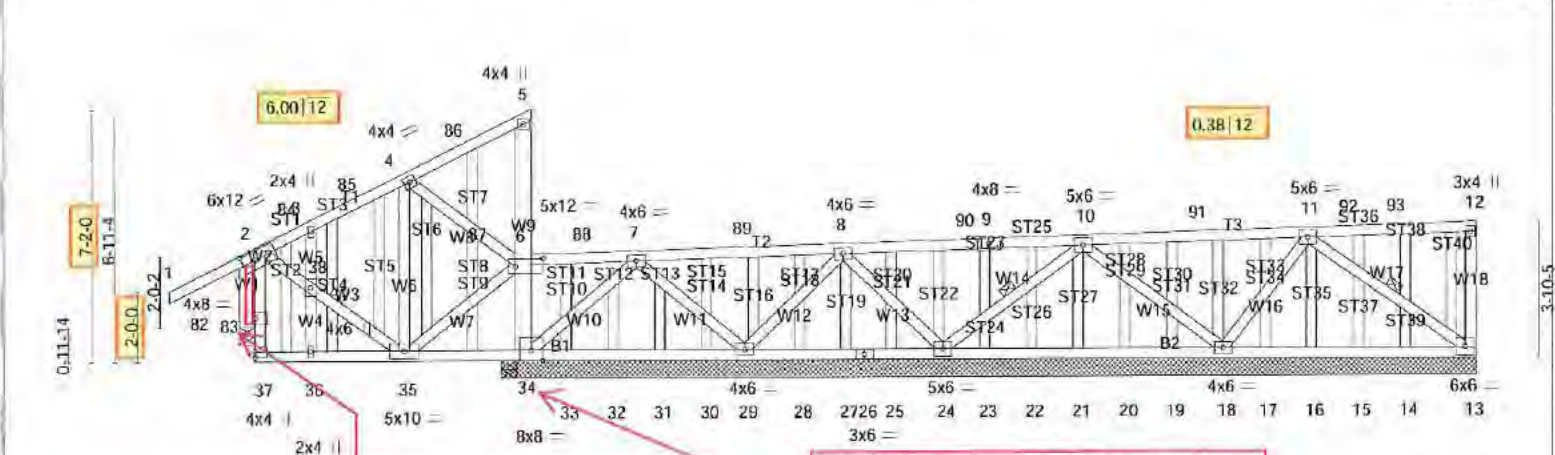
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-59, 2-5=-64, 6-34=-55, 12-34=-90, 13-21=-18
Horz: 1-2=-5, 2-5=0, 5-6=-28, 6-12=-9, 12-13=8, 21-23=23
20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-5=-53, 6-34=-41, 12-34=-76, 13-21=-18
Horz: 1-2=-15, 2-5=-11, 5-6=-3, 6-12=-23, 12-13=-23, 21-23=-8
21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-5=-41, 6-34=-55, 12-34=-90, 13-21=-18
Horz: 1-2=-28, 2-5=-23, 5-6=-19, 6-12=-9, 12-13=7, 21-23=21
22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-50, 2-5=-55, 6-34=-41, 12-34=-76, 13-21=-18
Horz: 1-2=-14, 2-5=-9, 5-6=-4, 6-12=-23, 12-13=-21, 21-23=-7
23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-34=-34, 12-34=-69, 13-21=-18
24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-74, 12-34=-109, 13-21=-18
25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-34=-34, 12-34=-69, 13-21=-18
26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-64, 12-34=-99, 13-21=-18
27) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-34=-34(F), 12-34=-69(F=-34), 13-21=-18(F)
Concentrated Loads (lb)
Horz: 18=-1875(F), 6=5000(F)
28) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-34=-34(F), 12-34=-69(F=-34), 13-21=-18(F)
Concentrated Loads (lb)
Vert: 28=1050(F)
Horz: 5=300(F)
29) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-34=-34(F), 12-34=-69(F=-34), 13-21=-18(F)
Concentrated Loads (lb)
Vert: 28=1050(F)
Horz: 5=300(F)
30) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 2=306
31) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 25=306
32) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 26=306
33) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 27=306
34) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 5=306
35) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 29=306
36) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

LOAD CASE(S)

Standard

- Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
- Concentrated Loads (lb)
Vert: 30=-306
- 37) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 31=-306
- 38) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 32=-306
- 39) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 34=-306
- 40) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 12=-306
- 41) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 3=-306
- 42) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 4=-306
- 43) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 7=-306
- 44) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 8=-306
- 45) 16th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 10=-306
- 46) 17th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 11=-306





PROVIDE HARDWARE PER CONDITION 1E AND ADDITIONAL 'HGA10KT'. PROVIDE ADDITIONAL 2x X 2'-0" VERTICAL SCAB TO VERTICAL MEMBER W/ 2 ROWS OF 10d AT 4" O.C.

PROVIDE HARDWARE PER CONDITION 2B AND ADDITIONAL 'HGA10KT' AND 'TSP'

2-0-10	4-8-7	7-5-8	8-4-0	14-5-2	20-1-10	28-1-11	35-4-4
2-0-10	2-7-13	2-9-1	0-10-8	6-1-2	5-8-8	8-0-1	7-2-9

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.67	in (loc) l/defl L/d	MT20	220/195
TCDL 17.0	Lumber DOL 1.25	BC 0.34	Vert(LL) -0.01 36 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.95	Vert(CT) -0.02 35-36 >999 180		
BCDL 9.0	Code IBC2015/TPI2014	Matrix-MSH	Horz(CT) 0.02 83 n/a n/a		
				Weight: 300 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G *Except*
T1: 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G *Except*
W9,W1: 2x6 DF No.2 G, W7,W2: 2x4 DF No.2 G
OTHERS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 4-1-6 oc bracing.
WEBS
1 Row at midpt 2-35, 10-24, 11-13
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 27-10-12 except (jt=length) 34=0-5-8, 34=0-5-8, 83=0-5-8.
(lb) - Max Horz
34=3125(LC 31)
Max Uplift
All uplift 100 lb or less at joint(s) 33, 32, 31, 30, 28, 27
except 34=1511(LC 25), 13=1093(LC 26), 24=221(LC 9),
18=163(LC 9), 83=2223(LC 25)
Max Grav
All reactions 250 lb or less at joint(s) 33, 32, 31, 27, 25,
23, 22, 21, 20, 19, 17, 16, 15, 14 except 34=2136(LC 24),
34=730(LC 1), 13=1374(LC 23), 24=750(LC 31), 30=355(LC 31),
28=255(LC 31), 18=634(LC 28), 83=2649(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-84=2452/2278, 3-84=2050/1754, 3-85=1856/1708,
4-85=1290/759, 4-86=1427/1376, 5-86=691/539,
6-34=1197/1054, 6-87=1444/1366, 5-87=354/130,
6-88=2515/197, 7-88=2507/1157, 7-89=1390/1304,
8-89=893/817, 8-90=116/1374, 9-10=1193/1364,
10-91=1515/1621, 11-91=765/883, 11-92=1714/1695,
92-93=816/800, 12-93=617/654, 12-13=424/0
BOT CHORD
36-37=316/348, 35-36=1167/1199, 34-35=2386/1286,
33-34=1341/1622, 32-33=889/1622, 31-32=399/1622,
30-31=466/1622, 29-30=869/1622, 28-29=1230/1358,
27-28=652/780, 26-27=161/428, 25-26=233/428,
24-25=774/902, 23-24=1639/1729, 22-23=1200/1289,
21-22=709/799, 20-21=219/309, 19-20=694/784,
18-19=1236/1326, 17-18=945/1044, 16-17=506/605,
15-16=375/499, 14-15=890/941, 13-14=1520/1679
WEBS
2-38=2151/2250, 35-38=2162/2273, 4-35=858/750,
4-6=884/755, 6-35=803/2202, 7-34=1936/1621,
7-29=1577/1479, 8-29=1622/1554, 8-24=1763/1339,
10-24=2076/1749, 10-18=1897/1638, 11-18=1784/1419,
11-13=2066/1960, 2-83=2686/2259

NOTES-

- 12) This truss has been designed for a total seismic drag load of 13000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 35-4-4 for 367.7 plf.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 8-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
- 15) 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)

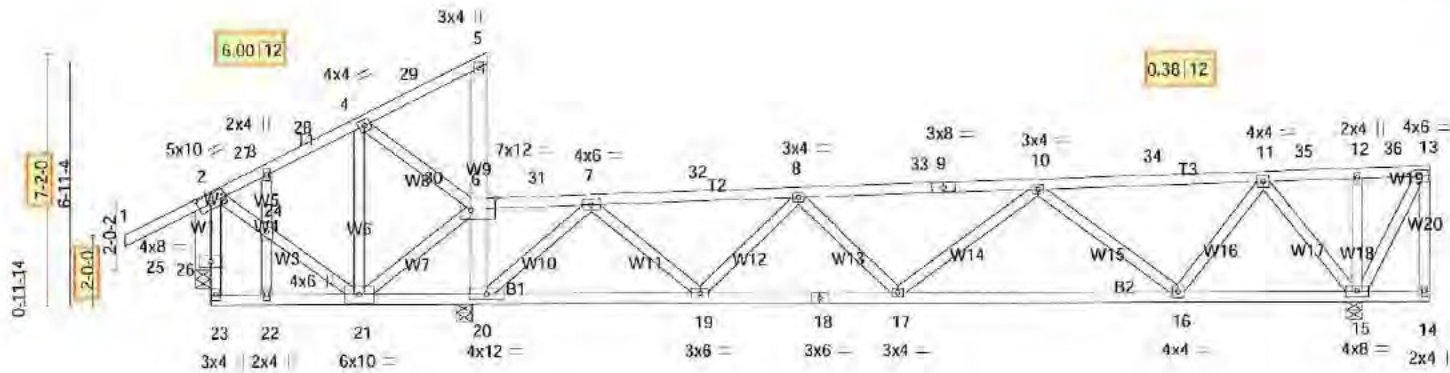
Standard Except:

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-93=-74, 12-93=-109, 13-37=-18
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-93=-64, 12-93=-99, 13-37=-18
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-93=-34, 12-93=-69, 13-37=-38
- 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=57, 2-84=28, 5-84=14, 6-93=18, 12-93=-17, 13-37=-11
Horz: 1-2=-77, 2-84=-48, 5-84=-34, 5-6=12, 6-12=38, 12-13=35, 37-82=19
- 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=8, 2-4=14, 4-5=28, 6-92=18, 92-93=25, 12-93=-10, 13-37=-11
Horz: 1-2=28, 2-4=-34, 4-5=-48, 5-6=-41, 6-92=-38, 12-92=45, 12-13=-19, 37-82=-35
- 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=-23, 2-5=-51, 6-93=-47, 12-93=-82, 13-37=-18
Horz: 1-2=-11, 2-5=17, 5-6=-16, 6-12=13, 12-13=-31, 37-82=-22
- 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=45, 2-5=-51, 6-93=-47, 12-93=-82, 13-37=-18
Horz: 1-2=11, 2-5=17, 5-6=38, 6-12=13, 12-13=22, 37-82=31
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-5=-7, 6-93=-5, 12-93=-30, 13-37=-11
Horz: 1-2=-26, 2-5=-13, 5-6=12, 6-12=-25, 12-13=23, 37-82=18
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-5=6, 6-93=23, 12-93=-12, 13-37=-11
Horz: 1-2=-21, 2-5=27, 5-6=-29, 6-12=44, 12-13=18, 37-82=-23
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=27, 2-5=-34, 6-93=-22, 12-93=-57, 13-37=-18
Horz: 1-2=-7, 2-5=0, 5-6=37, 6-12=-12, 12-13=11, 37-82=31
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-5=-20, 6-93=-3, 12-93=-38, 13-37=-18
Horz: 1-2=-21, 2-5=-14, 5-6=-4, 6-12=-31, 12-13=-31, 37-82=-11
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-5=23, 6-93=5, 12-93=-30, 13-37=-11
Horz: 1-2=-38, 2-5=-44, 5-6=-50, 6-12=-25, 12-13=21, 37-82=15
- 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, 2-5=5, 6-93=23, 12-93=-12, 13-37=-11
Horz: 1-2=-19, 2-5=-25, 5-6=-31, 6-12=-44, 12-13=-15, 37-82=-21
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=10, 6-93=-1, 12-93=-36, 13-37=-11
Horz: 1-2=24, 2-5=-31, 5-6=-37, 6-12=-19, 12-13=16, 37-82=8
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-5=-1, 6-93=10, 12-93=-25, 13-37=-11
Horz: 1-2=-19, 2-5=-26, 6-12=-31, 12-13=8, 37-82=-16
- Standard Except:
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=-3, 6-93=-22, 12-93=-57, 13-37=-18
Horz: 1-2=-38, 2-5=-31, 5-6=-25, 6-12=-12, 12-13=9, 37-82=28
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-5=-22, 6-93=-3, 12-93=-38, 13-37=-18
Horz: 1-2=-19, 2-5=-12, 5-6=-6, 6-12=-31, 12-13=-28, 37-82=-9
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-93=-34, 12-93=-69, 13-37=-18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-59, 2-5=-64, 6-93=-55, 12-93=-90, 13-37=-18
Horz: 1-2=-5, 2-5=0, 5-6=28, 6-12=-9, 12-13=8, 37-82=23
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=49, 2-5=-53, 6-93=-41, 12-93=-76, 13-37=-18
Horz: 1-2=-15, 2-5=-11, 5-6=-3, 6-12=-23, 12-13=-23, 37-82=-8
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-5=-41, 6-93=-55, 12-93=-90, 13-37=-18
Horz: 1-2=-28, 2-5=-23, 5-6=-19, 6-12=-9, 12-13=7, 37-82=21
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-50, 2-5=-55, 6-93=-41, 12-93=-76, 13-37=-18
Horz: 1-2=-14, 2-5=-9, 5-6=-4, 6-12=-23, 12-13=-21, 37-82=-7
- 23) Dead-Drage LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=150, 6-7=-2, 7-93=-23, 12-93=-58, 13-37=-18
Horz: 2-5=735, 6-7=4268, 7-8=11766, 8-90=11766, 9-90=11766, 9-10=11766, 10-91=11766, 91-93=11766, 12-93=11766
Drag: 5-6=368, 13-37=368
- 24) Dead-Drage LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-218, 6-7=-66, 7-93=-45, 12-93=-80, 13-37=-18
Horz: 2-5=-735, 6-7=-4268, 7-8=-11766, 8-90=-11766, 9-90=-11766, 9-10=-11766, 10-91=-11766, 91-93=-11766, 12-93=-11766
Drag: 5-6=368, 13-37=368
- 25) 0.6 Dead-Drage LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-20, 2-5=163, 6-7=11, 7-93=-9, 12-93=-30, 13-37=-11
Horz: 2-5=735, 6-7=4268, 7-8=11766, 8-90=11766, 9-90=11766, 9-10=11766, 10-91=11766, 91-93=11766, 12-93=11766
Drag: 5-6=368, 13-37=368
- 26) 0.6 Dead-Drage LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-20, 2-5=-204, 6-7=-52, 7-93=-32, 12-93=-53, 13-37=-11
Horz: 2-5=-735, 6-7=-4268, 7-8=-11766, 8-90=-11766, 9-90=-11766, 9-10=-11766, 10-91=-11766, 91-93=-11766, 12-93=-11766
Drag: 5-6=368, 13-37=368
- 27) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-93=-34, 12-93=-69, 13-37=-18
- 28) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-93=-74, 12-93=-109, 13-37=-18
- 29) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-93=-34, 12-93=-69, 13-37=-18
- 30) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-93=-64, 12-93=-109, 13-37=-18
- 31) F1&F2 Anchor Check: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-93=-34(F)
Concentrated Loads (lb)
Horz: 34=-1875(F), 6=5000(F)
- 32) F3 Left&F4 Anchor Check: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-93=-34(F)
Concentrated Loads (lb)
Horz: 87=1050(F)
Horz: 5=-300(F)

- Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-93=-34, 12-93=-69, 13-37=-18
Concentrated Loads (lb)
Vert: 10=-306
- 50) 17th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-93=-34, 12-93=-69, 13-37=-18
Concentrated Loads (lb)
Vert: 11=-306

-2-0-0	2-0-10	4-8-7	8-4-0	11-3-15	17-3-1	24-1-11	30-6-12	35-4-4
2-0-0	2-0-10	2-7-13	3-7-9	2-11-15	5-11-3	6-10-9	6-5-2	4-9-8

Scale = 1/65.6
Camber = 1/4 in



LOAD CASE(S)

- Standard Except:
Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-12=-74, 12-13=-109, 14-23=-18
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-12=-64, 12-13=-99, 14-23=-18
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-12=-34, 12-13=-69, 14-23=-38
- 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=57, 2-27=28, 5-27=14, 6-12=18, 12-13=-17, 15-23=-11, 14-15=30
Horz: 1-2=-77, 2-27=-48, 5-27=34, 5-6=12, 6-13=-38, 13-14=35, 23-25=19
- 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=8, 2-4=14, 4-5=28, 6-35=18, 12-35=25, 12-13=-10, 15-23=-11, 14-15=30
Horz: 1-2=-28, 2-4=-34, 4-5=-48, 5-6=-41, 6-35=-38, 13-35=-45, 13-14=-19, 23-25=-35
- 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=-23, 2-5=-51, 6-12=-47, 12-13=-82, 15-23=-18, 14-15=-11
Horz: 1-2=-11, 2-5=17, 5-6=-16, 6-13=13, 13-14=-31, 23-25=-22
- 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=-45, 2-5=-51, 6-12=-47, 12-13=-82, 15-23=-18, 14-15=-11
Horz: 1-2=11, 2-5=17, 5-6=38, 6-13=13, 13-14=22, 23-25=31
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-5=-7, 6-12=5, 12-13=-30, 14-23=-11
Horz: 1-2=-28, 2-5=-13, 5-6=12, 6-13=-25, 13-14=23, 23-25=18
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-5=6, 6-12=23, 12-13=-12, 15-23=-11, 14-15=10
Horz: 1-2=-21, 2-5=-27, 5-6=-29, 6-13=-44, 13-14=-18, 23-25=-23
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-5=-34, 6-12=-22, 12-13=-57, 14-23=-18
Horz: 1-2=-7, 2-5=0, 5-6=37, 6-13=-12, 13-14=11, 23-25=31
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-5=-20, 6-12=-3, 12-13=-38, 15-23=-18, 14-15=3
Horz: 1-2=-21, 2-5=-14, 5-6=-4, 6-13=-31, 13-14=-31, 23-25=-11
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-5=23, 6-12=5, 12-13=-30, 14-23=-11
Horz: 1-2=-38, 2-5=-44, 5-6=-50, 6-13=-25, 13-14=-21, 23-25=15
- 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, 2-5=5, 6-12=23, 12-13=-12, 14-23=-11
Horz: 1-2=-19, 2-5=-25, 5-6=-31, 6-13=-44, 13-14=-15, 23-25=-21
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=10, 6-12=-1, 12-13=-36, 14-23=-11
Horz: 1-2=-24, 2-5=-31, 5-6=-37, 6-13=-19, 13-14=16, 23-25=8
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-5=-1, 6-12=10, 12-13=-25, 14-23=-11
Horz: 1-2=-13, 2-5=-19, 5-6=-26, 6-13=-31, 13-14=-8, 23-25=-16
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=3, 6-12=22, 12-13=-57, 14-23=-18
Horz: 1-2=-38, 2-5=-31, 5-6=-25, 6-13=-12, 13-14=9, 23-25=28
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-5=-22, 6-12=-3, 12-13=-38, 14-23=-18
Horz: 1-2=-19, 2-5=-12, 5-6=-6, 6-13=-28, 13-14=-28, 23-25=-9
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-12=-34, 12-13=-69, 14-23=-18
- Standard Except:
19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-59, 2-5=-64, 6-12=-55, 12-13=-90, 14-23=-18
Horz: 1-2=-5, 2-5=0, 5-6=28, 6-13=-9, 13-14=8, 23-25=23
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-5=-53, 6-12=-41, 12-13=-76, 15-23=-18, 14-15=-2
Horz: 1-2=-15, 2-5=-11, 5-6=-3, 6-13=-23, 13-14=-23, 23-25=-8
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-5=-41, 6-12=-55, 12-13=-90, 14-23=-18
Horz: 1-2=-28, 2-5=-23, 5-6=-19, 6-13=-9, 13-14=-7, 23-25=21
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-50, 2-5=-55, 6-12=-41, 12-13=-76, 14-23=-18
Horz: 1-2=-14, 2-5=-9, 5-6=-4, 6-13=-23, 13-14=-21, 23-25=-7
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-12=-34, 12-13=-69, 14-23=-18
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-12=-74, 12-13=-109, 14-23=-18
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-12=-34, 12-13=-69, 14-23=-18
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-12=-64, 12-13=-99, 14-23=-18
- 27) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-12=-34(F), 12-13=-69(F=-34), 14-23=-18(F)
Concentrated Loads (lb)
Horz: 20=-1875(F), 6=5000(F)
- 28) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-12=-34(F), 12-13=-69(F=-34), 14-23=-18(F)
Concentrated Loads (lb)
Vert: 30=1050(F)
Horz: 5=300(F)
- 29) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-12=-34(F), 12-13=-69(F=-34), 14-23=-18(F)
Concentrated Loads (lb)
Vert: 30=1050(F)
Horz: 5=300(F)
- 30) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-12=-34, 12-13=-69, 14-23=-18
Concentrated Loads (lb)
Vert: 2=306
- 31) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-12=-34, 12-13=-69, 14-23=-18
Concentrated Loads (lb)
Vert: 27=306
- 32) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-12=-34, 12-13=-69, 14-23=-18
Concentrated Loads (lb)
Vert: 28=306
- 33) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-12=-34, 12-13=-69, 14-23=-18
Concentrated Loads (lb)
Vert: 29=306
- 34) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-12=-34, 12-13=-69, 14-23=-18
Concentrated Loads (lb)
Vert: 5=306
- 35) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-12=-34, 12-13=-69, 14-23=-18
Concentrated Loads (lb)
Vert: 31=306
- 36) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-12=-34, 12-13=-69, 14-23=-18

LOAD CASE(S)

Standard

Uniform Loads (plf)

Vert: 1-2=-34, 2-5=-34, 6-12=-34, 12-13=-69, 14-23=-18

Concentrated Loads (lb)

Vert: 32=-306

37) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-5=-34, 6-12=-34, 12-13=-69, 14-23=-18

Concentrated Loads (lb)

Vert: 33=-306

38) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-5=-34, 6-12=-34, 12-13=-69, 14-23=-18

Concentrated Loads (lb)

Vert: 34=-306

39) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-5=-34, 6-12=-34, 12-13=-69, 14-23=-18

Concentrated Loads (lb)

Vert: 35=-306

40) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-5=-34, 6-12=-34, 12-13=-69, 14-23=-18

Concentrated Loads (lb)

Vert: 36=-306

41) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-5=-34, 6-12=-34, 12-13=-69, 14-23=-18

Concentrated Loads (lb)

Vert: 13=-306

42) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-5=-34, 6-12=-34, 12-13=-69, 14-23=-18

Concentrated Loads (lb)

Vert: 3=-306

43) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-5=-34, 6-12=-34, 12-13=-69, 14-23=-18

Concentrated Loads (lb)

Vert: 4=-306

44) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-5=-34, 6-12=-34, 12-13=-69, 14-23=-18

Concentrated Loads (lb)

Vert: 7=-306

45) 16th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-5=-34, 6-12=-34, 12-13=-69, 14-23=-18

Concentrated Loads (lb)

Vert: 8=-306

46) 17th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-5=-34, 6-12=-34, 12-13=-69, 14-23=-18

Concentrated Loads (lb)

Vert: 10=-306

47) 18th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-5=-34, 6-12=-34, 12-13=-69, 14-23=-18

Concentrated Loads (lb)

Vert: 11=-306

48) 19th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-5=-34, 6-12=-34, 12-13=-69, 14-23=-18

Concentrated Loads (lb)

Vert: 12=-306



-2-0-0	4-8-7	8-4-0	12-6-9	18-3-12	24-11-12	31-2-14	32-4-8
2-0-0	4-8-7	3-7-9	4-2-9	5-9-3	6-8-0	6-3-2	1-1-10

Scale = 1/8" = 1'-0"
Camber = 1/4 in

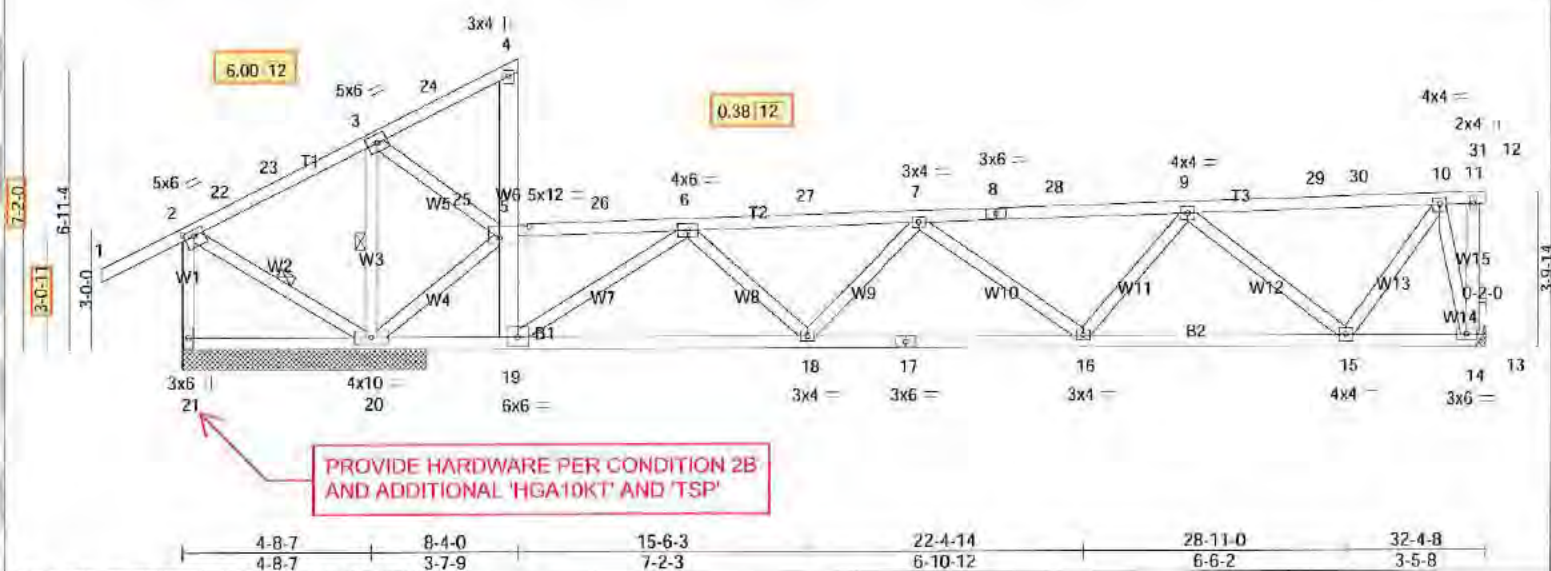


Plate Offsets (X,Y) - [2-0-3-0-0-1-12], [5-0-8-12-0-3-8]		LOADING (psf)		SPACING		CSI		DEFL.		PLATES		GRIP	
TCLL 20.0		Plate Grip DOL 1.25		TC 0.73		in (loc) l/defl L/d		MT20		220/195			
TCDL 17.0		Lumber DOL 1.25		BC 0.49		Ver(LL) 0.08 16-18 >999 240							
BCLL 0.0 *		Rep Stress Incr YES		WB 0.88		Ver(CT) -0.29 16-18 >999 180							
BCDL 9.0		Code IBC2015/TPI2014		Matrix-MSH		Horz(CT) 0.10 14 n/a n/a							
												Weight: 184 lb FT = 20%	

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G *Except*
T1: 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G *Except*
W6: 2x6 DF No.2 G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 3-5-6 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
6-0-0 oc bracing: 20-21, 19-20.
WEBS
1 Row at midpt 3-20, 2-20

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)	
14 =	1089/Mechanical
20 =	2823/6-0-10 (min. 0-2-3)
21 =	-787/6-0-10 (min. 0-2-3)
Max Horz	
21 =	-3125(LC 27)
Max Uplift	
14 =	-171(LC 9)
20 =	-476(LC 9)
21 =	-1925(LC 27)
Max Grav	
14 =	1089(LC 1)
20 =	2826(LC 27)
21 =	394(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-22=-346/2101, 22-23=-326/2127, 3-23=-312/2163,
3-24=-353/314, 4-24=-323/360, 5-19=-74/1040, 5-25=-350/1147,
4-25=-350/97, 5-26=-1968/734, 6-26=-1962/740,
6-27=-2214/233, 7-27=-2211/234, 7-8=-1831/232,
8-28=-1824/233, 9-28=-1823/235, 9-29=-823/104,
29-30=-815/106, 10-30=-813/108, 11-14=-230/367,
2-21=-354/1948
BOT CHORD
20-21=-511/3109, 19-20=-746/110, 18-19=-310/2173,
17-18=-392/2127, 16-17=-392/2127, 15-16=-313/1644,
14-15=-88/292

BOT CHORD
20-21=-511/3109, 19-20=-746/110, 18-19=-310/2173,
17-18=-392/2127, 16-17=-392/2127, 15-16=-313/1644,
14-15=-88/292
WEBS
3-20=-2433/251, 3-5=-180/2299, 5-20=-849/1400,
6-19=-1739/248, 6-18=-871/4, 7-18=-506/125, 7-16=-487/107,
9-16=-0/528, 9-15=-1081/224, 10-15=-97/945,
10-14=-1245/245, 2-20=-2207/471

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-2-6, Interior(1) 1-2-6 to 32-4-8 zone; cantilever left and right exposed; and vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 7) Load case(s) 27, 28, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 8) This truss has been designed for a moving live load of 6.0lb dead located at all mid panels and a nonconcurrent with any other live loads.
 - 9) This truss has large uplift reaction(s) from wind. Building designer must provide required to secure truss against upward movement. Building designer must provide for uplift reactions indicated.
 - 10) Hanger(s) or other connection device(s) must be provided to support the concentrated load(s) 1875 lb left at 8-1-14. Building designer must provide for such connection device(s) is the responsibility of the building designer.
 - 11) This truss is designed for a creep factor of 1.0. Building designer must provide for the Ver(CT) deflection per ANSI/TPI 1.
 - 12) In the LOAD CASE(S) section, loads are designated as front (F) or back (B).

LOAD CASE(S)
Standard Except:

Job	Truss	Truss Type	Qty	Ply	M31927/Legacy Livermore/Ron L.
BUILDING A	AA34	Roof Special	1	1	Job Reference (optional)

California TrusFrame LLC., Parris, CA. 92670

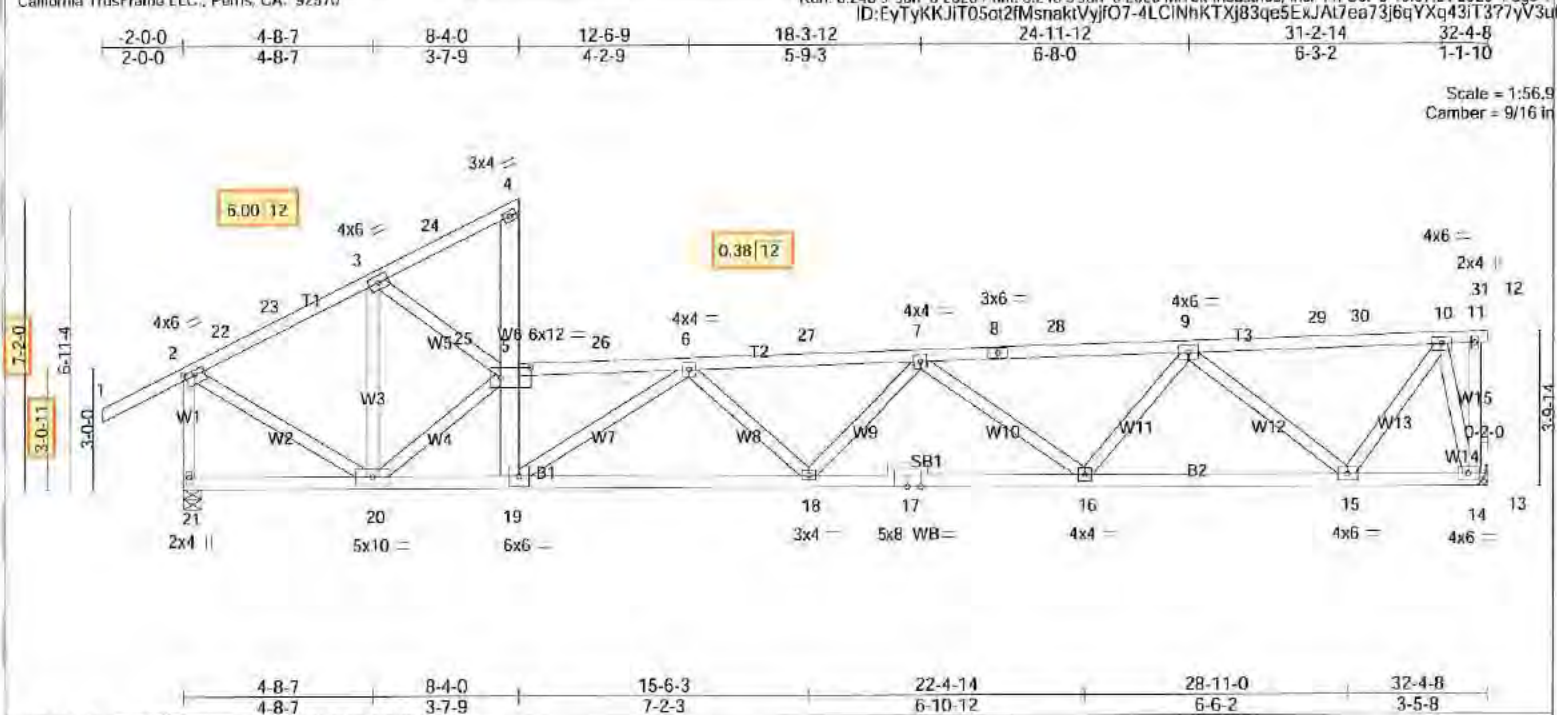
Run: 8.240 s Jan 6 2020 Print: 8.240 s Jan 6 2020 MiTek Industries, Inc. Fri Oct 9 15:57:22 2020 Page 2
ID:EyTyKKJiT05ot2fMsnaktVyjfQ7-8y4xy?JD06ul.bKxrqu8P2DVo_wUO4efnbO_zxEyV3un

LOAD CASE(S)

Standard Except:

- 27) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-31=-34(F), 14-21=-18(F)
Concentrated Loads (lb)
Horz: 19=-1875(F), 5=5000(F)
- 28) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-31=-34(F), 14-21=-18(F)
Concentrated Loads (lb)
Vert: 25=1050(F)
Horz: 4=300(F)
- 29) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-31=-34(F), 14-21=-18(F)
Concentrated Loads (lb)
Vert: 25=1050(F)
Horz: 4=300(F)





LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.82	in (loc) l/defl L/d	MT20	220/195
TCDL 17.0	Plate Grip DOL 1.25	BC 0.75	Vert(LL) 0.25 18-19 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.90	Vert(CT) -0.77 18-19 >498 180		
BCDL 9.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.22 14 n/a n/a		
	Code IBC2015/TPI2014			Weight: 185 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 DF No.1&Btr G *Except*
 T1: 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G *Except*
 W6: 2x6 DF No.2 G
 OTHERS 2x4 DF Stud/Std G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing.
 MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
 14 = 1492/Mechanical
 21 = 1632/0-5-8 (min. 0-1-12)
 Max Horz
 21 = -3125(LC 27)
 Max Uplift
 14 = -239(LC 9)
 21 = -38(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 2-22=-1350/109, 22-23=-1275/137, 3-23=-1269/172,
 3-24=-347/305, 4-24=-317/351, 5-19=-430/785, 5-25=-335/1145,
 4-25=-335/95, 5-26=-5666/1060, 6-26=-5662/1066,
 6-27=-4433/603, 7-27=-4430/605, 7-8=-3037/431,
 8-28=-3029/432, 9-28=-3029/434, 9-29=-1192/138,
 29-30=-1185/138, 10-30=-1183/140, 11-14=-236/360,
 2-21=-1594/233
 BOT CHORD
 20-21=-513/3120, 19-20=-1064/3717, 18-19=-789/4872,
 17-18=-694/3915, 16-17=-694/3915, 15-16=-459/2507,
 14-15=-104/387
 WEBS
 3-20=-499/1014, 3-5=-1328/364, 5-20=-2641/946,
 6-19=-1234/929, 6-18=-621/599, 7-18=-396/764,
 7-16=-1217/237, 9-16=-88/1085, 9-15=-1726/333,
 10-15=-180/1441, 10-14=-1644/313, 2-20=-146/1324

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 Continued on page 2

- 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 2-0-0 to 1-2-6. Interior(1) 1-2-6 to 32-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 7) Load case(s) 27, 28, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 8) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 8-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
- 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:
- 27) F1&F2 Anchor Check: Lumber Incl Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-4=-34(F), 5-31
 Concentrated Loads (lb)
 Horz: 19=-1875(F), 5=5000(F)
 - 28) F3 Left&F4 Anchor Check: Lumber Incl Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-4=-34(F), 5-31
 Concentrated Loads (lb)
 Vert: 25=1050(F)
 Horz: 4=-300(F)
 - 29) F3 Right&F4 Anchor Check: Lumber Incl Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-4=-34(F), 5-31
 Concentrated Loads (lb)

Job	Truss	Truss Type	Qty	Ply	M31927/Legacy Livermore/Ron L.
BUILDING A	AA35	Roof Special	2	1	Job Reference (optional)

California TrusFrame LLC., Parris, CA. 92570

Run: 8.240 s Jan 6 2020 Print: 8.240 s Jan 6 2020 MiTek Industries, Inc. Fri Oct 9 15:57:24 2020 Page 2
ID: EyTyKKJIT05ot2fMsnaktVvjfO7-4LCiNhKTXj83qe5ExJA7ea73j6qYXq43iT37yV3uf

LOAD CASE(S)
Standard Except:
Concentrated Loads (lb)
Vert: 25=1050(F)
Horz: 4=300(F)



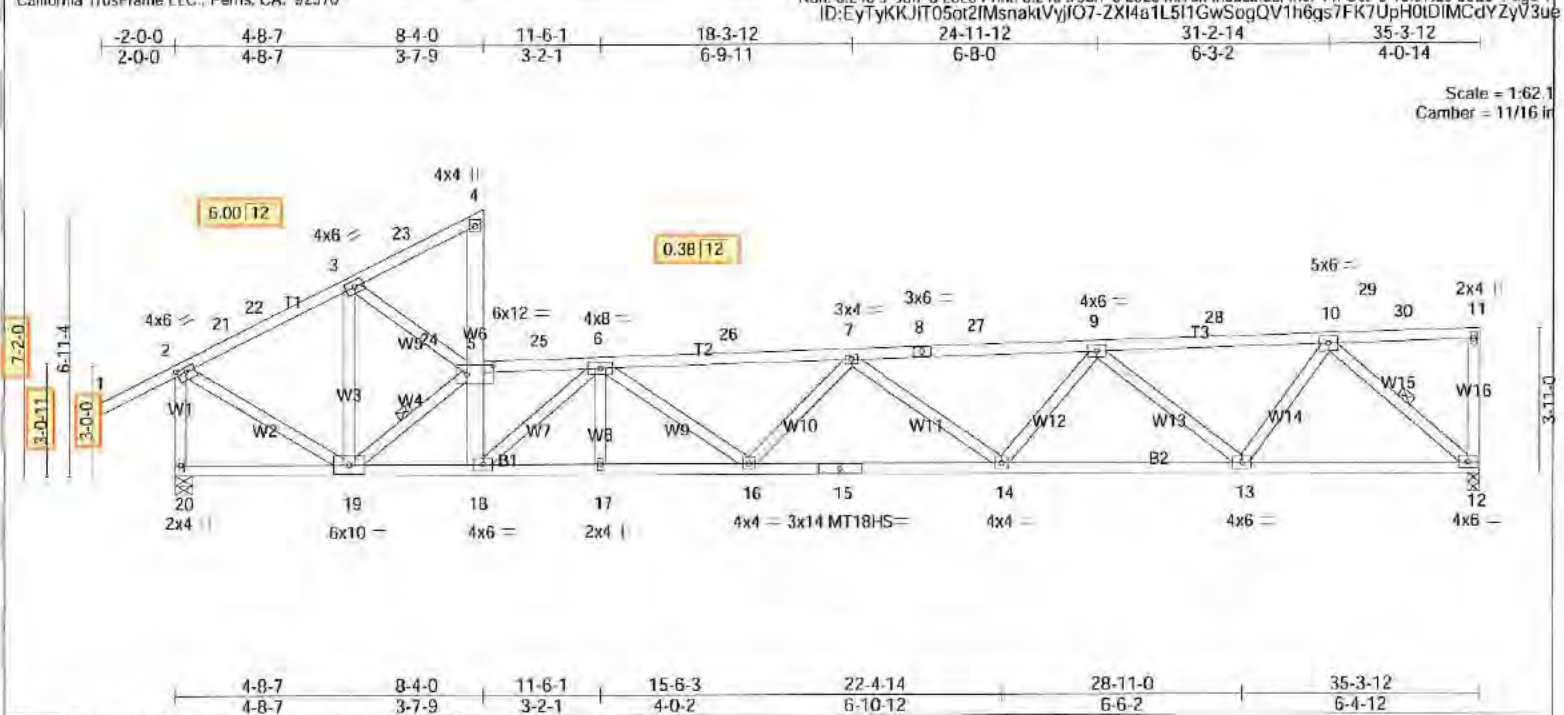


Plate Offsets (X,Y) - [2,0-3,0,0-1-8], [5,0-8,12,0-3-0]		LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL 20.0		Plate Grip DOL 1.25		TC 0.98		in (loc) l/deil L/d		MT20 220/195		Weight: 197 lb		FT = 20%	
TCDL 17.0		Lumber DOL 1.25		BC 0.64		Vert(LI) 0.29 16 >999 240		MT18HS 220/195					
BCLL 0.0 *		Rep Stress Incr YES		WB 0.79		Vert(CT) 0.96 14-16 >440 180							
BCDL 9.0		Code IBC2015/TPI2014		Matrix-MSH		Horz(CT) 0.24 12 n/a n/a							

LUMBER-
 TOP CHORD 2x4 DF No.1&Btr G *Except*
 T1: 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.1&Btr G
 WEBS 2x4 DF Stud/Std G *Except*
 W6: 2x6 DF No.2 G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS
 1 Row at midpt 5-19, 10-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
 12 = 1806/0-3-8 (min. 0-1-11)
 20 = 1775/0-5-8 (min. 0-1-14)
 Max Horz
 20 = -3125(LC 27)
 Max Uplift
 12 = -249(LC 9)
 20 = -60(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 2-21=1495/123, 21-22=1419/140, 3-22=1413/161,
 3-23=351/301, 4-23=320/347, 5-18=378/868, 5-24=334/1146,
 4-24=334/96, 5-25=5989/927, 6-25=5982/936,
 6-26=5013/713, 7-26=5009/715, 7-8=4022/581,
 8-27=4015/583, 9-27=4015/585, 9-28=2393/314,
 10-28=2386/316, 11-12=355/35, 2-20=1737/247
 BOT CHORD
 19-20=514/3120, 18-19=915/4059, 17-18=870/5483,
 16-17=870/5483, 15-16=834/4602, 14-15=834/4602,
 13-14=624/3574, 12-13=306/1642
 WEBS
 3-19=445/1162, 3-5=1476/374, 5-19=3000/819,
 6-18=1223/636, 6-16=586/796, 7-16=479/603,
 7-14=1067/223, 9-14=78/971, 9-13=1552/309,
 10-13=147/1341, 10-12=2179/369, 2-19=79/1475

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

2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-6-6, Interior(1) 1-6-6 to 35-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) All plates are MT20 plates unless otherwise indicated.
 4) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 6) A plate rating reduction of 20% has been applied for the green lumber members.
 7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 8) Load case(s) 27, 28, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 9) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 8-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 11) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
 12) 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:
 27) F1&F2 Anchor Load: Lumber Increase
 Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-4=-34(F), 5-11=Concentrated Loads (lb)
 Horz: 18=-1875(F), 5=5000(F)
 28) F3 Left&F4 Anchor Check: Lumber Increase
 Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-4=-34(F), 5-11=Concentrated Loads (lb)
 Vert: 24=1050(F)
 Horz: 4=-300(F)
 29) F3 Right&F4 Anchor Check: Lumber Increase
 Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-4=-34(F), 5-11=Concentrated Loads (lb)

Job	Truss	Truss Type	Qty	Ply	M3192 // Legacy Livermore/Ron L.
BUILDING A	AA36	Roof Special	5	7	Job Reference (optional)

California TrusFrame LLC., Perris, CA. 92570

Run: 8.240 s Jan. 6 2020 Print: 8.240 s Jan. 6 2020 MITek Industries, Inc. Fri Oct. 9 15:57:25 2020 Page 2
ID: EyTyKKJIT05ot2fMsnaktVvjfO7-ZXl4a1L5l1GwSogQV1h6gs7FK7UpH0lDIMCdYzyV3ue

LOAD CASE(S)

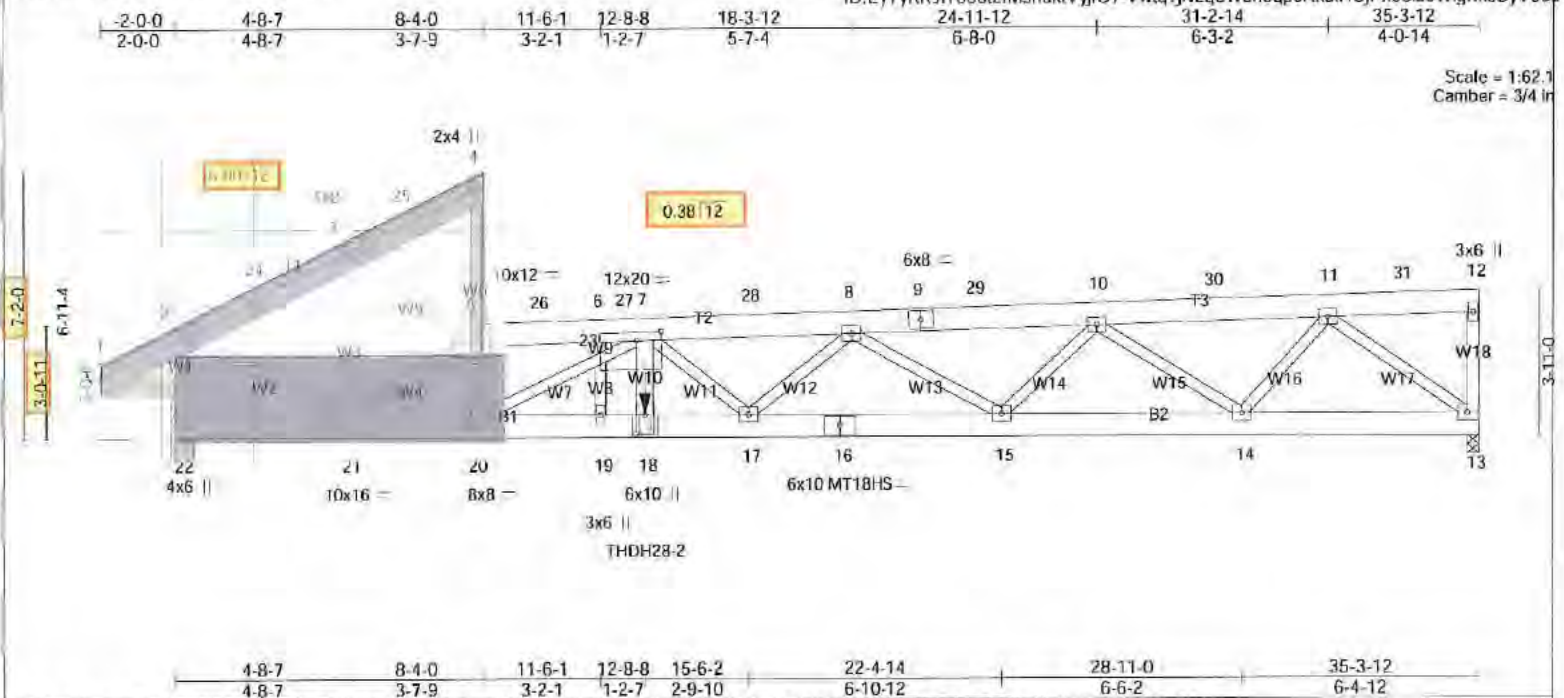
Standard Except:

Concentrated Loads (lb)

Vert: 24=1050(F)

Horz: 4=300(F)





LOADING (psf)	SPACING-	2-0-0	CSI	DEFL.	in (loc)	l/dell	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.49	Vert(LL)	-0.23 17-18	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.74	Vert(CT)	-0.99 17-18	>423	180	MT18HS	220/195
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.94	Horz(CT)	0.17 13	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MSH						
								Weight: 852 lb	FT = 20%

LUMBER-
TOP CHORD 2x8 DF SS G *Except*
T1: 2x4 DF No.2 G
BOT CHORD 2x8 DF SS G
WEBS 2x4 DF Stud/Std G *Except*
W6,W10: 2x6 DF No.2 G, W4: 2x4 DF No.2 G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size)	
13 =	4349/0-3-8 (min. 0-1-9)
22 =	6678/0-5-8 (min. 0-2-6)
Max Horz	
22 =	421(LC 5)
Max Grav	
13 =	4349(LC 1)
22 =	6732(LC 2)

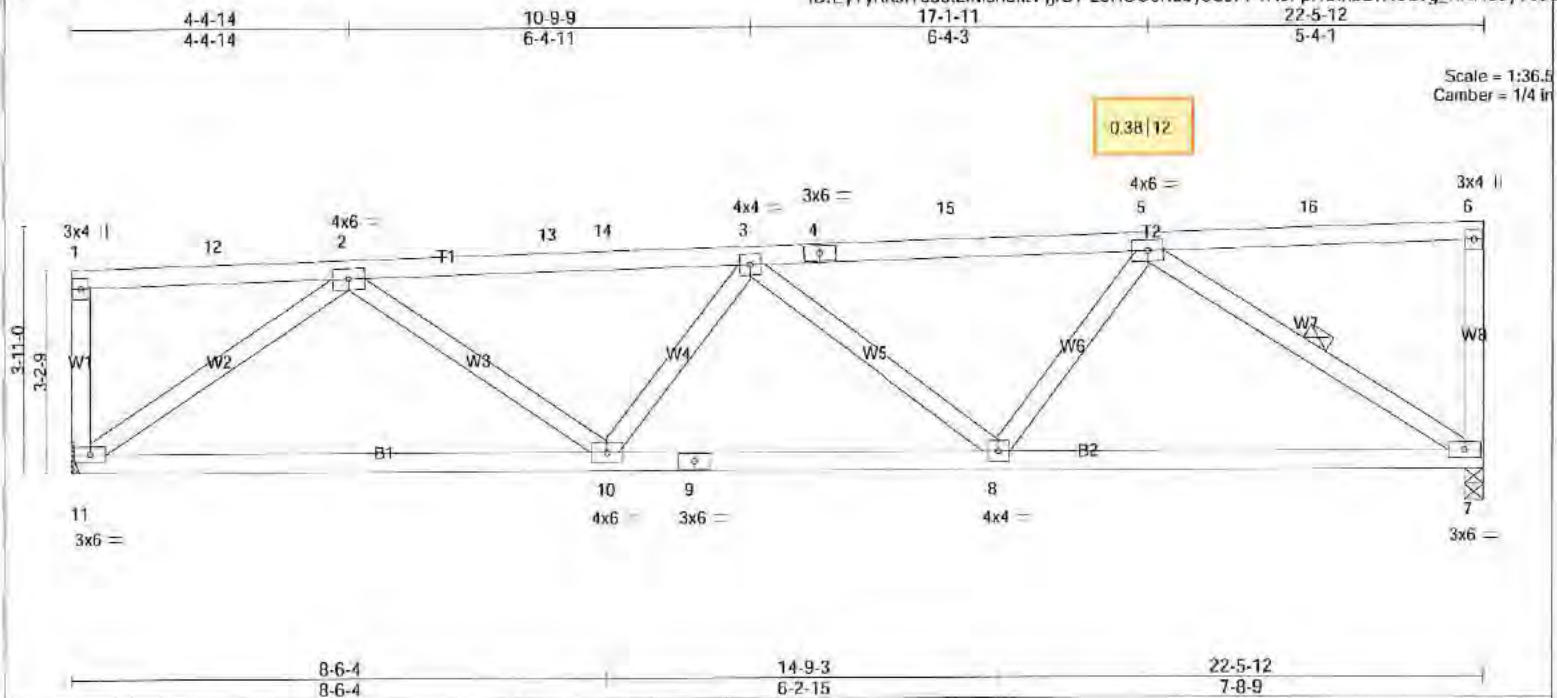
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-24=-6673/0, 3-24=-6599/0, 3-25=-397/0, 4-25=-280/0,
5-20=0/3242, 4-5=-255/132, 5-26=-21866/0, 6-26=-21850/0,
6-27=-21743/0, 7-27=-21742/0, 7-28=-25146/0, 8-28=-25140/0,
8-9=-16381/0, 9-29=-16376/0, 10-29=-16376/0, 10-30=-8035/0,
11-30=-8030/0, 12-13=-391/19, 2-22=-6607/0
BOT CHORD
21-22=-372/240, 20-21=0/20768, 19-20=0/27883, 18-19=0/27883,
17-18=0/27883, 16-17=0/21741, 15-16=0/21741, 14-15=0/13160,
13-14=0/5116
WEBS
3-21=0/6917, 3-5=-7101/0, 5-21=-17891/0, 20-23=-7066/0,
7-23=-7340/0, 7-17=-3967/0, 8-17=0/4974, 8-15=-6494/0,
10-15=0/4921, 10-14=-6445/0, 11-14=0/4978, 11-13=-6539/0,
2-21=0/6750, 7-18=0/6188, 6-23=0/1783, 19-23=0/1239

NOTES-
1) 3-ply truss to be connected together with USP WS45 screws as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-4-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) All plates are MT20 plates unless otherwise indicated.
6) All plates are 5x6 MT20 unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) A plate rating reduction of 20% has been applied for the green lumber members.
10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
12) Use USP THDH28-2 (With 36-16d nails into Girder & 10-16d nails into Truss) or equivalent at 12-8-8 from the left end to connect truss(es) AL01 (2 ply 2x8 DF) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
13) Fill all nail holes where hanger is in contact with lumber.
14) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)

- Standard
1) Dead + Roof Live (balanced): Lumb
Uniform Loads (plf)
Vert: 1-2=-74, 2-4=-74, 5-12=-74, 1
Concentrated Loads (lb)
Vert: 18=-7647(B)



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.91	Vert(LL)	-0.13 10-11	>999	240	MT20	220/195
TCDL 17.0	Plate Grip DOL 1.25	BC 0.55	Vert(CT)	-0.41 10-11	>643	180		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.95	Horz(CT)	0.07 7	n/a	n/a		
BCDL 9.0	Rep Stress Incr YES	Matrix-MSH						
	Code IBC2015/TPI2014						Weight: 108 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS
 1 Row at midpt 5-7

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- * 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.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- This truss has been designed for a total seismic drag load of 4100 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 22-5-12 for 182.4 plf.
- This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)
 Standard

REACTIONS. (lb/size)

11	=	1021/Mechanical
7	=	1021/0-3-8 (min. 0-1-8)
Max Horz		
11	=	131(LC 9)
Max Uplift		
11	=	-314(LC 25)
7	=	-187(LC 26)
Max Grav		
11	=	1237(LC 24)
7	=	1110(LC 23)

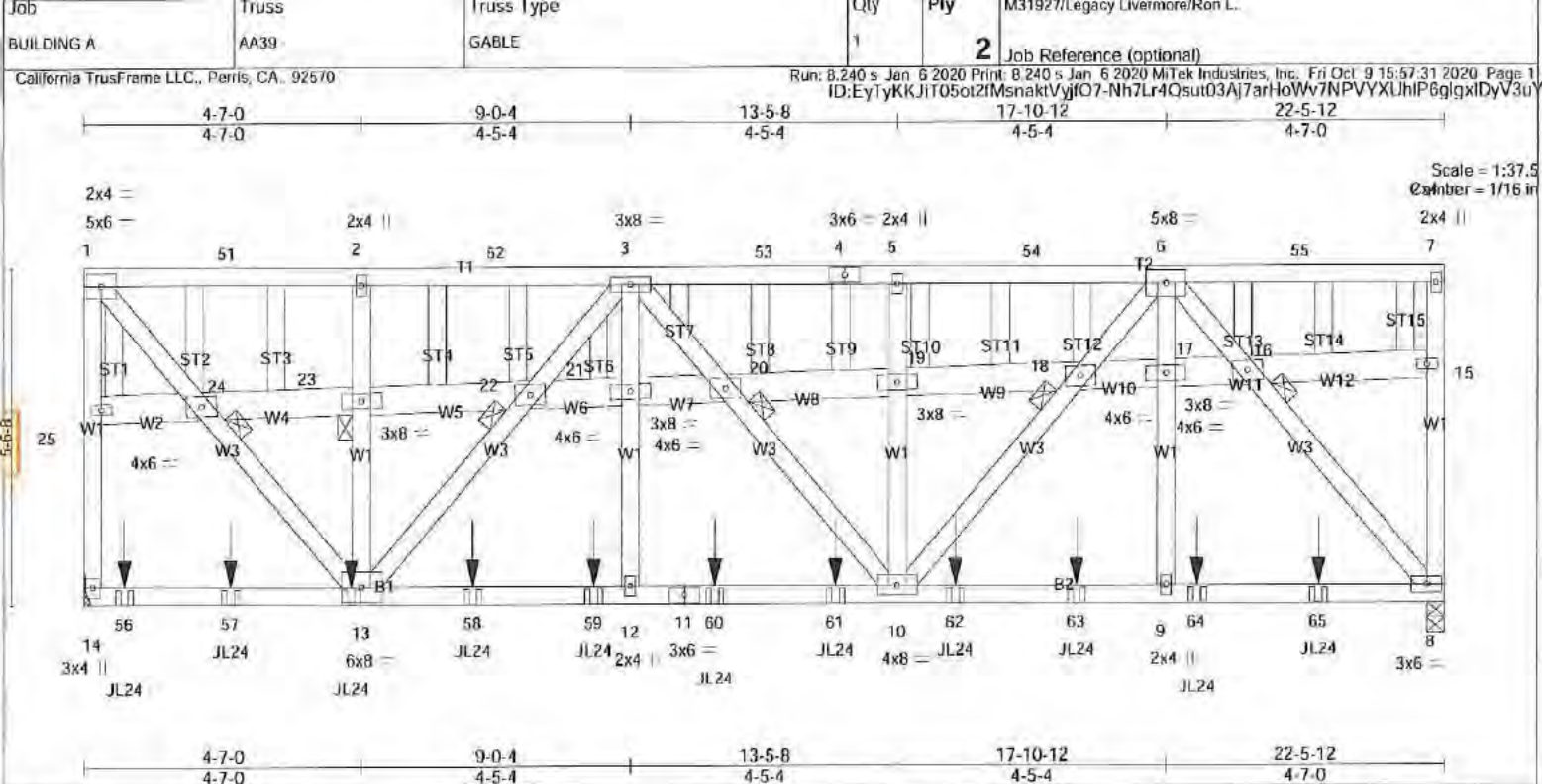
FORCES. (lb) : Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD
 1-11=-363/42, 1-12=-308/304, 2-12=-794/761, 2-13= 1916/232,
 13-14=-1662/232, 3-14=-1660/234, 3-4=-1771/396,
 4-15=-1491/237, 5-15=-1491/239, 5-16=-966/932,
 6-16=-408/397, 6-7=-379/53

BOT CHORD
 10-11=-528/1567, 9-10=-380/1812, 8-9=-380/1812,
 7-8=-394/1479

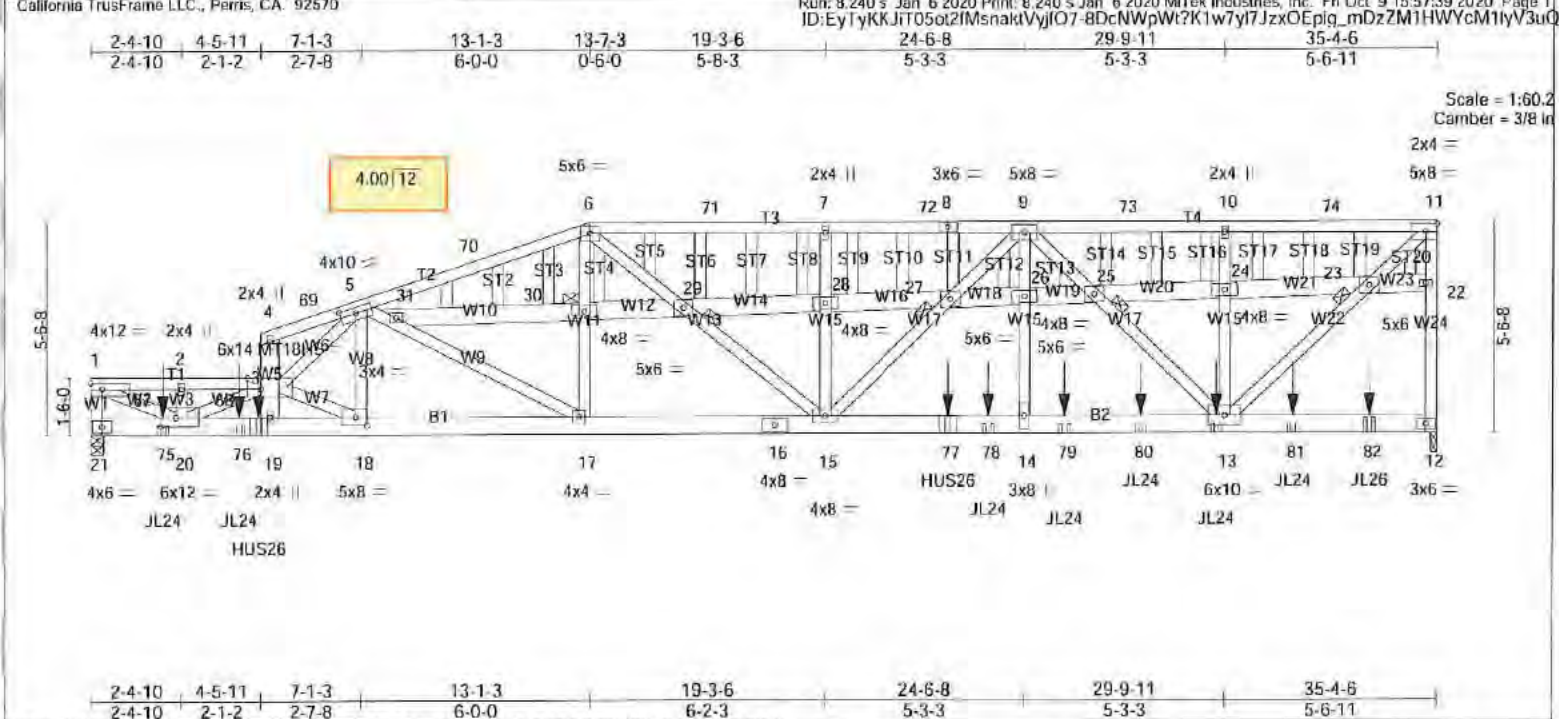
WEBS
 2-11=-1897/663, 2-10=-786/1397, 3-10=-848/676,
 3-8=-1111/777, 5-8=-505/1006, 5-7=-1752/484

NOTES-
 1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 4-4-14, Exterior(2) 4-4-14 to 22-4-0 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
 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



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)	-0.07 10-12	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.62	Vert(CT)	-0.16 10-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.72	Horz(CT)	0.05 8	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MSH					Weight: 434 lb	FT = 20%

LUMBER- TOP CHORD 2x4 DF No.2 G BOT CHORD 2x4 DF No.2 G WEBS 2x4 DF Stud/Std G *Except* W12,W11,W10,W9,W8,W7,W6,W5,W4,W2: 2x6 DF No.2 G OTHERS 2x4 DF Stud/Std G BRACING- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. JOINTS 1 Brace at Jt(s): 16, 18, 20, 22, 23, 24 REACTIONS. (lb/size) 14 = 2007/Mechanical B = 1874/0-3-8 (min. 0-1-9) Max Horz 14 = -216(LC 4) Max Uplift 14 = -941(LC 4) 8 = -841(LC 5) Max Grav 14 = 3221(LC 19) 8 = 2908(LC 25) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 14-25=-2679/793, 1-25=-2676/794, 1-51=-2130/622, 2-51=-2130/622, 2-52=-2128/629, 3-52=-2128/629, 3-53=-3140/905, 4-53=-3140/905, 4-5=-3140/905, 5-54=-3145/901, 6-54=-3145/901, 8-15=-374/46, 7-15=-376/49 BOT CHORD 13-58=-1037/3234, 58-59=-1037/3234, 12-59=-1037/3234, 11-12=-1033/3235, 11-60=-1033/3235, 60-61=-1033/3235, 10-61=-1033/3235, 10-62=-681/2182, 62-63=-681/2182, 9-63=-681/2182, 9-64=-675/2175, 64-65=-675/2175, 8-65=-675/2175 WEBS 1-24=-977/3328, 13-24=-983/3330, 13-23=-461/116, 2-23=-461/116, 13-22=-1655/484, 3-22=-1665/480, 12-21=-243/944, 3-21=-244/944, 10-19=-450/103, 5-19=-450/102, 10-18=-493/1693, 6-18=-482/1683, 9-17=-264/1022, 6-17=-264/1021, 6-16=-3317/968, 8-16=-3311/973	NOTES- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated. 3) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 4) 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. 5) Provide adequate drainage to prevent water ponding. 6) Gable studs spaced at 1-4-0 oc. 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 9) A plate rating reduction of 20% has been applied for the green lumber members. 10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 11) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads. 12) Use USP JL24 (With 4-10d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. s 13) Fill all nail holes where hanger is 14) This truss is designed for a creep Vert(CT) deflection per ANSI/TPI 1.
LOAD CASE(S) Standard 1) Dead + Roof Live (balanced); Lum Uniform Loads (plf) Vert: 1-7=-74, 8-14=-18 Concentrated Loads (lb) Vert: 13=-167(B) 56=-171(B) 57=- 61=-167(B) 62=-167(B) 63=-167(B)	



Job	Truss	Truss Type	Qty	Ply	IM3192 // Legacy Livermore / Ron L.
BUILDING A	AB01	GABLE	1	2	Job Reference (optional)

California TrusFrame LLC., Perris, CA. 92570

Run: 8.240 s Jan. 6 2020 Print: 8.240 s Jan. 6 2020 MiTek Industries, Inc. Fri Oct. 9 15:57:39 2020 Page 2
ID: EyTyKKJIT05ot2IMsnaktVyiiO7-8DcNWpWT?K1w7yi7JzxOEpig_mDzZM1HWYcM1lyV3uQ

NOTES-

- 15) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 16) Use USP JL24 (With 4-10d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 19-8-6 oc max. starting at 1-10-12 from the left end to 31-7-2 to connect truss(es) AH02 (1 ply 2x4 DF), AM02 (1 ply 2x4 DF) to front face of bottom chord.
- 17) Use USP HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 18-1-8 oc max. starting at 4-4-15 from the left end to 22-6-7 to connect truss(es) AH01 (1 ply 2x6 DF), AM05 (1 ply 2x6 DF) to front face of bottom chord.
- 18) Use USP JL26 (With 6-10d nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent at 33-7-2 from the left end to connect truss(es) AM02 (1 ply 2x4 DF) to front face of bottom chord.
- 19) Fill all nail holes where hanger is in contact with lumber.
- 20) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(C1) deflection per ANSI/TPI 1.

LOAD CASE(S)

Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

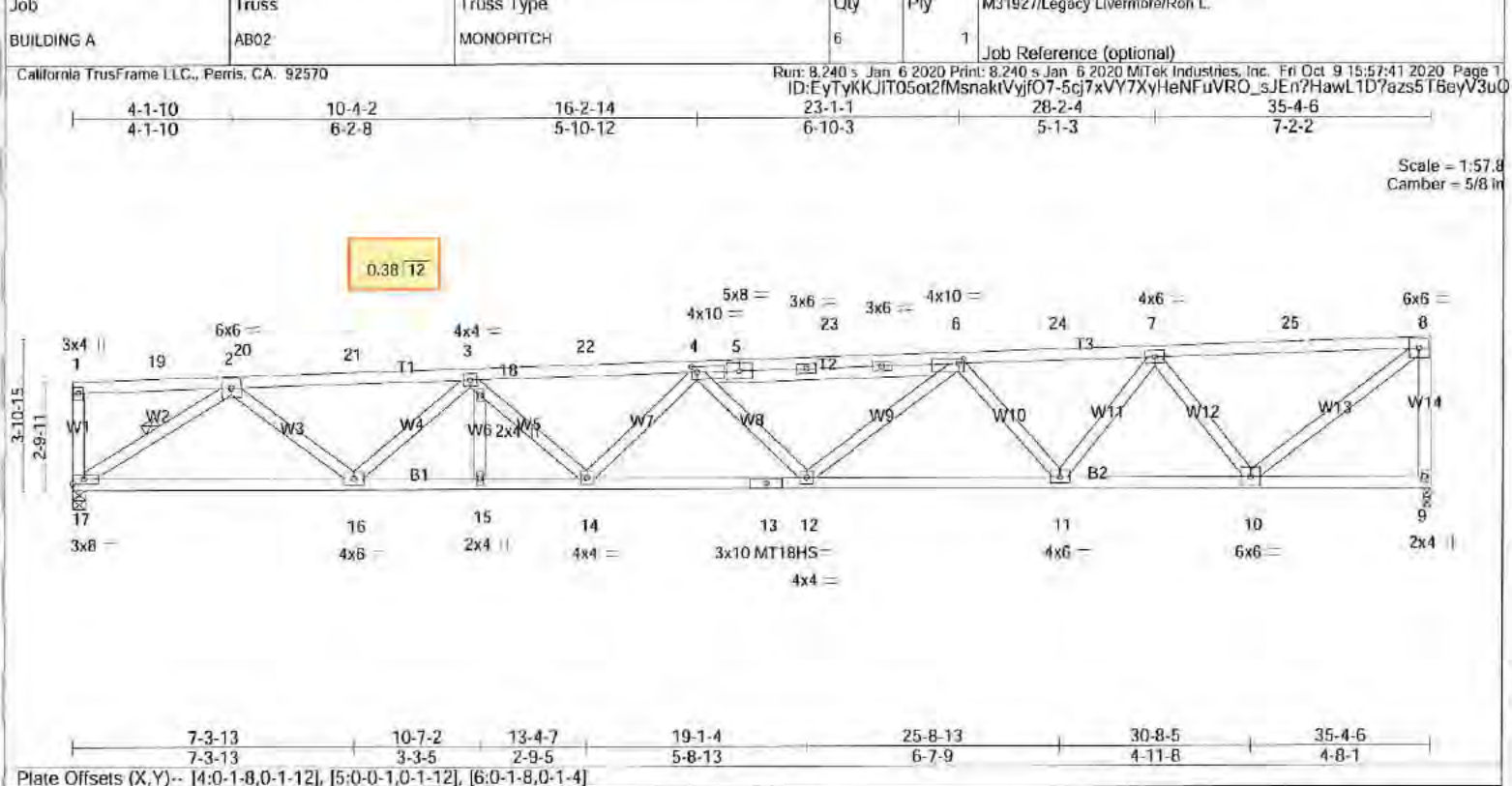
Uniform Loads (plf)

Vert: 1-3=-74, 4-6=-74, 6-11=-74, 12-21=-18

Concentrated Loads (lb)

Vert: 19=-1173(F) 13=-167(F) 75=-202(F) 76=-202(F) 77=-1138(F) 78=-167(F)
79=-167(F) 80=-167(F) 81=-167(F) 82=-167(F)





LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.92	in (loc) l/defl L/d	MT20	220/195
TCDL 17.0	Plate Grip DOL 1.25	BC 0.65	Vert(LL) 0.27 12-14 >999 240	MT18HS	220/195
BCLL 0.0 *	Lumber DOL 1.25	WB 0.90	Vert(CT) -0.90 12-14 >468 180		
BCDL 9.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.22 9 n/a n/a		
	Code IBC2015/TPI2014			Weight: 178 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

WEBS
1 Row at midpt 2-17

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-8-2, Interior(1) 3-8-2 to 35-2-10 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
2) All plates are MT20 plates unless otherwise indicated.
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) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
9) This truss has been designed for a total seismic drag load of 4100 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 35-3-14 for 116.1 plf.
10) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

REACTIONS. (lb/size)

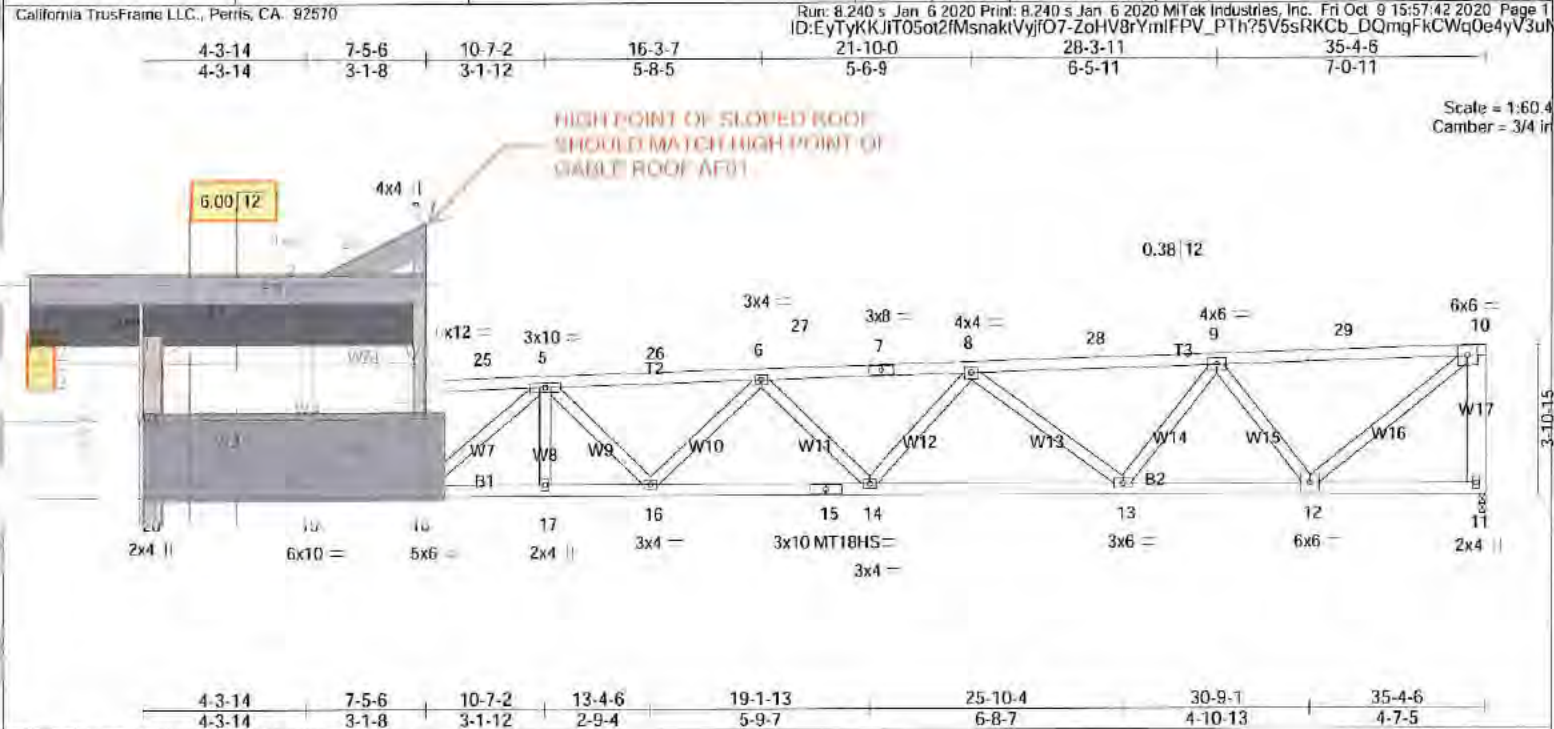
17 =	1613/0-4-0 (min. 0-1-12)
9 =	1613/0-2-0 (min. 0-1-12)
Max Horz	
17 =	150(LC 9)
Max Uplift	
17 =	-224(LC 8)
9 =	-221(LC 12)

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

TOP CHORD
1-17=-360/36, 19-20=-427/393, 2-20=-480/446, 2-21=-3320/421,
3-21=-3312/423, 3-22=-4608/623, 4-22=-4607/623,
4-5=-4672/622, 5-23=-4664/624, 6-23=-4664/626,
6-24=-3449/482, 7-24=-3429/487, 7-25=-1789/266,
8-25=-1780/268, 8-9=-1567/242

BOT CHORD
16-17=-324/2196, 15-16=-549/4179, 14-15=-549/4179,
13-14=-660/4930, 12-13=-660/4930, 11-12=-551/4155,
10-11=-358/2746, 9-10=-511/546

WEBS
2-17=-2596/410, 2-16=-124/1450, 3-16=-1190/230,
3-18=-304/889, 14-18=-313/881, 4-14=-748/380, 4-12=-661/384,
6-12=-322/957, 6-11=-1110/200, 7-11=-108/1174,
7-10=-1631/282, 8-10=-281/2223



LOADING (psf)		SPACING-		CSI		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.82	in (loc)	l/defl	MT20	220/195		
TCDL	17.0	Lumber DOL	1.25	BC	0.85	Vert(LL)	L/d	MT18HS	220/195		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Vert(CT)					
BCDL	9.0	Code IBC2015/TPI2014		Matrix-MSH		Horz(CT)					
								Weight: 200 lb FT = 20%			

LUMBER-
 TOP CHORD 2x4 DF No.1&Btr G *Except*
 T1: 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G *Except*
 W6,W17: 2x6 DF No.2 G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 2-2-10 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

11	=	1610/0-2-0 (min. 0-1-11)
20	=	1610/0-4-0 (min. 0-1-11)
Max Horz		
20	=	-3125(LC 27)
Max Uplift		
11	=	-250(LC 9)
20	=	-73(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 1-21=-1340/130, 21-22=-1271/132, 2-22=-1215/151,
 2-23=-345/303, 3-23=-316/342, 4-18=-415/880, 4-24=-321/1159,
 3-24=-321/109, 4-25=-6024/919, 5-25=-6020/929,
 5-26=-5215/740, 6-26=-5212/742, 6-27=-4477/681,
 7-27=-4470/681, 7-8=-4469/683, 8-28=-3293/466,
 9-28=-3280/469, 9-29=-1744/225, 10-29=-1735/228,
 10-11=-1564/269, 1-20=-1573/151
 BOT CHORD
 19-20=-486/3130, 18-19=-909/4080, 17-18=-869/5472,
 16-17=-869/5472, 15-16=-864/4874, 14-15=-864/4874,
 13-14=-743/4191, 12-13=-477/2684
 WEBS
 2-19=-511/1267, 2-4=-1497/402, 4-19=-3095/848,
 5-18=-1248/685, 5-16=-376/718, 6-16=-598/484, 6-14=-707/296,
 8-14=-127/826, 8-13=-1256/253, 9-13=-116/1101,
 1-19=-90/1419, 9-12=-1625/317, 10-12=-321/2182

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

2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-8-2, Interior(1) 3-8-2 to 35-1-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) All plates are MT20 plates unless otherwise indicated.
 4) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 6) A plate rating reduction of 20% has been applied for the green lumber members.
 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
 8) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 9) Load case(s) 27, 28, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 10) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 7-1-2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 12) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
 13) 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:
 27) F1&F2 Anchor Check: Lumber Increase
 Uniform Loads (plf)
 Vert: 1-3=-34(F), 4-10=-34(F), 11-20=-34(F)
 Concentrated Loads (lb)
 Horz: 18=-1875(F), 4=5000(F)
 28) F3 Left&F4 Anchor Check: Lumber Increase
 Uniform Loads (plf)
 Vert: 1-3=-34(F), 4-10=-34(F), 11-20=-34(F)
 Concentrated Loads (lb)
 Vert: 24=1050(F)
 Horz: 3=300(F)
 29) F3 Right&F4 Anchor Check: Lumber Increase
 Uniform Loads (plf)
 Vert: 1-3=-34(F), 4-10=-34(F), 11-20=-18(F)

Job	TRUSS	Truss Type	Qty	Qty	Job Reference (optional)
BUILDING A	AB03	ROOF SPECIAL	4	1	

LOAD CASE(S)
 Standard Except:
 Concentrated Loads (lb)
 Vert: 24=1050(F)
 Horz: 3=300(F)



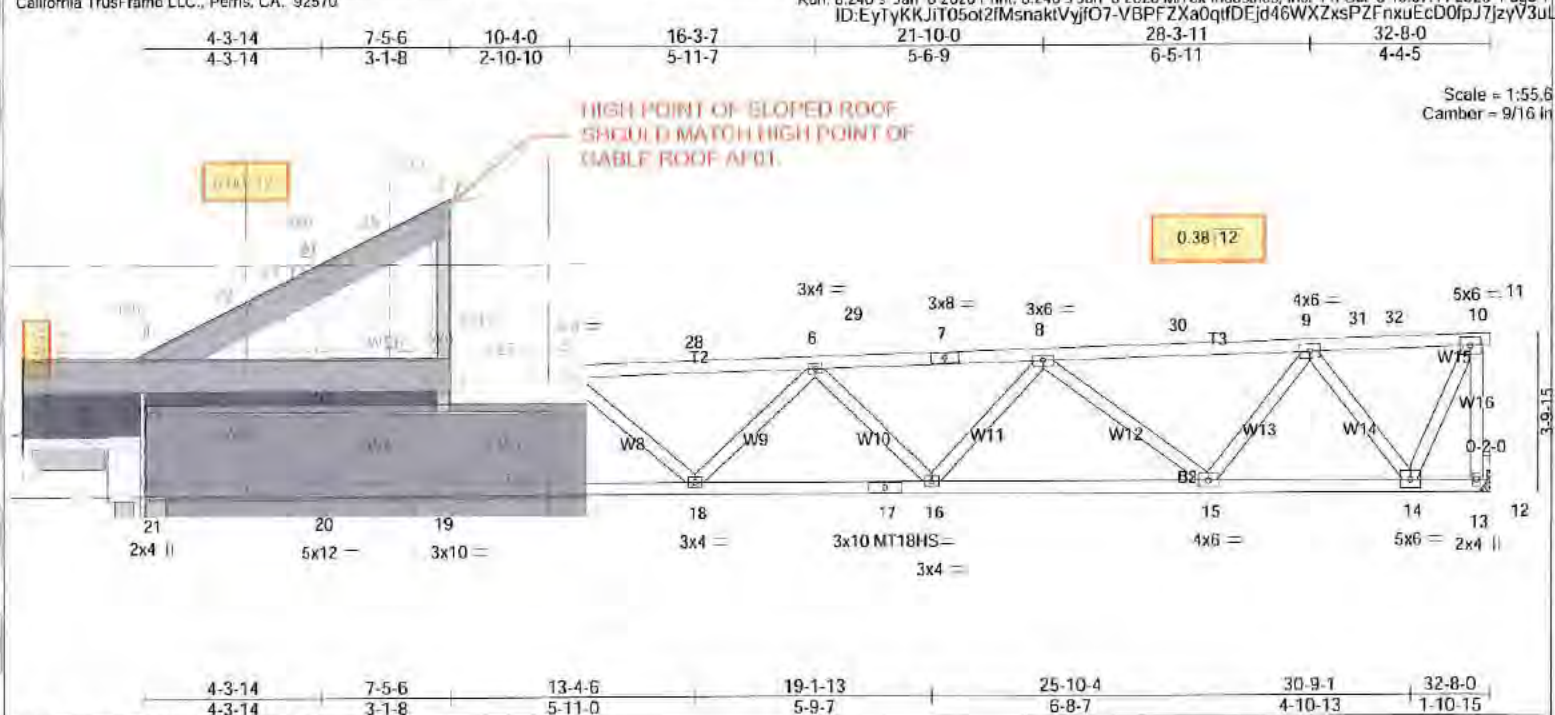


Plate Offsets (X,Y)-- [4:0-8-8,0-3-4]							
LOADING (psf)	SPACING--	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL 1.25		TC 0.74	Vert(LL) 0.24	18-19	>999	240
TCDL 17.0	Lumber DOL 1.25		BC 0.72	Vert(CT) -0.76	16-18	>509	180
BCLL 0.0 *	Rep Stress Incr YES		WB 0.81	Horz(CT) 0.22	13	n/a	n/a
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MSH				
						PLATES	GRIP
						MT20	220/195
						MT18HS	220/195
						Weight: 184 lb FT = 20%	

LUMBER-
 TOP CHORD 2x4 DF No.1&Btr G *Except*
 T1: 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G *Except*
 W6: 2x6 DF No.2 G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 2-5-14 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
 13 = 1510/Mechanical
 21 = 1481/0-4-0 (min. 0-1-9)
 Max Horz
 21 = -3125(LC 27)
 Max Uplift
 13 = -243(LC 9)
 21 = -53(LC 9)

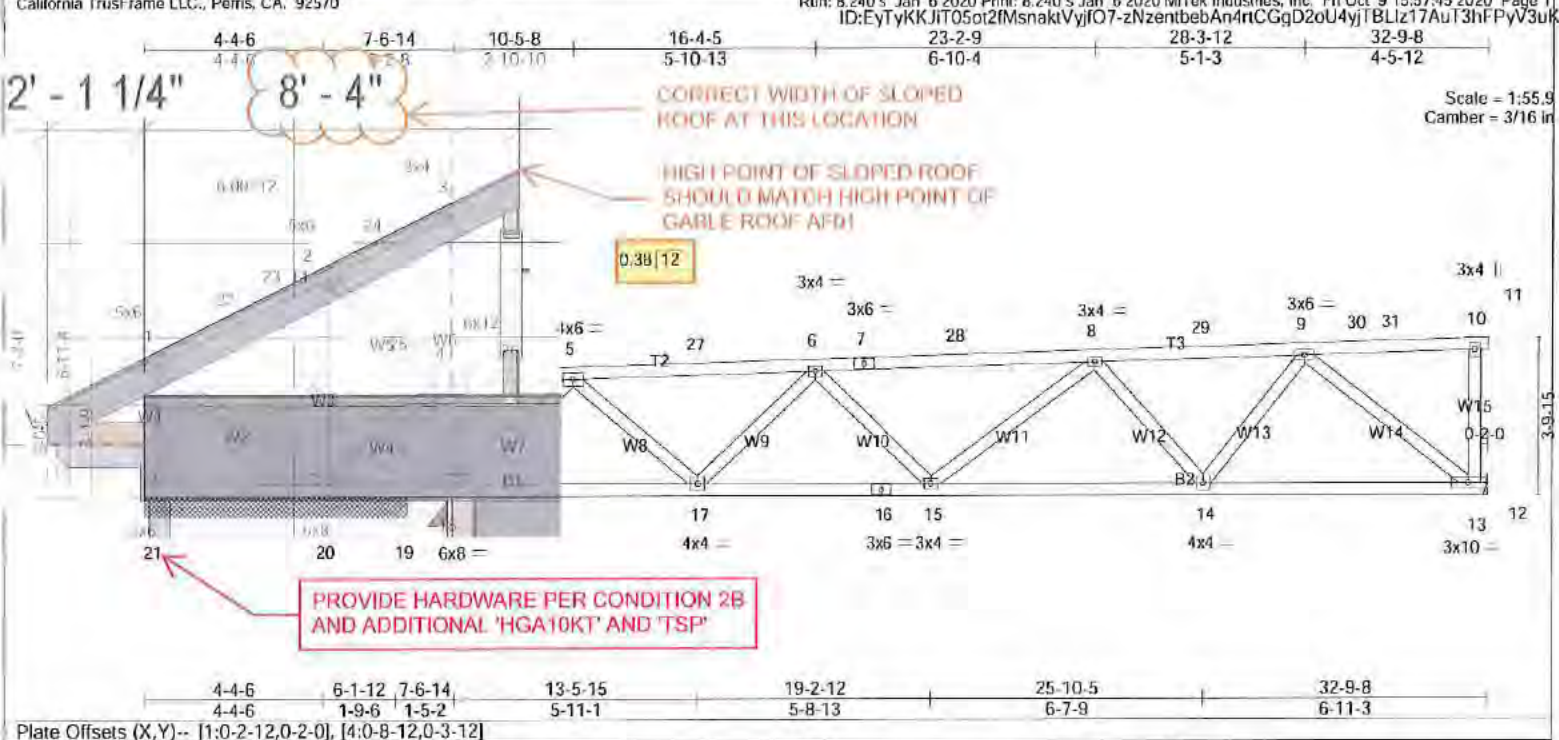
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 1-22=-1226/119, 22-23=-1157/123, 23-24=-1102/150,
 2-24=-1088/154, 2-25=-344/304, 3-25=-315/344, 4-19=-504/862,
 4-26=-322/1158, 3-26=-322/108, 4-27=-5749/1051,
 5-27=-5741/1060, 5-28=-4755/646, 6-28=-4752/648,
 6-29=-3762/563, 7-29=-3759/564, 7-8=-3759/566,
 8-30=-2291/311, 9-30=-2283/313, 9-31=-639/106,
 31-32=-636/107, 10-32=-633/109, 10-13=-1470/235,
 1-21=-1444/139
 BOT CHORD
 20-21=-483/3130, 19-20=-1040/3802, 18-19=-824/5102,
 17-18=-753/4326, 16-17=-753/4326, 15-16=-609/3332,
 14-15=-301/1594
 WEBS
 2-20=-566/1125, 2-4=-1362/402, 4-20=-2770/970,
 5-19=-1141/836, 5-18=-482/716, 6-18=-540/610, 6-16=-827/240,
 8-16=-79/930, 8-15=-1393/288, 9-15=-140/1215,
 1-20=-143/1292, 9-14=-1645/304, 10-14=-214/1495

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

LOAD CASE(S)
 Standard Except:
 27) F1&F2 Anchor Check: Lumber Incr
 Uniform Loads (plf)
 Vert: 1-3=-34(F), 4-10=-34(F), 13-2
 Concentrated Loads (lb)
 Horz: 19=-1875(F), 4=5000(F)
 28) F3 Left&F4 Anchor Check: Lumber
 Uniform Loads (plf)
 Vert: 1-3=-34(F), 4-10=-34(F), 13-2
 Concentrated Loads (lb)
 Vert: 26=1050(F)
 Horz: 3=-300(F)
 29) F3 Right&F4 Anchor Check: Lumber
 Uniform Loads (plf)
 Vert: 1-3=-34(F), 4-10=-34(F), 13-2
 Concentrated Loads (lb)

LOAD CASE(S)
Standard Except:
Concentrated Loads (lb)
Vert: 26=1050(F)
Horz: 3=300(F)





LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.77	in (loc) l/dell L/d	MT20	220/195
TCDL 17.0	Plate Grip DOL 1.25	BC 0.49	Vert(LL) 0.09 15 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.96	Vert(CT) -0.29 14-15 >999 180		
BCDL 9.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.11 13 n/a n/a		
	Code IBC2015/TPI2014				
				Weight: 181 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G *Except*
T1: 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G *Except*
W6: 2x6 DF No.2 G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 2-11-10 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS
1 Row at midpt 2-20

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 6-5-4 except (jt=length) 13=Mechanical, 19=0-3-8.
(lb) - Max Horz
21=-3125(LC 27)
Max Uplift
All uplift 100 lb or less at joint(s) except 13=-174(LC 9),
20=-349(LC 9), 21=-1931(LC 27), 19=-125(LC 9)
Max Grav
All reactions 250 lb or less at joint(s) except 13=1122(LC 1), 20=2307(LC 1), 21=352(LC 9), 19=570(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-22=-290/1821, 22-23=-271/1827, 2-23=-255/1859,
2-24=-349/316, 3-24=-319/352, 4-18=-153/862, 4-25=-338/1158,
3-25=-338/108, 4-26=-1841/791, 5-26=-1832/800,
5-27=-2219/206, 6-27=-2215/208, 6-7=-2086/268,
7-28=-2082/269, 8-28=-2082/272, 8-29=-1578/186,
9-29=-1572/189, 10-13=-381/52, 1-21=-344/1971
BOT CHORD
20-21=-481/3127, 19-20=-779/83, 18-19=-779/83,
17-18=-255/2045, 16-17=-396/2255, 15-16=-396/2255,
14-15=-361/1968, 13-14=-219/1129
WEBS
2-20=-2410/220, 2-4=-155/2156, 4-20=-380/2064,
5-18=-1692/249, 5-17=-67/1025, 6-17=-815/150, 6-15=-253/247,
8-15=-113/459, 8-14=-628/168, 9-14=-61/755, 9-13=-1424/245,
1-20=-2034/413

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10: Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-4-8, Interior(1) 3-4-8 to 32-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 7) Load case(s) 27, 28, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 8) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 - 9) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
 - 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 7-2-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 11) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
 - 12) In the LOAD CASE(S) section, load is reported as front (F) or back (B).

- LOAD CASE(S)**
Standard Except:
27) F1&F2 Anchor Check: Lumber Incr
Uniform Loads (plf)
Vert: 1-3=-34(F), 4-10=-34(F), 13-27=-34(F)
Concentrated Loads (lb)
Horz: 18=-1875(F), 4=5000(F)
28) F3 Left&F4 Anchor Check: Lumber Incr
Uniform Loads (plf)
Vert: 1-3=-34(F), 4-10=-34(F), 13-27=-34(F)
Concentrated Loads (lb)
Vert: 25=1050(F)
Horz: 3=-300(F)

Job	Truss	Truss Type	Qty	Ply	M3192//Legacy Livermore/Kon L.
BUILDING A	AB05	ROOF SPECIAL	1	1	Job Reference (optional)

California TrusFrame LLC., Perris, CA. 92570

Run: 8.240 s Jan 6 2020 Print: 8.240 s Jan 6 2020 MiTek Industries, Inc. Fri Oct 9 15:57:45 2020 Page 2
ID: EyTyKKJIT05ot2fMsnakVyjfO7-zNzentbebAn4rtCGgD2oU4yjTBLz17AuT3hFPyV3uk

LOAD CASE(S)

Standard Except:
29) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-34(F), 4-10=-34(F), 13-21=-18(F)
Concentrated Loads (lb)
Vert: 25=1050(F)
Horz: 3=300(F)



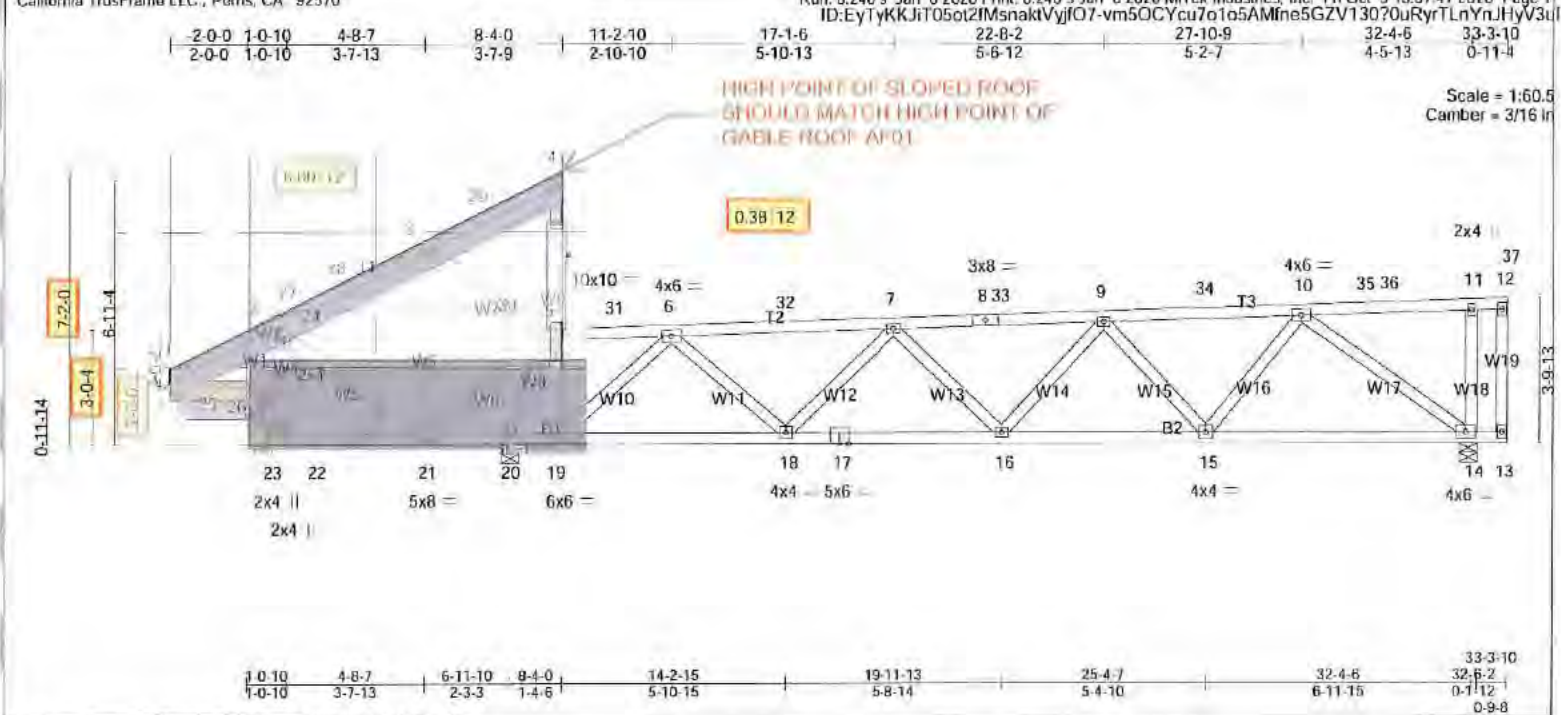


Plate Offsets (X,Y)-- [5:0-7-8,0-5-0], [25:0-2-0,0-0-8]		LOADING (psf)		SPACING--		CSI		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.77	Vert(LL)	-0.08	16-18	>999	240	MT20	220/195	
TCDL	17.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.27	16-18	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.09	14	n/a	n/a			
BCDL	9.0	Code IBC2015/TPI2014		Matrix-MSH									
												Weight: 199 lb	FT = 20%

LUMBER--
 TOP CHORD 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G *Except*
 W9,W1: 2x6 DF No.2 G, W2: 2x4 DF No.2 G

BRACING--
 TOP CHORD
 Structural wood sheathing directly applied or 3-0-3 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 3-0-8 oc bracing.

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)	
20	= 2103/0-5-8 (min 0-2-4)
14	= 1233/0-5-8 (min 0-1-8)
26	= -21/0-5-8 (min 0-1-8)
Max Horz	
20	= -3125(LC 27)
Max Uplift	
20	= -326(LC 9)
14	= -64(LC 9)
26	= -1141(LC 27)
Max Grav	
20	= 2103(LC 1)
14	= 1233(LC 1)
26	= 284(LC 28)

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

TOP CHORD
 2-27=-195/1305, 27-28=-176/1310, 3-28=-161/1361,
 3-29=-356/336, 4-29=-326/362, 5-19=-86/995, 5-30=-358/1146,
 4-30=-358/96, 5-31=-1823/765, 6-31=-1821/767,
 6-32=-2256/175, 7-32=-2252/177, 7-8=-2056/232,
 8-33=-2053/233, 9-33=-2053/235, 9-34=-1546/152,
 10-34=-1540/153

BOT CHORD
 20-21=-3892/449, 19-20=-769/67, 18-19=-255/2134,
 17-18=-352/2246, 16-17=-352/2246, 15-16=-319/1854,
 14-15=-185/1171

WEBS
 2-24=-1207/227, 21-24=-1278/232, 3-21=-1473/87,
 3-5=-39/1385, 5-21=-260/3467, 6-19=-1621/232,
 6-18=-44/984, 7-18=-774/133, 7-16=-282/280, 9-16=-147/385,
 9-15=-587/155, 10-15=-58/710, 10-14=-1431/201,
 5-20=-1988/304, 11-14=-481/19, 2-26=-285/1162

NOTES--
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCCL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-4-6, Interior(1) 1-4-6 to 33-1-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) All plates are 3x4 MT20 unless otherwise indicated.
 4) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 6) A plate rating reduction of 20% has been applied for the green lumber members.
 7) Bearing at joint(s) 26 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 8) Following joints to be plated by qualified designer: Joint(s) 2, not plated.
 9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46 has/have been modified. Building designer must verify loads to verify that they are correct for the intended use of this truss.
 11) This truss has been designed for a 10.0 psf live load and 10.0 psf dead load, and 6.0lb dead located at all mid panels and nonconcurrent with any other live loads.
 12) This truss has large uplift reaction(s) required to secure truss against upward movement. Designer must provide for uplift reactions indicated.
 13) Hanger(s) or other connection device(s) must be provided to support concentrated load(s) 1875 lb left at 8-2 such connection device(s) is the responsibility of the designer.
 14) This truss is designed for a creep factor of 1.0. Building designer must verify the Vert(CT) deflection per ANSI/TPI 1.
 15) In the LOAD CASE(S) section, load cases are noted as front (F) or back (B).

LOAD CASE(S)

Standard Except:

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-4=-74, 5-35=-74, 12-35=-109, 13-23=-18
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-4=-64, 5-35=-64, 12-35=-99, 13-23=-18
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-35=-34, 12-35=-69, 13-23=-38
- 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=57, 2-27=28, 4-27=14, 5-35=18, 12-35=-17, 14-23=-11, 13-14=31
Horz: 1-2=-77, 2-27=-48, 4-27=-34, 4-5=13, 5-12=-38, 12-13=35, 23-25=19
- 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=8, 2-3=14, 3-4=28, 5-35=18, 12-35=-10, 14-23=-11, 13-14=31
Horz: 1-2=-28, 2-3=-34, 3-4=48, 4-5=42, 5-35=-38, 12-35=-45, 12-13=-19, 23-25=-35
- 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=-23, 2-4=-51, 5-35=-47, 12-35=-82, 14-23=-18, 13-14=-11
Horz: 1-2=-11, 2-4=17, 4-5=-16, 5-12=13, 12-13=-32, 23-25=23
- 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=-45, 2-4=-51, 5-35=-47, 12-35=-82, 14-23=-18, 13-14=-11
Horz: 1-2=11, 2-4=17, 4-5=38, 5-12=13, 12-13=23, 23-25=32
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-4=-7, 5-35=5, 12-35=-30, 13-23=-11
Horz: 1-2=-28, 2-4=-13, 4-5=12, 5-12=-25, 12-13=23, 23-25=18
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-4=6, 5-35=23, 12-35=-12, 14-23=-11, 13-14=10
Horz: 1-2=-21, 2-4=-27, 4-5=-29, 5-12=-44, 12-13=-18, 23-25=-23
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-4=-34, 5-35=-22, 12-35=-57, 13-23=-18
Horz: 1-2=-7, 2-4=-0, 4-5=37, 5-12=-12, 12-13=11, 23-25=31
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-4=-20, 5-35=3, 12-35=-38, 14-23=-18, 13-14=3
Horz: 1-2=-21, 2-4=-14, 4-5=-4, 5-12=-31, 12-13=-31, 23-25=-11
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-4=23, 5-35=5, 12-35=-30, 13-23=-11
Horz: 1-2=-38, 2-4=-44, 4-5=-50, 5-12=-25, 12-13=21, 23-25=15
- 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, 2-4=5, 5-35=23, 12-35=-12, 13-23=-11
Horz: 1-2=-19, 2-4=-25, 4-5=31, 5-12=-44, 12-13=-15, 23-25=-21
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-4=10, 5-35=-1, 12-35=-36, 13-23=-11
Horz: 1-2=-24, 2-4=-31, 4-5=-37, 5-12=-19, 12-13=16, 23-25=8
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-4=-1, 5-35=10, 12-35=-25, 13-23=-11
Horz: 1-2=-13, 2-4=-19, 4-5=-26, 5-12=-31, 12-13=-8, 23-25=-16
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-4=-3, 5-35=-22, 12-35=-57, 13-23=-18
Horz: 1-2=-38, 2-4=-31, 4-5=-25, 5-12=-12, 12-13=9, 23-25=28
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-4=-22, 5-35=-3, 12-35=-38, 13-23=-18
Horz: 1-2=-19, 2-4=-12, 4-5=-6, 5-12=-31, 12-13=-28, 23-25=-9
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)

Continued on page 3

Standard Except:

- Vert: 1-2=-34, 2-4=-34, 5-35=-34, 12-35=-69, 13-23=-18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-59, 2-4=-64, 5-35=-55, 12-35=-90, 13-23=-18
Horz: 1-2=-5, 2-4=-0, 4-5=28, 5-12=-9, 12-13=8, 23-25=23
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-4=-53, 5-35=-41, 12-35=-76, 14-23=-18, 13-14=-2
Horz: 1-2=-15, 2-4=-11, 4-5=-3, 5-12=-23, 12-13=-23, 23-25=-8
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-4=-41, 5-35=-55, 12-35=-90, 13-23=-18
Horz: 1-2=-28, 2-4=-23, 4-5=-19, 5-12=-9, 12-13=7, 23-25=21
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-50, 2-4=-55, 5-35=-41, 12-35=-76, 13-23=-18
Horz: 1-2=-9, 2-4=-9, 4-5=-4, 5-12=-23, 12-13=-21, 23-25=-7
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-4=-74, 5-35=-34, 12-35=-69, 13-23=-18
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-35=-74, 12-35=-109, 13-23=-18
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-4=-64, 5-35=-34, 12-35=-69, 13-23=-18
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-35=-64, 12-35=-99, 13-23=-18
- 27) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-35=-34(F), 12-35=-69(F=-34), 13-23=-18(F)
Concentrated Loads (lb)
Horz: 19=-1875(F), 5=5000(F)
- 28) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-35=-34(F), 12-35=-69(F=-34), 13-23=-18(F)
Concentrated Loads (lb)
Vert: 30=1050(F)
Horz: 4=-300(F)
- 29) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-35=-34(F), 12-35=-69(F=-34), 13-23=-18(F)
Concentrated Loads (lb)
Vert: 30=1050(F)
Horz: 4=300(F)
- 30) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-35=-34, 12-35=-69, 13-23=-18
Concentrated Loads (lb)
Vert: 2=306
- 31) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-35=-34, 12-35=-69, 13-23=-18
Concentrated Loads (lb)
Vert: 28=306
- 32) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-35=-34, 12-35=-69, 13-23=-18
Concentrated Loads (lb)
Vert: 29=306
- 33) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-35=-34, 12-35=-69, 13-23=-18
Concentrated Loads (lb)
Vert: 4=306
- 34) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-35=-34, 12-35=-69, 13-23=-18
Concentrated Loads (lb)
Vert: 31=306
- 35) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-35=-34, 12-35=-69, 13-23=-18
Concentrated Loads (lb)
Vert: 32=306

LOAD CASE(S)

Standard

36) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-35=-34, 12-35=-69, 13-23=-18

Concentrated Loads (lb)

Vert: 33=-306

37) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-35=-34, 12-35=-69, 13-23=-18

Concentrated Loads (lb)

Vert: 34=-306

38) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-35=-34, 12-35=-69, 13-23=-18

Concentrated Loads (lb)

Vert: 36=-306

39) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-35=-34, 12-35=-69, 13-23=-18

Concentrated Loads (lb)

Vert: 37=-306

40) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-35=-34, 12-35=-69, 13-23=-18

Concentrated Loads (lb)

Vert: 12=-306

41) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-35=-34, 12-35=-69, 13-23=-18

Concentrated Loads (lb)

Vert: 3=-306

42) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-35=-34, 12-35=-69, 13-23=-18

Concentrated Loads (lb)

Vert: 6=-306

43) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-35=-34, 12-35=-69, 13-23=-18

Concentrated Loads (lb)

Vert: 7=-306

44) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-35=-34, 12-35=-69, 13-23=-18

Concentrated Loads (lb)

Vert: 9=-306

45) 16th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-35=-34, 12-35=-69, 13-23=-18

Concentrated Loads (lb)

Vert: 10=-306

46) 17th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

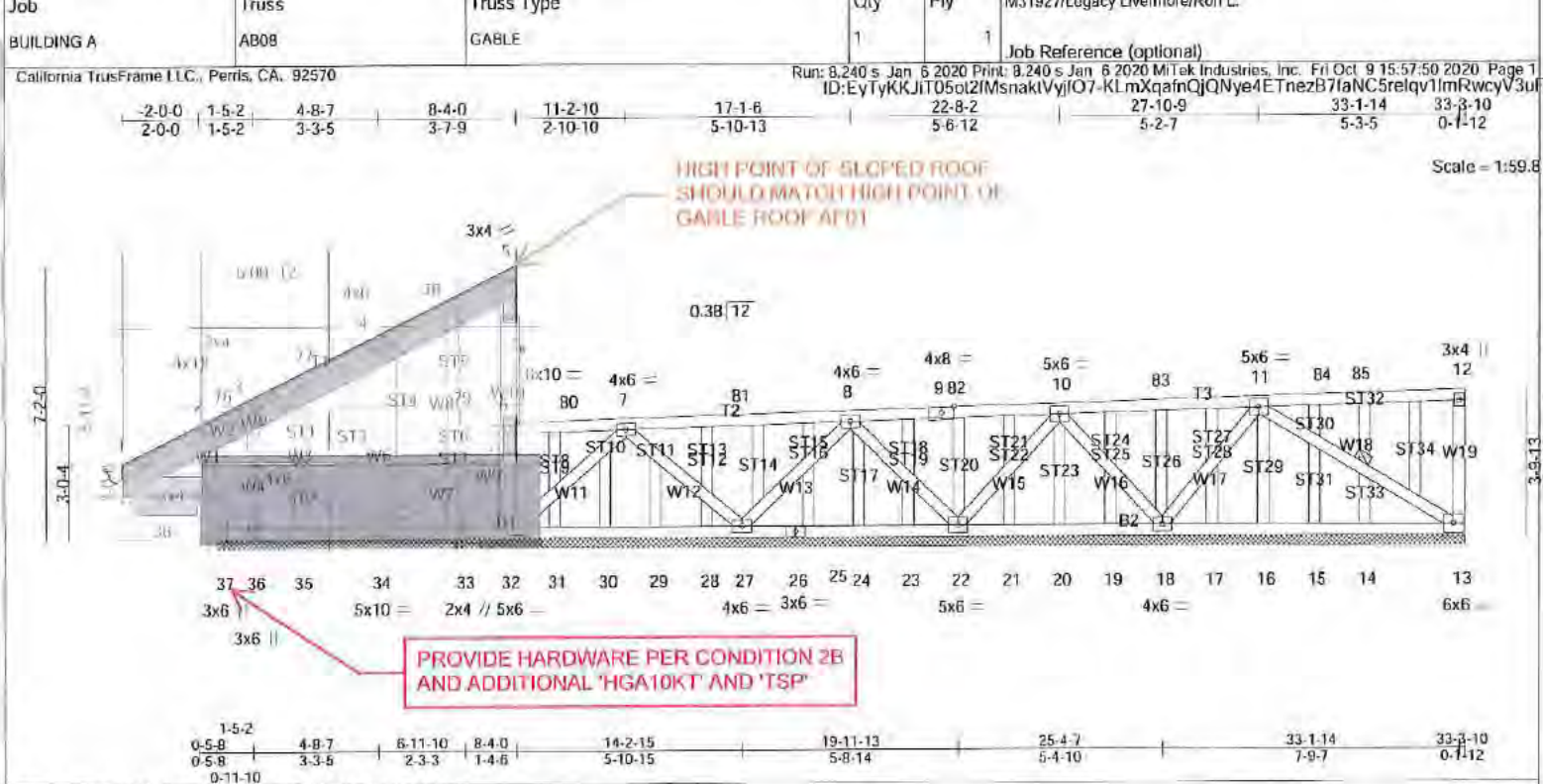
Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-35=-34, 12-35=-69, 13-23=-18

Concentrated Loads (lb)

Vert: 11=-306





LOADING (psf)		SPACING		CSL		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.83	Vert(LL)	0.00	MT20		220/195	
TCDL	17.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.07				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.01				
BCDL	9.0	Code IBC2015/TPI2014		Matrix-MSH							
								Weight: 283 lb		FT = 20%	

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G *Except*
W10,W1: 2x6 DF No.2 G, W2: 2x4 DF No.2 G
OTHERS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 4-3-9 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 4-9-5 oc bracing.
WEBS
1 Row at midpt 2-34, 11-13

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 32-10-2.
(lb) - Max Horz
37= 410(LC 9)
Max Uplift
All uplift 100 lb or less at joint(s) 31 except 32=790(LC 31), 13=935(LC 26), 34=661(LC 25), 27=148(LC 9), 33=773(LC 25), 37=1668(LC 25), 36=446(LC 25), 22=133(LC 25), 18=121(LC 9)
Max Grav
All reactions 250 lb or less at joint(s) 35, 31, 30, 29, 28, 25, 24, 23, 21, 20, 19, 17, 16, 15, 14 except 32=418(LC 24), 13=1304(LC 23), 34=886(LC 24), 27=464(LC 1), 33=837(LC 24), 37=1859(LC 24), 36=596(LC 24), 22=460(LC 24), 18=610(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-76=1972/1956, 3-76=1744/1740, 3-77=1527/1361, 4-77=739/296, 4-78=1453/1401, 5-78=691/569, 6-32=877/940, 6-79=1555/1477, 5-79=1167/146, 7-80=1017/1039, 7-81=1170/1233, 8-81=994/1067, 8-9=1174/1244, 10-82=858/937, 10-83=1364/1454, 11-83=519/617, 11-84=1997/1962, 84-85=1003/973, 12-85=853/873, 12-13=463/0, 37-38=1845/1649, 2-38=1849/1649
BOT CHORD
36-37=586/484, 35-36=1005/949, 34-35=1769/1714, 33-34=1080/1056, 32-33=579/564, 31-32=1259/1363, 30-31=797/852, 29-30=270/401, 28-29=626/730, 27-28=969/1074, 26-27=1168/1255, 25-26=576/662, 24-25=511/597, 23-24=426/512, 22-23=920/1006, 21-22=1284/1310, 20-21=778/804, 19-20=277/303, 18-19=718/745, 17-18=1187/1338, 16-17=701/852, 15-16=200/351, 14-15=687/838, 13-14=1528/1773
WEBS
2-39=1998/2054, 34-39=2273/2337, 4-34=1479/1265, 4-6=1393/1404, 6-34=1212/1238, 7-32=1666/1499, 7-27=1605/1369, 8-27=1802/1578, 8-22=1708/1475, 10-22=1914/1758, 10-18=1843/1658, 11-18=1688/1280, 11-13=2072/1927, 6-33=847/835, 3-39=353/72, 36-39=589/483

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 2-0-0 to 1-5-2, Exterior(2) 1-5-2 to 33-1-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bracing.
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10 psf dead load with any other live loads.
7) * This truss has been designed for a 10 psf dead load in all areas where a rectangle 3-6-0 tall by 2-0-0 wide with any other members.
8) A plate rating reduction of 20% has been applied.
9) This truss is designed in accordance with section 2306.1 and referenced standard.
10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 45, 46, 47, 48, 49 has/have been modified to verify that they are correct for the intended use.
11) This truss has been designed for a 6.0lb dead load located at all mid panels and nonconcurrent with any other live loads.

NOTES-

- 12) This truss has been designed for a total seismic drag load of 12500 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 33-3-10 for 375.4 plf.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.
- 14) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
- 15) 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=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-84=-74, 12-84=-109, 13-37=-18
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-84=-64, 12-84=-99, 13-37=-18
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-84=-34, 12-84=-69, 13-37=-38
- 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=67, 2-3=56, 3-5=28, 6-84=25, 12-84=-10, 13-37=-11, 2-38=-19
Horz: 1-2=-88, 2-3=-77, 3-5=-48, 5-6=13, 6-12=-45, 12-13=36, 2-37=19
- 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=22, 2-4=28, 4-5=56, 6-84=25, 12-84=-10, 13-37=-11, 2-38=36
Horz: 1-2=-42, 2-4=-48, 4-5=-77, 5-6=-42, 6-12=-45, 12-13=-19, 2-37=-36
- 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=-23, 2-5=-51, 6-84=-47, 12-84=82, 13-37=-18, 2-38=23
Horz: 1-2=-11, 2-5=17, 5-6=-17, 6-12=13, 12-13=-32, 2-37=-23
- 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=-45, 2-5=-51, 6-84=-47, 12-84=82, 13-37=-18, 2-38=-32
Horz: 1-2=11, 2-5=17, 5-6=38, 6-12=13, 12-13=23, 2-37=32
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-5=-7, 6-84=5, 12-84=-30, 13-37=-11, 2-38=-18
Horz: 1-2=-28, 2-5=-13, 5-6=12, 6-12=-25, 12-13=23, 2-37=18
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-5=6, 6-84=23, 12-84=-12, 13-37=11, 2-38=23
Horz: 1-2=-21, 2-5=-27, 5-6=-29, 6-12=-44, 12-13=-18, 2-37=-23
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-5=-34, 6-84=-22, 12-84=-57, 13-37=-18, 2-38=-31
Horz: 1-2=-7, 2-5=0, 5-6=37, 6-12=-12, 12-13=11, 2-37=31
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-5=-20, 6-84=-3, 12-84=-38, 13-37=-18, 2-38=11
Horz: 1-2=21, 2-5=14, 5-6=-4, 6-12=31, 12-13=31, 2-37=-11
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-5=23, 6-84=5, 12-84=-30, 13-37=-11, 2-38=-15
Horz: 1-2=-38, 2-5=-44, 5-6=-50, 6-12=-25, 12-13=-21, 2-37=15
- 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, 2-5=5, 6-84=23, 12-84=-12, 13-37=-11, 2-38=21
Horz: 1-2=-19, 2-5=-25, 5-6=-31, 6-12=-44, 12-13=-15, 2-37=-21
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=10, 6-84=-1, 12-84=-36, 13-37=-11, 2-38=-8
Horz: 1-2=-24, 2-5=-31, 5-6=-37, 6-12=-19, 12-13=16, 2-37=8
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-5=-1, 6-84=10, 12-84=-25, 13-37=-11, 2-38=16
Horz: 1-2=-19, 2-5=-26, 6-12=-31, 12-13=-8, 2-37=-16

Standard Except:

- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-4, 2-5=-3, 6-84=-22, 12-84=-57, 13-37=-18, 2-38=-28
Horz: 1-2=-38, 2-5=-31, 5-6=-25, 6-12=-12, 12-13=-9, 2-37=28
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-5=-22, 6-84=-3, 12-84=-38, 13-37=-18, 2-38=-9
Horz: 1-2=-19, 2-5=-12, 5-6=-6, 6-12=-31, 12-13=-28, 2-37=-9
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-84=-34, 12-84=-69, 13-37=-18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-59, 2-5=-64, 6-84=-55, 12-84=-90, 13-37=-18, 2-38=-23
Horz: 1-2=-5, 2-5=-40, 5-6=-28, 6-12=-9, 12-13=8, 2-37=23
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-5=-53, 6-84=-41, 12-84=-76, 13-37=-18, 2-38=-8
Horz: 1-2=-15, 2-5=-11, 5-6=-3, 6-12=-23, 12-13=-23, 2-37=-8
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-5=-41, 6-84=-55, 12-84=-90, 13-37=-18, 2-38=-21
Horz: 1-2=-28, 2-5=-23, 5-6=-19, 6-12=-9, 12-13=7, 2-37=21
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-50, 2-5=-55, 6-84=-41, 12-84=-76, 13-37=-18, 2-38=-7
Horz: 1-2=-14, 2-5=-9, 5-6=-4, 6-12=-23, 12-13=-21, 2-37=-7
- 23) Dead-Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-154, 6-7=-23, 7-84=-22, 12-84=-57, 13-37=-18
Horz: 2-5=751, 6-80=12966, 7-80=12966, 7-81=12011, 8-81=12011, 8-9=12011, 9-82=12011, 82-83=12011, 11-83=12011, 11-84=12011, 12-84=12011
Drag: 5-6=375, 13-37=375
- 24) Dead-Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-222, 6-7=-45, 7-84=-46, 12-84=-81, 13-37=-18
Horz: 2-5=751, 6-80=-12966, 7-80=-12966, 7-81=-12011, 8-81=-12011, 8-9=-12011, 9-82=-12011, 82-83=-12011, 11-83=-12011, 11-84=-12011, 12-84=-12011
Drag: 5-6=375, 13-37=375
- 25) 0.6 Dead-Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-20, 2-5=-167, 6-7=-10, 7-84=-9, 12-84=-30, 13-37=-11
Horz: 2-5=751, 6-80=12966, 7-80=12966, 7-81=12011, 8-81=12011, 8-9=12011, 9-82=12011, 82-83=12011, 11-83=12011, 11-84=12011, 12-84=12011
Drag: 5-6=375, 13-37=375
- 26) 0.6 Dead-Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-20, 2-5=-208, 6-7=-31, 7-84=-32, 12-84=-53, 13-37=-11
Horz: 2-5=751, 6-80=-12966, 7-80=-12966, 7-81=-12011, 8-81=-12011, 8-9=-12011, 9-82=-12011, 82-83=-12011, 11-83=-12011, 11-84=-12011, 12-84=-12011
Drag: 5-6=375, 13-37=375
- 27) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-84=-34, 12-84=-69, 13-37=-18
- 28) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-84=-74, 12-84=-109, 13-37=-18
- 29) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-84=-34, 12-84=-69, 13-37=-18
- 30) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-84=-64, 12-84=-109, 13-37=-18
- 31) F3 Left&F4 Anchor Check: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-84=-34(F)
Concentrated Loads (lb)
Vert: 79=1050(F)
Horz: 5=-300(F)
- 32) F3 Right&F4 Anchor Check: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-84=-34(F), 12-84=-69(F), 13-37=-18(F)

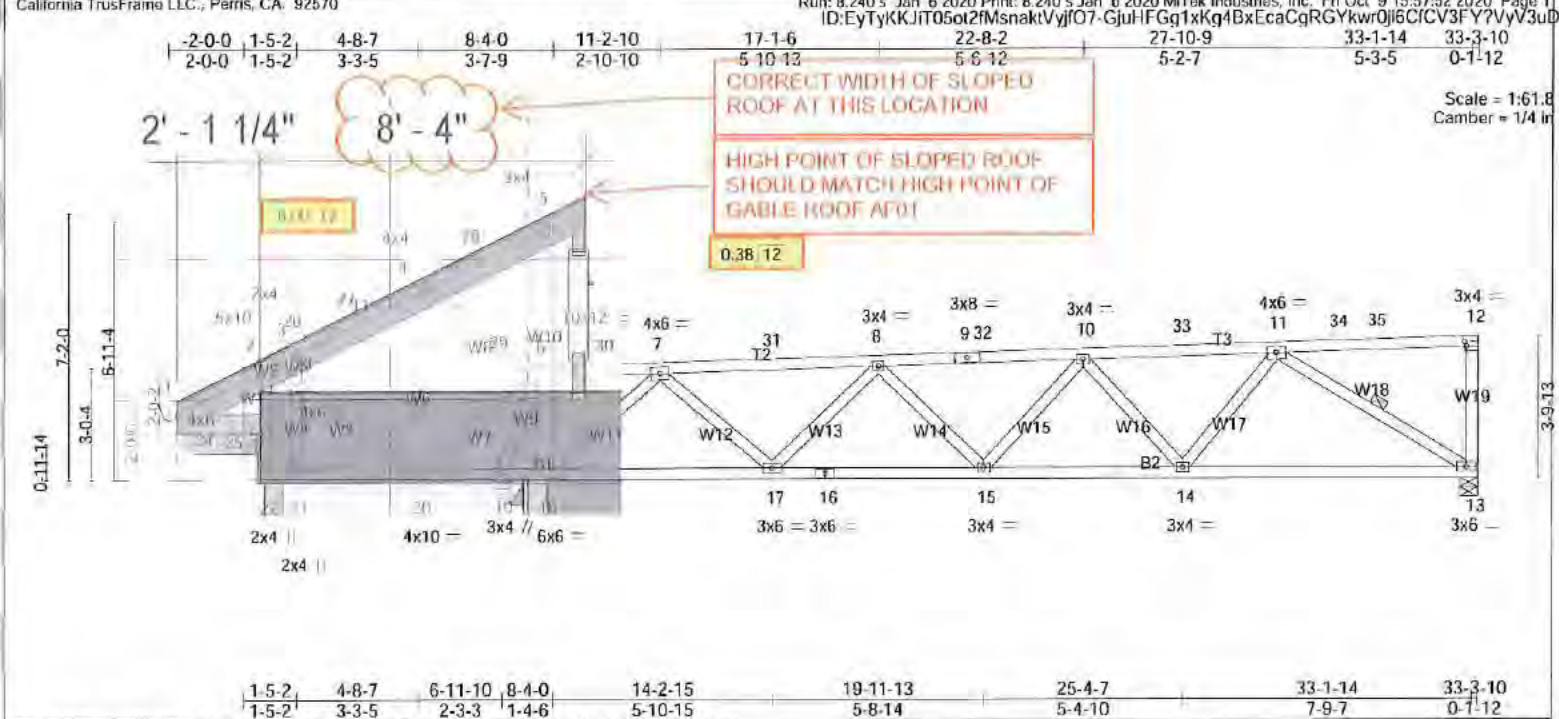
LOAD CASE(S)

- Standard Except:
- Concentrated Loads (lb)
Vert: 79=1050(F)
Horz: 5=300(F)
- 33) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-84=-34, 12-84=-69, 13-37=-18
Concentrated Loads (lb)
Vert: 2=-306
- 34) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-84=-34, 12-84=-69, 13-37=-18
Concentrated Loads (lb)
Vert: 76=-306
- 35) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-84=-34, 12-84=-69, 13-37=-18
Concentrated Loads (lb)
Vert: 77=-306
- 36) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-84=-34, 12-84=-69, 13-37=-18
Concentrated Loads (lb)
Vert: 78=-306
- 37) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-84=-34, 12-84=-69, 13-37=-18
Concentrated Loads (lb)
Vert: 5=-306
- 38) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-84=-34, 12-84=-69, 13-37=-18
Concentrated Loads (lb)
Vert: 80=-306
- 39) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-84=-34, 12-84=-69, 13-37=-18
Concentrated Loads (lb)
Vert: 81=-306
- 40) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-84=-34, 12-84=-69, 13-37=-18
Concentrated Loads (lb)
Vert: 82=-306
- 41) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-84=-34, 12-84=-69, 13-37=-18
Concentrated Loads (lb)
Vert: 83=-306
- 42) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-84=-34, 12-84=-69, 13-37=-18
Concentrated Loads (lb)
Vert: 85=-306
- 43) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-84=-34, 12-84=-69, 13-37=-18
Concentrated Loads (lb)
Vert: 12=-306
- 44) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-84=-34, 12-84=-69, 13-37=-18
Concentrated Loads (lb)
Vert: 3=-306
- 45) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-84=-34, 12-84=-69, 13-37=-18
Concentrated Loads (lb)
Vert: 4=-306
- 46) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-84=-34, 12-84=-69, 13-37=-18
Concentrated Loads (lb)
Vert: 7=-306
- 47) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-84=-34, 12-84=-69, 13-37=-18
Concentrated Loads (lb)
Vert: 8=-306
- 48) 16th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-84=-34, 12-84=-69, 13-37=-18
Concentrated Loads (lb)

Standard

- Vert: 10=-306
- 49) 17th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-84=-34, 12-84=-69, 13-37=-18
Concentrated Loads (lb)
Vert: 11=-306





LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.83	Vert(LL)	-0.10 13-14 >999	MT20		220/195	
TCDL	17.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.35 13-14 >903				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.09 13 n/a				
BCDL	9.0	Code IBC2015/TPI2014		Matrix-MSH							
								Weight: 197 lb		FT = 20%	

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G *Except*
W10, W1: 2x6 DF No.2 G, W2: 2x4 DF No.2 G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 2-10-4 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 2-11-12 oc bracing.
WEBS
1 Row at midpt 11-13

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)	
19 =	2209/0-5-8 (min. 0-2-6)
13 =	1182/0-5-8 (min. 0-1-8)
25 =	-76/0-5-8 (min. 0-1-8)
Max Horz	
19 =	-3125(LC 27)
Max Uplift	
19 =	-332(LC 9)
13 =	-45(LC 9)
25 =	-1190(LC 27)
Max Grav	
19 =	2209(LC 1)
13 =	1182(LC 1)
25 =	254(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-26=-203/1316, 3-26=-199/1326, 3-27=-190/1386,
4-27=-164/1416, 4-28=-354/317, 5-28=-325/363, 6-18=-68/1034,
6-29=-358/1146, 5-29=-358/96, 6-30=-1724/824,
7-30=-1721/827, 7-31=-2252/172, 8-31=-2249/174,
8-9=-2128/235, 9-32=-2125/237, 10-32=-2124/238,
10-33=-1732/153, 11-33=-1721/154, 12-13=-466/0
BOT CHORD
19-20=-4018/455, 18-19=-848/69, 17-18=-251/2083,
16-17=-353/2282, 15-16=-353/2282, 14-15=-323/1988,
13-14=-195/1396
WEBS
2-23=-1301/231, 20-23=-1336/235, 4-20=-1537/90,
4-6=-43/1436, 6-20=-270/3572, 7-18=-1700/236, 7-17=-47/1060,

LOAD CASE(S)

- Standard Except:
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-34=-74, 12-34=-109, 13-22=-18
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-34=-64, 12-34=-99, 13-22=-18
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-22=-38
- 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=57, 2-3=28, 3-5=14, 6-34=18, 12-34=-17, 13-22=-11
Horz: 1-2=-77, 2-3=-48, 3-5=-34, 5-6=13, 6-12=-38, 12-13=35, 22-24=19
- 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=8, 2-4=14, 4-5=28, 6-34=18, 12-34=-10, 13-22=-11
Horz: 1-2=-28, 2-4=-34, 4-5=-48, 5-6=-42, 6-34=-38, 12-34=-45, 12-13=-19, 22-24=-35
- 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=-23, 2-5=-51, 6-34=-47, 12-34=82, 13-22=-18
Horz: 1-2=-11, 2-5=17, 5-6=-16, 6-12=13, 12-13=-32, 22-24=-23
- 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=-45, 2-5=-51, 6-34=-47, 12-34=82, 13-22=-18
Horz: 1-2=11, 2-5=17, 5-6=38, 6-12=13, 12-13=23, 22-24=32
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-5=-7, 6-34=5, 12-34=-30, 13-22=-11
Horz: 1-2=-28, 2-5=-13, 5-6=12, 6-12=-25, 12-13=23, 22-24=18
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-5=6, 6-34=23, 12-34=-12, 13-22=-11
Horz: 1-2=-21, 2-5=-27, 5-6=-29, 6-12=-44, 12-13=-18, 22-24=-23
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-5=-34, 6-34=-22, 12-34=-57, 13-22=-18
Horz: 1-2=-7, 2-5=-0, 5-6=37, 6-12=12, 12-13=11, 22-24=31
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-5=-20, 6-34=-3, 12-34=-38, 13-22=-18
Horz: 1-2=-21, 2-5=-14, 5-6=-4, 6-12=-31, 12-13=-31, 22-24=-11
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-5=23, 6-34=5, 12-34=-30, 13-22=-11
Horz: 1-2=-38, 2-5=-44, 5-6=-50, 6-12=-25, 12-13=21, 22-24=15
- 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, 2-5=5, 6-34=23, 12-34=-12, 13-22=-11
Horz: 1-2=-19, 2-5=-25, 5-6=-31, 6-12=-44, 12-13=-15, 22-24=-21
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=10, 6-34=-1, 12-34=-36, 13-22=-11
Horz: 1-2=-24, 2-5=-31, 5-6=-37, 6-12=-19, 12-13=16, 22-24=8
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-5=-1, 6-34=10, 12-34=-25, 13-22=-11
Horz: 1-2=-13, 2-5=-19, 5-6=-26, 6-12=-31, 12-13=-8, 22-24=-16
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=-3, 6-34=-22, 12-34=-57, 13-22=-18
Horz: 1-2=-38, 2-5=-31, 5-6=-25, 6-12=-12, 12-13=9, 22-24=28
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-5=-22, 6-34=-3, 12-34=-38, 13-22=-18
Horz: 1-2=-19, 2-5=-12, 5-6=-6, 6-12=-31, 12-13=-28, 22-24=-9
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)

Continued on page 3

- Standard Except:
- Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-22=-18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-59, 2-5=-64, 6-34=-55, 12-34=-90, 13-22=-18
Horz: 1-2=-5, 2-5=-0, 5-6=28, 6-12=-9, 12-13=8, 22-24=23
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-5=-53, 6-34=-41, 12-34=-76, 13-22=-18
Horz: 1-2=-15, 2-5=-11, 5-6=-3, 6-12=-23, 12-13=-23, 22-24=-8
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-5=-41, 6-34=-55, 12-34=-90, 13-22=-18
Horz: 1-2=-28, 2-5=-23, 5-6=-19, 6-12=-9, 12-13=7, 22-24=21
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-50, 2-5=-55, 6-34=-41, 12-34=-76, 13-22=-18
Horz: 1-2=-14, 2-5=-9, 5-6=-4, 6-12=-23, 12-13=-21, 22-24=-7
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-34=-34, 12-34=-69, 13-22=-18
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-74, 12-34=-109, 13-22=-18
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-34=-34, 12-34=-69, 13-22=-18
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-64, 12-34=-99, 13-22=-18
- 27) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-34=-34(F), 12-34=-69(F=-34), 13-22=-18(F)
Concentrated Loads (lb)
Horz: 18=-1875(F), 6=5000(F)
- 28) F3 Left& F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-34=-34(F), 12-34=-69(F=-34), 13-22=-18(F)
Concentrated Loads (lb)
Vert: 29=1050(F)
Horz: 5=-300(F)
- 29) F3 Right& F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-34=-34(F), 12-34=-69(F=-34), 13-22=-18(F)
Concentrated Loads (lb)
Vert: 29=1050(F)
Horz: 5=300(F)
- 30) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-22=-18
Concentrated Loads (lb)
Vert: 2=-306
- 31) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-22=-18
Concentrated Loads (lb)
Vert: 26=-306
- 32) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-22=-18
Concentrated Loads (lb)
Vert: 27=-306
- 33) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-22=-18
Concentrated Loads (lb)
Vert: 28=-306
- 34) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-22=-18
Concentrated Loads (lb)
Vert: 5=-306
- 35) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-22=-18
Concentrated Loads (lb)
Vert: 30=-306

LOAD CASE(S)

- Standard
- 36) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-22=-18
Concentrated Loads (lb)
Vert: 31=-306
- 37) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-22=-18
Concentrated Loads (lb)
Vert: 32=-306
- 38) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-22=-18
Concentrated Loads (lb)
Vert: 33=-306
- 39) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-22=-18
Concentrated Loads (lb)
Vert: 35=-306
- 40) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-22=-18
Concentrated Loads (lb)
Vert: 12=-306
- 41) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-22=-18
Concentrated Loads (lb)
Vert: 3=-306
- 42) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-22=-18
Concentrated Loads (lb)
Vert: 4=-306
- 43) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-22=-18
Concentrated Loads (lb)
Vert: 7=-306
- 44) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-22=-18
Concentrated Loads (lb)
Vert: 8=-306
- 45) 16th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-22=-18
Concentrated Loads (lb)
Vert: 10=-306
- 46) 17th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-34=-34, 12-34=-69, 13-22=-18
Concentrated Loads (lb)
Vert: 11=-306



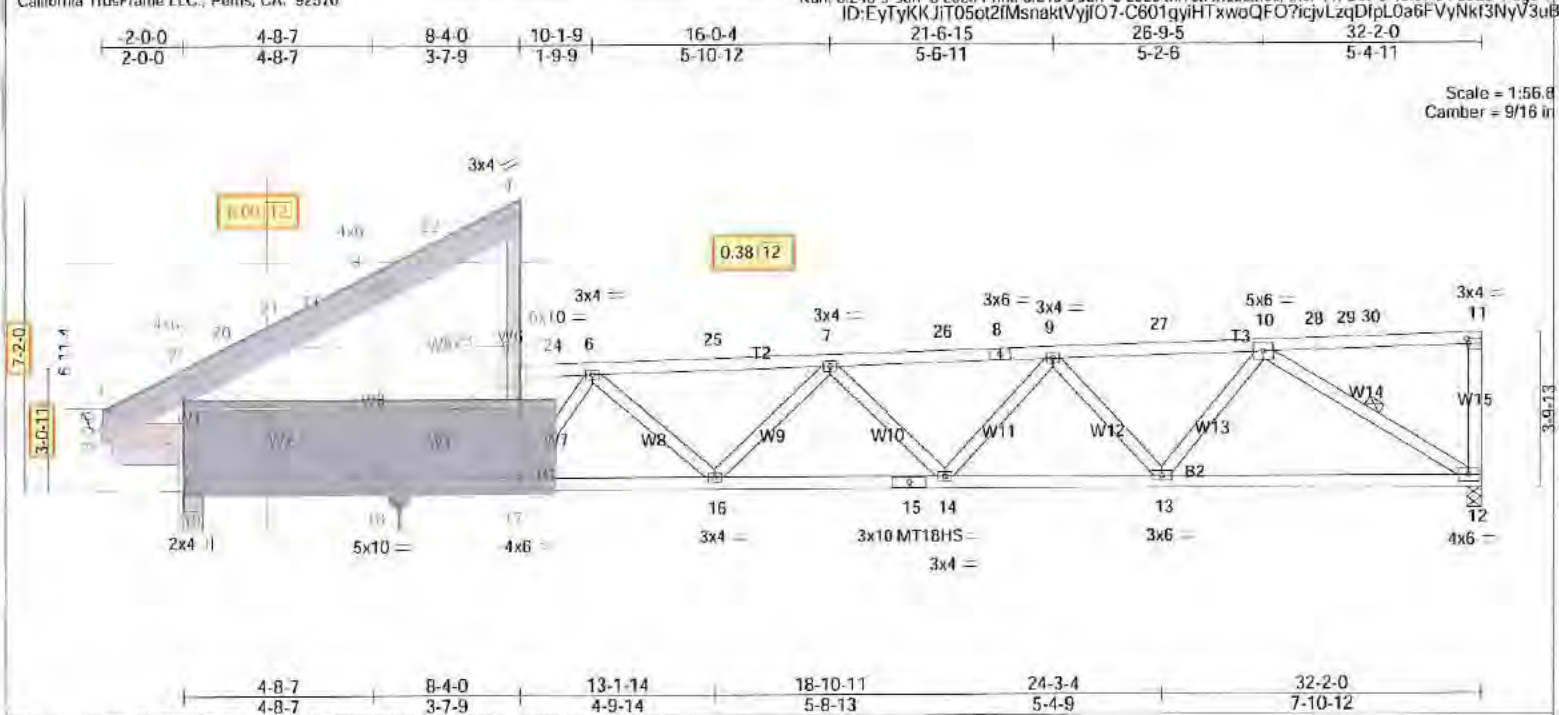


Plate Offsets (X,Y) -- [2:0-3,0-1-8], [5:0-7-8,0-3-12], [11:0-0-9,0-1-8]		CSL		DEFL		PLATES		GRIP	
LOADING (psf)	SPACING	2-0-0	TC	0.94	in (log)	l/defl	L/d	MT20	220/195
TCLL 20.0	Plate Grip DOL	1.25	BC	0.74	0.25 16-17	>999	240	MT18HS	220/195
TCDL 17.0	Lumber DOL	1.25	WB	0.90	Vert(CT) 0.79 14-16	>484	180		
BCLL 0.0 *	Rep Stress Incr	YES	Matrix-MSH		Horz(CT) 0.23 12	n/a	n/a		
BCDL 9.0	Code IBC2015/TP12014							Weight: 182 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G *Except*
 W6: 2x6 DF No.2 G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS
 1 Row at midpt 10-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
 12 = 1593/0-4-0 (min. 0-1-11)
 19 = 1639/0-5-8 (min. 0-1-12)
 Max Horz
 19 = -3125(LC 27)
 Max Uplift
 12 = -99(LC 9)
 19 = -29(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 2-20=-1358/101, 20-21=-1282/128, 3-21=-1276/163,
 3-22=-348/303, 4-22=-318/349, 5-17=-602/897, 5-23=-334/1145,
 4-23=-334/95, 5-24=-5668/1069, 6-24=-5661/1073,
 6-25=-4814/602, 7-25=-4811/604, 7-26=-3812/496,
 8-26=-3809/497, 8-9=-3808/499, 9-27=-2682/289,
 10-27=-2671/291, 11-12=-469/0, 2-19=-1602/224
 BOT CHORD
 18-19=-513/3120, 17-18=-1044/3730, 16-17=-803/5168,
 15-16=-688/4389, 14-15=-688/4389, 13-14=-524/3301,
 12-13=-281/2025
 WEBS
 3-18=-490/1015, 3-5=-1327/355, 5-18=-2642/932,
 6-16=-492/789, 7-16=-607/609, 7-14=-846/294, 9-14=-162/918,
 9-13=-1081/251, 10-13=-137/1195, 10-12=-2356/308,
 2-18=-137/1332, 6-17=-1004/800

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

2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCCL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-2-11, Interior(1) 1-2-11 to 32-0-4 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
 3) All plates are MT20 plates unless otherwise indicated.
 4) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 6) A plate rating reduction of 20% has been applied for the green lumber members.
 7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 8) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 9) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 8-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 11) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
 12) 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 Uniform Loads (plf)
 Vert: 1-2=-74, 2-4=-74, 5-28=-74, 11-28=-74
 2) Dead + 0.75 Roof Live (balanced); Lumber Uniform Loads (plf)
 Vert: 1-2=-64, 2-4=-64, 5-28=-64, 11-28=-64
 3) Dead + Uninhabitable Attic Without Storage Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-34
 4) Dead + 0.6 C-C Wind (Pos. Internal) Increase=1.60
 Uniform Loads (plf)

LOAD CASE(S)

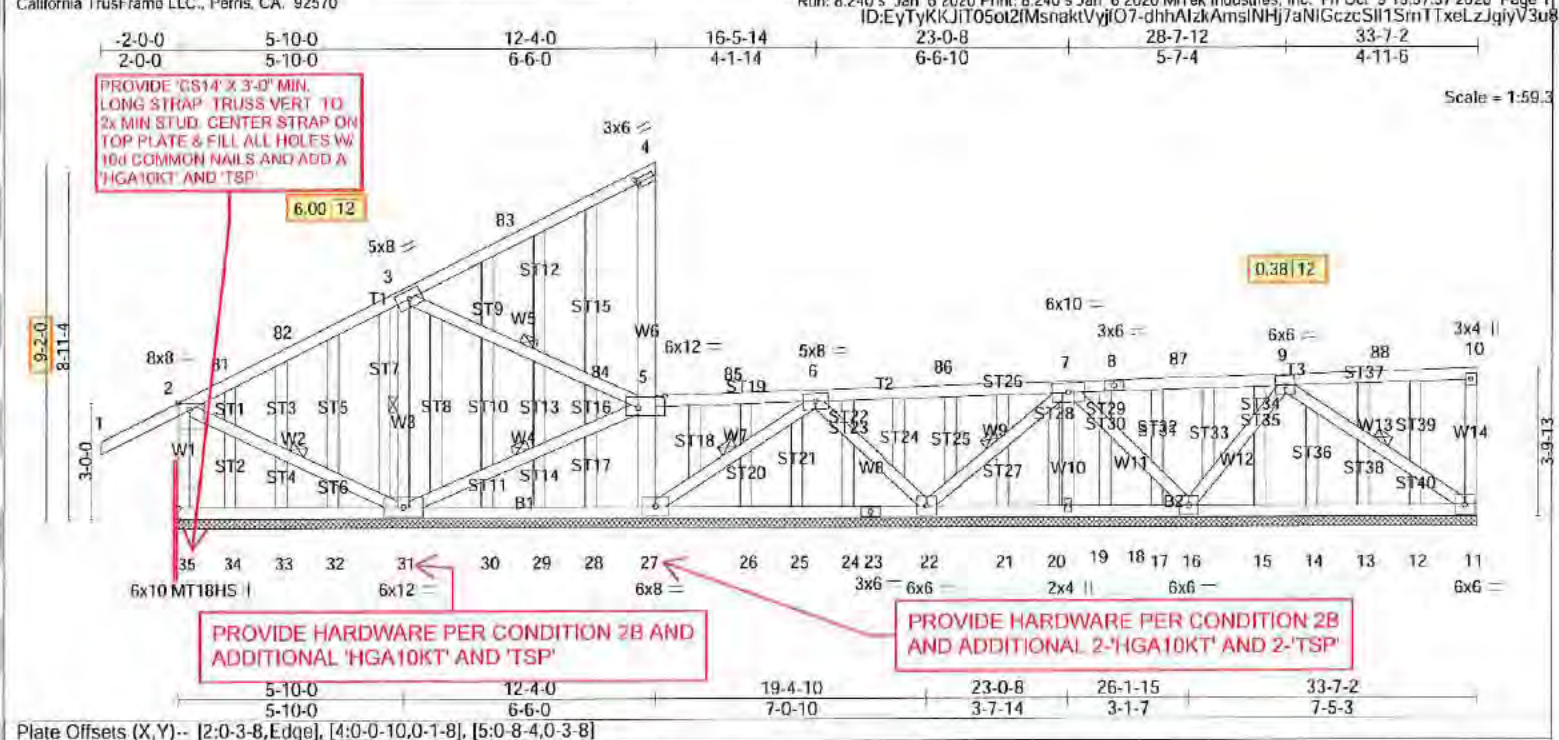
- Standard Except:
- Uniform Loads (plf)
- Vert: 1-2=57, 2-20=28, 4-20=14, 5-28=18, 11-28=17, 12-19=11
- Horz: 1-2=-77, 2-20=-48, 4-20=-34, 4-5=13, 5-11=-38, 11-12=35, 2-19=19
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=8, 2-3=14, 3-4=28, 5-28=18, 28-29=17, 11-29=10, 12-19=11
- Horz: 1-2=-28, 2-3=-34, 3-4=-48, 4-5=42, 5-29=-38, 11-29=-45, 11-12=-19, 2-19=-35
- 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=-23, 2-4=-51, 5-28=-47, 11-28=-82, 12-19=-18
- Horz: 1-2=-11, 2-4=17, 4-5=-16, 5-11=13, 11-12=32, 2-19=23
- 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=-45, 2-4=-51, 5-28=-47, 11-28=-82, 12-19=-18
- Horz: 1-2=11, 2-4=17, 4-5=38, 5-11=13, 11-12=23, 2-19=32
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=7, 2-4=7, 5-28=5, 11-28=30, 12-19=11
- Horz: 1-2=-28, 2-4=-13, 4-5=12, 5-11=-25, 11-12=23, 2-19=18
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=0, 2-4=6, 5-28=23, 11-28=-12, 12-19=-11
- Horz: 1-2=-21, 2-4=-27, 4-5=-29, 5-11=-44, 11-12=-18, 2-19=-23
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-27, 2-4=-34, 5-28=-22, 11-28=-57, 12-19=-18
- Horz: 1-2=7, 2-4=0, 4-5=37, 5-11=-12, 11-12=11, 2-19=31
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=13, 2-4=-20, 5-28=3, 11-28=-38, 12-19=-18
- Horz: 1-2=-21, 2-4=-14, 4-5=-4, 5-11=-31, 11-12=-31, 2-19=-11
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=17, 2-4=23, 5-28=5, 11-28=30, 12-19=11
- Horz: 1-2=-38, 2-4=-44, 4-5=-50, 5-11=-25, 11-12=21, 2-19=15
- 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, 2-4=5, 5-28=23, 11-28=-12, 12-19=11
- Horz: 1-2=-19, 2-4=-25, 4-5=-31, 5-11=-44, 11-12=-15, 2-19=-21
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=4, 2-4=10, 5-28=-1, 11-28=-36, 12-19=-11
- Horz: 1-2=24, 2-4=-31, 4-5=-37, 5-11=-19, 11-12=16, 2-19=8
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-7, 2-4=-1, 5-28=10, 11-28=-25, 12-19=11
- Horz: 1-2=-13, 2-4=-19, 4-5=-26, 5-11=31, 11-12=-8, 2-19=-16
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=4, 2-4=-3, 5-28=-22, 11-28=-57, 12-19=-18
- Horz: 1-2=-38, 2-4=-31, 4-5=-25, 5-11=-12, 11-12=9, 2-19=28
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-15, 2-4=-22, 5-28=3, 11-28=-38, 12-19=-18
- Horz: 1-2=-19, 2-4=-12, 4-5=-6, 5-11=-31, 11-12=28, 2-19=-9
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=34, 11-28=-69, 12-19=-18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-59, 2-4=-64, 5-28=-55, 11-28=-90, 12-19=-18
- Horz: 1-2=-5, 2-4=-0, 4-5=28, 5-11=-9, 11-12=8, 2-19=23
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-49, 2-4=-53, 5-28=-41, 11-28=-76, 12-19=-18
- Horz: 1-2=-15, 2-4=-11, 4-5=3, 5-11=-23, 11-12=-23, 2-19=-8

- Standard Except:
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-36, 2-4=-41, 5-28=-55, 11-28=-90, 12-19=-18
- Horz: 1-2=-28, 2-4=-23, 4-5=-19, 5-11=-9, 11-12=7, 2-19=21
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-50, 2-4=-55, 5-28=-41, 11-28=-76, 12-19=-18
- Horz: 1-2=-14, 2-4=-9, 4-5=-4, 5-11=-23, 11-12=-21, 2-19=-7
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-74, 2-4=-74, 5-28=-34, 11-28=-69, 12-19=-18
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-74, 11-28=-109, 12-19=-18
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-64, 2-4=-64, 5-28=-34, 11-28=-69, 12-19=-18
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-64, 11-28=-99, 12-19=-18
- 27) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-34(F), 2-4=-34(F), 5-28=34(F), 11-28=-69(F=-34), 12-19=-18(F)
- Concentrated Loads (lb)
- Horz: 17=-1875(F), 5=5000(F)
- 28) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-34(F), 2-4=-34(F), 5-28=-34(F), 11-28=-69(F=-34), 12-19=-18(F)
- Concentrated Loads (lb)
- Vert: 23=1050(F)
- Horz: 4=-300(F)
- 29) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-34(F), 2-4=-34(F), 5-28=-34(F), 11-28=-69(F=-34), 12-19=-18(F)
- Concentrated Loads (lb)
- Vert: 23=1050(F)
- Horz: 4=300(F)
- 30) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
- Concentrated Loads (lb)
- Vert: 2=-306
- 31) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
- Concentrated Loads (lb)
- Vert: 21=-306
- 32) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
- Concentrated Loads (lb)
- Vert: 22=-306
- 33) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
- Concentrated Loads (lb)
- Vert: 4=-306
- 34) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
- Concentrated Loads (lb)
- Vert: 24=-306
- 35) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
- Concentrated Loads (lb)
- Vert: 25=-306
- 36) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
- Concentrated Loads (lb)
- Vert: 26=-306
- 37) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
- Concentrated Loads (lb)
- Vert: 27=-306
- 38) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

LOAD CASE(S)

- Standard
- Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
 - Concentrated Loads (lb)
Vert: 30=-306
- 39) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
 - Concentrated Loads (lb)
Vert: 11=-306
- 40) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
 - Concentrated Loads (lb)
Vert: 3=-306
- 41) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
 - Concentrated Loads (lb)
Vert: 6=-306
- 42) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
 - Concentrated Loads (lb)
Vert: 7=-306
- 43) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
 - Concentrated Loads (lb)
Vert: 9=-306
- 44) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
 - Concentrated Loads (lb)
Vert: 10=-306





LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.85	in (loc)	l/defl	MT20		220/195	
TCDL	17.0	Lumber DOL	1.25	BC	0.41	Vert(LL)	0.00	MT18HS		220/195	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Vert(CT)	0.04	Weight: 303 lb FT = 20%			
BCDL	9.0	Code IBC2015/TPI2014		Matrix-SH		Horz(CT)	0.04				

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G *Except*
T1: 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G *Except*
W6: 2x6 DF No.2 G, W5,W4,W7,W1,W2: 2x4 DF No.2 G
OTHERS 2x4 DF Stud/Std G
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 3-10-11 oc bracing.
WEBS
1 Row at midpt 3-31, 3-5, 5-31, 6-27, 7-22, 9-11, 2-31
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

BOT CHORD
34-35=-779/3108, 33-34=-1156/3108, 32-33=-1783/3108,
31-32=-2644/3108, 30-31=-2506/2497, 29-30=-1485/1477,
28-29=-858/850, 27-28=-455/447, 26-27=-1934/2083,
25-26=-729/1016, 24-25=-413/1016, 23-24=-688/1016,
22-23=-1379/1528, 21-22=-1780/1780, 20-21=-864/865,
19-20=-330/390, 18-19=-1017/1017, 17-18=-1406/1407,
16-17=-1342/1445, 15-16=-477/580, 14-15=-699/803,
13-14=-1327/1367, 12-13=-2008/2111
WEBS
3-31=-2502/2161, 3-5=-2651/2634, 5-31=-2113/2531,
6-27=-3001/2834, 6-22=-2234/1913, 7-22=-2453/2355,
7-16=-2430/2332, 9-16=-2088/1800, 9-11=-2561/2447,
2-31=-3538/3572, 7-19=-359/151

REACTIONS. All bearings 33-7-2,
(lb) - Max Horz
35=-3125(LC 31)
Max Uplift
All uplift 100 lb or less at joint(s) 34, 33, 29, 26, 26,
25, 12 except 27=-2303(LC 25), 11=-1377(LC 26),
31=-1451(LC 25), 22=-128(LC 13), 16=-117(LC 13), 35=-3109(LC
25), 19=-147(LC 25)
Max Grav
All reactions 250 lb or less at joint(s) 34, 33, 32, 30, 29,
28, 26, 25, 24, 21, 20, 18, 17, 15, 14, 13, 12 except
27=2715(LC 24), 11=1573(LC 23), 31=1821(LC 24), 22=727(LC
31), 16=462(LC 46), 35=3413(LC 24), 19=365(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-81=-3669/3570, 81-82=-2993/2413, 3-82=-907/933,
3-83=-3364/3261, 4-83=-1509/1451, 5-27=-1019/1101,
5-84=-2913/2486, 4-84=-396/239, 5-85=-2026/604,
6-85=-2470/2468, 6-86=-256/207, 7-86=-1711/1790,
7-8=-1693/1756, 8-87=-372/440, 9-87=-895/967,
9-88=-2259/2244, 10-88=-882/1030, 10-11=-374/51,
2-35=-3353/3063
BOT CHORD
34-35=-779/3108, 33-34=-1156/3108, 32-33=-1783/3108,
31-32=-2644/3108, 30-31=-2506/2497, 29-30=-1485/1477,
28-29=-858/850, 27-28=-455/447, 26-27=-1934/2083,
25-26=-729/1016, 24-25=-413/1016, 23-24=-688/1016,

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf;
BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone
and C-C Corner(3) -2-0-0 to 1-4-6, Exterior(2) 1-4-6 to 33-5-6 zone; cantilever left and
right exposed ; end vertical left and right exposed; C-C for members and forces &
MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to
wind (normal to the face), see Standard Industry Gable End Details as applicable, or
consult qualified building designer as per ANSI/TPI 1.
4) All plates are MT20 plates unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 1-4-0 oc.
7) This truss has been designed for a 10.0 psf live load concurrent with any other live loads.
8) * This truss has been designed for a live load in all areas where a rectangle 3-6-0 tall by 2-0-0 wide is applied concurrent with any other members.
9) A plate rating reduction of 20% has been applied.
10) This truss is designed in accordance with section 2306.1 and referenced standard.
11) Load case(s) 31, 32, 33 has/have been used to verify that they are correct for the design.
12) This truss has been designed for a maximum live and dead load of 6.0lb dead located at all mid panels and a nonconcurrent with any other live loads.
13) This truss has been designed for a total dead load of (1.33) Plate grip DOL=(1.33) Connection chord from 0-0-0 to 33-7-2 for 470.3 plf.

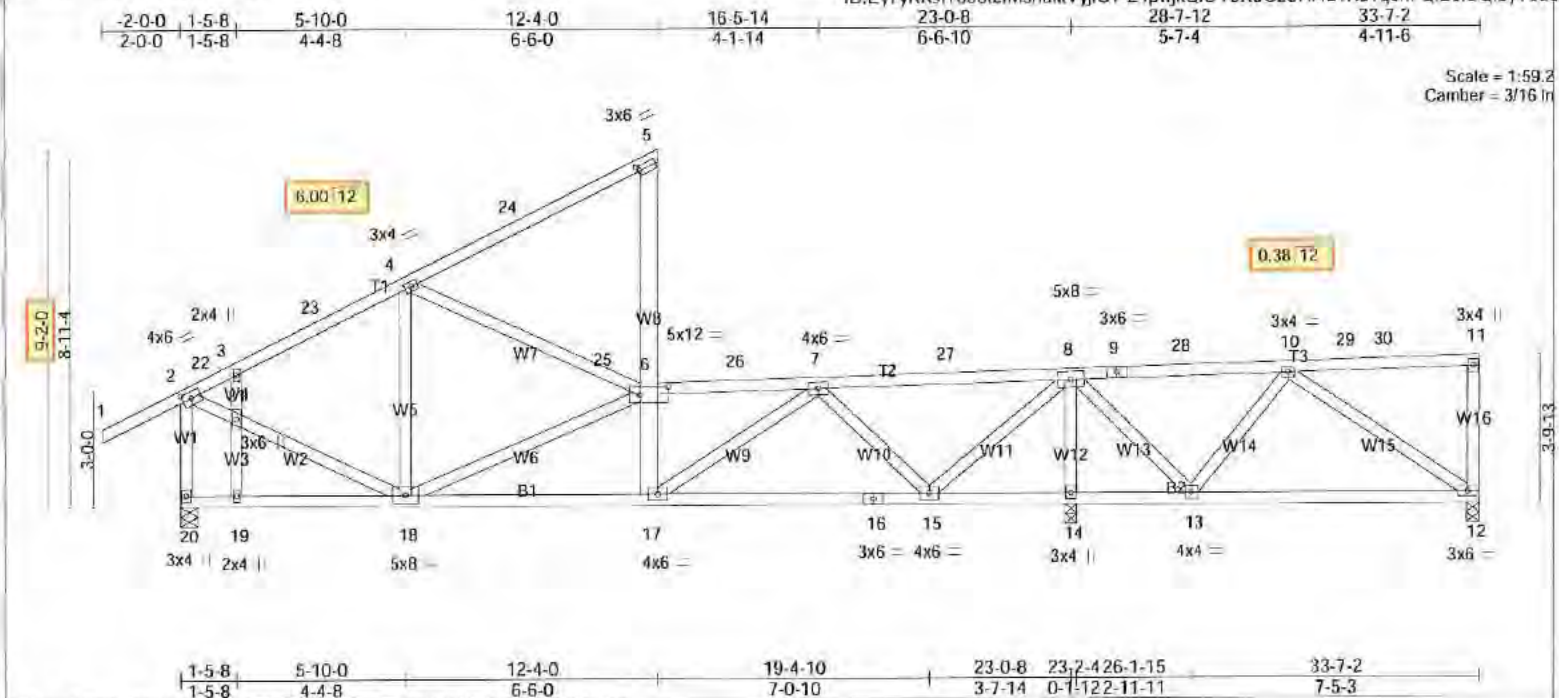
NOTES-

- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 12'-1'-4" on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
- 16) 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:
- 31) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-10=-34(F), 11-35=-18(F)
Concentrated Loads (lb)
Horz: 27=-1875(F), 5=5000(F)
- 32) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-10=-34(F), 11-35=-18(F)
Concentrated Loads (lb)
Vert: 84=1050(F)
Horz: 4=-300(F)
- 33) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-10=-34(F), 11-35=-18(F)
Concentrated Loads (lb)
Vert: 84=1050(F)
Horz: 4=300(F)





LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/dell	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.83	Vert(LL) 0.13	17	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL 1.25	BC 0.38	Vert(CT) -0.24	15-17	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.69	Horz(CT) 0.06	14	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014	Matrix-MSH						
							Weight: 200 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 DF No.1&Btr G *Except*
 T1: 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G *Except*
 WB: 2x6 DF No.2 G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 3-9-7 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 5-11-6 oc bracing.

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
12 = 119/0-4-0 (min. 0-1-8)
20 = 1056/0-5-8 (min. 0-1-8)
14 = 2048/0-3-8 (min. 0-2-3)
Max Horz
20 = -3125(LC 27)
Max Uplift
12 = -19(LC 34)
20 = -34(LC 27)
14 = -341(LC 9)
Max Grav
12 = 413(LC 28)
20 = 1056(LC 1)
14 = 2048(LC 1)

FORCES. (lb) - Max, Comp./Max: Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 2-22=-827/234, 3-22=-805/252, 3-23=-782/269, 4-23=-666/317,
 4-24=-386/319, 5-24=-334/370, 6-17=-899/768, 6-25=-391/1104,
 5-25=-391/151, 6-26=-3176/1086, 7-26=-3169/1091,
 7-27=-633/47, 8-27=-630/51, 8-9=-510/476, 9-28=-507/481,
 10-28=-507/487, 11-12=-375/48, 2-20=-1003/169
 BOT CHORD
 19-20=-647/3119, 18-19=-647/3119, 17-18=-1081/1425,
 16-17=-298/1667, 15-16=-298/1667, 14-15=-1079/496,
 13-14=-1079/496, 12-13=-196/420
 WEBS
 4-18=-460/260, 4-6=-695/280, 6-18=-854/1724,
 7-17=-1124/1818, 7-15=-1491/513, 8-15=-391/1785,
 8-13=-102/856, 10-13=-626/194, 10-12=-493/258,
 2-21=-253/743, 18-21=-264/735, 8-14=-2002/385

LOAD CASE(S)

Standard Except:

Uniform Loads (plf)

Vert: 1-2=-34(F), 2-5=-34(F), 6-11=-34(F), 12-20=-18(F)

Concentrated Loads (lb)

Vert: 25=1050(F)

Horz: 5=-300(F)

29) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60

Uniform Loads (plf)

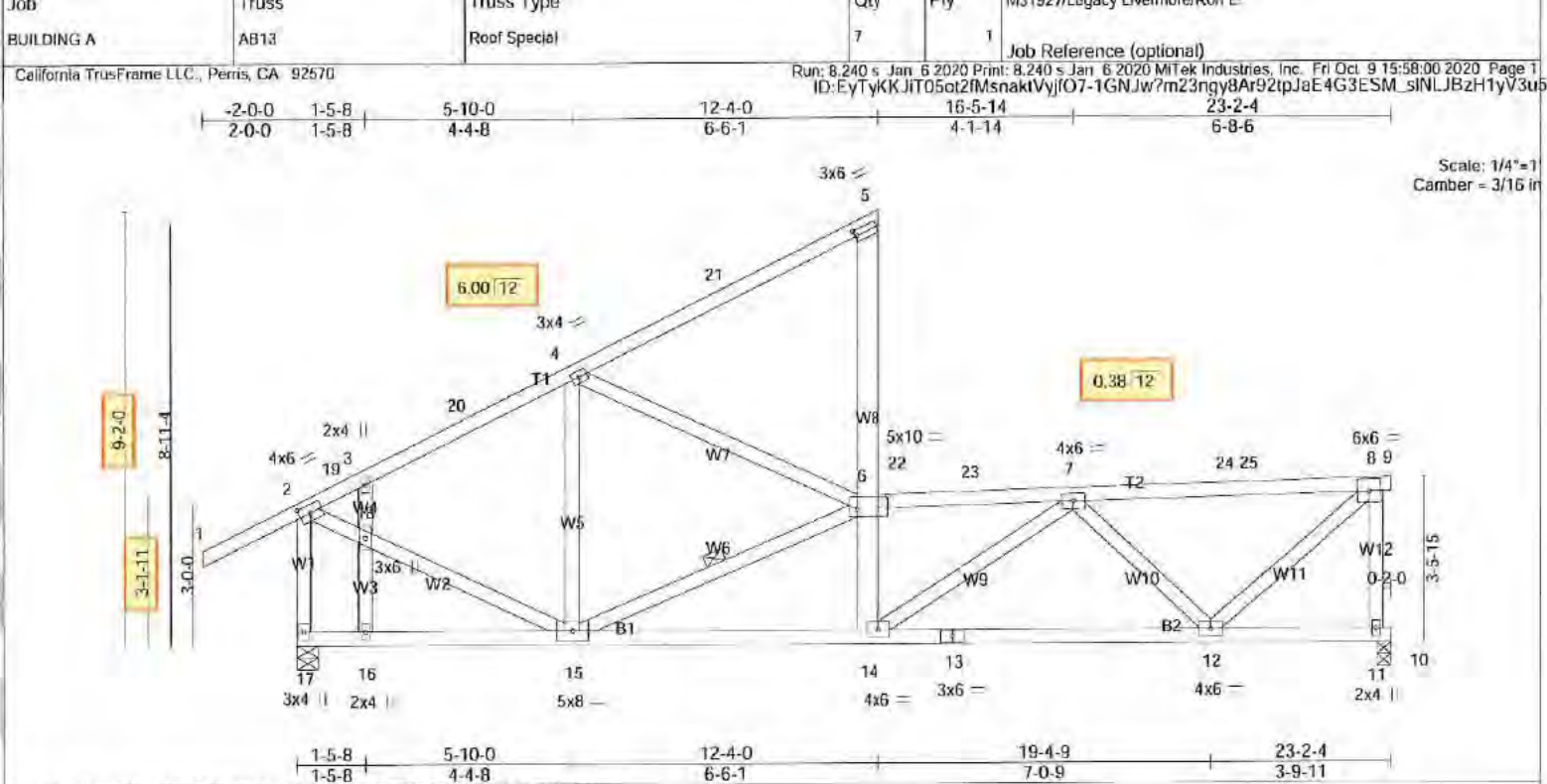
Vert: 1-2=-34(F), 2-5=-34(F), 6-11=-34(F), 12-20=-18(F)

Concentrated Loads (lb)

Vert: 25=1050(F)

Horz: 5=-300(F)





LOADING (psf)	SPACING-	2-0-0	CSI	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.88	Vert(LL)	0.18 14	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.49	Vert(CT)	-0.29 12-14	>933	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.71	Horz(CT)	0.08 11	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MSH						
								Weight: 149 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G *Except*
 W8: 2x6 DF No.2 G, W12, W9: 2x4 DF No.2 G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 5-4-11 oc bracing.
 WEBS
 1 Row at midpt 6-15

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
 11 = 1067/0-3-8 (min. 0-1-8)
 17 = 1212/0-5-8 (min. 0-1-8)
 Max Horz
 17 = -3125(LC 27)
 Max Up/lt
 11 = -197(LC 9)
 Max Grav
 11 = 1208(LC 27)
 17 = 1212(LC 1)

FORCES. (lb) - Max, Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 2-19=-1004/132, 3-19=-976/149, 3-20=-959/170, 4-20=-843/217,
 4-21=-384/325, 5-21=-331/371, 6-14=-825/724,
 6-22=-388/1103, 5-22=-388/151, 6-23=-3601/1367,
 7-23=-3594/1372, 7-24=-1240/204, 24-25=-1237/204,
 8-25=-1237/207, 8-11=-1178/254, 2-17=-1157/183
 BOT CHORD
 16-17=-647/3119, 15-16=-647/3119, 14-15=-1354/2084,
 13-14=-503/2202, 12-13=-503/2202
 WEBS
 4-15=-427/375, 4-6=-862/306, 6-15=-1370/1380, 2-18=-168/918,
 15-18=-176/911, 7-14=-1043/1684, 7-12=-1390/431,
 8-12=-307/1634

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

LOAD CASE(S)
 Standard Except:
 27) F1&F2 Anchor Check: Lumber Incr
 Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-5=-34(F), 6-8=-34(F)
 Concentrated Loads (lb)
 Horz: 14=-1875(F), 6=5000(F)
 28) F3 Left&F4 Anchor Check: Lumber Incr
 Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-5=-34(F), 6-8=-34(F)
 Concentrated Loads (lb)
 Vert: 22=1050(F)
 Horz: 5=-300(F)
 29) F3 Right&F4 Anchor Check: Lumber Incr
 Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-5=-34(F), 6-8=-34(F), 8-9=-34(F), 10-17=-18(F)
 Concentrated Loads (lb)

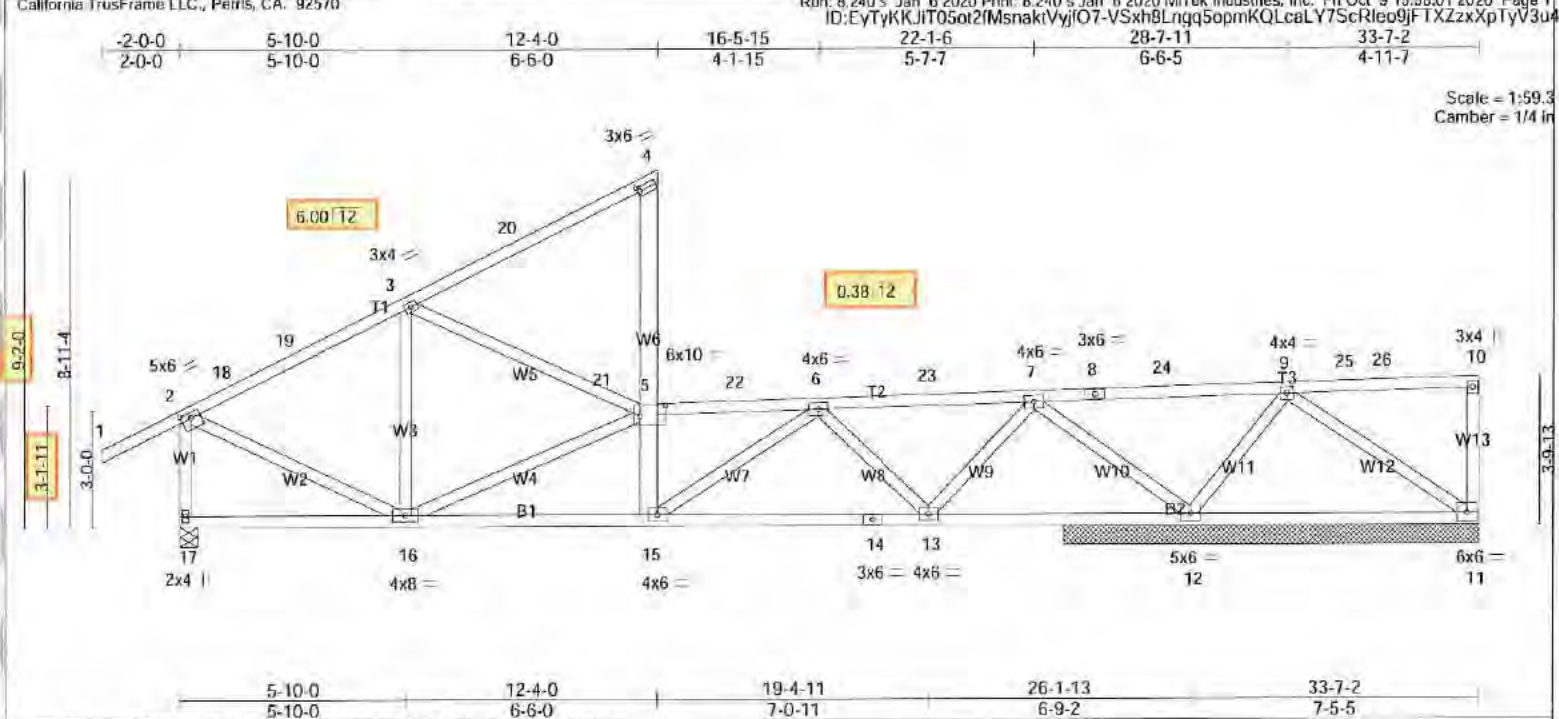
Job	Truss	Truss Type	City	Fly	ms1927/Logacy Livermore/KOH L.
BUILDING A	AB13	Roof Special	7	1	Job Reference (optional)

California TrusFrame LLC., Perris, CA. 92570

Run: 8.240 s Jan 6 2020 Print: 8.240 s Jan 6 2020 MiTek Industries, Inc. Fri Oct 9 15:58:00 2020 Page 2
ID:EyTyKKJiT05ot2IMsnaklVvjIQ7-1GNJw?m23ngy8Ar92tpJaE4G3ESM_slNLJBzh1yV3u5

LOAD CASE(S)
Standard Except:
Concentrated Loads (lb)
Vert: 22=1050(F)
Horz: 5=300(F)





LOADING (psf)		SPACING-		CSI		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.85	in (loc)	l/defl	MT20		220/195	
TCDL	17.0	Lumber DOL	1.25	BC	0.45	Vert(LL)	0.17 15 >999				
BCLL	0.0 *	Rep Stress Incr	YES	WB	1.00	Vert(CT)	-0.30 13-15 >999				
BCDL	9.0	Code IBC2015/TPI2014		Matrix-MSH		Horz(CT)	0.08 12 n/a n/a				
								Weight: 192 lb		FT = 20%	

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G *Except*
T1: 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G *Except*
W6: 2x6 DF No.2 G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 3-1-0 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 5-10-15 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)	
11 =	-400/10-8-6 (min. 0-2-3)
12 =	2468/10-8-6 (min. 0-2-3)
17 =	1155/0-5-8 (min. 0-1-8)
Max Horz	
17 =	-3125(LC 27)
Max Uplift	
11 =	-418(LC 27)
12 =	-405(LC 9)
Max Grav	
11 =	376(LC 28)
12 =	2468(LC 1)
17 =	1155(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown.
TOP CHORD
2-18=-951/138, 18-19=-863/168, 3-19=-782/216, 3-20=-385/319,
4-20=-333/370, 5-15=-843/749, 5-21=-390/1103,
4-21=-390/149, 5-22=-3561/1133, 6-22=-3557/1138,
6-23=-1193/96, 7-23=-1187/98, 7-8=-423/1629, 8-24=-421/1635,
9-24=-420/1642, 10-11=-365/44, 2-17=-1112/179
BOT CHORD
16-17=-649/3122, 15-16=-1130/1848, 14-15=-407/2138,
13-14=-407/2138, 12-13=-170/370, 11-12=-818/377
WEBS
3-16=-377/339, 3-5=-804/292, 5-16=-1174/1415,
6-15=-1096/1711, 6-13=-1364/531, 7-13=-347/1453,
7-12=-1999/441, 9-12=-1373/326, 9-11=-443/1017,
2-16=-164/849

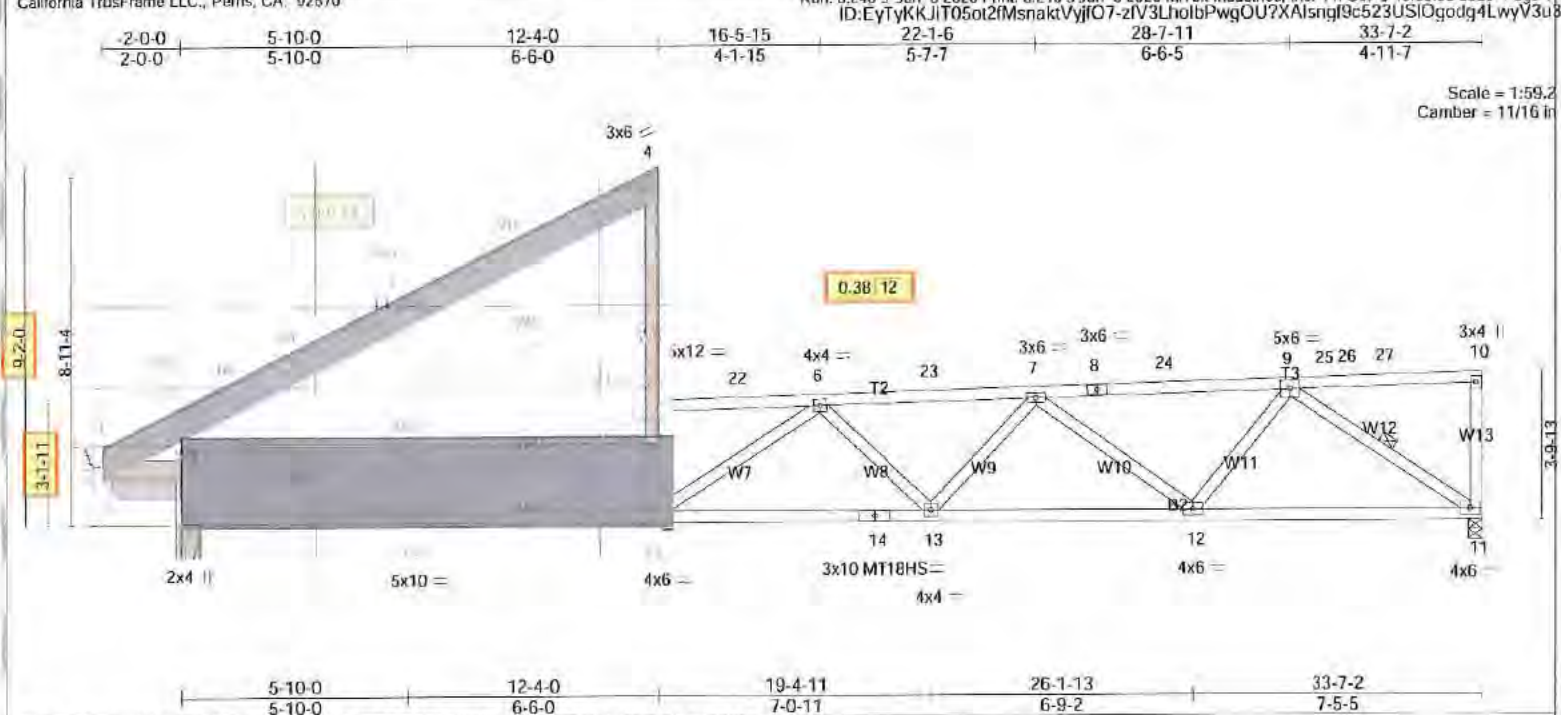
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCCL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-4-6, Interior(1) 1-4-6 to 33-5-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 7) Load case(s) 27, 28, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 8) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 12-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 10) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
 - 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:
- 27) F1&F2 Anchor Check: Lumber Increase
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-10=-34(F)
Concentrated Loads (lb)
Horz: 15=-1875(F), 5=5000(F)
 - 28) F3 Left&F4 Anchor Check: Lumber Increase
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-10=-34(F)
Concentrated Loads (lb)
Vert: 21=1050(F)
Horz: 4=-300(F)
 - 29) F3 Right&F4 Anchor Check: Lumber Increase
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-10=-34(F), 11-17=-18(F)

Job	Truss	Truss Type	Qty	Ply	ms1927/Legacy Livermore/Ron L.
BUILDING A	AB14	ROOF SPECIAL	1	1	Job Reference (optional)

LOAD CASE(S)
 Standard Except:
 Concentrated Loads (lb)
 Vert: 21=1050(F)
 Horz: 4=300(F)





LOADING (psf)		SPACING		CSI		DEFL.		PLATES		GRIP	
TCLL	20.0	2x4	2-0-0	TC	0.84	in (loc)	I/defl	L/d	MT20	220/195	
BCDL	17.0	Lumber DOL	1.25	BC	0.83	Vert(LL)	0.38 13-15	>999	240	220/195	
BCLL	0.0	Rep Stress Incr	YES	WB	0.83	Vert(CT)	-0.95 13-15	>421	180		
BCDL	9.0	Code IBC2015/TPI2014		Matrix-MSH		Horz(CT)	0.24 11	n/a	n/a		
										Weight: 192 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 DF No.1&Btr G *Except*
 T1: 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G *Except*
 W6: 2x6 DF No.2 G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 2-7-4 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS
 1 Row at midpt 3-5, 5-16, 9-11

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
 11 = 1657/0-4-0 (min. 0-1-12)
 17 = 1704/0-5-8 (min. 0-1-13)
 Max Horz
 17 = -3125(LC 27)
 Max Uplift
 11 = -113(LC 9)
 17 = -15(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 2-18=-1575/65, 18-19=-1488/71, 3-19=-1406/112,
 3-20=-386/314, 4-20=-333/365, 5-15=-486/763, 5-21=-382/1104,
 4-21=-382/148, 5-22=-5665/1060, 6-22=-5661/1064,
 6-23=-4202/642, 7-23=-4200/644, 7-8=-2694/290,
 8-24=-2686/292, 9-24=-2686/294, 10-11=-450/0,
 2-17=-1662/216
 BOT CHORD
 16-17=-650/3123, 15-16=-1058/4177, 14-15=-901/4773,
 13-14=-901/4773, 12-13=-635/3709, 11-12=-284/1994
 WEBS
 3-16=-360/745, 3-5=-1392/367, 5-16=-3106/994,
 6-15=-1120/1065, 6-13=-827/547, 7-13=-362/947,
 7-12=-1406/342, 9-12=-159/1244, 9-11=-2398/320,
 2-16=-12/1468

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

2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCCL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-4-6, Interior(1) 1-4-6 to 33-5-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) All plates are MT20 plates unless otherwise indicated.
 4) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 6) A plate rating reduction of 20% has been applied for the green lumber members.
 7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 8) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 9) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 300 lb left and 300 lb right at 12-1-4 on top chord, and 1875 lb left at 12-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 11) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
 12) 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 Uniform Loads (plf)
 Vert: 1-2=-74, 2-4=-74, 5-25=-74, 10-125
 2) Dead + 0.75 Roof Live (balanced): Lumber Uniform Loads (plf)
 Vert: 1-2=-64, 2-4=-64, 5-25=-64, 10-125
 3) Dead + Uninhabitable Attic Without S Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-4=-34, 5-25=-34, 10-125
 4) Dead + 0.6 C-C Wind (Pos. Internal) Increase=1.60

LOAD CASE(S)

Standard Except:

Uniform Loads (plf)

Vert: 1-2=57, 2-18=28, 4-18=14, 5-25=18, 10-25=17, 11-17=11

Horz: 1-2=-77, 2-18=-48, 4-18=-34, 4-5=13, 5-10=-38, 10-11=35, 2-17=19

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=14, 2-20=14, 4-20=28, 5-25=18, 25-26=17, 10-26=10, 11-17=11

Horz: 1-2=-28, 2-20=-34, 4-20=-48, 4-5=-41, 5-26=-38, 10-26=-45, 10-11=-19, 2-17=-35

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=-23, 2-4=-51, 5-25=-47, 10-25=-82, 11-17=-18

Horz: 1-2=-11, 2-4=17, 4-5=-16, 5-10=13, 10-11=-32, 2-17=-23

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=-45, 2-4=-51, 5-25=-47, 10-25=-82, 11-17=-18

Horz: 1-2=11, 2-4=17, 4-5=38, 5-10=13, 10-11=23, 2-17=32

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=7, 2-4=-7, 5-25=5, 10-25=-30, 11-17=-11

Horz: 1-2=-28, 2-4=-13, 4-5=12, 5-10=-25, 10-11=23, 2-17=18

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=0, 2-4=6, 5-25=23, 10-25=-12, 11-17=-11

Horz: 1-2=-21, 2-4=-27, 4-5=-29, 5-10=-44, 10-11=-18, 2-17=-23

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-27, 2-4=-34, 5-25=-22, 10-25=-57, 11-17=-18

Horz: 1-2=-7, 2-4=0, 4-5=37, 5-10=-12, 10-11=11, 2-17=31

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-13, 2-4=-20, 5-25=-3, 10-25=-38, 11-17=-18

Horz: 1-2=-21, 2-4=-14, 4-5=-4, 5-10=-31, 10-11=-31, 2-17=-11

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=17, 2-4=23, 5-25=5, 10-25=-30, 11-17=-11

Horz: 1-2=-38, 2-4=-44, 4-5=-50, 5-10=-25, 10-11=-21, 2-17=15

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, 2-4=5, 5-25=23, 10-25=-12, 11-17=-11

Horz: 1-2=-19, 2-4=-25, 4-5=-31, 5-10=-44, 10-11=-15, 2-17=-21

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=4, 2-4=10, 5-25=-1, 10-25=-36, 11-17=-11

Horz: 1-2=-24, 2-4=-31, 4-5=-37, 5-10=-19, 10-11=16, 2-17=8

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-7, 2-4=-1, 5-25=10, 10-25=-25, 11-17=-11

Horz: 1-2=-13, 2-4=-19, 4-5=-26, 5-10=-31, 10-11=-8, 2-17=-16

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=4, 2-4=-3, 5-25=-22, 10-25=-57, 11-17=-18

Horz: 1-2=-38, 2-4=-31, 4-5=-25, 5-10=-12, 10-11=9, 2-17=28

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-15, 2-4=-22, 5-25=-3, 10-25=-38, 11-17=-18

Horz: 1-2=-19, 2-4=-12, 4-5=-6, 5-10=-31, 10-11=-28, 2-17=-9

18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-25=-34, 10-25=-69, 11-17=-18

19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-59, 2-4=-64, 5-25=-55, 10-25=-90, 11-17=-18

Horz: 1-2=-5, 2-4=0, 4-5=28, 5-10=-9, 10-11=8, 2-17=23

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-49, 2-4=-53, 5-25=-41, 10-25=-76, 11-17=-18

Horz: 1-2=-15, 2-4=-11, 4-5=3, 5-10=-23, 10-11=-23, 2-17=-8

Continued on page 3

Standard Except:

21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel):

Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-36, 2-4=-41, 5-25=-55, 10-25=-90, 11-17=-18

Horz: 1-2=-28, 2-4=-23, 4-5=-19, 5-10=-9, 10-11=7, 2-17=21

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel):

Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-50, 2-4=-55, 5-25=-41, 10-25=-76, 11-17=-18

Horz: 1-2=-14, 2-4=-9, 4-5=-4, 5-10=-23, 10-11=-21, 2-17=-7

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-74, 2-4=-74, 5-25=-34, 10-25=-69, 11-17=-18

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-25=-74, 10-25=-109, 11-17=-18

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-64, 2-4=-64, 5-25=-34, 10-25=-69, 11-17=-18

26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-25=-64, 10-25=-99, 11-17=-18

27) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-34(F), 2-4=-34(F), 5-25=-34(F), 10-25=-69(F=-34), 11-17=-18(F)

Concentrated Loads (lb)

Horz: 15=-1875(F), 5=5000(F)

28) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-34(F), 2-4=-34(F), 5-25=-34(F), 10-25=-69(F=-34), 11-17=-18(F)

Concentrated Loads (lb)

Vert: 21=1050(F)

Horz: 4=-300(F)

29) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-34(F), 2-4=-34(F), 5-25=-34(F), 10-25=-69(F=-34), 11-17=-18(F)

Concentrated Loads (lb)

Vert: 21=1050(F)

Horz: 4=300(F)

30) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-25=-34, 10-25=-69, 11-17=-18

Concentrated Loads (lb)

Vert: 2=-306

31) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-25=-34, 10-25=-69, 11-17=-18

Concentrated Loads (lb)

Vert: 19=-306

32) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-25=-34, 10-25=-69, 11-17=-18

Concentrated Loads (lb)

Vert: 20=-306

33) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-25=-34, 10-25=-69, 11-17=-18

Concentrated Loads (lb)

Vert: 4=-306

34) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-25=-34, 10-25=-69, 11-17=-18

Concentrated Loads (lb)

Vert: 22=-306

35) 6th Moving Load: Lumber Increase=

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-25=-34, 10-

Concentrated Loads (lb)

Vert: 23=-306

36) 7th Moving Load: Lumber Increase=

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-25=-34, 10-

Concentrated Loads (lb)

Vert: 24=-306

37) 8th Moving Load: Lumber Increase=

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 5-25=-34, 10-

Concentrated Loads (lb)

Vert: 27=-306

38) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Job	Truss	Truss Type	Qty	Ply	M3192 // Legacy Livermore/Kon L.
BUILDING A	AB15	ROOF SPECIAL	7	1	Job Reference (optional)

LOAD CASE(S)

- Standard
- Uniform Loads (plf)
 Vert: 1-2=-34, 2-4=-34, 5-25=-34, 10-25=-69, 11-17=-18
 Concentrated Loads (lb)
 Vert: 10=-306
- 39) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-4=-34, 5-25=-34, 10-25=-69, 11-17=-18
 Concentrated Loads (lb)
 Vert: 3=-306
- 40) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-4=-34, 5-25=-34, 10-25=-69, 11-17=-18
 Concentrated Loads (lb)
 Vert: 6=-306
- 41) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-4=-34, 5-25=-34, 10-25=-69, 11-17=-18
 Concentrated Loads (lb)
 Vert: 7=-306
- 42) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-4=-34, 5-25=-34, 10-25=-69, 11-17=-18
 Concentrated Loads (lb)
 Vert: 9=-306



2-0-0 6-2-4 8-4-0 11-2-15 17-3-1 22-10-7 29-4-12 34-4-4
 2-0-0 6-2-4 2-1-12 2-10-15 6-0-2 5-7-6 6-6-5 4-11-8

Scale: 3/16"=1'
 Camber = 1/4 in

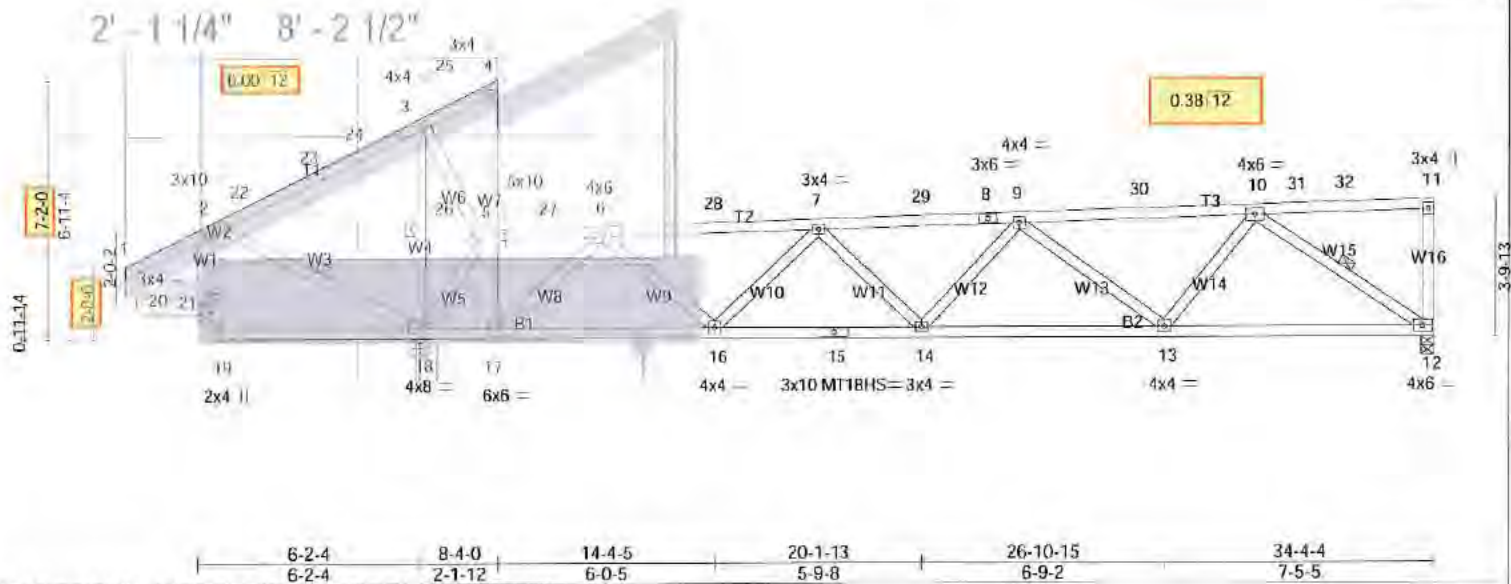


Plate Offsets (X,Y)-- [2:0-3-9,0-1-8], [5:0-8-4,0-2-8], [20:0-2-0,0-0-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.93	Vert(LL)	-0.10	14-16	>999	MT20	220/195
TCDL 17.0	Lumber DOL 1.25	BC 0.57	Vert(CT)	-0.35	13-14	>971	MT18HS	220/195
BCLL 0.0 *	Rep Stress Incr YES	WB 0.72	Horz(CT)	0.11	12	n/a		
BCDL 9.0	Code IBC2015/TPI2014	Matrix-MSH						
							Weight: 194 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G *Except*
 W1, W1: 2x6 DF No.2 G, W2: 2x4 DF No.2 G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 1-11-14 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS
 1 Row at midpt. 2-18, 3-18, 10-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

12	=	1235/0-4-0 (min. 0-1-8)
18	=	2537/0-5-8 (min. 0-2-11)
21	=	-359/0-5-8 (min. 0-1-8)
Max Horz		
18	=	-3125(LC 27)
Max Uplift		
12	=	-49(LC 9)
18	=	-402(LC 9)
21	=	-1335(LC 27)
Max Grav		
12	=	1235(LC 1)
18	=	2537(LC 1)
21	=	281(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 2-22=-283/1743, 22-23=-257/1748, 23-24=-255/1783,
 3-24=-246/1819, 3-25=-340/327, 4-25=-314/353,
 5-17=-127/1226, 5-26=-304/1193, 4-26=-304/143,
 5-27=-1956/814, 6-27=-1953/820, 6-28=-2492/187,
 7-28=-2489/189, 7-29=-2379/260, 8-29=-2376/262,
 8-9=-2374/263, 9-30=-1772/145, 10-30=-1764/147,
 11-12=-447/0
 BOT CHORD
 17-18=-802/185, 16-17=-246/2322, 15-16=-373/2528,
 14-15=-373/2528, 13-14=-365/2220, 12-13=-190/1399
 WEBS
 2-18=-1615/381, 3-18=-3336/291, 3-5=-202/2841,
 5-18=-257/2332, 6-17=-1780/252, 6-16=-54/1119,

WEBS
 2-18=-1615/381, 3-18=-3336/291, 3-5=-202/2841,
 5-18=-257/2332, 6-17=-1780/252, 6-16=-54/1119,
 7-16=-895/143, 7-14=-220/366, 9-14=-206/349,
 9-13=-712/191, 10-13=-40/717, 10-12=-1673/206,
 2-21=-288/1357

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-5-9, Interior(1) 1-5-9 to 34-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 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.
- Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- This truss has been designed for a 6.0lb dead located at all mid panels and nonconcurrent with any other live load.
- This truss has large uplift reaction required to secure truss against upward movement. Must provide for uplift reactions indicated.
- Hanger(s) or other connection device concentrated load(s) 1875 lb left at 7'-0" such connection device(s) is the responsibility of the building designer.
- This truss is designed for a creep deflection per ANSI/TPI 1.
- In the LOAD CASE(S) section, load front (F) or back (B).

LOAD CASE(S)

Standard Except:

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=74, 2-4=74, 5-31=74, 11-31=109, 12-19=18
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=64, 2-4=64, 5-31=64, 11-31=99, 12-19=18
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=34, 2-4=34, 5-31=34, 11-31=69, 12-19=38
- 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=57, 2-22=28, 4-22=14, 5-31=18, 11-31=17, 12-19=11, 2-21=19
Horz: 1-2=-77, 2-22=48, 4-22=34, 4-5=13, 5-11=38, 11-12=35, 19-20=19, 2-21=19
- 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=8, 2-24=14, 4-24=28, 5-31=18, 11-31=10, 12-19=11, 2-21=35
Horz: 1-2=-28, 2-24=34, 4-24=48, 4-5=41, 5-31=38, 11-31=45, 11-12=19, 19-20=35, 2-21=35
- 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=23, 2-4=51, 5-31=47, 11-31=82, 12-19=18, 2-21=22
Horz: 1-2=-11, 2-4=17, 4-5=16, 5-11=13, 11-12=32, 19-20=22, 2-21=22
- 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=45, 2-4=51, 5-31=47, 11-31=82, 12-19=18, 2-21=32
Horz: 1-2=11, 2-4=17, 4-5=38, 5-11=13, 11-12=22, 19-20=32, 2-21=32
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-4=7, 5-31=5, 11-31=30, 12-19=11, 2-21=18
Horz: 1-2=-28, 2-4=13, 4-5=12, 5-11=25, 11-12=23, 19-20=18, 2-21=18
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-4=6, 5-31=23, 11-31=12, 12-19=11, 2-21=23
Horz: 1-2=-21, 2-4=-27, 4-5=-29, 5-11=-44, 11-12=-18, 19-20=-23, 2-21=-23
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-4=-34, 5-31=-22, 11-31=-57, 12-19=-18, 2-21=-31
Horz: 1-2=-7, 2-4=0, 4-5=37, 5-11=-12, 11-12=11, 19-20=31, 2-21=31
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-4=-20, 5-31=-3, 11-31=-38, 12-19=-18, 2-21=11
Horz: 1-2=-21, 2-4=-14, 4-5=4, 5-11=-31, 11-12=-31, 19-20=-11, 2-21=-11
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-4=23, 5-31=5, 11-31=30, 12-19=11, 2-21=15
Horz: 1-2=-38, 2-4=-44, 4-5=-50, 5-11=-25, 11-12=21, 19-20=15, 2-21=15
- 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, 2-4=5, 5-31=23, 11-31=12, 12-19=11, 2-21=21
Horz: 1-2=-19, 2-4=-25, 4-5=-31, 5-11=-44, 11-12=-15, 19-20=21, 2-21=21
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-4=10, 5-31=-1, 11-31=-36, 12-19=-11, 2-21=-8
Horz: 1-2=-24, 2-4=-31, 4-5=-37, 5-11=-19, 11-12=16, 19-20=8, 2-21=8
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-4=-1, 5-31=10, 11-31=-25, 12-19=-11, 2-21=16
Horz: 1-2=-13, 2-4=-19, 4-5=-26, 5-11=-31, 11-12=-8, 19-20=-16, 2-21=-16
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-4=3, 5-31=-22, 11-31=-57, 12-19=-18, 2-21=-28
Horz: 1-2=-38, 2-4=-31, 4-5=-25, 5-11=-12, 11-12=9, 19-20=28, 2-21=28
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-4=-22, 5-31=-3, 11-31=-38, 12-19=-18, 2-21=9
Horz: 1-2=-19, 2-4=-12, 4-5=-6, 5-11=-31, 11-12=-28, 19-20=-9, 2-21=-9
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plf. metal=0.90

Continued on page 3

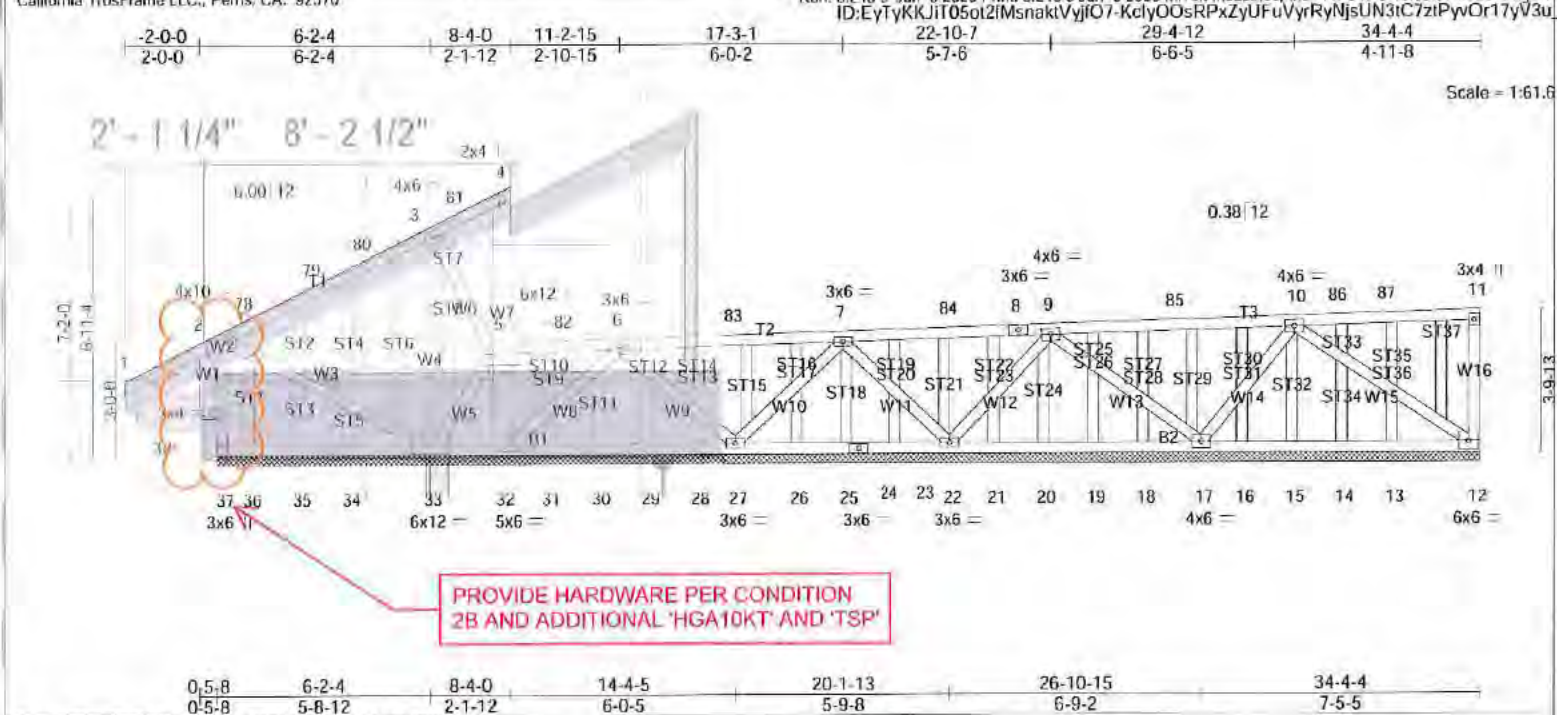
Standard Except:

- Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-31=-34, 11-31=-69, 12-19=18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-59, 2-4=-64, 5-31=-55, 11-31=-90, 12-19=-18, 2-21=23
Horz: 1-2=-5, 2-4=0, 4-5=28, 5-11=-9, 11-12=8, 19-20=23, 2-21=23
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-4=-53, 5-31=-41, 11-31=-76, 12-19=-18, 2-21=8
Horz: 1-2=-15, 2-4=-11, 4-5=-3, 5-11=-23, 11-12=-23, 19-20=-8, 2-21=8
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-4=-41, 5-31=-55, 11-31=-90, 12-19=-18, 2-21=21
Horz: 1-2=-28, 2-4=-23, 4-5=-19, 5-11=-9, 11-12=7, 19-20=21, 2-21=21
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-50, 2-4=-55, 5-31=-41, 11-31=-76, 12-19=-18, 2-21=7
Horz: 1-2=-14, 2-4=-9, 4-5=-4, 5-11=-23, 11-12=21, 19-20=-7, 2-21=-7
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-4=-74, 5-31=-34, 11-31=-69, 12-19=18
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-31=-74, 11-31=-109, 12-19=-18
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-4=-64, 5-31=-34, 11-31=-69, 12-19=-18
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-31=-64, 11-31=-99, 12-19=-18
- 27) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-31=-34(F), 11-31=-69(F=-34), 12-19=-18(F)
Concentrated Loads (lb)
Horz: 17=-1875(F), 5=5000(F)
- 28) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-31=-34(F), 11-31=-69(F=-34), 12-19=-18(F)
Concentrated Loads (lb)
Vert: 26=1050(F)
Horz: 4=300(F)
- 29) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-31=-34(F), 11-31=-69(F=-34), 12-19=-18(F)
Concentrated Loads (lb)
Vert: 26=1050(F)
Horz: 4=300(F)
- 30) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-31=-34, 11-31=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 2=-306
- 31) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-31=-34, 11-31=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 23=-306
- 32) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-31=-34, 11-31=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 25=-306
- 33) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-31=-34, 11-31=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 4=-306
- 34) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-31=-34, 11-31=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 27=-306
- 35) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-31=-34, 11-31=-69, 12-19=-18
Concentrated Loads (lb)

LOAD CASE(S)

- Standard
- Concentrated Loads (lb)
Vert: 28=-306
- 36) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-31=-34, 11-31=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 29=-306
- 37) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-31=-34, 11-31=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 30=-306
- 38) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-31=-34, 11-31=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 32=-306
- 39) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-31=-34, 11-31=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 11=-306
- 40) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-31=-34, 11-31=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 3=-306
- 41) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-31=-34, 11-31=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 6=-306
- 42) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-31=-34, 11-31=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 7=-306
- 43) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-31=-34, 11-31=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 9=-306
- 44) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-31=-34, 11-31=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 10=-306





LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.81	in (loc)	l/defl	MT20		220/195	
TCDL	17.0	Lumber DOL	1.25	BC	0.34	Vert(LL)	1				
BCLL	0.0 *	Rep Stress Incr	YES	WB	1.00	Vert(CT)	1-2				
BCDL	9.0	Code IBC2015/TPI2014		Matrix-MSH		Horz(CT)	0.05 12				
								Weight: 288 lb		FT = 20%	

LUMBER-
 TOP CHORD 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G *Except*
 W7, W1: 2x6 DF No.2 G, W2: 2x4 DF No.2 G
 OTHERS 2x4 DF Stud/Std G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 3-11-8 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
 5-10-15 oc bracing: 34-35
 4-9-3 oc bracing: 33-34
 10-0-0 oc bracing: 14-15.

WEBS
 1 Row at midpt 2-33

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 33-10-12.
 (lb) - Max Horz
 37=-3125(LC 31)
 Max Uplift
 All uplift 100 lb or less at joint(s) 36, 31, 28, 26, 25
 except 32=-805(LC 32), 12=-740(LC 26), 33=-1329(LC 31),
 22=-216(LC 9), 17=-105(LC 9), 37=-1656(LC 25), 29=-122(LC 31)
 Max Grav
 All reactions 250 lb or less at joint(s) 36, 35, 34, 31, 30,
 29, 25, 23, 21, 20, 19, 18, 16, 15, 14, 13 except
 32=1334(LC 31), 12=1091(LC 23), 33=991(LC 24), 22=767(LC 31),
 17=580(LC 28), 37=1981(LC 24), 28=429(LC 31), 26=277(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 2-78=-1958/1865, 78-79=-1598/1084, 79-80=-824/974,
 3-80=-549/577, 3-81=-617/573, 4-81=-343/332,
 5-32=-2065/1001, 4-5=-1147/1157, 5-82=-2537/165,
 6-82=-2534/847, 6-83=-1054/968, 7-83=-807/669,
 7-84=-877/1029, 8-9=-591/753, 9-85=-1245/1338,
 10-85=-525/629, 10-86=-1372/1344, 86-87=-689/666,
 11-87=-569/573, 11-12=-445/0, 37-38=-1960/1636,
 2-38=-1962/1639
 BOT CHORD
 36-37=-520/3135, 35-36=-780/3135, 34-35=-1156/3135,

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-5-9, Interior(1) 1-5-9 to 34-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 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.
 4) Gable requires continuous bottom chord bearing.
 5) Gable studs spaced at 1-4-0 oc.
 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 7) * This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 8) A plate rating reduction of 20% has been applied.
 9) This truss is designed in accordance with section 2306.1 and referenced standard.
 10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified to verify that they are correct for the intended use.
 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

NOTES-

- 12) This truss has been designed for a total seismic drag load of 9700 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 34-4-4 for 282.4 plf.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 7-11-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
- 15) 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=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-4=-74, 5-86=-74, 11-86=-109, 12-37=-18
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-4=-64, 5-86=-64, 11-86=-99, 12-37=-18
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-86=-34, 11-86=-69, 12-37=-38
- 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=57, 2-78=28, 4-78=14, 5-86=18, 11-86=-17, 12-37=-11, 2-38=-19
Horz: 1-2=-77, 2-78=-48, 4-78=-34, 4-5=13, 5-11=-38, 11-12=-35, 2-37=19
- 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=8, 2-80=14, 4-80=28, 5-86=18, 11-86=-10, 12-37=-11, 2-38=-35
Horz: 1-2=-28, 2-80=-34, 4-80=-48, 4-5=-41, 5-86=-38, 11-86=-45, 11-12=-19, 2-37=-35
- 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=-23, 2-4=-51, 5-86=-47, 11-86=-82, 12-37=-18, 2-38=-22
Horz: 1-2=-11, 2-4=17, 4-5=-16, 5-11=13, 11-12=-32, 2-37=-22
- 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=-45, 2-4=-51, 5-86=-47, 11-86=-82, 12-37=-18, 2-38=-32
Horz: 1-2=-11, 2-4=17, 4-5=38, 5-11=13, 11-12=-11, 2-37=32
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-4=-7, 5-86=5, 11-86=-30, 12-37=-11, 2-38=-18
Horz: 1-2=-28, 2-4=-13, 4-5=12, 5-11=-25, 11-12=23, 2-37=-18
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-4=6, 5-86=23, 11-86=-12, 12-37=-11, 2-38=23
Horz: 1-2=21, 2-4=-27, 4-5=-29, 5-11=-44, 11-12=-18, 2-37=-23
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-4=-34, 5-86=-22, 11-86=-57, 12-37=-18, 2-38=-31
Horz: 1-2=-7, 2-4=-0, 4-5=37, 5-11=-12, 11-12=11, 2-37=31
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-4=-20, 5-86=-3, 11-86=-38, 12-37=-18, 2-38=11
Horz: 1-2=21, 2-4=-14, 4-5=-4, 5-11=-31, 11-12=-31, 2-37=-11
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-4=23, 5-86=5, 11-86=-30, 12-37=-11, 2-38=-15
Horz: 1-2=-38, 2-4=-44, 4-5=-50, 5-11=-25, 11-12=-21, 2-37=15
- 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, 2-4=5, 5-86=23, 11-86=-12, 12-37=-11, 2-38=21
Horz: 1-2=-19, 2-4=-25, 4-5=-31, 5-11=-44, 11-12=-15, 2-37=-21
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-4=10, 5-86=-1, 11-86=-36, 12-37=-11, 2-38=-8
Horz: 1-2=-24, 2-4=-31, 4-5=-37, 5-11=-19, 11-12=-16, 2-37=-8
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)

Standard Except:

- Vert: 1-2=-7, 2-4=-1, 5-86=10, 11-86=-25, 12-37=-11, 2-38=16
Horz: 1-2=-13, 2-4=-19, 4-5=-26, 5-11=-31, 11-12=-8, 2-37=-16
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-4=-3, 5-86=-22, 11-86=-57, 12-37=-18, 2-38=-28
Horz: 1-2=-38, 2-4=-31, 4-5=-25, 5-11=-12, 11-12=9, 2-37=28
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-4=-22, 5-86=-3, 11-86=-38, 12-37=-18, 2-38=9
Horz: 1-2=-19, 2-4=-12, 4-5=-6, 5-11=-31, 11-12=-28, 2-37=-9
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-86=-34, 11-86=-69, 12-37=-18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-59, 2-4=-64, 5-86=-55, 11-86=-90, 12-37=-18, 2-38=-23
Horz: 1-2=-5, 2-4=-0, 4-5=28, 5-11=-9, 11-12=-8, 2-37=23
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-4=-53, 5-86=-41, 11-86=-76, 12-37=-18, 2-38=8
Horz: 1-2=-15, 2-4=-11, 4-5=-3, 5-11=-23, 11-12=-23, 2-37=-8
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-4=-41, 5-86=-55, 11-86=-90, 12-37=-18, 2-38=-21
Horz: 1-2=-28, 2-4=-23, 4-5=-19, 5-11=-9, 11-12=-7, 2-37=-21
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-50, 2-4=-55, 5-86=-41, 11-86=-76, 12-37=-18, 2-38=7
Horz: 1-2=-14, 2-4=-9, 4-5=-4, 5-11=-23, 11-12=-21, 2-37=-7
- 23) Dead-Drage LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=107, 5-86=-26, 6-86=-25, 11-86=-60, 12-37=-18
Horz: 2-4=-565, 5-6=9746, 6-83=9035, 83-84=9035, 9-84=9035, 9-85=9035, 10-85=9035, 10-86=9035, 86-87=9035, 11-87=9035
Drag: 4-5=282, 12-37=-282
- 24) Dead-Drage LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-175, 5-86=-42, 6-86=-43, 11-86=-78, 12-37=-18
Horz: 2-4=-565, 5-6=9746, 6-83=9035, 83-84=9035, 9-84=9035, 9-85=9035, 10-85=9035, 10-86=9035, 86-87=9035, 11-87=9035
Drag: 4-5=-282, 12-37=282
- 25) 0.6 Dead-Drage LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-20, 2-4=121, 5-86=-12, 6-86=-12, 11-86=-33, 12-37=-11
Horz: 2-4=-565, 5-6=9746, 6-83=9035, 83-84=9035, 9-84=9035, 9-85=9035, 10-85=9035, 10-86=9035, 86-87=9035, 11-87=9035
Drag: 4-5=282, 12-37=-282
- 26) 0.6 Dead-Drage LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-20, 2-4=-162, 5-86=-29, 6-86=-29, 11-86=-50, 12-37=-11
Horz: 2-4=-565, 5-6=9746, 6-83=9035, 83-84=9035, 9-84=9035, 9-85=9035, 10-85=9035, 10-86=9035, 86-87=9035, 11-87=9035
Drag: 4-5=-282, 12-37=282
- 27) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-4=-74, 5-86=-34, 11-86=-69, 12-37=-18
- 28) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=34, 2-4=-34, 5-86=-74, 11-86=-109, 12-37=-18
- 29) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-4=-64, 5-86=-34, 11-86=-69, 12-37=-18
- 30) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-86=-64, 11-86=-109, 12-37=-18
- 31) F1&F2 Anchor Check: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-86=-34(F)
Concentrated Loads (lb)
Horz: 32=-1875(F), 5=5000(F)
- 32) F3 Left&F4 Anchor Check: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-86=-34(F)
Concentrated Loads (lb)

Continued on page 3

LOAD CASE(S)

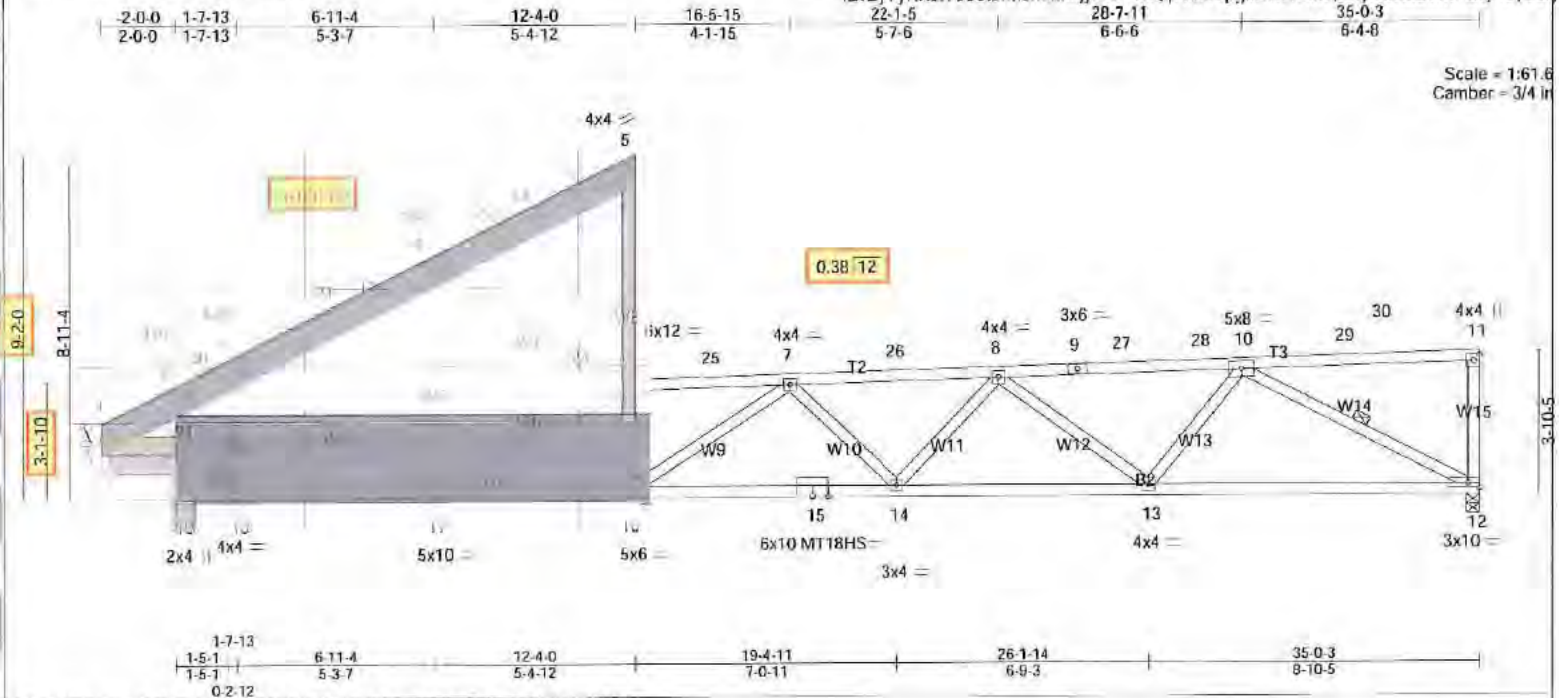
- Standard Except:
- Concentrated Loads (lb)
- Vert: 5=1050(F)
- Horz: 4=-300(F)
- 33) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-34(F), 2-4=-34(F), 5-86=-34(F), 11-86=-69(F=-34), 12-37=-18(F)
- Concentrated Loads (lb)
- Vert: 5=1050(F)
- Horz: 4=300(F)
- 34) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-86=-34, 11-86=-69, 12-37=-18
- Concentrated Loads (lb)
- Vert: 2=-306
- 35) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-86=-34, 11-86=-69, 12-37=-18
- Concentrated Loads (lb)
- Vert: 79=-306
- 36) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-86=-34, 11-86=-69, 12-37=-18
- Concentrated Loads (lb)
- Vert: 81=-306
- 37) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-86=-34, 11-86=-69, 12-37=-18
- Concentrated Loads (lb)
- Vert: 4=-306
- 38) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-86=-34, 11-86=-69, 12-37=-18
- Concentrated Loads (lb)
- Vert: 82=-306
- 39) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-86=-34, 11-86=-69, 12-37=-18
- Concentrated Loads (lb)
- Vert: 83=-306
- 40) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-86=-34, 11-86=-69, 12-37=-18
- Concentrated Loads (lb)
- Vert: 84=-306
- 41) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-86=-34, 11-86=-69, 12-37=-18
- Concentrated Loads (lb)
- Vert: 85=-306
- 42) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-86=-34, 11-86=-69, 12-37=-18
- Concentrated Loads (lb)
- Vert: 87=-306
- 43) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-86=-34, 11-86=-69, 12-37=-18
- Concentrated Loads (lb)
- Vert: 11=-306
- 44) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-86=-34, 11-86=-69, 12-37=-18
- Concentrated Loads (lb)
- Vert: 3=-306
- 45) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-86=-34, 11-86=-69, 12-37=-18
- Concentrated Loads (lb)
- Vert: 6=-306
- 46) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-86=-34, 11-86=-69, 12-37=-18
- Concentrated Loads (lb)
- Vert: 7=-306
- 47) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-86=-34, 11-86=-69, 12-37=-18
- Concentrated Loads (lb)
- Vert: 9=-306
- 48) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-86=-34, 11-86=-69, 12-37=-18

Standard

Concentrated Loads (lb)

Vert: 10=-306





Scale = 1/61.6
Camber = 3/4 in

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.95	Vert(LL)	0.35 14-16	MT20	220/195		
TCDL	17.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.96 14-16	MT18HS	220/195		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.25 12			Weight: 205 lb	FT = 20%
BCDL	9.0	Code IBC2015/TPI2014		Matrix-MSH							

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G *Except*
T1: 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G *Except*
W8: 2x6 DF No.2 G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 2-5-6 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS
1 Row at midpt 6-17, 10-12
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
12 = 1742/0-4-0 (min. 0-1-14)
18 = 1869/0-5-8 (min. 0-2-0)
Max Horz
18 = -3125(LC 27)
Max Uplift
12 = -23(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
3-21=1307/55, 4-21=1150/99, 4-22=374/289, 22-23=335/320,
5-23=329/360, 6-16=463/823, 6-24=366/1122,
5-24=366/132, 6-25=5803/1065, 7-25=5799/1070,
7-26=4479/574, 8-26=4476/576, 8-9=3165/219,
9-27=3158/220, 27-28=3157/220, 10-28=3151/223,
11-12=500/0
BOT CHORD
17-18=609/3071, 16-17=1068/3958, 15-16=840/4956,
14-15=840/4956, 13-14=563/3966, 12-13=212/2579
WEBS
3-18=1614/52, 3-17=35/1440, 4-17=444/820, 4-6=1264/369,
6-17=3224/962, 7-16=1239/1005, 7-14=693/612,
8-14=431/815, 8-13=1235/361, 10-13=161/1132,
10-12=2869/221, 2-18=339/239

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

- 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-7-13, Interior(1) 1-7-13 to 34-10-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) A plate rating reduction of 20% has been applied for the green lumber members.
- 7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 8) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 9) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 12-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
- 12) 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 Uniform Loads (plf)
Vert: 1-2=74, 2-5=74, 6-28=74, 11-12=74
 - 2) Dead + 0.75 Roof Live (balanced): Lumber Uniform Loads (plf)
Vert: 1-2=64, 2-5=64, 6-28=64, 11-12=64
 - 3) Dead + Uninhabitable Attic Without Increase=1.25
Uniform Loads (plf)
Vert: 1-2=34, 2-5=34, 6-28=34, 11-12=34
 - 4) Dead + 0.6 C-C Wind (Pos. Internal Increase=1.60
Uniform Loads (plf)

LOAD CASE(S)

- Standard Except:
Uniform Loads (plf)
Vert: 1-2=57, 2-3=28, 3-5=14, 6-28=18, 11-28=17, 18-19=30, 12-18=11
Horz: 1-2=77, 2-3=48, 3-5=34, 5-6=12, 6-11=38, 11-12=35, 2-19=19
- 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=8, 2-22=14, 5-22=28, 6-28=18, 28-29=17, 11-29=10, 18-19=30, 12-18=11
Horz: 1-2=28, 2-22=34, 5-22=48, 5-6=41, 6-29=38, 11-29=45, 11-12=19, 2-19=35
- 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=23, 2-5=51, 6-28=47, 11-28=82, 18-19=11, 12-18=18
Horz: 1-2=11, 2-5=17, 5-6=16, 6-11=13, 11-12=31, 2-19=22
- 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=45, 2-5=51, 6-28=47, 11-28=82, 18-19=11, 12-18=18
Horz: 1-2=11, 2-5=17, 5-6=38, 6-11=13, 11-12=22, 2-19=31
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-5=7, 6-28=5, 11-28=30, 18-19=10, 12-18=11
Horz: 1-2=28, 2-5=13, 5-6=12, 6-11=25, 11-12=23, 2-19=18
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-5=6, 6-28=23, 11-28=12, 12-19=11
Horz: 1-2=21, 2-5=27, 5-6=29, 6-11=44, 11-12=18, 2-19=23
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=27, 2-5=34, 6-28=22, 11-28=57, 18-19=3, 12-18=18
Horz: 1-2=7, 2-5=0, 5-6=37, 6-11=12, 11-12=11, 2-19=31
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=13, 2-5=20, 6-28=3, 11-28=38, 12-19=18
Horz: 1-2=21, 2-5=14, 5-6=4, 6-11=31, 11-12=31, 2-19=11
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-5=23, 6-28=5, 11-28=30, 12-19=11
Horz: 1-2=38, 2-5=44, 5-6=50, 6-11=25, 11-12=21, 2-19=15
- 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, 2-5=5, 6-28=23, 11-28=12, 12-19=11
Horz: 1-2=19, 2-5=25, 5-6=31, 6-11=44, 11-12=15, 2-19=21
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=10, 6-28=1, 11-28=36, 12-19=11
Horz: 1-2=24, 2-5=31, 5-6=37, 6-11=19, 11-12=16, 2-19=8
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-5=1, 6-28=10, 11-28=25, 12-19=11
Horz: 1-2=13, 2-5=19, 5-6=26, 6-11=31, 11-12=8, 2-19=16
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=3, 6-28=22, 11-28=57, 12-19=18
Horz: 1-2=38, 2-5=31, 5-6=25, 6-11=12, 11-12=9, 2-19=28
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-5=22, 6-28=3, 11-28=38, 12-19=18
Horz: 1-2=19, 2-5=12, 5-6=6, 6-11=31, 11-12=28, 2-19=9
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=34, 2-5=34, 6-28=34, 11-28=69, 12-19=18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=59, 2-5=64, 6-28=55, 11-28=90, 18-19=2, 12-18=18
Horz: 1-2=5, 2-5=0, 5-6=28, 6-11=9, 11-12=8, 2-19=23
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=49, 2-5=53, 6-28=41, 11-28=76, 12-19=18
Horz: 1-2=15, 2-5=11, 5-6=3, 6-11=23, 11-12=23, 2-19=8

- Standard Except:
21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=36, 2-5=41, 6-28=55, 11-28=90, 12-19=18
Horz: 1-2=28, 2-5=23, 5-6=19, 6-11=9, 11-12=7, 2-19=21
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=50, 2-5=55, 6-28=41, 11-28=76, 12-19=18
Horz: 1-2=14, 2-5=9, 5-6=4, 6-11=23, 11-12=21, 2-19=7
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=74, 2-5=74, 6-28=34, 11-28=69, 12-19=18
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=34, 2-5=34, 6-28=74, 11-28=109, 12-19=18
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=64, 2-5=64, 6-28=34, 11-28=69, 12-19=18
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=34, 2-5=34, 6-28=64, 11-28=99, 12-19=18
- 27) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=34(F), 2-5=34(F), 6-28=34(F), 11-28=69(F=34), 12-19=18(F)
Concentrated Loads (lb)
Horz: 16=1875(F), 6=5000(F)
- 28) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=34(F), 2-5=34(F), 6-28=34(F), 11-28=69(F=34), 12-19=18(F)
Concentrated Loads (lb)
Vert: 24=1050(F)
Horz: 5=300(F)
- 29) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=34(F), 2-5=34(F), 6-28=34(F), 11-28=69(F=34), 12-19=18(F)
Concentrated Loads (lb)
Vert: 24=1050(F)
Horz: 5=300(F)
- 30) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=34, 2-5=34, 6-28=34, 11-28=69, 12-19=18
Concentrated Loads (lb)
Vert: 2=306
- 31) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=34, 2-5=34, 6-28=34, 11-28=69, 12-19=18
Concentrated Loads (lb)
Vert: 20=306
- 32) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=34, 2-5=34, 6-28=34, 11-28=69, 12-19=18
Concentrated Loads (lb)
Vert: 21=306
- 33) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=34, 2-5=34, 6-28=34, 11-28=69, 12-19=18
Concentrated Loads (lb)
Vert: 23=306
- 34) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=34, 2-5=34, 6-28=34, 11-28=69, 12-19=18
Concentrated Loads (lb)
Vert: 5=306
- 35) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=34, 2-5=34, 6-28=34, 11-28=69, 12-19=18
Concentrated Loads (lb)
Vert: 25=306
- 36) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=34, 2-5=34, 6-28=34, 11-28=69, 12-19=18
Concentrated Loads (lb)
Vert: 26=306
- 37) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=34, 2-5=34, 6-28=34, 11-28=69, 12-19=18
Concentrated Loads (lb)
Vert: 27=306
- 38) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Job	Truss	Truss Type	Qty	Ply	M31927/Legacy Livermore/Ken L.
BUILDING A	AB18	ROOF SPECIAL	5	1	Job Reference (optional)
California TrusFrame LLC., Perris, CA. 92570			Run: 8.240 s Jan 6 2020 Print: 8.240 s Jan 6 2020 MiTek Industries, Inc. Fri Oct 9 15:58:09 2020 Page 3 ID: EyTyKKJiT05ot2fMsnaktVyjiO7-G?Qip4thxYpgkZ1u4GUQS8yofsRabvwiPCty40yV3ty		

LOAD CASE(S)

- Standard
- Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-28=-34, 11-28=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 30=-306
- 39) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-28=-34, 11-28=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 11=-306
- 40) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-28=-34, 11-28=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 3=-306
- 41) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-28=-34, 11-28=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 4=-306
- 42) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-28=-34, 11-28=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 7=-306
- 43) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-28=-34, 11-28=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 8=-306
- 44) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-28=-34, 11-28=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 10=-306



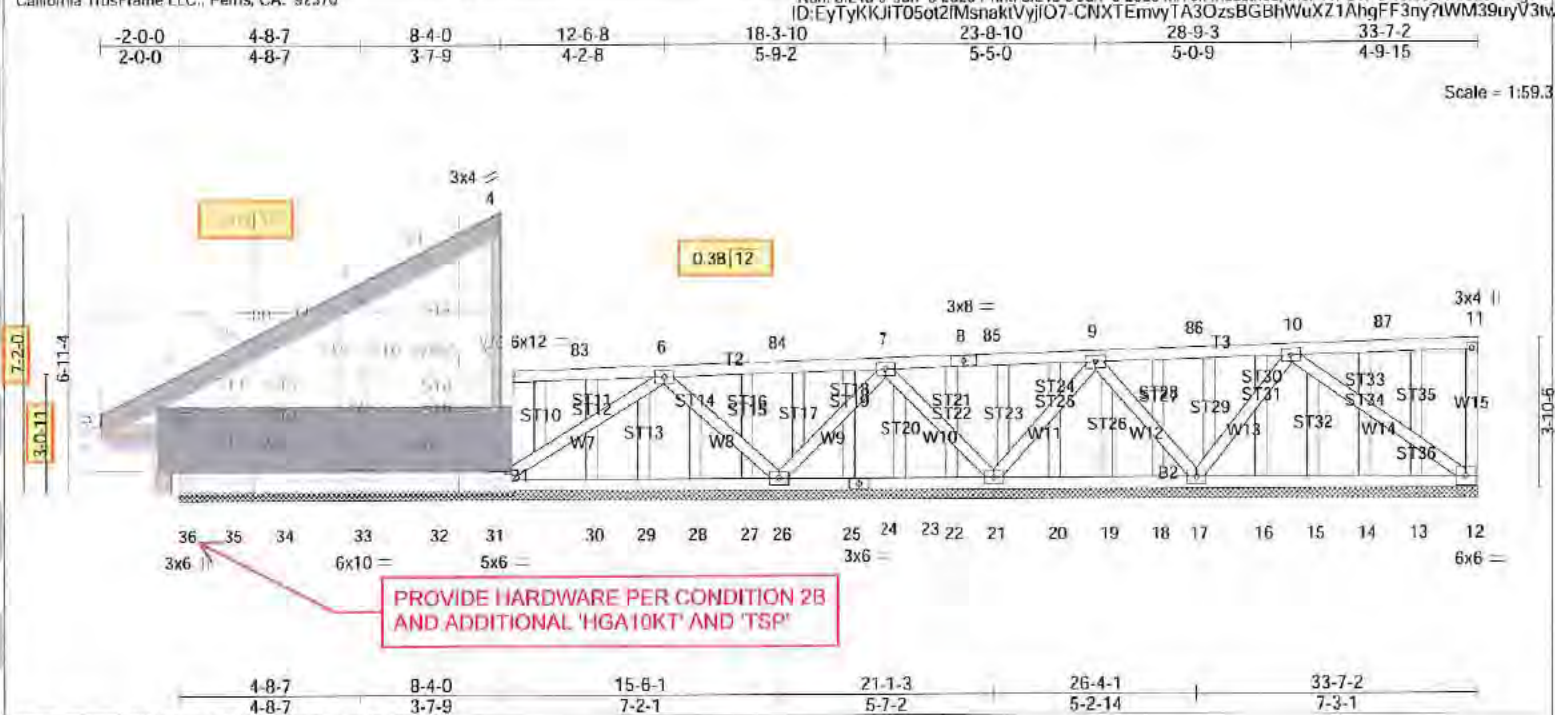


Plate Offsets (X,Y) -- [2.0-3.0,0.0-1.8], [5.0-9.4,0.0-3.0]		LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL 20.0		Plate Grip DOL 1.25		TC 0.72		in (loc) l/defl L/d		MT20		220/195			
TCDL 17.0		Lumber DOL 1.25		BC 0.34		Vert(LL) 0.00 1 n/r 120							
BCLL 0.0 *		Rep Stress Incr YES		WB 1.00		Vert(CT) -0.05 1-2 n/r 120							
BCDL 9.0		Code IBC2015/TPI2014		Matrix-SH		Horz(CT) 0.04 12 n/a n/a							
										Weight: 277 lb		FT = 20%	

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G *Except*
T1: 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G *Except*
W6: 2x6 DF No.2 G
OTHERS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 4-7-15 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
5-4-3 oc bracing: 33-34
5-9-4 oc bracing: 32-33
5-6-3 oc bracing: 30-31
10-0-0 oc bracing: 28-29
5-8-3 oc bracing: 12-13.

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -2-0-0 to 1-5-13, Exterior(2) 1-5-13 to 33-5-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 4x6 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 1-4-0 oc.
7) This truss has been designed for a
with any other live loads.
8) * This truss has been designed for areas where a rectangle 3-6-0 tall by 2
any other members.
9) A plate rating reduction of 20% has
10) This truss is designed in accordance with section 2306.1 and referenced standards.
11) Load case(s) 31, 32, 33 has/have loads to verify that they are correct for
12) This truss has been designed for a 6.0lb dead located at all mid panels and nonconcurrent with any other live load
13) This truss has been designed for a DOL=(1.33) Plate grip DOL=(1.33) C

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 33-7-2.
(lb) - Max Horz
36=-3125(LC 31)
Max Uplift
All uplift 100 lb or less at joint(s) 35, 32 except
31=-1004(LC 32), 12=-872(LC 26), 36=-1623(LC 25), 33=-951(LC 25), 26=-209(LC 25), 21=-111(LC 13), 17=-149(LC 9)
Max Grav
All reactions 250 lb or less at joint(s) 35, 34, 32, 30, 29, 28, 27, 25, 23, 22, 20, 19, 18, 16, 15, 14, 13 except
31=980(LC 31), 12=1061(LC 23), 36=1890(LC 24), 33=1220(LC 24), 26=699(LC 31), 21=476(LC 1), 17=521(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-79=-1760/1698, 79-80=-930/972, 3-80=-809/923,
3-81=-1219/1169, 4-81=-506/464, 5-31=-1568/1126,
5-82=-1213/1151, 4-82=-352/145, 5-83=-2019/462,
6-83=-2011/1230, 6-84=-281/127, 7-84=-966/1063,
7-8=-906/975, 9-85=-732/810, 9-86=-1030/1095,
10-86=-496/570, 10-87=-1468/1454, 11-87=-585/650,
11-12=-372/50, 2-36=-1857/1602
BOT CHORD
35-36=-614/3108, 34-35=-775/3108, 33-34=-1411/3108,
32-33=-1208/1197, 31-32=-595/583, 30-31=-1312/1516,

Continued on page 2

NOTES-

- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 8-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
- 16) 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:
- 31) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-11=-34(F), 12-36=-18(F)
Concentrated Loads (lb)
Horz: 31=-1875(F), 5=5000(F)
- 32) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-11=-34(F), 12-36=-18(F)
Concentrated Loads (lb)
Vert: 82=1050(F)
Horz: 4=-300(F)
- 33) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-11=-34(F), 12-36=-18(F)
Concentrated Loads (lb)
Vert: 82=1050(F)
Horz: 4=300(F)



-2-0-0 4-8-7 8-4-0 12-6-8 18-3-12 23-8-12 28-9-5 33-7-2
2-0-0 4-8-7 3-7-9 4-2-8 5-9-4 5-5-0 5-0-9 4-9-13

Scale = 1:59.3
Camber = 5/8 in

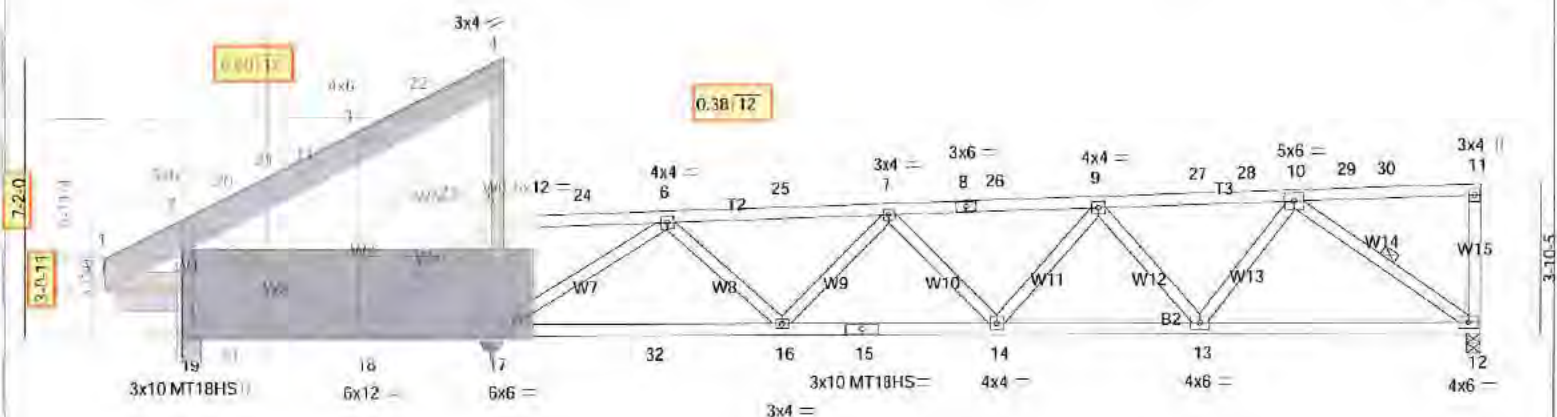


Plate Offsets (X,Y)-- [2-0-2-12,0-2-0], [5-0-9-0,0-3-0]

LOADING (psf)	SPACING	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.75	Vert(LL)	0.26 16-17	>999	240	MT20	220/195
TCDL 17.0	Plate Grip DOL 1.25	BC 0.81	Vert(CT)	-0.88 16-17	>452	180	MT18HS	220/195
BCLL 0.0 *	Lumber DOL 1.25	WB 0.71	Horz(CT)	0.25 12	n/a	n/a		
BCDL 9.0	Rep Stress Incr YES	Matrix-MSH						
	Code IBC2015/TPI2014						Weight: 187 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G *Except*
T1: 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G *Except*
W6: 2x6 DF No.2 G, W2: 2x4 DF No.2 G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 2-4-4 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 4-4-6 oc bracing.
WEBS
1 Row at midpt 5-18, 10-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

12	=	1716/0-4-0 (min. 0-1-13)
19	=	1714/0-5-8 (min. 0-3-0)
Max Horz		
19	=	-3125(LC 31)
Max Uplift		
12	=	-49(LC 9)
19	=	-1288(LC 25)
Max Grav		
12	=	1716(LC 1)
19	=	2824(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-20=-2696/1395, 20-21=-2214/973, 3-21=-2149/968,
3-22=-762/652, 4-22=-383/348, 5-17=-374/818, 5-23=-753/1146,
4-23=-545/492, 5-24=-5888/934, 6-24=-5883/940,
6-25=-4795/592, 7-25=-4792/560, 7-8=3841/431,
8-26=-3819/432, 9-26=-3818/434, 9-27=-2739/197,
27-28=-2690/198, 10-28=-2684/200, 10-29=-848/802,
29-30=-434/396, 11-30=-391/360, 11-12=-451/0,
2-19=-2782/1306
BOT CHORD
19-31=-513/3120, 18-31=-2079/3120, 17-18=-943/3931,
17-32=-746/5178, 16-32=-746/5178, 15-16=-638/4332,
14-15=-638/4332, 13-14=-440/3388, 12-13=-177/1985
WEBS
3-18=-456/1101, 3-5=-1415/349, 5-18=-3843/1217,
6-17=-1293/828, 6-16=-543/641, 7-16=-445/681,
7-14=-899/219, 9-14=-145/960, 9-13=-1124/270,
10-13=-163/1226, 10-12=-2420/190, 2-18=-1472/2763

WEBS
3-18=-456/1101, 3-5=-1415/349, 5-18=-3843/1217,
6-17=-1293/828, 6-16=-543/641, 7-16=-445/681,
7-14=-899/219, 9-14=-145/960, 9-13=-1124/270,
10-13=-163/1226, 10-12=-2420/190, 2-18=-1472/2763

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-4-5, Interior(1) 1-4-5 to 33-5-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) A plate rating reduction of 20% has been applied for the green lumber members.
 - 7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 8) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 9) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads
 - 10) This truss has been designed for a concentrated load of 1875 lb at the bottom chord from 0-5-8 to 12-1-12 for 504.8 psf
 - 11) Hanger(s) or other connection device(s) is the responsibility of the building designer. If such connection device(s) is the responsibility of the building designer, the building designer must verify that they are correct for the intended use of this truss.
 - 12) This truss is designed for a creep deflection per ANSI/TPI 1.
 - 13) In the LOAD CASE(S) section, load cases are listed as front (F) or back (B).

LOAD CASE(S)

Standard Except:

- 1) Dead + Roof Live (balanced); Lumber

LOAD CASE(S)

- Standard Except:
Uniform Loads (plf)
Vert: 1-2=-74, 2-4=-74, 5-28=-74, 11-28=-109, 12-19=-18
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-4=-64, 5-28=-64, 11-28=-99, 12-19=-18
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-38
- 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=57, 2-20=28, 4-20=14, 5-28=18, 11-28=17, 12-19=-11
Horz: 1-2=-77, 2-20=-48, 4-20=-34, 4-5=13, 5-11=-38, 11-12=35, 2-19=19
- 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=8, 2-3=14, 3-4=28, 5-28=18, 28-29=17, 11-29=10, 12-19=-11
Horz: 1-2=-28, 2-3=-34, 3-4=-48, 4-5=-41, 5-29=-38, 11-29=-45, 11-12=-19, 2-19=-35
- 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=-23, 2-4=-51, 5-28=-47, 11-28=-82, 12-19=-18
Horz: 1-2=-11, 2-4=17, 4-5=-16, 5-11=13, 11-12=-32, 2-19=-23
- 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=-45, 2-4=-51, 5-28=-47, 11-28=-82, 12-19=-18
Horz: 1-2=-11, 2-4=17, 4-5=-38, 5-11=-13, 11-12=-23, 2-19=-32
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-4=-7, 5-28=5, 11-28=-30, 12-19=-11
Horz: 1-2=-28, 2-4=-13, 4-5=12, 5-11=-25, 11-12=-23, 2-19=18
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-4=6, 5-28=23, 11-28=-12, 12-19=-11
Horz: 1-2=-21, 2-4=-27, 4-5=-29, 5-11=-44, 11-12=-18, 2-19=-23
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-4=-34, 5-28=-22, 11-28=-57, 12-19=-18
Horz: 1-2=-7, 2-4=-0, 4-5=37, 5-11=-12, 11-12=11, 2-19=31
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-4=-20, 5-28=-3, 11-28=-38, 12-19=-18
Horz: 1-2=-21, 2-4=-14, 4-5=-4, 5-11=-31, 11-12=-31, 2-19=-11
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-4=23, 5-28=5, 11-28=-30, 12-19=-11
Horz: 1-2=-38, 2-4=-44, 4-5=-50, 5-11=-25, 11-12=-21, 2-19=15
- 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, 2-4=5, 5-28=23, 11-28=-12, 12-19=-11
Horz: 1-2=-19, 2-4=-25, 4-5=-31, 5-11=-44, 11-12=-15, 2-19=-21
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-4=10, 5-28=-1, 11-28=-36, 12-19=-11
Horz: 1-2=-24, 2-4=-31, 4-5=-37, 5-11=-19, 11-12=-16, 2-19=8
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-4=-1, 5-28=10, 11-28=-25, 12-19=-11
Horz: 1-2=-13, 2-4=-19, 4-5=-26, 5-11=-31, 11-12=-8, 2-19=-16
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-4=-3, 5-28=-22, 11-28=-57, 12-19=-18
Horz: 1-2=-38, 2-4=-31, 4-5=-25, 5-11=-12, 11-12=-9, 2-19=28
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-4=-22, 5-28=-3, 11-28=-38, 12-19=-18
Horz: 1-2=-19, 2-4=-12, 4-5=-6, 5-11=-31, 11-12=-28, 2-19=-9
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 P/L metal=0.90
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18

Continued on page 3

- Standard Except:
19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-59, 2-4=-64, 5-28=-55, 11-28=-90, 12-19=-18
Horz: 1-2=-5, 2-4=-0, 4-5=28, 5-11=-9, 11-12=-8, 2-19=23
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-4=-53, 5-28=-41, 11-28=-76, 12-19=-18
Horz: 1-2=-15, 2-4=-11, 4-5=-3, 5-11=-23, 11-12=-23, 2-19=8
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-4=-41, 5-28=-55, 11-28=-90, 12-19=-18
Horz: 1-2=-28, 2-4=-23, 4-5=-19, 5-11=-9, 11-12=-7, 2-19=21
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-50, 2-4=-55, 5-28=-41, 11-28=-76, 12-19=-18
Horz: 1-2=-14, 2-4=-9, 4-5=-4, 5-11=-23, 11-12=-21, 2-19=-7
- 23) Dead-Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-54, 5-6=-22, 6-28=-29, 11-28=-64, 12-19=-18
Horz: 2-4=351, 5-6=2502, 6-25=5620, 8-25=5620, 8-26=5620, 9-26=5620, 9-27=5620, 27-28=5620, 28-29=5620, 11-29=5620
Drag: 4-5=176, 31-32=-505
- 24) Dead-Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-122, 5-6=-46, 6-28=-39, 11-28=-74, 12-19=-18
Horz: 2-4=351, 5-6=2502, 6-25=5620, 8-25=5620, 8-26=5620, 9-26=5620, 9-27=5620, 27-28=5620, 28-29=5620, 11-29=5620
Drag: 4-5=176, 31-32=-505
- 25) 0.6 Dead-Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-20, 2-4=67, 5-6=-8, 6-28=-15, 11-28=-36, 12-19=-11
Horz: 2-4=351, 5-6=2502, 6-25=5620, 8-25=5620, 8-26=5620, 9-26=5620, 9-27=5620, 27-28=5620, 28-29=5620, 11-29=5620
Drag: 4-5=176, 31-32=-505
- 26) 0.6 Dead-Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-20, 2-4=-108, 5-6=-33, 6-28=-20, 11-28=-47, 12-19=-11
Horz: 2-4=351, 5-6=2502, 6-25=5620, 8-25=5620, 8-26=5620, 9-26=5620, 9-27=5620, 27-28=5620, 28-29=5620, 11-29=5620
Drag: 4-5=176, 31-32=-505
- 27) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-4=-74, 5-28=-34, 11-28=-69, 12-19=-18
- 28) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-28=-74, 11-28=-109, 12-19=-18
- 29) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-4=-64, 5-28=-34, 11-28=-69, 12-19=-18
- 30) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-28=-64, 11-28=-99, 12-19=-18
- 31) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-28=-34(F), 11-28=-69(F=-34), 12-19=-18(F)
Concentrated Loads (lb)
Horz: 17=-1875(F), 5=5000(F)
- 32) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-28=-34(F), 11-28=-69(F=-34), 12-19=-18(F)
Concentrated Loads (lb)
Vert: 23=1050(F)
Horz: 4=300(F)
- 33) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-28=-34(F), 11-28=-69(F=-34), 12-19=-18(F)
Concentrated Loads (lb)
Vert: 23=1050(F)
Horz: 4=300(F)
- 34) 1st Moving Load: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
Concentrated Loads (lb)
Vert: 2=306
- 35) 2nd Moving Load: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)

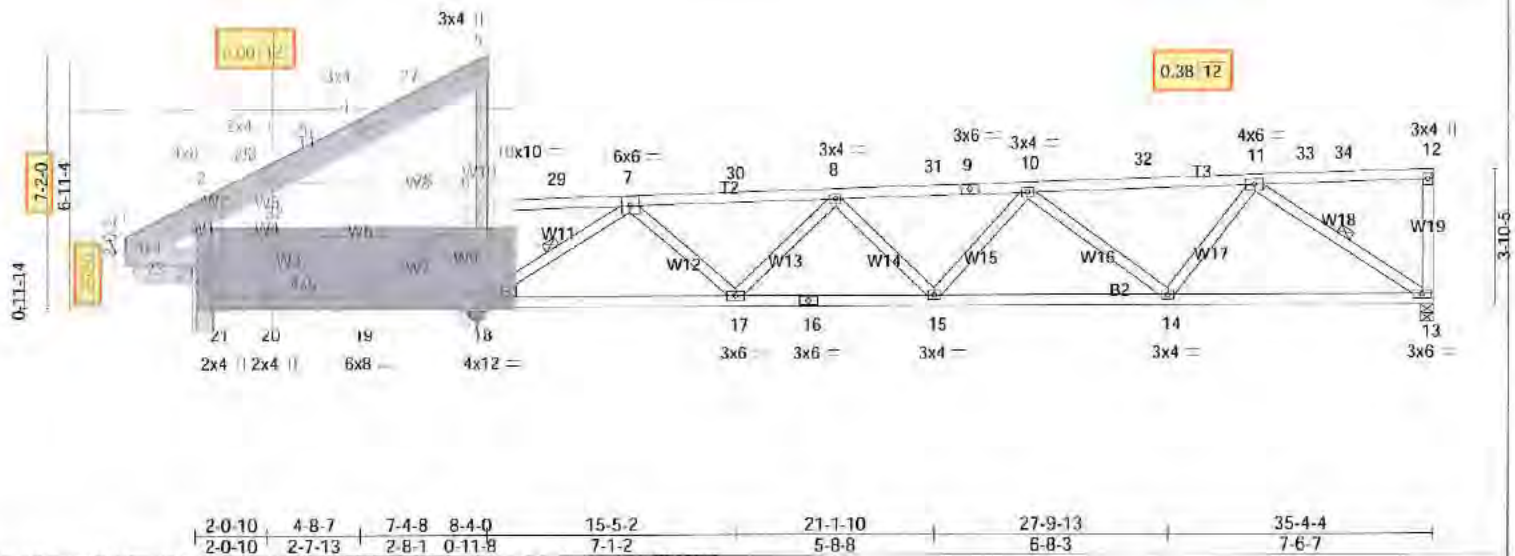
LOAD CASE(S)

- Standard
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
- Concentrated Loads (lb)
- Vert: 21=-306
- 36) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
- Concentrated Loads (lb)
- Vert: 22=-306
- 37) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
- Concentrated Loads (lb)
- Vert: 4=-306
- 38) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
- Concentrated Loads (lb)
- Vert: 24=-306
- 39) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
- Concentrated Loads (lb)
- Vert: 25=-306
- 40) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
- Concentrated Loads (lb)
- Vert: 26=-306
- 41) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
- Concentrated Loads (lb)
- Vert: 27=-306
- 42) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
- Concentrated Loads (lb)
- Vert: 30=-306
- 43) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
- Concentrated Loads (lb)
- Vert: 11=-306
- 44) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
- Concentrated Loads (lb)
- Vert: 3=-306
- 45) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
- Concentrated Loads (lb)
- Vert: 6=-306
- 46) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
- Concentrated Loads (lb)
- Vert: 7=-306
- 47) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
- Concentrated Loads (lb)
- Vert: 9=-306
- 48) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 5-28=-34, 11-28=-69, 12-19=-18
- Concentrated Loads (lb)
- Vert: 10=-306



-2-0-0	2-0-10	4-8-7	8-4-0	12-4-15	18-3-6	23-9-12	30-3-1	35-4-4
2-0-0	2-0-10	2-7-13	3-7-9	4-0-15	5-10-8	5-6-5	6-5-6	5-1-3

Scale = 1:65.5
Camber = 1/4 in



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.67	in (loc) l/dell L/d	MT20	220/195
TCDL 17.0	Plate Grip DOL 1.25	BC 0.57	Vert(LL) 0.09 15 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.62	Vert(CT) 0.32 14-15 >999 180		
BCDL 9.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.09 13 n/a n/a		
	Code IBC2015/TPI2014				
				Weight: 205 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G *Except*
T1: 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G *Except*
W10,W1: 2x6 DF No.2 G, W2: 2x4 DF No.2 G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 3-10-0 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 4-11-10 oc bracing.
WEBS
1 Row at midpt 7-18, 11-13

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

18	=	2278/0-5-8 (min. 0-2-7)
13	=	1252/0-4-0 (min. 0-1-8)
24	=	20/0-5-8 (min. 0-1-8)
Max Horz		
18	=	380(LC 9)
Max Uplift		
18	=	-326(LC 9)
13	=	-12(LC 9)
24	=	-251(LC 28)
Max Grav		
18	=	2278(LC 1)
13	=	1252(LC 1)
24	=	271(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-25=-182/403, 3-25=-171/423, 3-26=-163/439, 4-26=-141/469,
4-27=-347/345, 5-27=-318/371, 6-18=-843/823, 6-28=-360/1143,
5-28=-360/95, 6-29=-135/1557, 7-29=-129/1570,
7-30=-1256/162, 8-30=-1249/164, 8-31=-2073/225,
9-31=-2067/226, 9-10=-2062/228, 10-32=-1764/101,
11-32=-1756/103, 12-13=-456/0
BOT CHORD
18-19=-1555/411, 17-18=-224/469, 16-17=-339/1869,
15-16=-339/1869, 14-15=-326/2154, 13-14=-145/1430
WEBS
4-19=-652/62, 4-6=-19/443, 6-19=-247/1536, 7-18=-2381/304,
7-17=-35/1119, 8-17=-906/131, 8-15=-0/391, 10-14=-510/198,

WEBS
4-19=-652/62, 4-6=-19/443, 6-19=-247/1536, 7-18=-2381/304,
7-17=-35/1119, 8-17=-906/131, 8-15=-0/391, 10-14=-510/198,
11-14=-46/580, 11-13=-1699/150, 2-22=-417/205,
19-22=-429/208, 2-24=-271/258

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-6-10, Interior(1) 1-6-10 to 35-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Bearing at joint(s) 24 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
9) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and a nonconcurrent with any other live loads.
10) Hanger(s) or other connection device concentrated load(s). The design/selection responsibility of others.
11) This truss is designed for a creep factor
Vert(CT) deflection per ANSI/TPI 1.
12) In the LOAD CASE(S) section, loads front (F) or back (B).

LOAD CASE(S)
Standard Except:
1) Dead + Roof Live (balanced); Lumber Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-11=-74, 11-1

LOAD CASE(S)

- Standard Except:
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-11=-64, 11-12=-99, 13-21=-18
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-21=-38
- 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=57, 2-25=28, 5-25=14, 6-11=18, 11-12=-17, 13-21=-11
Horz: 1-2=-77, 2-25=-48, 5-25=34, 5-6=12, 6-12=-38, 12-13=35, 21-23=19
- 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=8, 2-4=14, 4-5=28, 6-11=18, 11-33=-17, 12-33=-10, 13-21=-11
Horz: 1-2=-28, 2-4=-34, 4-5=-48, 5-6=-41, 6-33=-38, 12-33=-45, 12-13=-19, 21-23=-35
- 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=23, 2-5=-51, 6-11=-47, 11-12=-82, 13-21=-18
Horz: 1-2=-11, 2-5=17, 5-6=16, 6-12=13, 12-13=-31, 21-23=-22
- 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=45, 2-5=-51, 6-11=-47, 11-12=-82, 13-21=-18
Horz: 1-2=-11, 2-5=17, 5-6=38, 6-12=13, 12-13=22, 21-23=31
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-5=-7, 6-11=5, 11-12=-30, 13-21=-11
Horz: 1-2=-28, 2-5=-13, 5-6=12, 6-12=-25, 12-13=23, 21-23=18
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-5=6, 6-11=23, 11-12=-12, 13-21=-11
Horz: 1-2=-21, 2-5=27, 5-6=29, 6-12=-44, 12-13=18, 21-23=-23
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-5=-34, 6-11=-22, 11-12=-57, 13-21=-18
Horz: 1-2=-7, 2-5=-0, 5-6=37, 6-12=12, 12-13=11, 21-23=31
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-5=-20, 6-11=-3, 11-12=-38, 13-21=-18
Horz: 1-2=-21, 2-5=-14, 5-6=-4, 6-12=-31, 12-13=-31, 21-23=-11
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-5=23, 6-11=5, 11-12=-30, 13-21=-11
Horz: 1-2=38, 2-5=-44, 5-6=-50, 6-12=-25, 12-13=21, 21-23=15
- 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, 2-5=5, 6-11=23, 11-12=-12, 13-21=-11
Horz: 1-2=-19, 2-5=-25, 5-6=-31, 6-12=-44, 12-13=-15, 21-23=-21
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=10, 6-11=-1, 11-12=-36, 13-21=-11
Horz: 1-2=-24, 2-5=-31, 5-6=-37, 6-12=-19, 12-13=16, 21-23=8
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-5=-1, 6-11=10, 11-12=-25, 13-21=-11
Horz: 1-2=-13, 2-5=-19, 5-6=-26, 6-12=-31, 12-13=-8, 21-23=-16
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=-3, 6-11=-22, 11-12=-57, 13-21=-18
Horz: 1-2=-38, 2-5=-31, 5-6=-25, 6-12=-12, 12-13=-9, 21-23=28
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-5=-22, 6-11=-3, 11-12=-38, 13-21=-18
Horz: 1-2=-19, 2-5=-12, 5-6=-6, 6-12=-31, 12-13=-28, 21-23=-9
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=34, 2-5=34, 6-11=34, 11-12=-69, 13-21=-18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

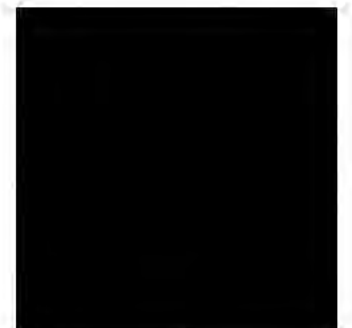
Continued on page 3

Standard Except:

- Uniform Loads (plf)
Vert: 1-2=-59, 2-5=-64, 6-11=-55, 11-12=-90, 13-21=-18
Horz: 1-2=-5, 2-5=-0, 5-6=28, 6-12=-9, 12-13=8, 21-23=23
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-5=-53, 6-11=-41, 11-12=-76, 13-21=-18
Horz: 1-2=-15, 2-5=-11, 5-6=-3, 6-12=-23, 12-13=-23, 21-23=-8
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-5=-41, 6-11=-55, 11-12=-90, 13-21=-18
Horz: 1-2=-28, 2-5=-23, 5-6=-19, 6-12=-9, 12-13=7, 21-23=21
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-50, 2-5=-55, 6-11=-41, 11-12=-76, 13-21=-18
Horz: 1-2=-14, 2-5=-9, 5-6=-4, 6-12=-23, 12-13=-21, 21-23=-7
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-11=-34, 11-12=-69, 13-21=-18
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-11=-74, 11-12=-109, 13-21=-18
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-11=-34, 11-12=-69, 13-21=-18
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-11=-64, 11-12=-99, 13-21=-18
- 27) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-11=-34(F), 11-12=-69(F=-34), 13-21=-18(F)
Concentrated Loads (lb)
Vert: 28=1050(F)
Horz: 5=-300(F)
- 28) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-11=-34(F), 11-12=-69(F=-34), 13-21=-18(F)
Concentrated Loads (lb)
Vert: 28=1050(F)
Horz: 5=300(F)
- 29) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 2=306
- 30) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 25=306
- 31) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 26=306
- 32) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 27=306
- 33) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 5=306
- 34) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 29=306
- 35) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 30=306
- 36) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 31=306

LOAD CASE(S)

- Standard
- Concentrated Loads (lb)
Vert: 31=-306
- 37) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 32=-306
- 38) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 34=-306
- 39) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 12=-306
- 40) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 3=-306
- 41) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 4=-306
- 42) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 7=-306
- 43) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 8=-306
- 44) 16th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 10=-306
- 45) 17th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 11=-306





NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Wind Dir. 077mph; TCDF=10⁻⁷ pfs; BCDL=5.4psf; h=54ft; Cat. II; Exp. C; End zone and C-C Corner(3) -2-0-0 to 1-6-10, Ext. and right exposed ; end vertical left and MWFRS for reactions shown; Lumber D
- 3) Truss designed for wind loads in the wind (normal to the face), see Standard consult qualified building designer as per
- 4) Gable requires continuous bottom ch
- 5) Gable studs spaced at 1-4-0 oc.
- 6) This truss has been designed for a 10 current with any other live loads.
- 7) * This truss has been designed for all areas where a rectangle 3-6-0 tall by 2-4-0 in all and
- 8) A plate rating reduction of 20% has been applied for the green lumber members.

REACTIONS. All bearings 34-10-12.
(lb) - Max Horz
38=-3125(LC 31)
Max Uplift
All uplift 100 lb or less at joint(s) 18, 37, 33, 30
except 32=-1060(LC 32), 13=-701(LC 26), 38=-1354(LC 25),
34=-593(LC 25), 28=-175(LC 25), 23=-156(LC 9), 36=-235(LC
25)
Max Grav
All reactions 250 lb or less at joint(s) 37, 35, 33, 31, 30,
29, 27, 25, 24, 22, 21, 20, 19, 17, 16, 15, 14 except
32=-1056(LC 31), 13=-1078(LC 23), 38=-1567(LC 24), 34=-803(LC
24), 28=-700(LC 31), 23=-503(LC 1), 18=-640(LC 1), 36=-343(LC
45)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-87=-1470/1396, 87-88=-1200/1196, 3-88=-1092/1097,
3-89=-951/852, 4-89=-454/654, 4-90=-1074/1023,
5-90=-520/437, 6-32=-1621/1179, 6-91=-1207/1147,
5-91=-356/146, 6-92=-1991/371, 7-92=-1983/1045,
7-93=-260/808, 8-93=-825/929, 8-94=-878/975, 9-10=-563/669,
10-95=-1236/1333, 11-95=-457/564, 11-96=-1374/1342,
12-96=-587/589, 12-13=-453/0, 38-39=-1561/1339,
2-39=-1566/1339

NOTES-

- 9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 12) This truss has been designed for a total seismic drag load of 9700 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 35-4-4 for 274.4 plf.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 8-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
- 15) 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=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-11=-74, 11-12=-109, 13-38=-18
Horz: 1-2=-88, 2-5=-88, 6-11=-88, 11-12=-109, 13-38=-18
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-11=-64, 11-12=-99, 13-38=-18
Horz: 1-2=-88, 2-5=-88, 6-11=-88, 11-12=-109, 13-38=-18
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-38=-38
Horz: 1-2=-88, 2-5=-88, 6-11=-88, 11-12=-109, 13-38=-18
- 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=67, 2-88=56, 5-88=28, 6-11=25, 11-12=-10, 13-38=-11, 2-39=19
Horz: 1-2=-88, 2-88=-77, 5-88=-48, 5-6=12, 6-12=-45, 12-13=35, 2-38=19
- 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=22, 2-4=28, 4-5=56, 6-11=25, 11-12=-10, 13-38=-11, 2-39=35
Horz: 1-2=-42, 2-4=-48, 4-5=-77, 5-6=42, 6-12=-45, 12-13=19, 2-38=35
- 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=-23, 2-5=-51, 6-11=-47, 11-12=-82, 13-38=-18, 2-39=23
Horz: 1-2=-11, 2-5=17, 5-6=16, 6-12=13, 12-13=-31, 2-38=23
- 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=-45, 2-5=-51, 6-11=-47, 11-12=-82, 13-38=-18, 2-39=-31
Horz: 1-2=-11, 2-5=17, 5-6=38, 6-12=13, 12-13=23, 2-38=31
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-5=-7, 6-11=5, 11-12=30, 13-38=-11, 2-39=-18
Horz: 1-2=-28, 2-5=-13, 5-6=12, 6-12=-25, 12-13=23, 2-38=18
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-5=6, 6-11=23, 11-12=-12, 13-38=-11, 2-39=23
Horz: 1-2=21, 2-5=27, 5-6=29, 6-12=44, 12-13=-18, 2-38=-23
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-5=-34, 6-11=-22, 11-12=-57, 13-38=-18, 2-39=-31
Horz: 1-2=-7, 2-5=-0, 5-6=37, 6-12=-12, 12-13=11, 2-38=31
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-5=-20, 6-11=-3, 11-12=-38, 13-38=-18, 2-39=11
Horz: 1-2=-21, 2-5=-14, 5-6=-4, 6-12=-31, 12-13=-31, 2-38=-11
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-5=23, 6-11=5, 11-12=30, 13-38=-11, 2-39=-15
Horz: 1-2=-38, 2-5=-44, 5-6=50, 6-12=25, 12-13=21, 2-38=15
- 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, 2-5=5, 6-11=23, 11-12=-12, 13-38=-11, 2-39=21
Horz: 1-2=-19, 2-5=-25, 5-6=-31, 6-12=-44, 12-13=-15, 2-38=-21

Standard Except:

- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=10, 6-11=-1, 11-12=-36, 13-38=-11, 2-39=-8
Horz: 1-2=-24, 2-5=-31, 5-6=-37, 6-12=-19, 12-13=16, 2-38=8
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-5=-1, 6-11=10, 11-12=-25, 13-38=-11, 2-39=16
Horz: 1-2=-13, 2-5=-19, 5-6=-26, 6-12=-31, 12-13=-8, 2-38=16
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=-3, 6-11=-22, 11-12=-57, 13-38=-18, 2-39=-28
Horz: 1-2=-38, 2-5=-31, 5-6=-25, 6-12=-12, 12-13=9, 2-38=28
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-5=-22, 6-11=-3, 11-12=-38, 13-38=-18, 2-39=9
Horz: 1-2=-19, 2-5=-12, 5-6=-6, 6-12=-31, 12-13=-28, 2-38=9
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-38=-18
Horz: 1-2=-59, 2-5=-64, 6-11=-55, 11-12=-90, 13-38=-18, 2-39=23
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-59, 2-5=-64, 6-11=-55, 11-12=-90, 13-38=-18, 2-39=23
Horz: 1-2=-5, 2-5=-0, 5-6=28, 6-12=-9, 12-13=8, 2-38=23
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-5=-53, 6-11=-41, 11-12=-76, 13-38=-18, 2-39=8
Horz: 1-2=-15, 2-5=-11, 5-6=-3, 6-12=-23, 12-13=-23, 2-38=-8
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-5=-41, 6-11=-55, 11-12=-90, 13-38=-18, 2-39=-21
Horz: 1-2=-28, 2-5=-23, 5-6=-19, 6-12=-9, 12-13=7, 2-38=21
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-50, 2-5=-55, 6-11=-41, 11-12=-76, 13-38=-18, 2-39=7
Horz: 1-2=-14, 2-5=-9, 5-6=-4, 6-12=-23, 12-13=-21, 2-38=7
- 23) Dead-Drags LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=103, 6-7=-14, 7-11=-25, 11-12=-60, 13-38=-18
Horz: 2-5=549, 6-7=3791, 7-8=8780, 8-9=8780, 9-94=8780, 9-10=8780, 10-95=8780, 95-96=8780, 12-96=8780
Drag: 5-6=274, 13-38=274
- 24) Dead-Drags LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-171, 6-7=-54, 7-11=-43, 11-12=-78, 13-38=-18
Horz: 2-5=549, 6-7=3791, 7-8=8780, 8-94=8780, 9-94=-8780, 9-10=8780, 10-95=8780, 95-96=-8780, 12-96=-8780
Drag: 5-6=274, 13-38=274
- 25) 0.6 Dead-Drags LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-20, 2-5=-117, 6-7=-1, 7-11=-12, 11-12=-33, 13-38=-11
Horz: 2-5=549, 6-7=3791, 7-8=8780, 8-94=8780, 9-94=8780, 9-10=8780, 10-95=8780, 95-96=8780, 12-96=8780
Drag: 5-6=274, 13-38=274
- 26) 0.6 Dead-Drags LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-20, 2-5=-158, 6-7=-40, 7-11=-29, 11-12=-50, 13-38=-11
Horz: 2-5=549, 6-7=3791, 7-8=8780, 8-94=-8780, 9-94=-8780, 9-10=8780, 10-95=8780, 95-96=-8780, 12-96=-8780
Drag: 5-6=274, 13-38=274
- 27) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-11=-34, 11-12=-69, 13-38=-18, 2-39=-38
Horz: 1-2=-88, 2-5=-88, 6-11=-88, 11-12=-109, 13-38=-18
- 28) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-11=-74, 11-12=-69, 13-38=-18, 2-39=-38
Horz: 1-2=-88, 2-5=-88, 6-11=-88, 11-12=-109, 13-38=-18
- 29) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-11=-34, 11-12=-69, 13-38=-18, 2-39=-38
Horz: 1-2=-88, 2-5=-88, 6-11=-88, 11-12=-109, 13-38=-18
- 30) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-11=-74, 11-12=-69, 13-38=-18, 2-39=-38
Horz: 1-2=-88, 2-5=-88, 6-11=-88, 11-12=-109, 13-38=-18
- 31) F1&F4 Anchor Check: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S)

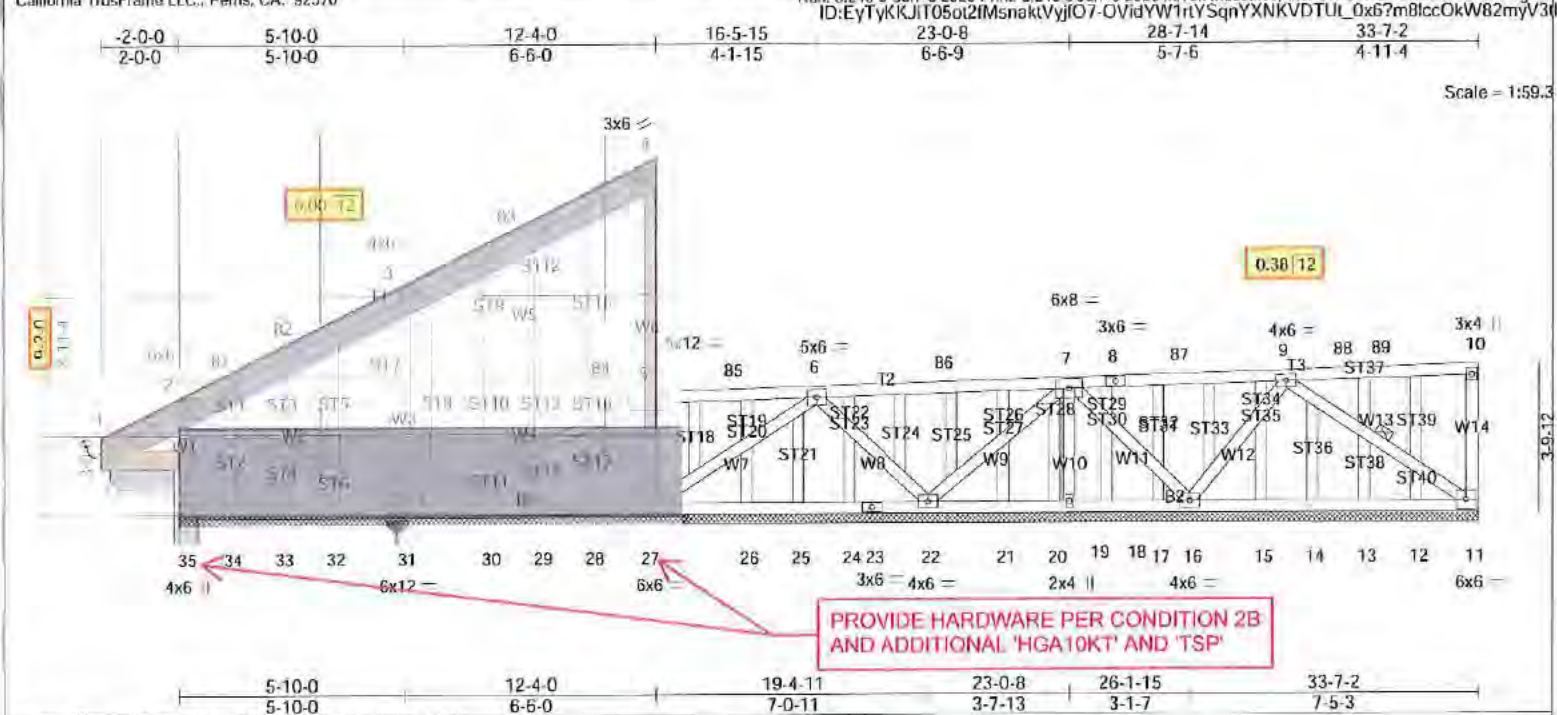
Standard Except:

- Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-5=-34(F), 6-11=-34(F), 11-12=-69(F=-34), 13-38=-18(F)
 Concentrated Loads (lb)
 Horz: 32=-1875(F), 6=5000(F)
- 32) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-5=-34(F), 6-11=-34(F), 11-12=-69(F=-34), 13-38=-18(F)
 Concentrated Loads (lb)
 Vert: 91=1050(F)
 Horz: 5=-300(F)
- 33) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-5=-34(F), 6-11=-34(F), 11-12=-69(F=-34), 13-38=-18(F)
 Concentrated Loads (lb)
 Vert: 91=1050(F)
 Horz: 5=-300(F)
- 34) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-38=-18
 Concentrated Loads (lb)
 Vert: 2=-306
- 35) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-38=-18
 Concentrated Loads (lb)
 Vert: 87=-306
- 36) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-38=-18
 Concentrated Loads (lb)
 Vert: 89=-306
- 37) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-38=-18
 Concentrated Loads (lb)
 Vert: 90=-306
- 38) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-38=-18
 Concentrated Loads (lb)
 Vert: 5=-306
- 39) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-38=-18
 Concentrated Loads (lb)
 Vert: 92=-306
- 40) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-38=-18
 Concentrated Loads (lb)
 Vert: 93=-306
- 41) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-38=-18
 Concentrated Loads (lb)
 Vert: 94=-306
- 42) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-38=-18
 Concentrated Loads (lb)
 Vert: 95=-306
- 43) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-38=-18
 Concentrated Loads (lb)
 Vert: 96=-306
- 44) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-38=-18
 Concentrated Loads (lb)
 Vert: 12=-306
- 45) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-38=-18
 Concentrated Loads (lb)
 Vert: 3=-306
- 46) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-38=-18
 Concentrated Loads (lb)
 Vert: 4=-306
- 47) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Standard

- Uniform Loads (plf)
 Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-38=-18
 Concentrated Loads (lb)
 Vert: 7=-306
- 48) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-38=-18
 Concentrated Loads (lb)
 Vert: 8=-306
- 49) 16th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-38=-18
 Concentrated Loads (lb)
 Vert: 10=-306
- 50) 17th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-5=-34, 6-11=-34, 11-12=-69, 13-38=-18
 Concentrated Loads (lb)
 Vert: 11=-306





LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TGCL	20.0	Plate Grip DOL	1.25	TC	0.92	in (loc)	l/defl	MT20		220/195	
TCDL	17.0	Lumber DOL	1.25	BC	0.34	Vert(LL)	1				
BCLL	0.0 *	Rep Stress Incr	YES	WB	1.00	Vert(CT)	0.04 1-2				
BCDL	9.0	Code IBC2015/TPI2014		Matrix-SH		Horz(CT)	0.04 11				
								Weight: 303 lb		FT = 20%	

LUMBER-
 TOP CHORD 2x4 DF No.1&Btr G *Except*
 T1: 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G *Except*
 W6: 2x6 DF No.2 G
 OTHERS 2x4 DF Stud/Std G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 3-1-0 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
 5-10-1 oc bracing: 32-33
 4-9-8 oc bracing: 31-32
 4-11-8 oc bracing: 30-31
 5-10-2 oc bracing: 26-27
 5-11-1 oc bracing: 21-22
 5-6-1 oc bracing: 11-12.
 WEBS
 1 Row at midpt 3-5, 5-31, 9-11, 2-31

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 33-7-2.
 (lb) - Max Horz
 35=3125(LC 31)
 Max Uplift
 All uplift 100 lb or less at joint(s) 19, 34, 29, 28
 except 27=1472(LC 25), 11=894(LC 26), 31=904(LC 25),
 22=130(LC 13), 16=117(LC 13), 35=2030(LC 25)
 Max Grav
 All reactions 250 lb or less at joint(s) 34, 33, 32, 30, 29,
 28, 26, 25, 24, 21, 20, 18, 17, 15, 14, 13, 12 except
 27=1875(LC 24), 11=1090(LC 23), 31=1283(LC 24), 22=713(LC
 31), 16=462(LC 46), 35=2331(LC 24), 19=338(LC 45)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 2-81=-2456/2362, 81-82=-1444/1558, 3-82=-598/731,
 3-83=-2257/2154, 4-83=-999/966, 5-27=-962/1106,
 5-84=-1967/1787, 4-84=-396/151, 5-85=-2103/842,
 6-85=-2097/1661, 6-86=-305/218, 7-86=-1186/1270,
 7-8=-1105/1169, 8-87=-226/294, 9-87=-599/672,
 9-88=-1502/1488, 88-89=-750/740, 10-89=-600/659,
 10-11=-374/49, 2-35=-2287/2001

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf;
 BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone
 and C-C Exterior(2) -2-0-0 to 1-4-6, Interior(1) 1-4-6 to 33-5-6 zone; cantilever left and
 right exposed ; end vertical left and right exposed ; end vertical left and right exposed ;
 MWFRS for reactions shown; Lumber DO
 3) Truss designed for wind loads in the p
 wind (normal to the face), see Standard
 consult qualified building designer as per
 4) Gable requires continuous bottom cho
 5) Gable studs spaced at 1-4-0 oc.
 6) This truss has been designed for a 10
 with any other live loads.
 7) * This truss has been designed for a liv
 areas where a rectangle 3-6-0 tall by 2-0
 any other members.
 8) A plate rating reduction of 20% has bee
 9) This truss is designed in accordance w
 section 2306.1 and referenced standard A

NOTES-

- 10) Load case(s) 31, 32, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 12) This truss has been designed for a total seismic drag load of 10500 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 33-7-2 for 312.6 plf.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 12-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
- 15) 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:
- 31) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-10=-34(F), 11-35=-18(F)
Concentrated Loads (lb)
Horz: 27=-1875(F), 5=5000(F)
- 32) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-10=-34(F), 11-35=-18(F)
Concentrated Loads (lb)
Vert: 84=1050(F)
Horz: 4=-300(F)
- 33) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-4=-34(F), 5-10=-34(F), 11-35=-18(F)
Concentrated Loads (lb)
Vert: 84=1050(F)
Horz: 4=300(F)



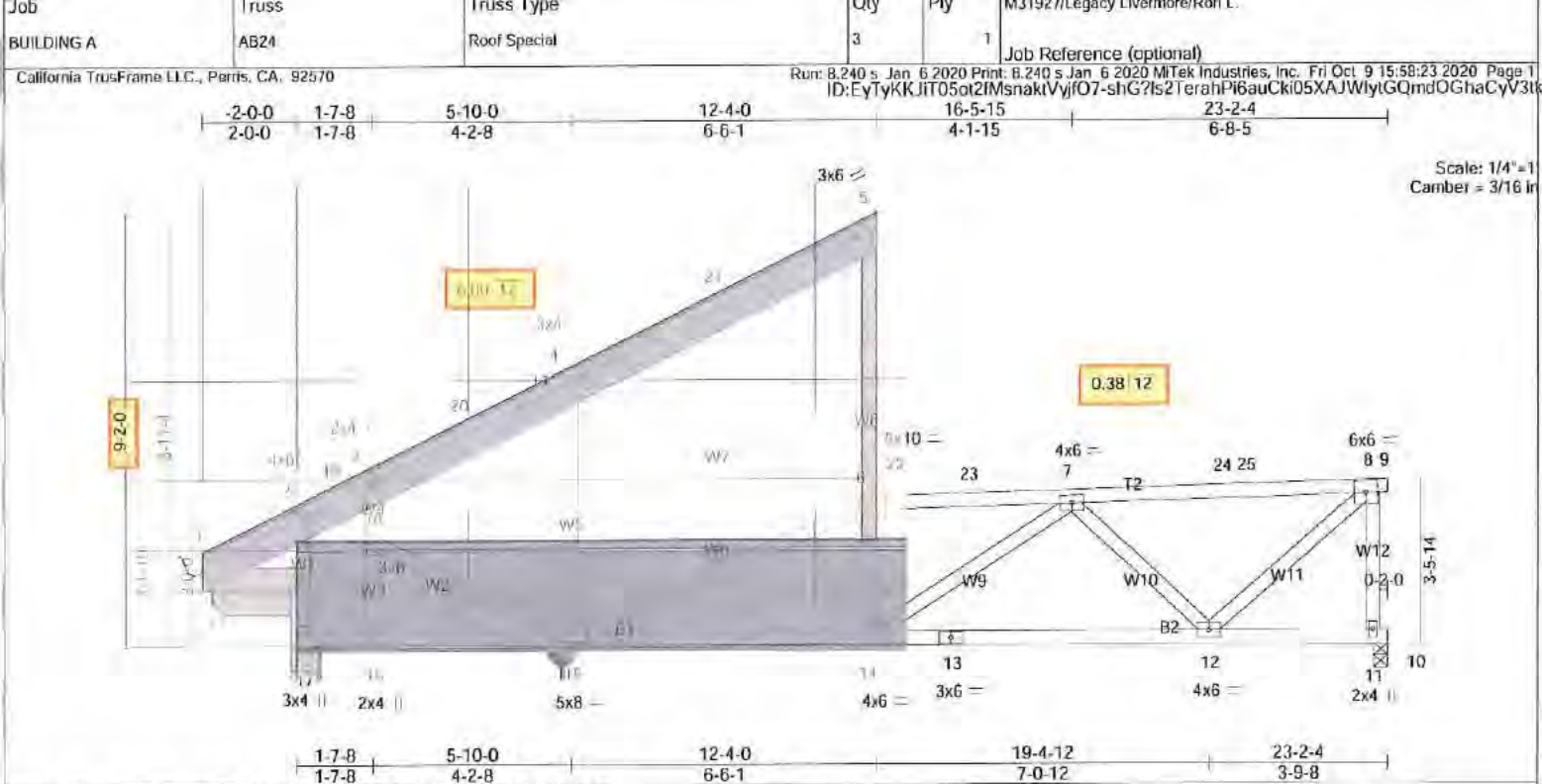


Plate Offsets (X,Y) - [2:0-2-15,0-2-0], [5:0-0-10,0-1-8], [6:0-8-0,0-3-4]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 1.00	Vert(LL)	0.17 14	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.54	Vert(CT)	0.29 12-14	>951	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.71	Horz(CT)	0.08 11	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MSH						

Weight: 149 lb FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G *Except*

T2: 2x4 DF No.1&Btr G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G *Except*

WB: 2x6 DF No.2 G, W9,W11: 2x4 DF No.2 G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 2-4-4 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 5-4-10 oc bracing.

WEBS

1 Row at midpt

6-15

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

11 = 1067/0-3-8 (min. 0-1-8)

17 = 1212/0-5-8 (min. 0-1-8)

Max Horz

17 = -3125(LC 27)

Max Uplift

11 = -197(LC 9)

Max Grav

11 = 1207(LC 27)

17 = 1212(LC 1)

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

TOP CHORD

2-19=-1005/132, 3-19=-976/153, 3-20=-954/170, 4-20=-843/217,

4-21=-384/325, 5-21=-331/371, 6-14=-824/725,

6-22=-388/1103, 5-22=-388/151, 6-23=-3603/1369,

7-23=-3596/1374, 7-24=-1237/204, 24-25=-1233/204,

8-25=-1233/207, 8-11=-1178/254, 2-17=-1157/182

BOT CHORD

16-17=-647/3119, 15-16=-647/3119, 14-15=-1357/2088,

13-14=-503/2203, 12-13=-503/2203

WEBS

4-15=-427/375, 4-6=-862/306, 6-15=-1374/1379, 2-18=-168/917,

15-18=-176/911, 7-14=-1046/1684, 7-12=-1394/429,

8-12=-303/1635

NOTES-

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

2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 23-2-4 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

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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

7) Load case(s) 27, 28, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

8) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 300 lb left and 300 lb right at 12-1-4 on top chord, and 1875 lb left at 12-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

10) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

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:

27) F1&F2 Anchor Check: Lumber Increase

Uniform Loads (plf)

Vert: 1-2=-34(F), 2-5=-34(F), 6-8=-34

Concentrated Loads (lb)

Horz: 14=-1875(F), 6=5000(F)

28) F3 Left&F4 Anchor Check: Lumber Increase

Uniform Loads (plf)

Vert: 1-2=-34(F), 2-5=-34(F), 6-8=-34

Concentrated Loads (lb)

Vert: 22=1050(F)

Horz: 5=-300(F)

29) F3 Right&F4 Anchor Check: Lumber Increase

Uniform Loads (plf)

Vert: 1-2=-34(F), 2-5=-34(F), 6-8=-34

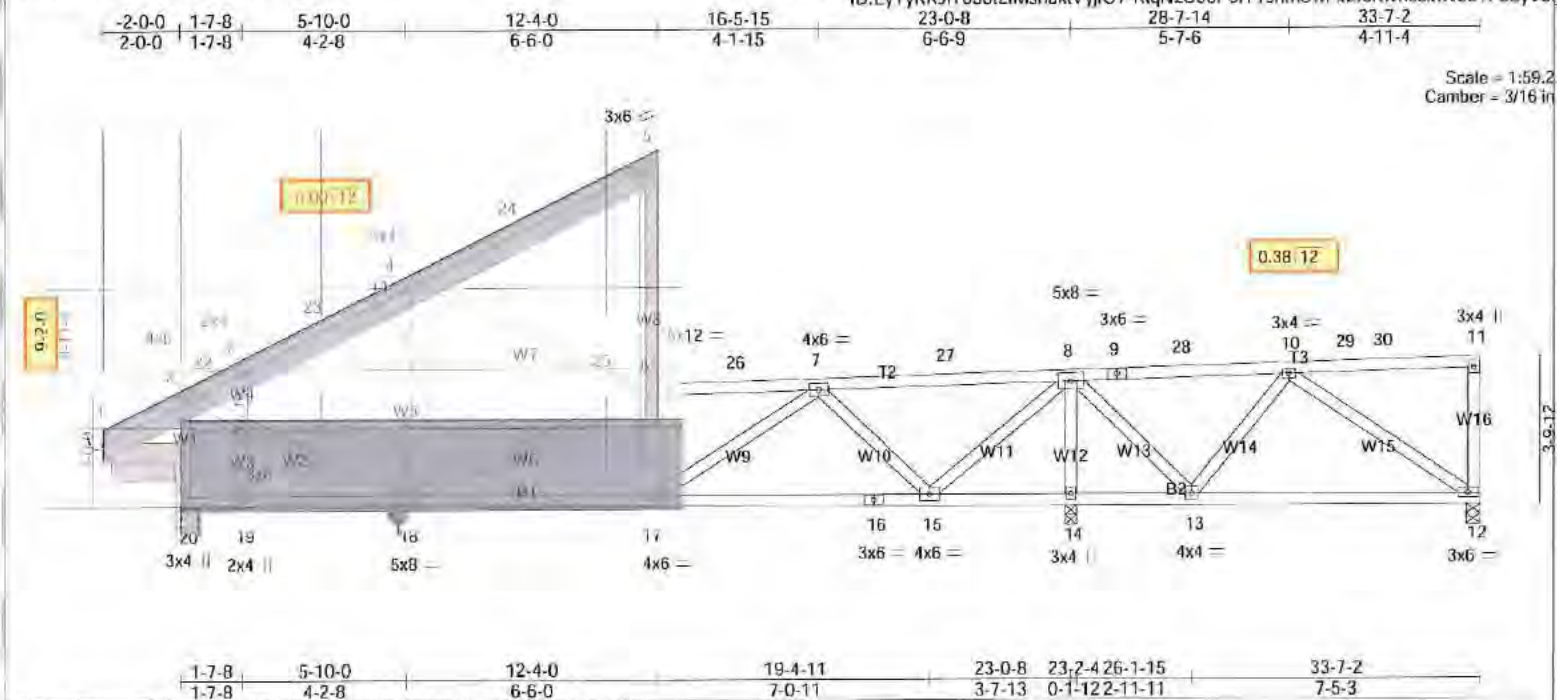
Concentrated Loads (lb)

Job	Truss	Truss Type	Qty	Ply	W3192//Legacy Overmold/Kon L.
BUILDING A	AB24	Roof Special	3	1	Job Reference (optional)

LOAD CASE(S)
 Standard Except:
 Concentrated Loads (lb)
 Vert: 22=1050(F)
 Horz: 5=300(F)



Scale = 1:59.2
Camber = 3/16 in



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.83	in (loc)	l/defl	MT20		220/195	
TCDL	17.0	Lumber DOL	1.25	BC	0.38	Vert(LL)	0.13 17				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.69	Vert(CT)	0.24 15-17				
BCDL	9.0	Code IBC2015/TPI2014		Matrix-MSH		Horz(CT)	0.06 14				
								Weight: 200 lb		FT = 20%	

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G *Except*
T1: 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G *Except*
WB: 2x6 DF No.2 G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 3-9-6 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 5-11-4 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)	
12	= 118/0-4-0 (min. 0-1-8)
20	= 1056/0-5-8 (min. 0-1-8)
14	= 2049/0-3-8 (min. 0-2-3)
Max Horz	
20	= -3125(LC 27)
Max Uplift	
12	= -19(LC 34)
20	= -33(LC 27)
14	= -341(LC 9)
Max Grav	
12	= 414(LC 28)
20	= 1056(LC 1)
14	= 2049(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-22=-827/234, 3-22=-803/254, 3-23=-777/268, 4-23=-665/315,
4-24=-386/319, 5-24=-334/370, 6-17=-898/768, 6-25=-391/1104,
5-25=-391/151, 6-26=-3177/1087, 7-26=-3170/1092,
7-27=-630/50, 8-27=-626/53, 8-9=-511/477, 9-28=-508/483,
10-28=-508/489, 11-12=-375/48, 2-20=-1003/169
BOT CHORD
19-20=-647/3119, 18-19=-647/3119, 17-18=-1083/1426,
16-17=-297/1664, 15-16=-297/1664, 14-15=-1082/497,
13-14=-1082/497, 12-13=-196/420
WEBS
4-18=-459/260, 4-6=-695/280, 6-18=-856/1723,
7-17=-1127/1821, 7-15=-1491/513, 8-15=-391/1783,
8-13=-102/858, 10-13=-628/194, 10-12=-494/258,
2-21=-252/742, 18-21=-263/734, 8-14=-2003/385

WEBS

4-18=-459/260, 4-6=-695/280, 6-18=-856/1723,
7-17=-1127/1821, 7-15=-1491/513, 8-15=-391/1783,
8-13=-102/858, 10-13=-628/194, 10-12=-494/258,
2-21=-252/742, 18-21=-263/734, 8-14=-2003/385

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-7-8, Interior(1) 1-7-8 to 33-5-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 7) Load case(s) 27, 28, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 8) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 12-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of the building designer.
- 10) This truss is designed for a creep deflection of 1/16" per inch of the span. The design/selection of the connection device(s) is the responsibility of the building designer.
- 11) In the LOAD CASE(S) section, loads are designated as front (F) or back (B).

LOAD CASE(S)

- Standard Except:
- 27) F1&F2 Anchor Check: Lumber live loads (plf)
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-11
Concentrated Loads (lb)
Horz: 17=-1875(F), 6=5000
 - 28) F3 Left&F4 Anchor Check: Lumber live loads (plf)

LOAD CASE(S)

Standard Except:

Uniform Loads (plf)

Vert: 1-2=-34(F), 2-5=-34(F), 6-11=-34(F), 12-20=-18(F)

Concentrated Loads (lb)

Vert: 25=1050

Horz: 5=-300(F)

29) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60

Uniform Loads (plf)

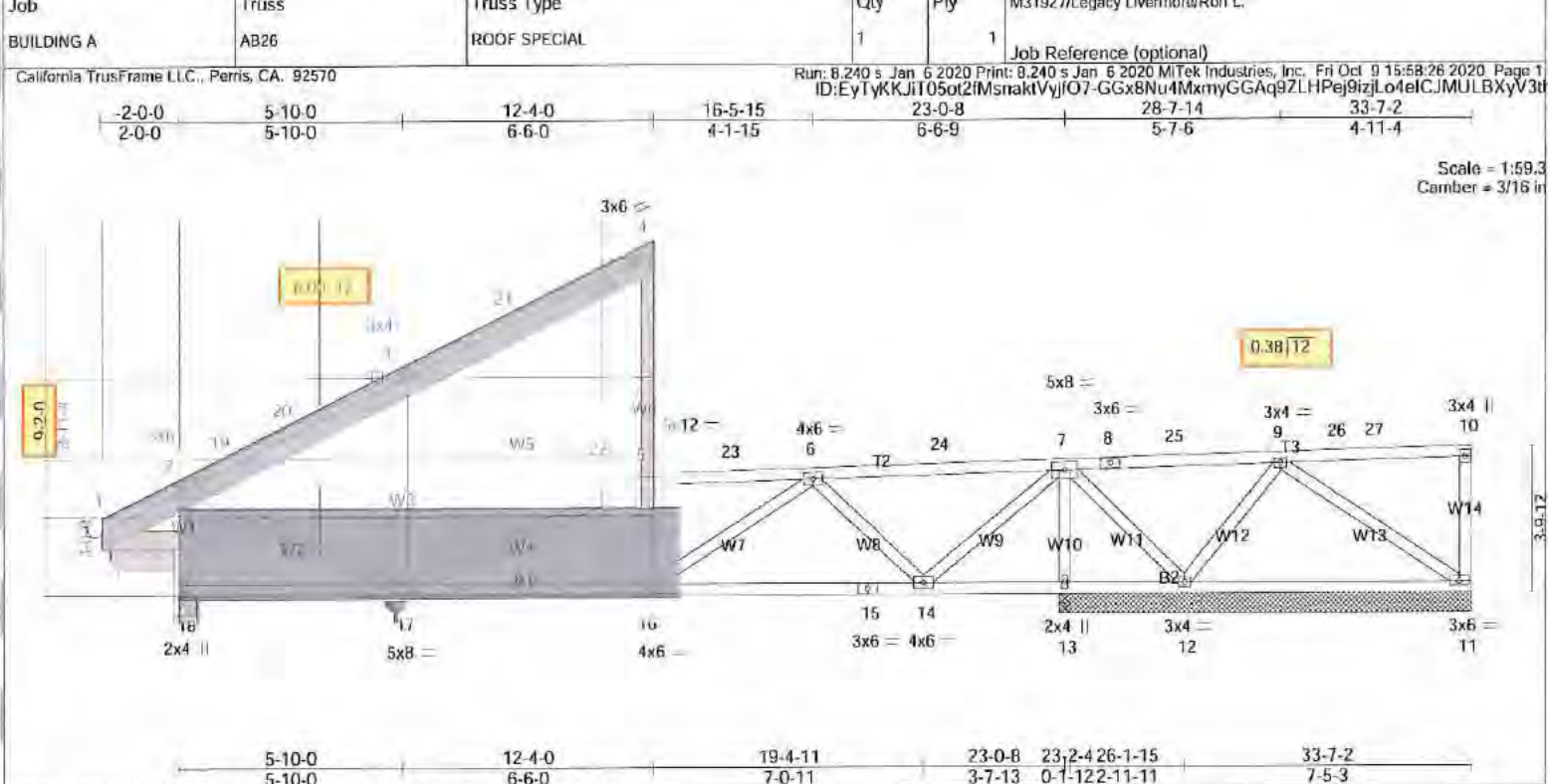
Vert: 1-2=-34(F), 2-5=-34(F), 6-11=-34(F), 12-20=-18(F)

Concentrated Loads (lb)

Vert: 25=1050

Horz: 5=300(F)





LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2:0-0	TC 0.85	in (loc) l/def L/d	MT20	220/195
TCDL 17.0	Plate Grip DOL 1.25	BC 0.40	Vert(LL) 0.13 16 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.70	Vert(CT) -0.24 14-16 >999 180		
BCDL 9.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.06 13 n/a n/a		
	Code IBC2015/TPI2014			Weight: 196 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G *Except*
T1: 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G *Except*
W6: 2x6 DF No.2 G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 2-8-10 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 10-8-6 except (it=length) 18=0-5-8.
(lb) - Max Horz
18=-3125(LC 27)
Max Uplift
All uplift 100 lb or less at joint(s) 11, 12, 18 except
13=-318(LC 28)
Max Grav
All reactions 250 lb or less at joint(s) except 11=301(LC 28), 12=522(LC 42), 18=1062(LC 1), 13=1705(LC 1), 13=1705(LC 1)

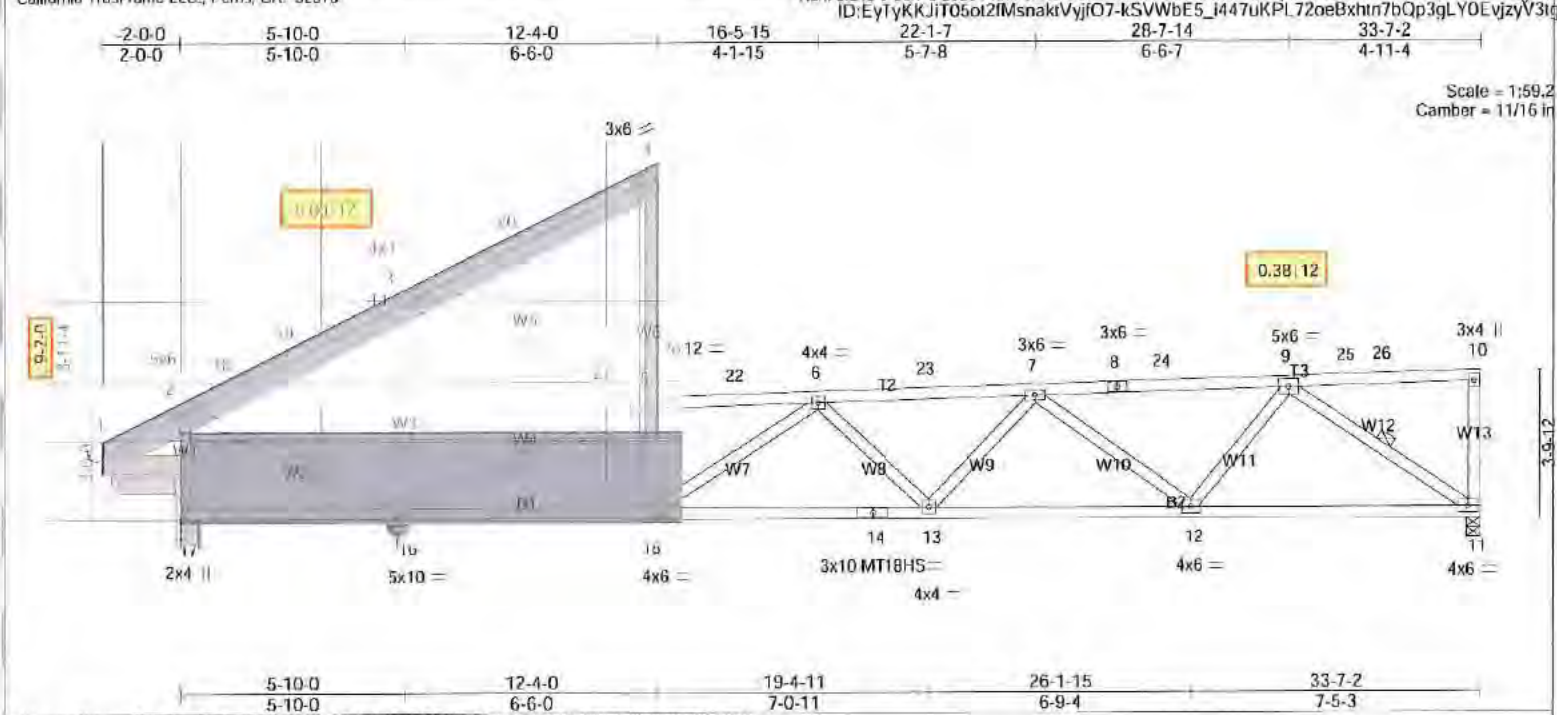
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-19=-845/231, 19-20=-757/261, 3-20=-675/309, 3-21=-386/91,
4-21=-334/143, 5-16=-896/771, 5-22=-391/1104, 4-22=-391/149,
5-23=-3199/1063, 6-23=-3192/1068, 6-24=-662/36,
7-24=-659/38, 7-8=-264/752, 8-25=-261/757, 9-25=-261/764,
10-11=-374/48, 2-18=-1018/169
BOT CHORD
17-18=-649/3122, 16-17=-1060/1453, 15-16=-297/1692,
14-15=-297/1692, 13-14=-1041/535, 12-13=-1041/535,
11-12=-287/263
WEBS
3-17=-454/273, 3-5=-703/279, 5-17=-866/1707,
6-16=-1135/1813, 6-14=-1485/520, 7-14=-393/1781,
7-12=-392/407, 9-12=-794/195, 9-11=-302/373, 2-17=-257/743,
7-13=-1666/384

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

Job	Truss	Truss Type	Qty	Qty	MS15277 Legacy Elevation/Ref L.
BUILDING A	AB26	ROOF SPECIAL	1	1	Job Reference (optional)

LOAD CASE(S)
 Standard Except:
 Concentrated Loads (lb)
 Vert: 22=1050(F)
 Horz: 4=-300(F)





LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.84	in (loc) l/def l/d	MT20	220/195
TCDL 17.0	Plate Grip DOL 1.25	BC 0.82	Vert(LL) 0.38 13-15 >999 240	MT18HS	220/195
BCLL 0.0 *	Lumber DOL 1.25	WB 0.82	Vert(CT) -0.94 13-15 >425 180		
BCDL 9.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.24 11 n/a n/a		
	Code IBC2015/TPI2014			Weight: 192 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 DF No.1&Btr G *Except*
 T1: 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G *Except*
 W6: 2x6 DF No.2 G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 2-8-1 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS
 1 Row at midpt 3-5, 5-16, 9-11
 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
 11 = 1527/0-4-0 (min. 0-1-10)
 17 = 1696/0-5-8 (min. 0-1-13)
 Max Horz
 17 = -3125(LC 27)
 Max Uplift
 11 = -243(LC 9)
 17 = -23(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 2-18=-1566/74, 18-19=-1478/80, 3-19=-1397/121,
 3-20=-386/314, 4-20=-333/365, 5-15=-493/756, 5-21=-382/1103,
 4-21=-382/148, 5-22=-5634/1097, 6-22=-5631/1102,
 6-23=-4156/694, 7-23=-4153/696, 7-8=-2625/361,
 8-24=-2618/362, 9-24=-2618/364, 10-11=-371/46,
 2-17=-1654/224
 BOT CHORD
 16-17=-650/3123, 15-16=-1095/4150, 14-15=-948/4731,
 13-14=-948/4731, 12-13=-690/3661, 11-12=-363/1912
 WEBS
 3-16=-367/739, 3-5=-1384/376, 5-16=-3085/1024,
 6-15=-1109/1079, 6-13=-833/542, 7-13=-357/953,
 7-12=-1428/322, 9-12=-143/1262, 9-11=-2308/408,
 2-16=-21/1459

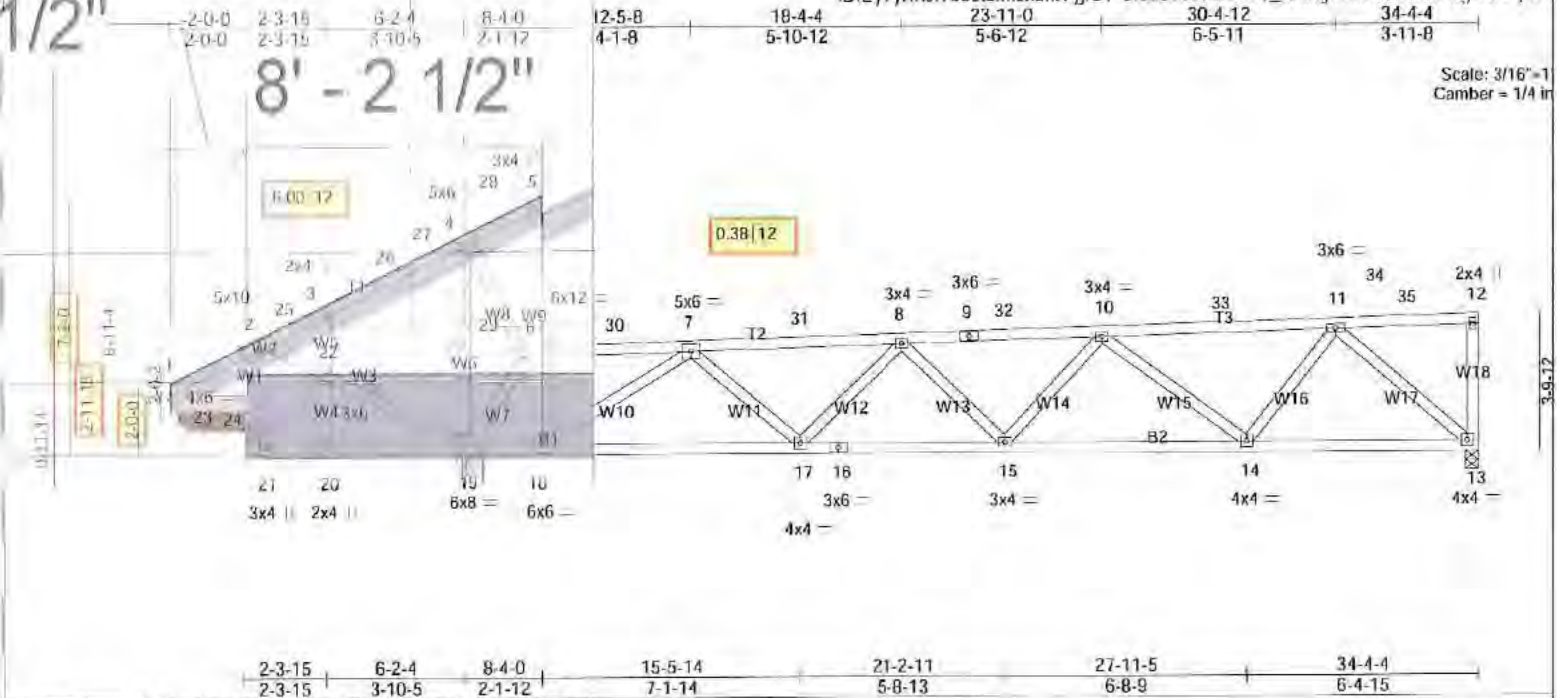
NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCCL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-4-6, Interior(1) 1-4-6 to 33-5-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) All plates are MT20 plates unless otherwise indicated.
 4) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 6) A plate rating reduction of 20% has been applied for the green lumber members.
 7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 8) Load case(s) 27, 28, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 9) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 12-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 11) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
 12) 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:
 27) F1&F2 Anchor Check: Lumber Incre.
 Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-4=-34(F), 5-10=-34(F)
 Concentrated Loads (lb)
 Horz: 15=-1875(F), 5=5000(F)
 28) F3 Left&F4 Anchor Check: Lumber Incre.
 Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-4=-34(F), 5-10=-34(F)
 Concentrated Loads (lb)
 Vert: 21=1050(F)
 Horz: 4=-300(F)
 29) F3 Right&F4 Anchor Check: Lumber Incre.
 Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-4=-34(F), 5-10=-34(F)
 Concentrated Loads (lb)

Job	Truss	Truss Type	Qty	Ply	M31927/ Legacy Livermore/ Ron L.
BUILDING A	AB27	ROOF SPECIAL	3	1	Job Reference (optional)

LOAD CASE(S)
 Standard Except:
 Concentrated Loads (lb)
 Vert: 21=1050(F)
 Horz: 4=300(F)





LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.68	in (loc) l/defl l/d	MT20	220/195
TCDL 17.0	Plate Grip DOL 1.25	BC 0.51	Vert(LL) -0.10 15-17 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.97	Vert(CT) -0.33 14-15 >999 180		
BCDL 9.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.11 13 n/a n/a		
	Code IBC2015/TPI2014			Weight: 199 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 DF No.1&Btr G *Except*
 T1: 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G *Except*
 W9,W1: 2x6 DF No.2 G, W2: 2x4 DF No.2 G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 3-11-2 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS
 1 Row at midpt 2-19, 4-19

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)	
13 =	1124/0-4-0 (min. 0-1-8)
19 =	2475/0-5-8 (min. 0-2-10)
24 =	-314/0-5-8 (min. 0-1-8)
Max Horz	
19 =	-3125(LC 27)
Max Uplift	
13 =	-169(LC 9)
19 =	-404(LC 9)
24 =	-1277(LC 27)
Max Grav	
13 =	1124(LC 1)
19 =	2475(LC 1)
24 =	303(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 2-25=-311/1679, 3-25=-303/1700, 3-26=-273/1718,
 26-27=-256/1725, 4-27=-252/1754, 4-28=-339/327,
 5-28=-313/353, 6-18=-101/1149, 6-29=-307/1189,
 5-29=-307/139, 6-30=-2079/725, 7-30=-2075/728,
 7-31=-2568/228, 8-31=-2565/229, 8-9=-2307/290,
 9-32=-2304/292, 10-32=-2302/293, 10-33=-1560/176,
 11-33=-1552/178, 12-13=-348/32
 BOT CHORD
 18-19=-729/292, 17-18=-286/2485, 16-17=-405/2522,
 15-16=-405/2522, 14-15=-389/2150, 13-14=-219/1116
 WEBS
 2-22=-1535/327, 19-22=-1552/330, 4-19=-3219/289,

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCCL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-5-7, Interior(1) 1-5-7 to 34-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 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) Bearing at joint(s) 24 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 8) Load case(s) 27, 28, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 9) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 10) This truss has large uplift reaction(s) required to secure truss against upward movement. Building designer must provide for uplift reactions indicated.
 11) Hanger(s) or other connection device(s) required to resist concentrated load(s) 1875 lb left at 8-1-4. Building designer must verify capacity of such connection device(s) is the response.
 12) This truss is designed for a creep factor of 1.0. Building designer must verify the Vert(CT) deflection per ANSI/TPI 1.
 13) In the LOAD CASE(S) section, loads are indicated as front (F) or back (B).

LOAD CASE(S)
 Standard Except:
 27) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60

Job	Truss	Truss Type	Qty	Qty	1/31/92/7/ Legacy Livermore/Kon L.
BUILDING A	AB2B	ROOF SPECIAL	5	1	Job Reference (optional)

California TrussFrame LLC., Perris, CA. 92570

Run: 8.240 s Jan 6 2020 Print: 8.240 s Jan 6 2020 MiTek Industries, Inc. Fri Oct 9 15:58:28 2020 Page 2
ID: EyTyKKJiT05ot2fMsnaktVylfO7-Cf3uoa6cTOCzVT_XhIKtj8E53X7SYTaVngzSFPyV3t

LOAD CASE(S)

Standard Except:

Uniform Loads (plf)

Vert: 1-2=-34(F), 2-5=-34(F), 6-12=-34(F), 13-21=-18(F)

Concentrated Loads (lb)

Horz: 18=-1875(F), 6=5000(F)

28) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-34(F), 2-5=-34(F), 6-12=-34(F), 13-21=-18(F)

Concentrated Loads (lb)

Vert: 29=1050(F)

Horz: 5=-300(F)

29) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60

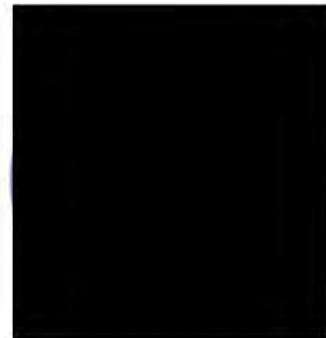
Uniform Loads (plf)

Vert: 1-2=-34(F), 2-5=-34(F), 6-12=-34(F), 13-21=-18(F)

Concentrated Loads (lb)

Vert: 29=1050(F)

Horz: 5=300(F)



NOTES-

- 10) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) This truss has been designed for a total seismic drag load of 9900 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 35-0-3 for 282.7 plf.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 12-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
- 14) 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:
- 31) F1&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-11=-34(F), 12-34=-18(F)
Concentrated Loads (lb)
Horz: 26=-1875(F), 6=-5000(F)
- 32) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-11=-34(F), 12-34=-18(F)
Concentrated Loads (lb)
Vert: 85=1050(F)
Horz: 5=-300(F)
- 33) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-11=-34(F), 12-34=-18(F)
Concentrated Loads (lb)
Vert: 85=1050(F)
Horz: 5=300(F)



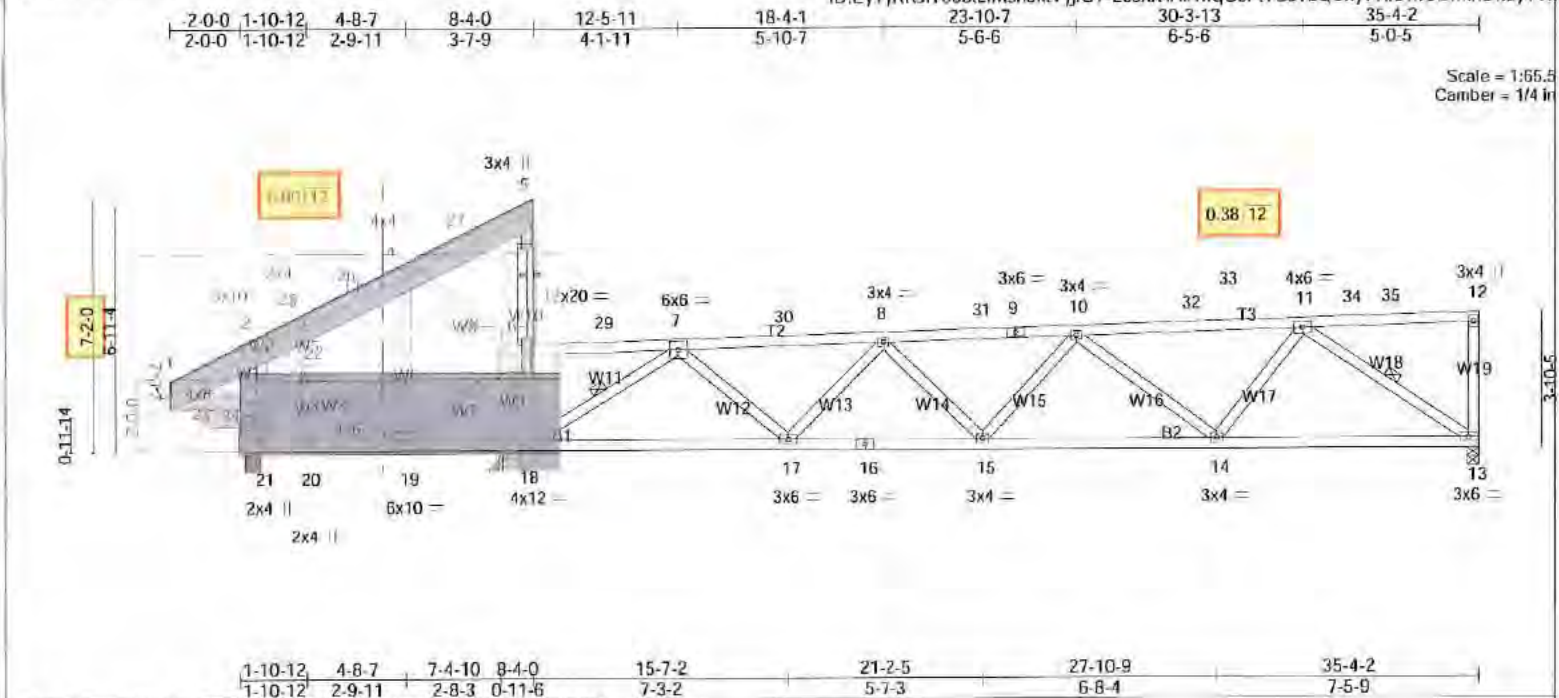


Plate Offsets (X,Y)-- [2:0-4-9,0-3-0], [6:1-1-4,0-4-0], [18:0-4-12,0-2-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	0.09	15	>999	240	MT20	220/195
TCDL	17.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.32	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.10	13	n/a	n/a		
BCDL	9.0	Code IBC2015/TPI2014		Matrix-MSH							Weight: 204 lb	FT = 20%

LUMBER- TOP CHORD 2x4 DF No.1&Btr G *Except* T1: 2x4 DF No.2 G BOT CHORD 2x4 DF No.2 G WEBS 2x4 DF Stud/Std G *Except* W10,W1: 2x6 DF No.2 G, W2: 2x4 DF No.2 G	
BRACING- TOP CHORD Structural wood sheathing directly applied or 3-10-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 3-1-11 oc bracing. WEBS 1 Row at midpt 7-18, 11-13	
MiTek recommends that Stabilizers and required cross bracing be installed during erecton, in accordance with Stabilizer Installation guide.	

REACTIONS. (lb/size)	
18	= 2277/0-5-8 (min. 0-2-7)
13	= 1259/0-4-0 (min. 0-1-8)
24	= 21/0-5-8 (min. 0-1-8)
Max Horz	
18	= -3125(LC 27)
Max Uplift	
18	= -322(LC 9)
13	= -5(LC 9)
24	= -1004(LC 27)
Max Grav	
18	= 2277(LC 1)
13	= 1259(LC 1)
24	= 271(LC 30)

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

TOP CHORD

2-25=-181/1147, 3-25=-171/1164, 3-26=-163/1190,
4-26=-140/1219, 4-27=-347/345, 5-27=-318/371,
6-18=-1559/821, 6-28=-360/1143, 5-28=-360/95,
6-29=-1061/1550, 7-29=-1052/1563, 7-30=-1962/164,
8-30=-1959/166, 8-31=-2082/220, 9-31=-2076/221,
9-10=-2071/223, 10-32=-1762/91, 32-33=-1755/93,
11-33=-1747/93, 12-13=-453/0

BOT CHORD

18-19=-3837/406, 17-18=-228/1687, 16-17=-336/2078,
15-16=-336/2078, 14-15=-318/2159, 13-14=-132/1425

WEBS

2-22=-1118/204, 19-22=-1142/206, 4-19=-1366/61,

Continued on page 2

WEBS

2-22=-1118/204, 19-22=-1142/206, 4-19=-1366/61,
4-6=-17/1234, 6-19=-243/3460, 7-18=-2394/302.
7-17=-32/1129, 8-17=-879/126, 8-15=-89/385,
10-14=-549/201, 11-14=-49/592, 11-13=-1702/135,
2-24=-272/1022

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf;
BCDL=5.4psf; H=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone
and C-C Exterior(2) -2-0-0 to 1-6-9, Interior(1) 1-6-9 to 35-2-6 zone; cantilever left and
right exposed ; end vertical left and right exposed;C-C for members and forces &
MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) Bearing at joint(s) 24 considers parallel to grain value using ANSI/TPI 1 angle to
grain formula. Building designer should verify capacity of bearing surface.
- 7) This truss is designed in accordance with the 2015 International Building Code
section 2306.1 and referenced standard ANSI/TPI 1.
- 8) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22,
23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45,
46 has/have been modified. Building designer must review loads to verify that they are
correct for the intended use of this truss.
- 9) This truss has been designed for a moving concentrated load of 300.0lb live and
6.0lb dead located at all mid panels and a [REDACTED] rd,
nonconcurrent with any other live loads.
- 10) Hanger(s) or other connection device(s) supporting the [REDACTED] port
concentrated load(s) 1875 lb left at 8-1-4 [REDACTED] ion of
such connection device(s) is the responsibility of the [REDACTED]
- 11) This truss is designed for a creep factor of 1.0. The [REDACTED] the
Vert(CT) deflection per ANSI/TPI 1.
- 12) In the LOAD CASE(S) section, loads shall be indicated as
front (F) or back (B).

LOAD CASE(S)
Standard Except:
1) Dead + Roof Live (balanced): Lumber
Uniform Loads (plf)

LOAD CASE(S)

Standard Except:

- Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-33=-74, 12-33=-109, 13-21=-18
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-33=-64, 12-33=-99, 13-21=-18
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-33=-34, 12-33=-69, 13-21=-38
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=-57, 2-25=-28, 5-25=-14, 6-33=-18, 12-33=-17, 13-21=-11
Horz: 1-2=-77, 2-25=-48, 5-25=-34, 5-6=-12, 6-12=-38, 12-13=-35, 21-23=19
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=8, 2-4=-14, 4-5=-28, 6-33=-18, 33-34=-17, 12-34=-10, 13-21=-11
Horz: 1-2=-28, 2-4=-34, 4-5=-48, 5-6=-41, 6-34=-38, 12-34=-45, 12-13=-19, 21-23=-35
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=-23, 2-5=-51, 6-33=-47, 12-33=-82, 13-21=-18
Horz: 1-2=-11, 2-5=-17, 5-6=-16, 6-12=-13, 12-13=-31, 21-23=-22
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=-45, 2-5=-51, 6-33=-47, 12-33=-82, 13-21=-18
Horz: 1-2=-11, 2-5=-17, 5-6=-38, 6-12=-13, 12-13=-22, 21-23=-31
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-5=-7, 6-33=-5, 12-33=-30, 13-21=-11
Horz: 1-2=-28, 2-5=-13, 5-6=-12, 6-12=-25, 12-13=-23, 21-23=18
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-5=6, 6-33=23, 12-33=-12, 13-21=-11
Horz: 1-2=-21, 2-5=-27, 5-6=-29, 6-12=-44, 12-13=-18, 21-23=-23
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-5=-34, 6-33=-22, 12-33=-57, 13-21=-18
Horz: 1-2=-7, 2-5=-0, 5-6=-37, 6-12=-12, 12-13=-11, 21-23=-31
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-5=-20, 6-33=-3, 12-33=-38, 13-21=-18
Horz: 1-2=-21, 2-5=-14, 5-6=-4, 6-12=-31, 12-13=-31, 21-23=-11
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-5=23, 6-33=5, 12-33=-30, 13-21=-11
Horz: 1-2=-38, 2-5=-44, 5-6=-50, 6-12=-25, 12-13=21, 21-23=15
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, 2-5=5, 6-33=23, 12-33=-12, 13-21=-11
Horz: 1-2=-19, 2-5=-25, 5-6=-31, 6-12=-44, 12-13=-15, 21-23=-21
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=10, 6-33=-1, 12-33=-36, 13-21=-11
Horz: 1-2=-24, 2-5=-31, 5-6=-37, 6-12=-19, 12-13=16, 21-23=8
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-5=-1, 6-33=10, 12-33=-25, 13-21=-11
Horz: 1-2=-13, 2-5=-19, 5-6=-26, 6-12=-31, 12-13=-8, 21-23=-16
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=-3, 6-33=-22, 12-33=-57, 13-21=-18
Horz: 1-2=-38, 2-5=-31, 5-6=-25, 6-12=-12, 12-13=9, 21-23=28
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-5=-22, 6-33=-3, 12-33=-38, 13-21=-18
Horz: 1-2=-19, 2-5=-12, 5-6=-6, 6-12=-31, 12-13=-28, 21-23=-9
18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-33=-34, 12-33=-69, 13-21=-18

Continued on page 3

Standard Except:

- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-59, 2-5=-64, 6-33=-55, 12-33=-90, 13-21=-18
Horz: 1-2=-5, 2-5=-0, 5-6=-28, 6-12=-9, 12-13=8, 21-23=23
20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-5=-53, 6-33=-41, 12-33=-76, 13-21=-18
Horz: 1-2=-15, 2-5=-11, 5-6=-3, 6-12=-23, 12-13=-23, 21-23=-8
21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-5=-41, 6-33=-55, 12-33=-90, 13-21=-18
Horz: 1-2=-28, 2-5=-23, 5-6=-19, 6-12=-9, 12-13=7, 21-23=21
22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-50, 2-5=-55, 6-33=-41, 12-33=-76, 13-21=-18
Horz: 1-2=-14, 2-5=-9, 5-6=-4, 6-12=-23, 12-13=-21, 21-23=-7
23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-33=-34, 12-33=-69, 13-21=-18
24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-33=-74, 12-33=-109, 13-21=-18
25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-33=-34, 12-33=-69, 13-21=-18
26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-33=-64, 12-33=-99, 13-21=-18
27) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-33=-34(F), 12-33=-69(F=-34), 13-21=-18(F)
Concentrated Loads (lb)
Horz: 18=-1875(F), 6=5000(F)
28) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-33=-34(F), 12-33=-69(F=-34), 13-21=-18(F)
Concentrated Loads (lb)
Vert: 28=1050(F)
Horz: 5=-300(F)
29) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-33=-34(F), 12-33=-69(F=-34), 13-21=-18(F)
Concentrated Loads (lb)
Vert: 28=1050(F)
Horz: 5=-300(F)
30) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-33=-34, 12-33=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 2=-306
31) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-33=-34, 12-33=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 25=-306
32) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-33=-34, 12-33=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 26=-306
33) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-33=-34, 12-33=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 27=-306
34) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-33=-34, 12-33=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 5=-306
35) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-33=-34, 12-33=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 29=-306
36) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Job	Truss	Truss Type	Qty	Ply	m3192//Legacy Livermore/Kon L.
BUILDING A	AB30	ROOF SPECIAL	5	1	Job Reference (optional)

California TrusFrame LLC., Perris, CA. 92570

Run: 8.240 s Jan 6 2020 Print: 8.240 s Jan 6 2020 MITek Industries, Inc. Fri Oct 9 15:58:33 2020 Page 3
ID: EyTyKKJIT05ot2fMsnaktVyljO7-ZcsnrHAHwqGcFtVUJv2QCxyvYirDmGEwxhDxdyV3ta

LOAD CASE(S)

Standard

- Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-33=-34, 12-33=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 30=-306
- 37) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-33=-34, 12-33=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 31=-306
- 38) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-33=-34, 12-33=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 32=-306
- 39) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-33=-34, 12-33=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 35=-306
- 40) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-33=-34, 12-33=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 12=-306
- 41) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-33=-34, 12-33=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 3=-306
- 42) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-33=-34, 12-33=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 4=-306
- 43) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-33=-34, 12-33=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 7=-306
- 44) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-33=-34, 12-33=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 8=-306
- 45) 16th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-33=-34, 12-33=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 10=-306
- 46) 17th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-33=-34, 12-33=-69, 13-21=-18
Concentrated Loads (lb)
Vert: 11=-306

NOTES-

- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 8'-1-4" on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
- 15) 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=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-100=-74, 14-100=-109, 16-26=-18, 14-15=-109
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-100=-64, 14-100=-99, 16-26=-18, 14-15=-99
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-34, 14-100=-69, 16-26=-38, 14-15=-69
- 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=57, 2-3=28, 3-5=14, 6-100=18, 14-100=-17, 17-26=-11, 16-17=28, 14-15=-17
Horz: 1-2=-77, 2-3=-48, 3-5=-34, 5-6=12, 6-14=-38, 15-16=34, 26-88=18, 14-15=38
- 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=8, 2-92=14, 5-92=28, 6-100=18, 14-100=-17, 17-26=-11, 16-17=28, 14-15=10
Horz: 1-2=-28, 2-92=-34, 5-92=-48, 5-6=41, 6-14=-38, 15-16=18, 26-88=-34, 14-15=45
- 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=-23, 2-5=-51, 6-100=-47, 14-100=-82, 17-26=-18, 16-17=-11, 14-15=-82
Horz: 1-2=-11, 2-5=17, 5-6=-15, 6-14=13, 15-16=31, 26-88=-22, 14-15=-13
- 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=-45, 2-5=-51, 6-100=-47, 14-100=-82, 17-26=-18, 16-17=-11, 14-15=-87
Horz: 1-2=11, 2-5=17, 5-6=37, 6-14=13, 15-16=22, 26-88=31, 14-15=-13
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-5=7, 6-100=5, 14-100=30, 16-26=11, 14-15=30
Horz: 1-2=-28, 2-5=-13, 5-6=12, 6-14=-25, 15-16=23, 26-88=18, 14-15=25
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-5=6, 6-100=23, 14-100=-12, 17-26=-11, 16-17=10, 14-15=12
Horz: 1-2=-21, 2-5=-27, 5-6=-29, 6-14=-44, 15-16=-18, 26-88=-23, 14-15=44
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-5=-34, 6-100=-22, 14-100=-57, 16-26=-18, 14-15=-57
Horz: 1-2=-7, 2-5=0, 5-6=37, 6-14=-12, 15-16=11, 26-88=31, 14-15=12
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-5=-20, 6-100=-3, 14-100=-38, 17-26=-18, 16-17=3, 14-15=-38
Horz: 1-2=-21, 2-5=-14, 5-6=-4, 6-14=-31, 15-16=-31, 26-88=-11, 14-15=31
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-5=23, 6-100=5, 14-100=30, 16-26=11, 14-15=30
Horz: 1-2=38, 2-5=44, 5-6=50, 6-14=25, 15-16=21, 26-88=15, 14-15=25
- 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, 2-5=5, 6-100=23, 14-100=-12, 16-26=-11, 14-15=12
Horz: 1-2=-19, 2-5=-25, 5-6=-31, 6-14=-44, 15-16=-15, 26-88=-21, 14-15=44
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=10, 6-100=-1, 14-100=-36, 16-26=-11, 14-15=36
Horz: 1-2=-24, 2-5=31, 5-6=-37, 6-14=-19, 15-16=16, 26-88=8, 14-15=19
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-5=-1, 6-100=10, 14-100=-25, 16-26=-11, 14-15=-25
Horz: 1-2=-13, 2-5=-19, 5-6=-26, 6-14=-31, 15-16=-8, 26-88=16, 14-15=31

Standard Except:

- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=-3, 6-100=-22, 14-100=-57, 16-26=-18, 14-15=-57
Horz: 1-2=-38, 2-5=-31, 5-6=-25, 6-14=-12, 15-16=9, 26-88=28, 14-15=12
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-5=-22, 6-100=-3, 14-100=-38, 16-26=-18, 14-15=-38
Horz: 1-2=-19, 2-5=-12, 5-6=-6, 6-14=-31, 15-16=-28, 26-88=-9, 14-15=31
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-34, 14-100=-69, 16-26=-18, 14-15=-69
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-59, 2-5=-64, 6-100=-55, 14-100=-90, 16-26=-18, 14-15=-90
Horz: 1-2=-5, 2-5=0, 5-6=28, 6-14=-9, 15-16=8, 26-88=-23, 14-15=9
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-5=-53, 6-100=-41, 14-100=-76, 17-26=-18, 16-17=-2, 14-15=-76
Horz: 1-2=-15, 2-5=-11, 5-6=-3, 6-14=-23, 15-16=-23, 26-88=-8, 14-15=23
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-5=-41, 6-100=-55, 14-100=-90, 16-26=-18, 14-15=-90
Horz: 1-2=-28, 2-5=-23, 5-6=-19, 6-14=-9, 15-16=7, 26-88=21, 14-15=9
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-50, 2-5=-55, 6-100=-41, 14-100=-76, 16-26=-18, 14-15=-76
Horz: 1-2=-14, 2-5=-9, 5-6=-4, 6-14=-23, 15-16=-21, 26-88=-7, 14-15=23
- 23) Dead-Drage LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=34, 2-5=129, 6-7=-11, 7-100=-24, 14-100=-59, 16-26=-18, 14-15=-79
Horz: 2-5=652, 6-7=4543, 7-96=10432, 8-96=10432, 8-10=10432, 10-98=10432, 11-98=10432, 11-99=10432, 99-100=10432, 12-100=10432, 12-101=10432, 101-102=10432, 14-102=10432, 14-105=10432, 15-105=10432
Drag: 5-6=326, 103-104=470
- 24) Dead-Drage LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-197, 6-7=-57, 7-100=-44, 14-100=-79, 16-26=-18, 14-15=-59
Horz: 2-5=-652, 6-7=-4543, 7-96=-10432, 8-96=-10432, 8-10=-10432, 10-98=-10432, 11-98=-10432, 11-99=-10432, 99-100=-10432, 12-100=-10432, 12-101=-10432, 101-102=-10432, 14-102=-10432, 14-105=-10432, 15-105=-10432
Drag: 5-6=326, 103-104=470
- 25) 0.6 Dead-Drage LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-20, 2-5=143, 6-7=3, 7-100=-10, 14-100=-31, 16-26=-11, 14-15=-52
Horz: 2-5=652, 6-7=4543, 7-96=10432, 8-96=10432, 8-10=10432, 10-98=10432, 11-98=10432, 11-99=10432, 99-100=10432, 12-100=10432, 12-101=10432, 101-102=10432, 14-102=10432, 14-105=10432, 15-105=10432
Drag: 5-6=326, 103-104=470
- 26) 0.6 Dead-Drage LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-20, 2-5=-183, 6-7=-44, 7-100=-31, 14-100=-52, 16-26=-11, 14-15=-31
Horz: 2-5=-652, 6-7=-4543, 7-96=-10432, 8-96=-10432, 8-10=-10432, 10-98=-10432, 11-98=-10432, 11-99=-10432, 99-100=-10432, 12-100=-10432, 12-101=-10432, 101-102=-10432, 14-102=-10432, 14-105=-10432, 15-105=-10432
Drag: 5-6=326, 103-104=470
- 27) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-5=-74, 6-100=-34, 14-100=-69, 16-26=-18, 14-15=-69
- 28) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-74, 14-100=-138, 16-26=-18, 14-15=-138
- 29) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-64, 2-5=-64, 6-100=-34, 14-100=-69, 16-26=-18, 14-15=-69
- 30) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-64, 14-100=-138, 16-26=-18, 14-15=-138
- 31) F1&F2 Anchor Check: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-100=-64(F), 14-15=-69(F), 16-26=-18(F), 14-15=-69(F)
- 32) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60

Continued on page 3

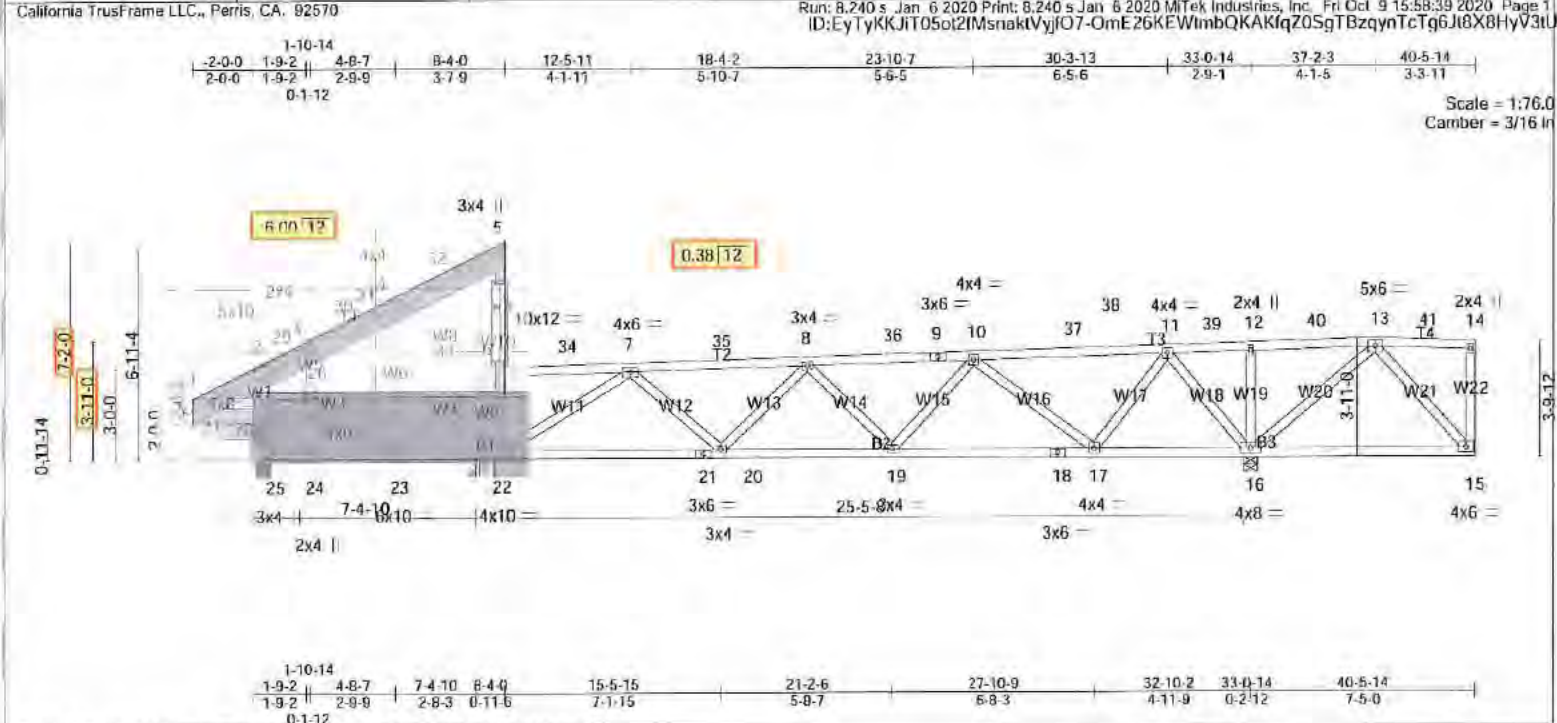
LOAD CASE(S)

Standard Except:

- Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-100=-34(F), 14-100=-69(F=-34), 17-26=-18(F), 14-15=-69(F=-34)
Concentrated Loads (lb)
Vert: 94=1050(F)
Horz: 5=300(F)
- 33) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-100=-34(F), 14-100=-69(F=-34), 17-26=-18(F), 14-15=-69(F=-34)
Concentrated Loads (lb)
Vert: 94=1050(F)
Horz: 5=300(F)
- 34) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-34, 14-100=-69, 16-26=-18, 14-15=-69
Concentrated Loads (lb)
Vert: 2=-306
- 35) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-34, 14-100=-69, 16-26=-18, 14-15=-69
Concentrated Loads (lb)
Vert: 90=-306
- 36) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-34, 14-100=-69, 16-26=-18, 14-15=-69
Concentrated Loads (lb)
Vert: 91=-306
- 37) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-34, 14-100=-69, 16-26=-18, 14-15=-69
Concentrated Loads (lb)
Vert: 93=-306
- 38) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-34, 14-100=-69, 16-26=-18, 14-15=-69
Concentrated Loads (lb)
Vert: 5=-306
- 39) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-34, 14-100=-69, 16-26=-18, 14-15=-69
Concentrated Loads (lb)
Vert: 95=-306
- 40) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-34, 14-100=-69, 16-26=-18, 14-15=-69
Concentrated Loads (lb)
Vert: 96=-306
- 41) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-34, 14-100=-69, 16-26=-18, 14-15=-69
Concentrated Loads (lb)
Vert: 97=-306
- 42) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-34, 14-100=-69, 16-26=-18, 14-15=-69
Concentrated Loads (lb)
Vert: 98=-306
- 43) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-34, 14-100=-69, 16-26=-18, 14-15=-69
Concentrated Loads (lb)
Vert: 99=-306
- 44) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-34, 14-100=-69, 16-26=-18, 14-15=-69
Concentrated Loads (lb)
Vert: 101=-306
- 45) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-34, 14-100=-69, 16-26=-18, 14-15=-69
Concentrated Loads (lb)
Vert: 102=-306
- 46) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-34, 14-100=-69, 16-26=-18, 14-15=-69
Concentrated Loads (lb)
Vert: 105=-306
- 47) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-34, 14-100=-69, 16-26=-18, 14-15=-69
Concentrated Loads (lb)

Standard

- Vert: 15=-306
- 48) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-34, 14-100=-69, 16-26=-18, 14-15=-69
Concentrated Loads (lb)
Vert: 3=-306
- 49) 16th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-34, 14-100=-69, 16-26=-18, 14-15=-69
Concentrated Loads (lb)
Vert: 4=-306
- 50) 17th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-34, 14-100=-69, 16-26=-18, 14-15=-69
Concentrated Loads (lb)
Vert: 7=-306
- 51) 18th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-34, 14-100=-69, 16-26=-18, 14-15=-69
Concentrated Loads (lb)
Vert: 8=-306
- 52) 19th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-34, 14-100=-69, 16-26=-18, 14-15=-69
Concentrated Loads (lb)
Vert: 10=-306
- 53) 20th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-34, 14-100=-69, 16-26=-18, 14-15=-69
Concentrated Loads (lb)
Vert: 11=-306
- 54) 21st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-34, 14-100=-69, 16-26=-18, 14-15=-69
Concentrated Loads (lb)
Vert: 12=-306
- 55) 22nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-34, 14-100=-69, 16-26=-18, 14-15=-69
Concentrated Loads (lb)
Vert: 13=-306
- 56) 23rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-34, 6-100=-34, 14-100=-69, 16-26=-18, 14-15=-69
Concentrated Loads (lb)
Vert: 14=-306



LOADING (psf)		SPACING-		CSL		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.71	Vert(LL)	-0.06 19-20	MT20		220/195	
TCDL	17.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.22 17-19				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.06 16				
BCDL	9.0	Code IBC2015/TPI2014		Matrix-MSH							
								Weight: 234 lb		FT = 20%	

LUMBER-
 TOP CHORD 2x4 DF No.2 G *Except*
 T2,T3: 2x4 DF No.1&Btr G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G *Except*
 W10,W1: 2x6 DF No.2 G, W2: 2x4 DF No.2 G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 4-11-5 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 3-4-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)		NOTES-	
22	= 1801/0-5-8 (min. 0-1-15)	1) Unbalanced roof live loads have been considered for this design.	
16	= 2201/0-5-8 (min. 0-2-6)	2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCCL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-10-14, Interior(1) 1-10-14 to 40-4-2 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	
28	= 208/0-5-8 (min. 0-1-8)	3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
Max Horz		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.	
22	= -3125(LC 27)	5) A plate rating reduction of 20% has been applied for the green lumber members.	
Max Uplift		6) Bearing at joint(s) 28 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.	
22	= -344(LC 13)	7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.	
16	= -45(LC 9)	8) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50 has/have been modified. Building designer must review loads to verify that they are correct for the intended use.	
28	= -873(LC 27)	9) This truss has been designed for a maximum dead load of 6.0lb dead located at all mid panels and nonconcurrent with any other live loads.	
Max Grav		10) Hanger(s) or other connection device concentrated load(s) 1875 lb left at 8-1-10 such connection device(s) is the response.	
22	= 1801(LC 1)	11) This truss is designed for a creep factor of 1.0.	
16	= 2201(LC 1)	Vert(CT) deflection per ANSI/TPI 1.	
28	= 390(LC 30)	12) In the LOAD CASE(S) section, loads are indicated as front (F) or back (B).	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 2-29=-188/1018, 3-29=-182/1036, 3-30=-170/1060,
 30-31=-150/1068, 4-31=-147/1089, 4-32=-354/338,
 5-32=-325/364, 6-22=-1458/903, 6-33=-357/1146, 5-33=-357/96,
 6-34=-1462/977, 7-34=-1453/990, 7-35=-1833/204,
 8-35=-1830/205, 8-36=-1566/298, 9-36=-1564/299,
 9-10=-1561/301, 10-37=-630/306, 37-38=-627/309,
 11-38=-623/310, 11-39=-134/1238, 12-39=-132/1243,
 12-40=-132/1240, 13-40=-128/1244, 14-15=-405/0
 BOT CHORD
 22-23=-3446/420, 21-22=-238/1761, 20-21=-238/1761,
 19-20=-389/1781, 18-19=-409/1278, 17-18=-409/1278,
 16-17=-675/171, 15-16=-390/113
 WEBS
 2-26=-997/205, 23-26=-1019/208, 4-23=-1231/66, 4-6=-56/1099,
 4-6=-56/1099, 6-23=-257/3118, 7-22=-1801/347,
 7-20=-63/700, 8-20=-510/156, 8-19=-319/134, 10-19=-11/445,
 10-17=-953/195, 11-17=-51/851, 11-16=-1372/148,
 12-16=-550/0, 13-16=-1148/56, 13-15=-109/613,
 2-28=-392/889

LOAD CASE(S)

Standard Except:

Uniform Loads (plf)

Vert: 1-2=74, 2-5=74, 6-38=74, 13-38=109, 15-25=18, 13-14=109

2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=64, 2-5=64, 6-38=64, 13-38=99, 15-25=18, 13-14=99

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate

Increase=1.25

Uniform Loads (plf)

Vert: 1-2=34, 2-5=34, 6-38=34, 13-38=69, 15-25=38, 13-14=69

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=57, 2-3=28, 3-5=14, 6-38=18, 13-38=17, 16-25=11, 15-16=28, 13-14=17

Horz: 1-2=77, 2-3=48, 3-5=34, 5-6=12, 6-13=38, 14-15=34, 25-27=18, 13-14=38

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=8, 2-31=14, 5-31=28, 6-38=18, 13-38=17, 16-25=11, 15-16=28, 13-14=10

Horz: 1-2=28, 2-31=34, 5-31=48, 5-6=41, 6-13=38, 14-15=18, 25-27=34, 13-14=45

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=23, 2-5=51, 6-38=47, 13-38=82, 16-25=18, 15-16=11, 13-14=82

Horz: 1-2=11, 2-5=17, 5-6=15, 6-13=13, 14-15=31, 25-27=22, 13-14=13

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=45, 2-5=51, 6-38=47, 13-38=82, 16-25=18, 15-16=11, 13-14=82

Horz: 1-2=11, 2-5=17, 5-6=37, 6-13=13, 14-15=22, 25-27=31, 13-14=13

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate

Increase=1.60

Uniform Loads (plf)

Vert: 1-2=7, 2-5=7, 6-38=5, 13-38=30, 15-25=11, 13-14=30

Horz: 1-2=28, 2-5=13, 5-6=12, 6-13=25, 14-15=23, 25-27=18, 13-14=25

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate

Increase=1.60

Uniform Loads (plf)

Vert: 1-2=0, 2-5=6, 6-38=23, 13-38=12, 16-25=11, 15-16=10, 13-14=12

Horz: 1-2=21, 2-5=27, 5-6=29, 6-13=44, 14-15=18, 25-27=23, 13-14=44

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate

Increase=1.60

Uniform Loads (plf)

Vert: 1-2=27, 2-5=34, 6-38=22, 13-38=57, 15-25=18, 13-14=57

Horz: 1-2=7, 2-5=0, 5-6=37, 6-13=44, 14-15=11, 25-27=31, 13-14=12

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate

Increase=1.60

Uniform Loads (plf)

Vert: 1-2=13, 2-5=20, 6-38=3, 13-38=38, 16-25=18, 15-16=3, 13-14=38

Horz: 1-2=21, 2-5=14, 5-6=4, 6-13=31, 14-15=31, 25-27=11, 13-14=31

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate

Increase=1.60

Uniform Loads (plf)

Vert: 1-2=17, 2-5=23, 6-38=5, 13-38=30, 15-25=11, 13-14=30

Horz: 1-2=38, 2-5=44, 5-6=50, 6-13=25, 14-15=21, 25-27=15, 13-14=25

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, 2-5=5, 6-38=23, 13-38=12, 15-25=11, 13-14=12

Horz: 1-2=19, 2-5=25, 5-6=31, 6-13=44, 14-15=15, 25-27=21, 13-14=44

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate

Increase=1.60

Uniform Loads (plf)

Vert: 1-2=4, 2-5=10, 6-38=1, 13-38=36, 15-25=11, 13-14=36

Horz: 1-2=24, 2-5=31, 5-6=37, 6-13=19, 14-15=16, 25-27=8, 13-14=19

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate

Increase=1.60

Uniform Loads (plf)

Vert: 1-2=7, 2-5=1, 6-38=10, 13-38=25, 15-25=11, 13-14=25

Horz: 1-2=13, 2-5=19, 5-6=26, 6-13=31, 14-15=8, 25-27=16, 13-14=31

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate

Increase=1.60

Uniform Loads (plf)

Vert: 1-2=4, 2-5=3, 6-38=22, 13-38=57, 15-25=18, 13-14=57

Horz: 1-2=38, 2-5=31, 5-6=25, 6-13=12, 14-15=9, 25-27=28, 13-14=12

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate

Increase=1.60

Uniform Loads (plf)

Vert: 1-2=15, 2-5=22, 6-38=3, 13-38=38, 15-25=18, 13-14=38

Horz: 1-2=19, 2-5=12, 5-6=6, 6-13=31, 14-15=28, 25-27=9, 13-14=31

18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Continued on page 3

Standard Except:

Vert: 1-2=34, 2-5=34, 6-38=34, 13-38=69, 15-25=18, 13-14=69

19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber

Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=59, 2-5=64, 6-38=55, 13-38=90, 15-25=18, 13-14=90

Horz: 1-2=5, 2-5=0, 5-6=28, 6-13=9, 14-15=8, 25-27=23, 13-14=9

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber

Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=49, 2-5=53, 6-38=41, 13-38=76, 16-25=18, 15-16=2, 13-14=76

Horz: 1-2=15, 2-5=11, 5-6=3, 6-13=23, 14-15=23, 25-27=8, 13-14=23

21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel):

Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=36, 2-5=41, 6-38=55, 13-38=90, 15-25=18, 13-14=90

Horz: 1-2=28, 2-5=23, 5-6=19, 6-13=9, 14-15=7, 25-27=21, 13-14=9

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel):

Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=50, 2-5=55, 6-38=41, 13-38=76, 15-25=18, 13-14=76

Horz: 1-2=14, 2-5=9, 5-6=4, 6-13=23, 14-15=21, 25-27=7, 13-14=23

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=74, 2-5=74, 6-38=34, 13-38=69, 15-25=18, 13-14=69

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=34, 2-5=34, 6-38=74, 13-38=109, 15-25=18, 13-14=109

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate

Increase=1.25

Uniform Loads (plf)

Vert: 1-2=64, 2-5=64, 6-38=34, 13-38=69, 15-25=18, 13-14=69

26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate

Increase=1.25

Uniform Loads (plf)

Vert: 1-2=34, 2-5=34, 6-38=64, 13-38=99, 15-25=18, 13-14=99

27) F1&F2 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=34(F), 2-5=34(F), 6-38=34(F), 13-38=69(F=34), 16-25=18(F),

13-14=69(F=34)

Concentrated Loads (lb)

Horz: 22=1875(F), 6=3000(F)

28) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=34(F), 2-5=34(F), 6-38=34(F), 13-38=69(F=34), 16-25=18(F),

13-14=69(F=34)

Concentrated Loads (lb)

Vert: 33=1050(F)

Horz: 5=300(F)

29) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=34(F), 2-5=34(F), 6-38=34(F), 13-38=69(F=34), 16-25=18(F),

13-14=69(F=34)

Concentrated Loads (lb)

Vert: 33=1050(F)

Horz: 5=300(F)

30) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=34, 2-5=34, 6-38=34, 13-38=69, 15-25=18, 13-14=69

Concentrated Loads (lb)

Vert: 2=306

31) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=34, 2-5=34, 6-38=34, 13-38=69, 15-25=18, 13-14=69

Concentrated Loads (lb)

Vert: 29=306

32) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=34, 2-5=34, 6-38=34, 13-38=69, 15-25=18, 13-14=69

Concentrated Loads (lb)

Vert: 30=306

33) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=34, 2-5=34, 6-38=34, 13-38=69, 15-25=18, 13-14=69

Concentrated Loads (lb)

Vert: 32=306

34) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=34, 2-5=34, 6-38=34, 13-38=69, 15-25=18, 13-14=69

Concentrated Loads (lb)

Vert: 5=306

35) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

LOAD CASE(S)**Standard****Uniform Loads (plf)**

Vert: 1-2=-34, 2-5=-34, 6-38=-34, 13-38=-69, 15-25=-18, 13-14=-69

Concentrated Loads (lb)

Vert: 34=-306

36) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25**Uniform Loads (plf)**

Vert: 1-2=-34, 2-5=-34, 6-38=-34, 13-38=-69, 15-25=-18, 13-14=-69

Concentrated Loads (lb)

Vert: 35=-306

37) 8th Moving Load: Lumber Increase=1.25, Plate Increase=1.25**Uniform Loads (plf)**

Vert: 1-2=-34, 2-5=-34, 6-38=-34, 13-38=-69, 15-25=-18, 13-14=-69

Concentrated Loads (lb)

Vert: 36=-306

38) 9th Moving Load: Lumber Increase=1.25, Plate Increase=1.25**Uniform Loads (plf)**

Vert: 1-2=-34, 2-5=-34, 6-38=-34, 13-38=-69, 15-25=-18, 13-14=-69

Concentrated Loads (lb)

Vert: 37=-306

39) 10th Moving Load: Lumber Increase=1.25, Plate Increase=1.25**Uniform Loads (plf)**

Vert: 1-2=-34, 2-5=-34, 6-38=-34, 13-38=-69, 15-25=-18, 13-14=-69

Concentrated Loads (lb)

Vert: 39=-306

40) 11th Moving Load: Lumber Increase=1.25, Plate Increase=1.25**Uniform Loads (plf)**

Vert: 1-2=-34, 2-5=-34, 6-38=-34, 13-38=-69, 15-25=-18, 13-14=-69

Concentrated Loads (lb)

Vert: 40=-306

41) 12th Moving Load: Lumber Increase=1.25, Plate Increase=1.25**Uniform Loads (plf)**

Vert: 1-2=-34, 2-5=-34, 6-38=-34, 13-38=-69, 15-25=-18, 13-14=-69

Concentrated Loads (lb)

Vert: 41=-306

42) 13th Moving Load: Lumber Increase=1.25, Plate Increase=1.25**Uniform Loads (plf)**

Vert: 1-2=-34, 2-5=-34, 6-38=-34, 13-38=-69, 15-25=-18, 13-14=-69

Concentrated Loads (lb)

Vert: 14=-306

43) 14th Moving Load: Lumber Increase=1.25, Plate Increase=1.25**Uniform Loads (plf)**

Vert: 1-2=-34, 2-5=-34, 6-38=-34, 13-38=-69, 15-25=-18, 13-14=-69

Concentrated Loads (lb)

Vert: 3=-306

44) 15th Moving Load: Lumber Increase=1.25, Plate Increase=1.25**Uniform Loads (plf)**

Vert: 1-2=-34, 2-5=-34, 6-38=-34, 13-38=-69, 15-25=-18, 13-14=-69

Concentrated Loads (lb)

Vert: 4=-306

45) 16th Moving Load: Lumber Increase=1.25, Plate Increase=1.25**Uniform Loads (plf)**

Vert: 1-2=-34, 2-5=-34, 6-38=-34, 13-38=-69, 15-25=-18, 13-14=-69

Concentrated Loads (lb)

Vert: 7=-306

46) 17th Moving Load: Lumber Increase=1.25, Plate Increase=1.25**Uniform Loads (plf)**

Vert: 1-2=-34, 2-5=-34, 6-38=-34, 13-38=-69, 15-25=-18, 13-14=-69

Concentrated Loads (lb)

Vert: 8=-306

47) 18th Moving Load: Lumber Increase=1.25, Plate Increase=1.25**Uniform Loads (plf)**

Vert: 1-2=-34, 2-5=-34, 6-38=-34, 13-38=-69, 15-25=-18, 13-14=-69

Concentrated Loads (lb)

Vert: 10=-306

48) 19th Moving Load: Lumber Increase=1.25, Plate Increase=1.25**Uniform Loads (plf)**

Vert: 1-2=-34, 2-5=-34, 6-38=-34, 13-38=-69, 15-25=-18, 13-14=-69

Concentrated Loads (lb)

Vert: 11=-306

49) 20th Moving Load: Lumber Increase=1.25, Plate Increase=1.25**Uniform Loads (plf)**

Vert: 1-2=-34, 2-5=-34, 6-38=-34, 13-38=-69, 15-25=-18, 13-14=-69

Concentrated Loads (lb)

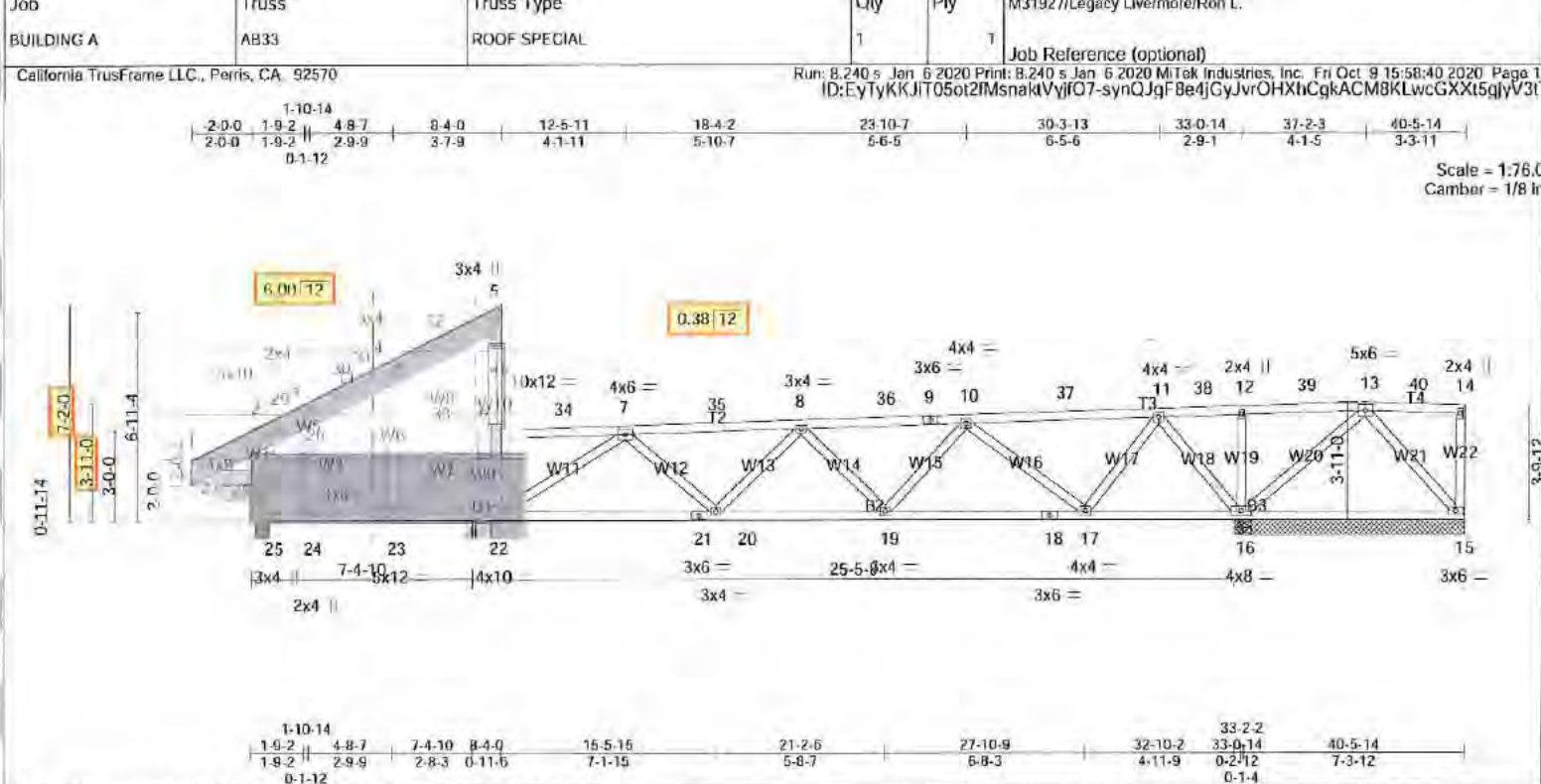
Vert: 12=-306

50) 21st Moving Load: Lumber Increase=1.25, Plate Increase=1.25**Uniform Loads (plf)**

Vert: 1-2=-34, 2-5=-34, 6-38=-34, 13-38=-69, 15-25=-18, 13-14=-69

Concentrated Loads (lb)

Vert: 13=-306



LUMBER-
 TOP CHORD 2x4 DF No.2 G *Except*
 T2,T3: 2x4 DF No.1&Btr G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Sld G *Except*
 W10,W1: 2x6 DF No.2 G, W2: 2x4 DF No.2 G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 5-1-5 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 3-5-3 oc bracing.

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 0-5-8 except (jt=length) 15=7-7-12.
 (lb) - Max Horz
 22=3125(LC 27)
 Max Uplift
 All uplift 100 lb or less at joint(s) except 22=278(LC 9),
 15=330(LC 27), 16=324(LC 9), 28=824(LC 27)
 Max Grav
 All reactions 250 lb or less at joint(s) 15 except
 22=1735(LC 1), 16=2118(LC 1), 16=2118(LC 1), 16=2118(LC 1),
 28=395(LC 30)

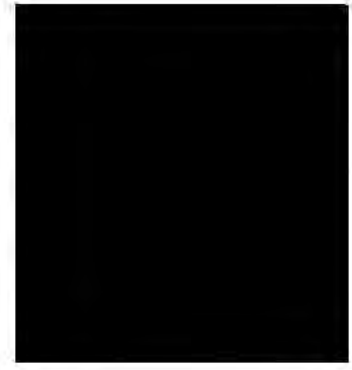
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 2-29=169/970, 3-29=159/987, 3-30=146/1011,
 30-31=128/1019, 4-31=123/1040, 4-32=355/316,
 5-32=326/362, 6-22=1420/914, 6-33=357/1146, 5-33=357/96,
 6-34=1612/909, 7-34=1603/923, 7-35=1713/141,
 8-35=1710/143, 8-36=1273/146, 9-36=1270/147,
 9-10=1268/149, 10-37=285/59, 11-37=272/61,
 11-38=229/1128, 12-38=228/1133, 12-39=225/1131,
 13-39=224/1136, 14-15=355/31
 BOT CHORD
 22-23=3301/378, 21-22=232/1743, 20-21=232/1743,
 19-20=286/1572, 18-19=224/1040, 17-18=224/1040,
 16-17=361/69, 15-16=370/74
 WEBS
 2-26=951/195, 23-26=973/197, 4-23=1180/43, 4-6=62/1048,
 6-23=202/2991, 7-22=1712/246, 7-20=47/638, 8-20=451/200,
 8-19=442/92, 10-19=0/566, 10-17=1015/223, 11-17=97/898,
 11-16=1363/247, 12-16=408/68, 13-16=1064/208, 13-15=50/579,
 2-28=397/840

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf;
 BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone
 and C-C Exterior(2) -2-0-0 to 1-10-14, Interior(1) 1-10-14 to 40-4-2 zone; cantilever left
 and right exposed; end vertical left and right exposed; C-C for members and forces &
 MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) 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) Bearing at joint(s) 28 considers parallel to grain value using ANSI/TPI 1 angle to
 grain formula. Building designer should verify capacity of bearing surface.
 7) This truss is designed in accordance with the 2015 International Building Code
 section 2306.1 and referenced standard ANSI/TPI 1.
 8) Load case(s) 27, 28, 29 has/have been modified. Building designer must review
 loads to verify that they are correct for the intended use of this truss.
 9) This truss has been designed for a maximum concentrated load of 3990 lbs and
 6.0lb dead located at all mid panels and nonconcurrent with any other live loads.
 10) Hanger(s) or other connection device concentrated load(s) 1875 lb left at 8-1-
 such connection device(s) is the responsible portion of the
 11) This truss is designed for a creep factor
 Vert(CT) deflection per ANSI/TPI 1,
 12) In the LOAD CASE(S) section, loads are listed as
 front (F) or back (B).

LOAD CASE(S)
 Standard Except:
 27) F1&F2 Anchor Check: Lumber Increase
 Uniform Loads (plf)
 Vert: 1-2=34(F), 2-5=34(F), 6-13=34(F)

LOAD CASE(S)

- Standard Except:
- Concentrated Loads (lb)
Horz: 22=-1875(F), 6=5000(F)
- 28) F3 Left&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-13=-34(F), 15-25=-18(F), 13-14=-34(F)
 - Concentrated Loads (lb)
Vert: 33=1050(F)
Horz: 5=300(F)
- 29) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-34(F), 2-5=-34(F), 6-13=-34(F), 15-25=-18(F), 13-14=-34(F)
 - Concentrated Loads (lb)
Vert: 33=1050(F)
Horz: 5=300(F)



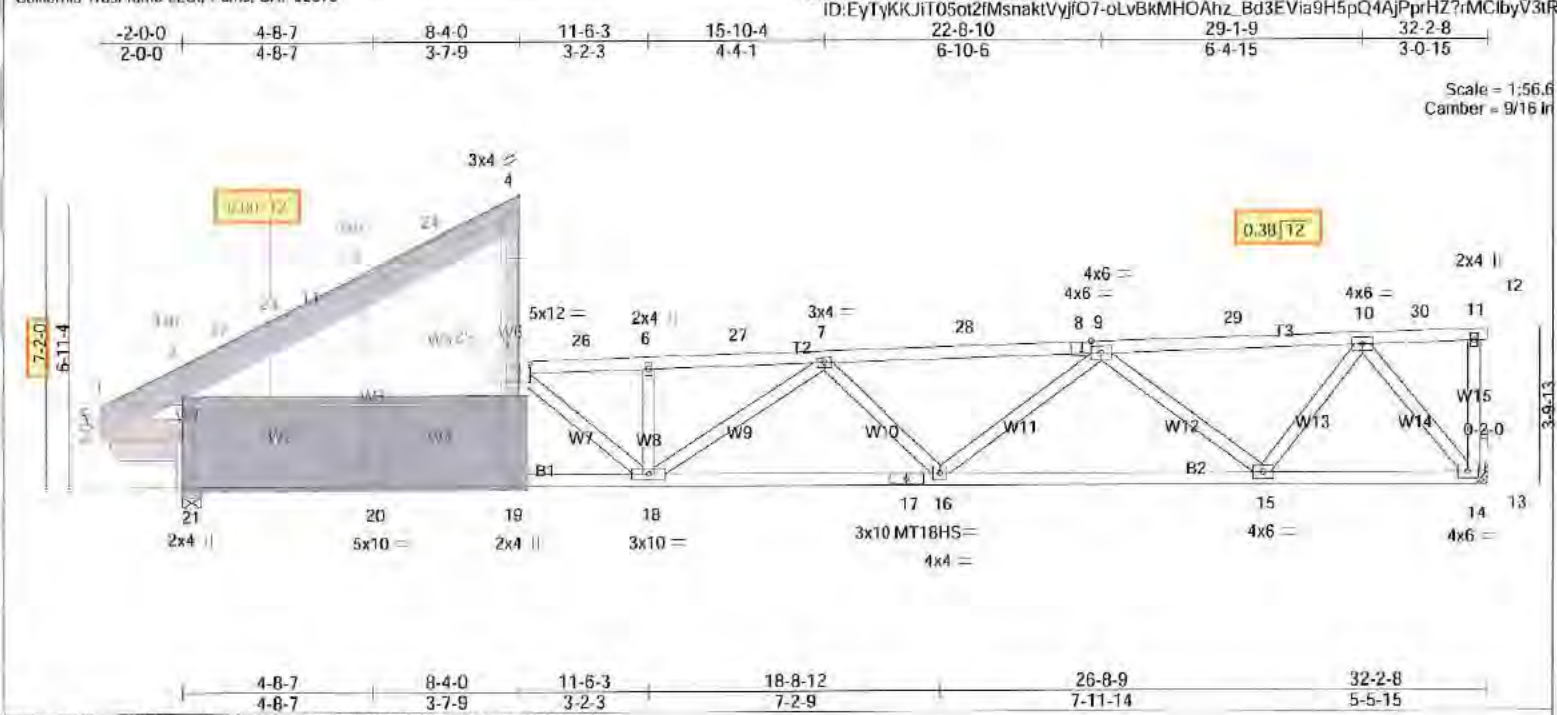


Plate Offsets (X,Y)-- [2:0-3-0,0-1-8], [5:0-3-0,0-2-8], [8:0-2-14,Edge]				
LOADING (psf)	SPACING	CSI	DEFL.	PLATES
TCLL 20.0	2-0-0	TC 0.90	in (loc) l/defl L/d	MT20 220/195
TCCL 17.0	Plate Grip DOL 1.25	BC 0.79	Vert(LL) 0.23 18 >999 240	MT18HS 220/195
BCCL 0.0 *	Lumber DOL 1.25	WB 0.83	Vert(CT) -0.76 16-18 >499 180	
BCDL 9.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.22 14 n/a n/a	
	Code IBC2015/TPI2014			Weight: 183 lb FT = 20%

LUMBER-
 TOP CHORD 2x4 DF No.1&Btr G *Except*
 T1: 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Stud G *Except*
 W6: 2x6 DF No.2 G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing.
 MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)	
14 =	1484/Mechanical
21 =	1625/0-5-8 (min. 0-1-12)
Max Horz	
21 =	-3125(LC 27)
Max Uplift	
14 =	-237(LC 9)
21 =	-38(LC 9)

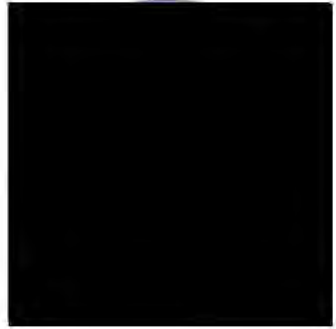
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
 2-22=-1343/112, 22-23=-1267/140, 3-23=-1262/174,
 3-24=-346/307, 4-24=-315/353, 5-25=-336/1144, 4-25=-336/94,
 5-26=-5190/677, 6-26=-5188/678, 6-27=-5190/681,
 7-27=-5187/683, 7-28=-3896/524, 8-28=-3893/526,
 8-9=-3889/527, 9-29=-1867/233, 10-29=-1859/237,
 11-14=-337/53, 2-21=-1587/232
BOT CHORD
 20-21=-499/3119, 19-20=-1008/3583, 18-19=-1026/5482,
 17-18=-729/4499, 16-17=-729/4499, 15-16=-552/3004,
 14-15=-221/1115
WEBS
 3-20=-484/954, 3-5=-1292/355, 5-20=-2428/896,
 5-18=-382/1051, 6-18=-427/87, 7-18=-795/836, 7-16=-882/311,
 9-16=-128/1245, 9-15=-1520/317, 10-15=-146/1326,
 10-14=-1766/305, 2-20=-148/1316

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCCL=10.2psf; BCDL=5.4psf; h=54ft; Cal. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-2-6, Interior(1) 1-2-6 to 32-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) All plates are MT20 plates unless otherwise indicated.
 4) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 6) A plate rating reduction of 20% has been applied for the green lumber members.
 7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 8) Load case(s) 27, 28, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 9) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 8-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 11) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
 12) 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:
 27) F1&F2 Anchor Check: Lumber Incr
 Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-4=-34(F), 5-11=
 Concentrated Loads (lb)
 Horz: 19=-1875(F), 5=5000(F)
 28) F3 Left&F4 Anchor Check: Lumber
 Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-4=-34(F), 5-11=
 Concentrated Loads (lb)
 Vert: 25=1050(F)
 Horz: 4=-300(F)
 29) F3 Right&F4 Anchor Check: Lumber
 Uniform Loads (plf)
 Vert: 1-2=-34(F), 2-4=-34(F), 5-11=
 Concentrated Loads (lb)

Job	Truss	Truss Type	Qty	Qty	MS 1527 Legacy Live/Dead/Roof L.
BUILDING A	AB34	ROOF SPECIAL	3	1	Job Reference (optional)

LOAD CASE(S)
 Standard Except:
 Concentrated Loads (lb)
 Vert: 25=1050(F)
 Horz: 4=300(F)



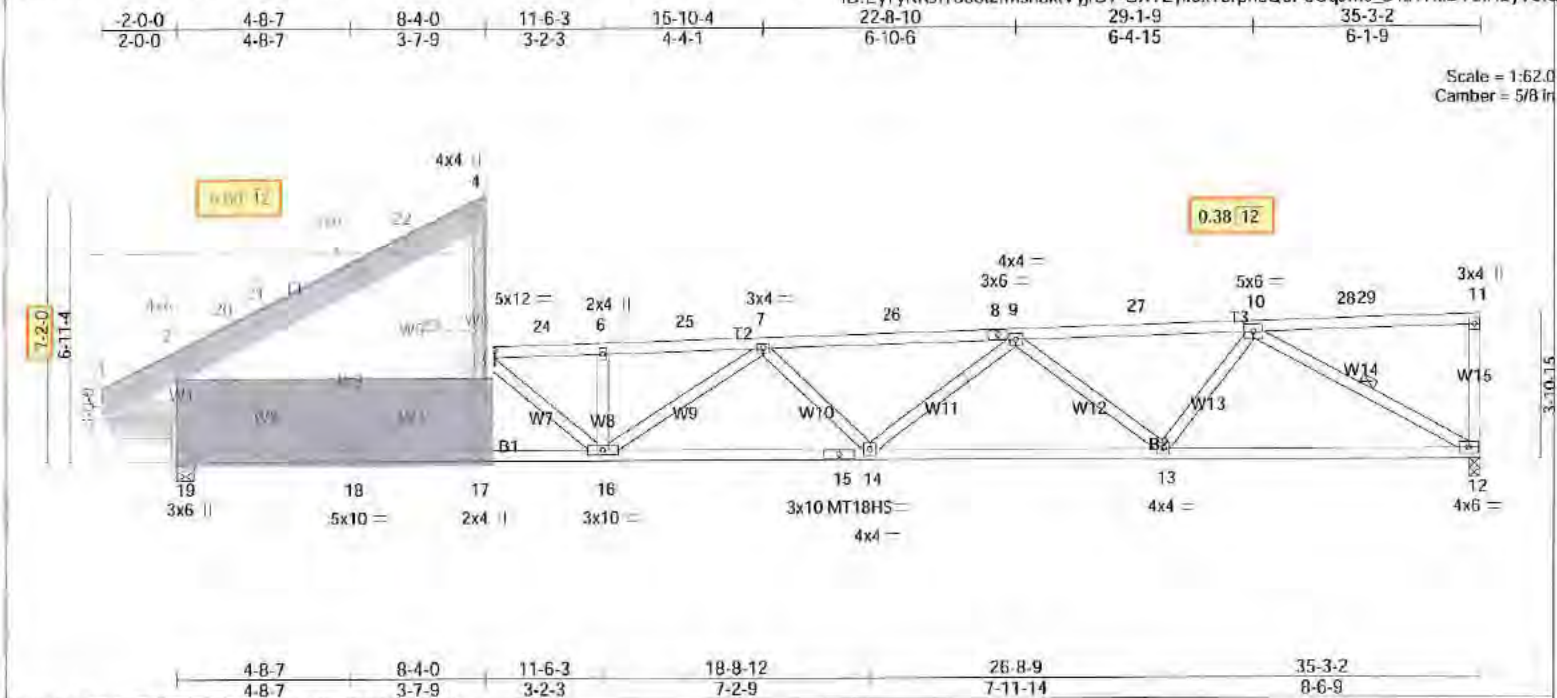


Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [5:0-3-0,0-2-8]									
LOADING (psi)		SPACING 1-7-3		CSI		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.89	Vert(LL)	0.27 14-16 >999 240	MT20	220/195
TCDL	17.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.88 14-16 >478 180	MT18HS	220/195
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.24 12 n/a n/a		
BCDL	9.0	Code IBC2015/TPI2014		Matrix-MSH				Weight: 194 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.1&Btr G *Except*

T1: 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G *Except*

W6: 2x6 DF No.2 G

BRACING-

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

BOT CHORD
Rigid ceiling directly applied or 5-7-5 oc bracing.

1 Row at midpt	10-12
----------------	-------

REACTIONS. (lb/size)

12 = 1282/0-3-8 (min. 0-1-8)

12	=	1262/0-5.8	(min. 0-1-3)
19	=	1417/0-5.8	(min. 0-2-2)

Max Horz
19 = -3125(LC 31)

Max Uplift 3125 (EG 31)

12 = -198(LC 9)

19 = 744(LC 25)

Max Gray

12 = 1282(LC 1)

19 = 2003(LC 24)

500000 300000 200000 100000 0 -100000 -200000 -300000

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less
TOP CHORD
2-22 1800/026 20-21 1575/510 2-24 1522/545

2-20=-1899/826, 20-21=-1575/546, 3-21=-1533/545,

3-22=-516/431, 4-22=-310/353, 5-23=-481/1152, 4-23=-364/321,
5-24=-5102/502 6-24=-5101/502 6-25=-5102/506

5-24=-5192/592, 6-24=-5191/593, 6-25=-5193/595,
7-25=-5191/597, 7-26=-4124/528, 8-26=-4121/528

7-25=-5191/591, 7-26=-4124/528, 8-26=-4121/529,
8-9=-4118/530, 9-27=-3444/324, 10-27=-3438/327.

$$10-28 = -717/682 \quad 28-29 = -367/335 \quad 11-29 = -327/300$$
$$10-28=-717/682, 28-29=-367/333, 11-29=-327/300,$$

$$11-12=-378/49, 2-19=-1971/759$$

BOT CHORD

18-19=-522/3119, 17-18=-1247/3539, 16-17=-1272/5438,

15-16=-682/4620, 14-15=-682/4620, 13-14=-566/3334,

$$12-13 = 340/1900$$

WEBS

 $3-18=-562/881, 3-5=-1154/464, 5-18=-2591/1083,$

5-16=-320/1015, 6-16=-402/69, 7-16=-830/693, 7-14=-726/388,

9-14=-273/1009, 9-13=-1219/231, 10-13=-81/1093,

10-12=-2155/363, 2-18=-876/1943

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCGL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-6-6, Interior(1) 1-6-6 to 35-1-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) A plate rating reduction of 20% has been applied for the green lumber members.
- 7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 8) Load case(s) 31, 32, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 9) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 10) This truss has been designed for a total seismic drag load of 4100 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 35-3-2 for 116.3 plf.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1875 lb left at 8-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
- 13) In the LOAD CASE(S) section, load is applied as front (F) or back (B).

LOAD CASE(S)

- Standard Except:
- 31) F1&F2 Anchor Check: Lumber Increase
Uniform Loads (plf)
Vert: 1-2=-27(F), 2-4=-27(F), 5-11=-
Concentrated Loads (lb)
Horz: 17=-1875(F), 5=5000(F)
- 32) F3 Left&F4 Anchor Check: Lumber
Uniform Loads (plf)
Vert: 1-2=-27(F), 2-4=-27(F), 5-11=-
Concentrated Loads (lb)

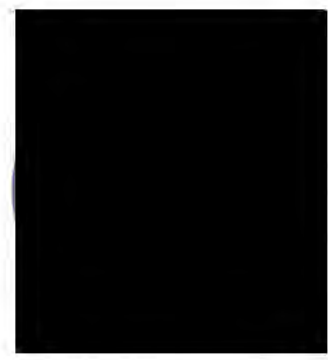
Job	Truss	Truss Type	Qty	Pty	m31927/ Legacy Livermore/Ron L.
BUILDING A	AB36	ROOF SPECIAL	12	1	Job Reference (optional)

California TrusFrame LLC., Pomis, CA 92570

Run: 8.240 s Jan 6 2020 Print: 8.240 s Jan 6 2020 MiTek Industries, Inc. Fri Oct 9 15:58:43 2020 Page 2
ID:EyTyKKJIT05ot2fMsnaklVylfO7-GXTZyil0x75rpneQ3P5OqJMc_a4sYHtiDV6IH2yV3tQ

LOAD CASE(S)

- Standard Except:
- Concentrated Loads (lb)
 - Vert: 23=1050(F)
 - Horz: 4=-300(F)
- 33) F3 Right&F4 Anchor Check: Lumber Increase=2.00, Plate Increase=1.60
- Uniform Loads (plf)
 - Vert: 1-2=-27(F), 2-4=-27(F), 5-11=-27(F), 12-19=-14(F)
 - Concentrated Loads (lb)
 - Vert: 23=1050(F)
 - Horz: 4=300(F)



Job	Truss	Truss Type	Qty	Ply	MS1927/Legacy Livermore/RCH L.
BUILDING A	AB37	GABLE	1	2	Job Reference (optional)

- NOTES-**
- 13) Use USP THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 22-8-0 from the left end to connect truss(es) AM04 (2 ply 2x6 DF) to back face of bottom chord.
- 14) Use USP JL24 (With 4-10d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 23-5-8 from the left end to 33-5-8 to connect truss(es) AM02 (1 ply 2x4 DF) to back face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.
- 16) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

- LOAD CASE(S)**
- Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-4=-74, 4-5=-74, 5-11=-74, 12-21=-18
- Concentrated Loads (lb)
- Vert: 73=-1392(B) 74=-167(B) 75=-167(B) 76=-167(B) 77=-167(B) 78=-167(B) 79=-167(B)



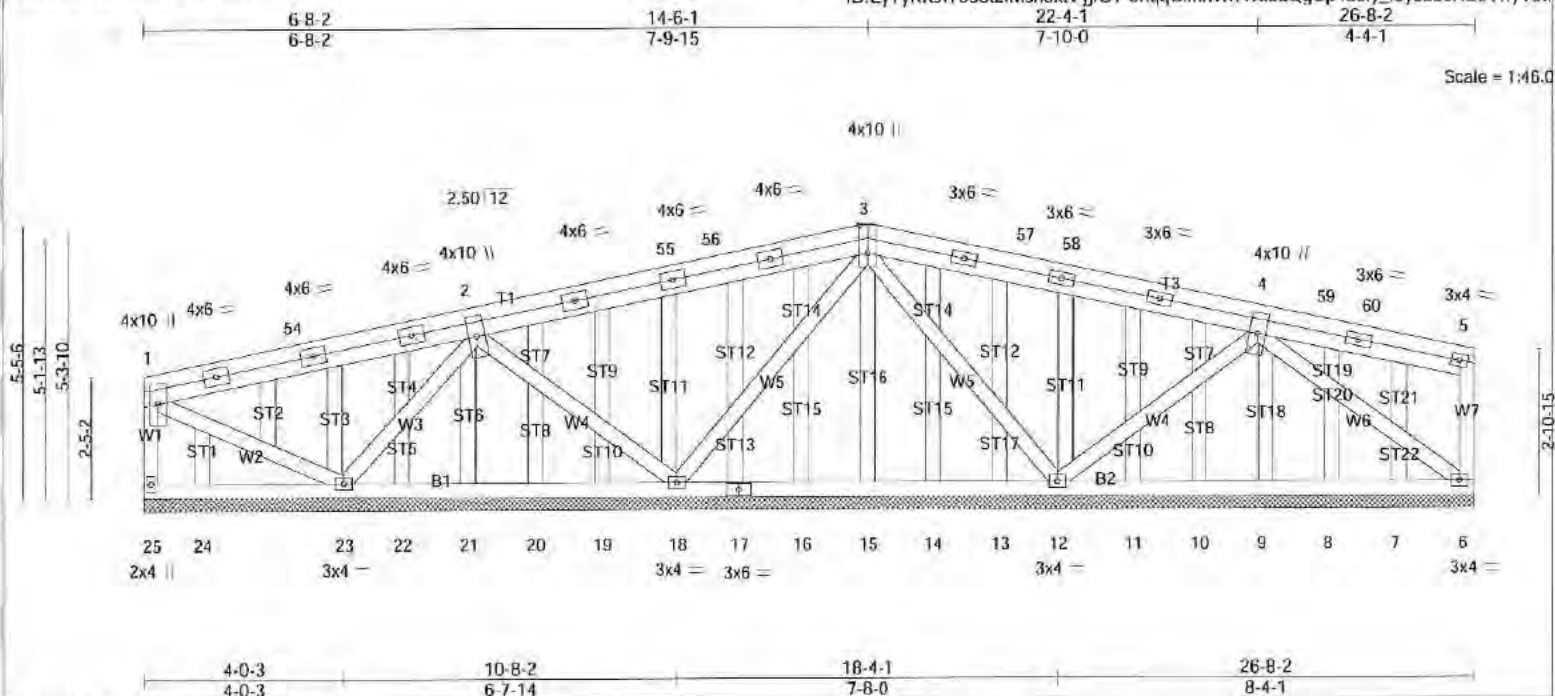


Plate Offsets (X,Y) - [3'-0"-6'-12", Edge]									
LOADING (psf)	SPACING	2'-0"-0"	CSI	DEFL.	in	(loc)	l/defl	L/d	PLATES
TCLL 20.0	Plate Grip DOL 1.25		TC 0.41	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 17.0	Lumber DOL 1.25		BC 0.05	Vert(CT)	n/a	-	n/a	999	GRIP
BCLL 0.0 *	Rep Stress Incr YES		WB 0.28	Horz(CT)	0.01	6	n/a	n/a	220/195
BCDL 9.0	Code IBC2015/TPI2014		Matrix-SH						Weight: 241 lb FT = 20%

LUMBER-
 TOP CHORD 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G
 OTHERS 2x4 DF Stud/Std G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 6'-0"-0" oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 10'-0"-0" oc bracing, Except:
 6'-0"-0" oc bracing: 24-25, 23-24.

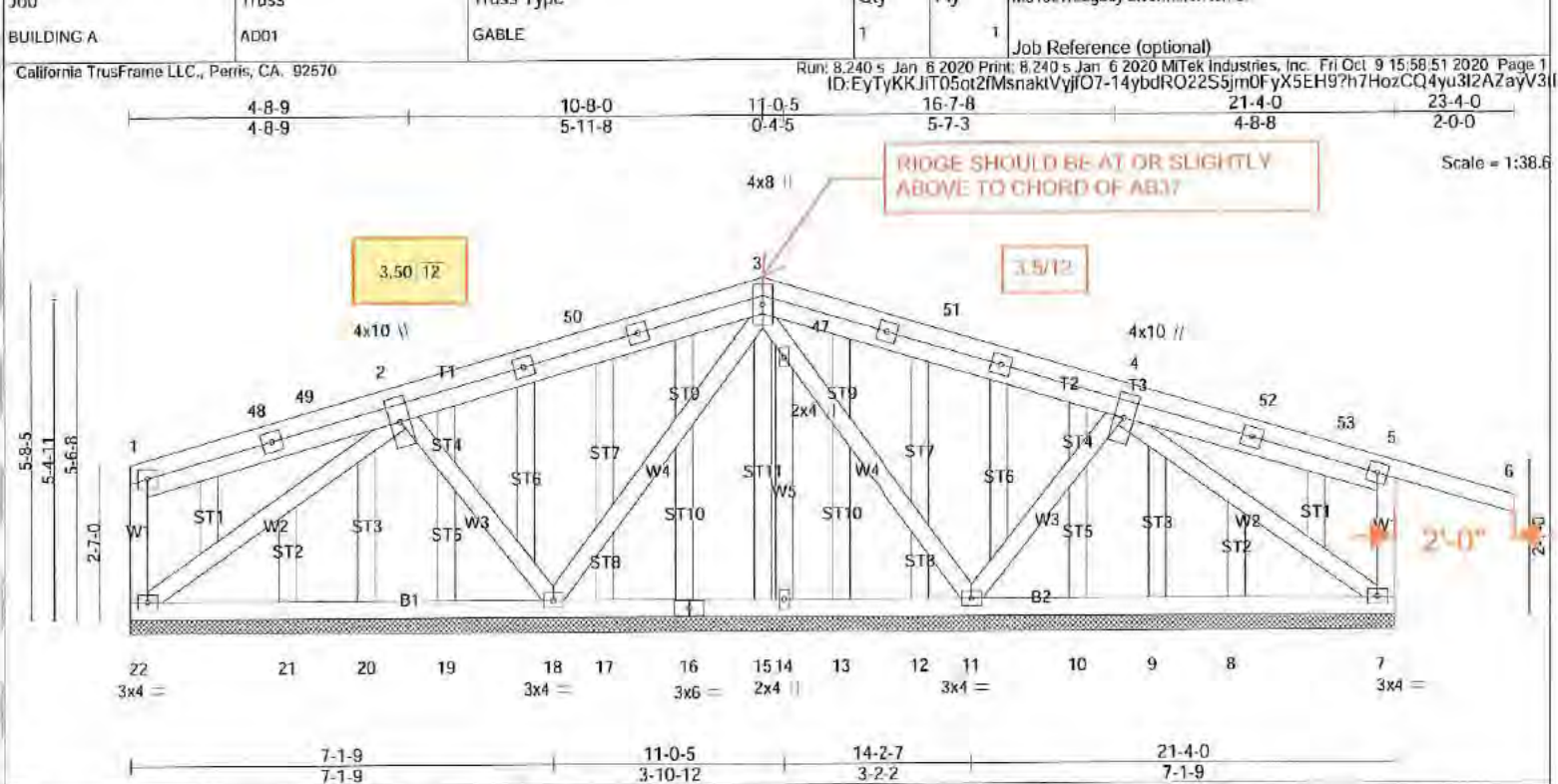
MjTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 7) * 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.
 8) A plate rating reduction of 20% has been applied for the green lumber members.
 9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 10) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 11) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

REACTIONS. All bearings 26-8-2.
 (lb) - Max Horz
 25= 73(LC 9)
 Max Uplift
 All uplift 100 lb or less at joint(s) 25, 6 except
 23=-105(LC 12), 18=-126(LC 8), 12=-177(LC 9)
 Max Grav
 All reactions 250 lb or less at joint(s) 15, 16, 19, 20, 21,
 22, 24, 14, 13, 11, 10, 9, 8, 7 except 25=344(LC 27),
 23=441(LC 23), 18=591(LC 1), 12=664(LC 1), 6=435(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 1-25=-341/116, 5-6=-339/77
 WEBS
 2-23=-447/191, 2-18=-419/222, 3-18=-355/162, 3-12=-396/195,
 4-12=-508/248, 4-6=-319/128

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cal. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 14-6-1, Corner(3) 14-6-1 to 17-6-1, Exterior(2) 17-6-1 to 26-6-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 4) Gable requires continuous bottom chord bearing.
 5) Gable studs spaced at 1'-4"-0" oc.



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.30	in (loc) l/def L/d	MT20	220/195
TCDL 17.0	Plate Grip DOL 1.25	BC 0.04	Vert(LL) 0.00 6 n/r 120		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.16	Vert(CT) -0.05 5-6 n/r 120		
BCDL 9.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.00 7 n/a n/a		
	Code IBC2015/TPI2014			Weight: 204 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G
 OTHERS 2x4 DF Stud/Std G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing.

Mitek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

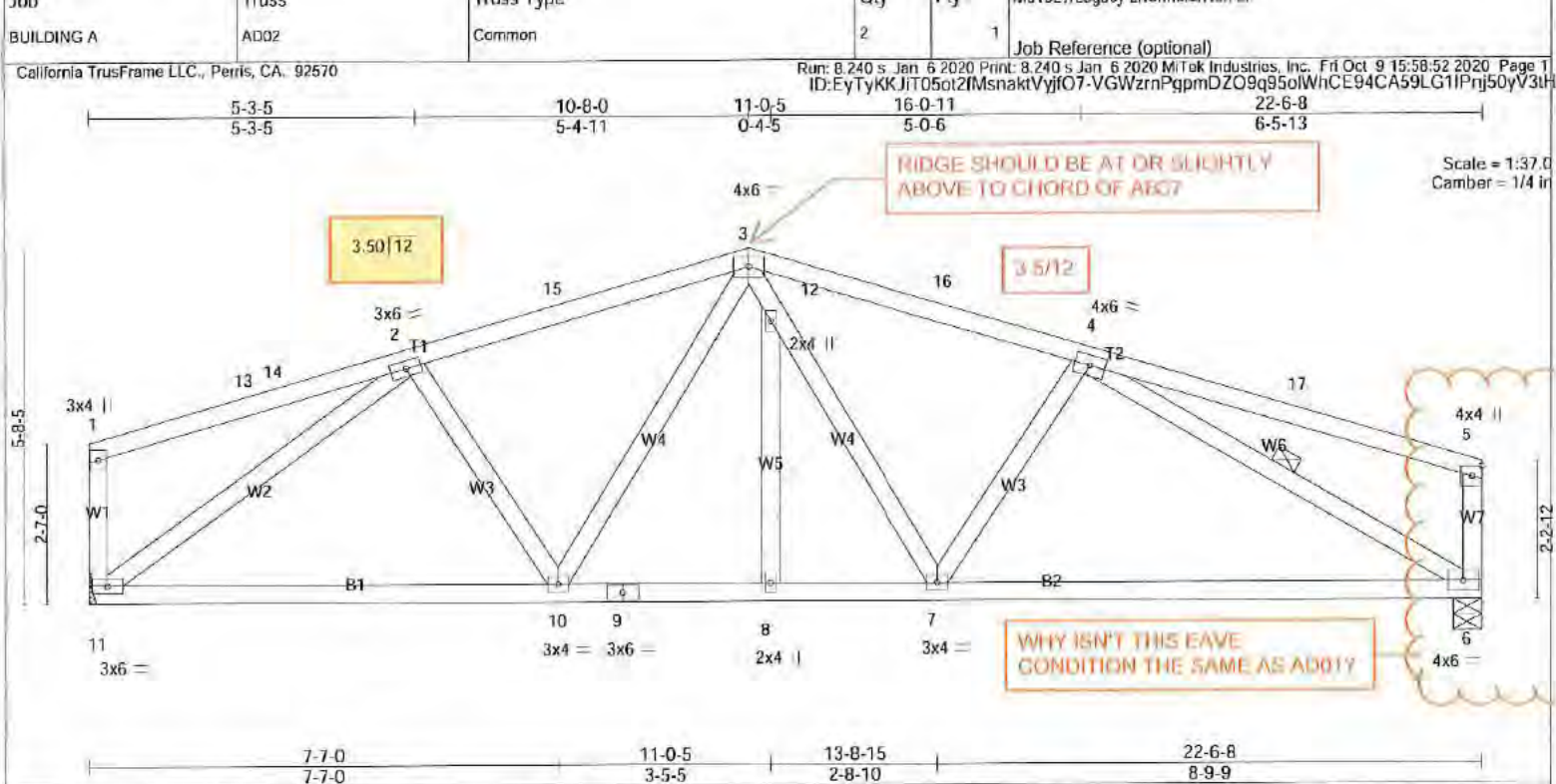
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 9) A plate rating reduction of 20% has been applied for the green lumber members.
 10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 11) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 12) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

REACTIONS. All bearings 21-4-0.
 (lb) - Max Horz
 22= -67(LC 8)
 Max Uplift
 All uplift 100 lb or less at joint(s) 22, 14 except
 11=132(LC 13), 18=144(LC 12), 7=149(LC 9)
 Max Grav
 All reactions 250 lb or less at joint(s) 15, 8, 9, 10, 12,
 13, 21, 20, 19, 17, 14 except 11=502(LC 1), 18=515(LC 1),
 22=425(LC 27), 7=506(LC 32)

LOAD CASE(S)
 Standard

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 1-22=358/98, 5-7=447/257
 WEBS
 3-47=370/143, 4-11=428/198, 2-18=445/223

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 10-8-0, Corner(3) 10-8-0 to 13-8-0, Exterior(2) 13-8-0 to 23-4-0 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
 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.
 4) All plates are 4x4 MT20 unless otherwise indicated.
 5) Gable requires continuous bottom chord bearing.
 6) Gable studs spaced at 1-4-0 oc.
 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



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 0.87	Vert(LL)	-0.13 6-7	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.58	Vert(CT)	-0.40 6-7	>665	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.92	Horz(CT)	0.06 6	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MSH						
								Weight: 119 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS
1 Row at midpt 4-6

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

6) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
8) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)
Standard

REACTIONS. (lb/size)

11 = 1023/Mechanical
6 = 1023/0-5-8 (min. 0-1-8)

Max Horz
11 = -52(LC 8)
Max Uplift
11 = -93(LC 8)
6 = -99(LC 9)

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

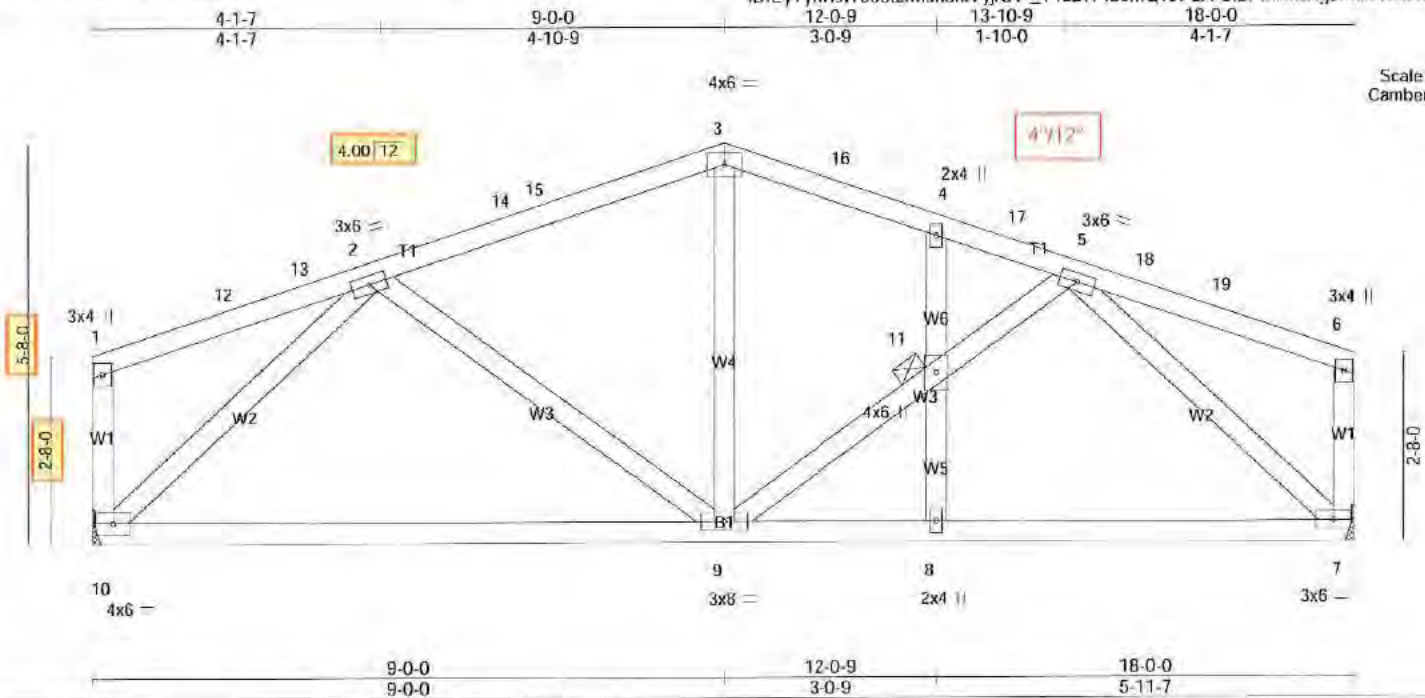
TOP CHORD
2-15=-1225/145, 3-15=-1162/162, 3-16=-1254/165,
4-16=-1319/143, 1-11=-388/60, 5-6=-419/76

BOT CHORD
10-11=-134/1093, 9-10=-91/1066, 8-9=-91/1066, 7-8=-91/1066,
6-7=-138/1266

WEBS
3-12=-55/362, 7-12=-39/371, 2-11=-1309/133, 4-6=-1375/137

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 10-8-0, Exterior(2) 10-8-0 to 13-8-0, Interior(1) 13-8-0 to 22-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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.



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.68	in (loc) l/defl L/d	MT20	220/195
TCDL 17.0	Plate Grip DOL 1.25	BC 0.55	Vert(LL) -0.14 9-10 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.68	Vert(CT) -0.40 9-10 >536 180		
BCDL 9.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.03 7 n/a n/a		
	Code IBC2015/TPI2014			Weight: 98 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 5-0-8 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

JOINTS
1 Brace at Jt(s): 11

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

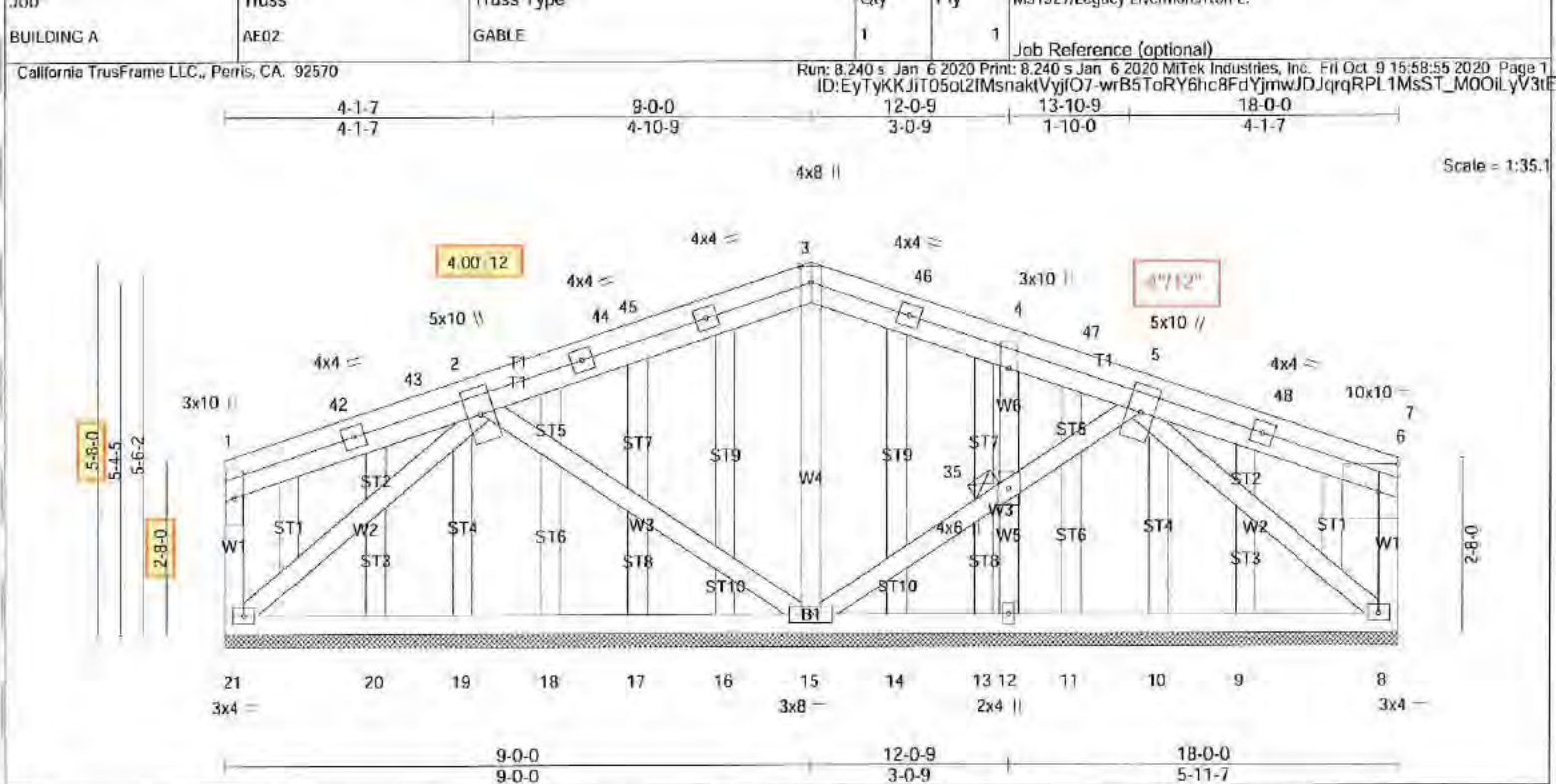
LOAD CASE(S)
Standard

REACTIONS. (lb/size)
10 = 815/Mechanical
7 = 815/Mechanical
Max Horz
10 = 58(LC 9)
Max Uplift
10 = -79(LC 8)
7 = -79(LC 9)

FORCES. (lb) : Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-14=-814/104, 14-15=-755/117, 3-15=-752/134, 3-16=-734/135,
4-16=-763/124, 4-17=-766/107, 5-17=-808/95, 1-10=-368/39,
6-7=-364/48
BOT CHORD
9-10=-146/678, 8-9=-108/681, 7-8=-108/681
WEBS
2-10=-894/145, 5-7=-902/112

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-0-0, Exterior(2) 9-0-0 to 12-0-9, Interior(1) 12-0-9 to 17-10-4 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
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,





LOADING (psf)	SPACING-	CSI	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.22	Vert(LL)	n/a	n/a	999	MT20	220/195
TCDL 17.0	Plate Grip DOL 1.25	BC 0.05	Vert(CT)	n/a	n/a	999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.25	Horz(CT)	0.01	8	n/a		
BCDL 9.0	Rep Stress Incr YES	Matrix-SH						
	Code IBC2015/TPI2014							
							Weight: 170 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G
 OTHERS 2x4 DF Stud/Std G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS
 1 Brace at Jt(s): 35

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer installation guide.

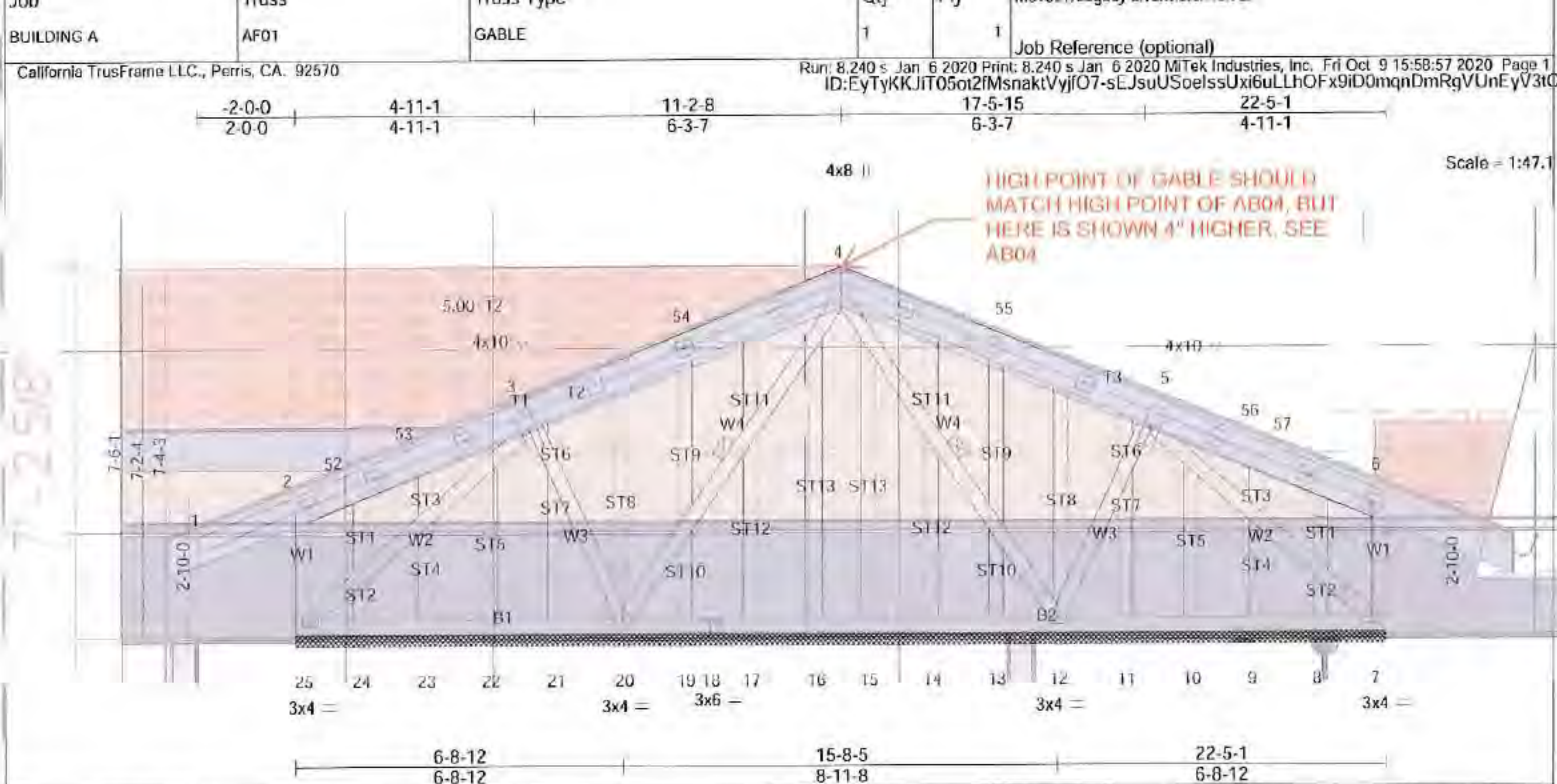
REACTIONS. All bearings 18-0-0.
 (lb) - Max Horz
 21= 56(LC 9)
 Max Uplift
 All uplift 100 lb or less at joint(s) 7, 21, 8, 12 except
 15=135(LC 8)
 Max Grav
 All reactions 250 lb or less at joint(s) 16, 17, 18, 19, 20,
 14, 13, 11, 10, 9 except 7=251(LC 33), 15=665(LC 1),
 21=449(LC 27), 8=434(LC 32), 12=368(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
 1-21=350/88, 6-8=280/72
WEBS
 3-15=425/166, 15-35=312/116, 5-35=315/116, 2-15=395/225,
 2-21=318/169, 4-35=363/131, 12-35=363/131

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 9-0-0, Corner(3) 9-0-0 to 12-0-9, Exterior(2) 12-0-9 to 18-0-0 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
 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.
 4) Gable requires continuous bottom chord bearing.
 5) Gable studs spaced at 1-4-0 oc.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 7) * 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.
 8) A plate rating reduction of 20% has been applied for the green lumber members.
 9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 10) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 12) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)
 Standard



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.30	Vert(LL)	-0.00	1	n/r	MT20	220/195
TCDL 17.0	Plate Grip DOL 1.25	BC 0.03	Vert(CT)	-0.05	1-2	n/r		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.17	Horz(CT)	0.01	7	n/a		
BCDL 9.0	Rep Stress Incr YES	Matrix-SH						
	Code IBC2015/TPI2014							
							Weight: 246 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G
OTHERS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS
1 Row at midpt 4-12, 4-20

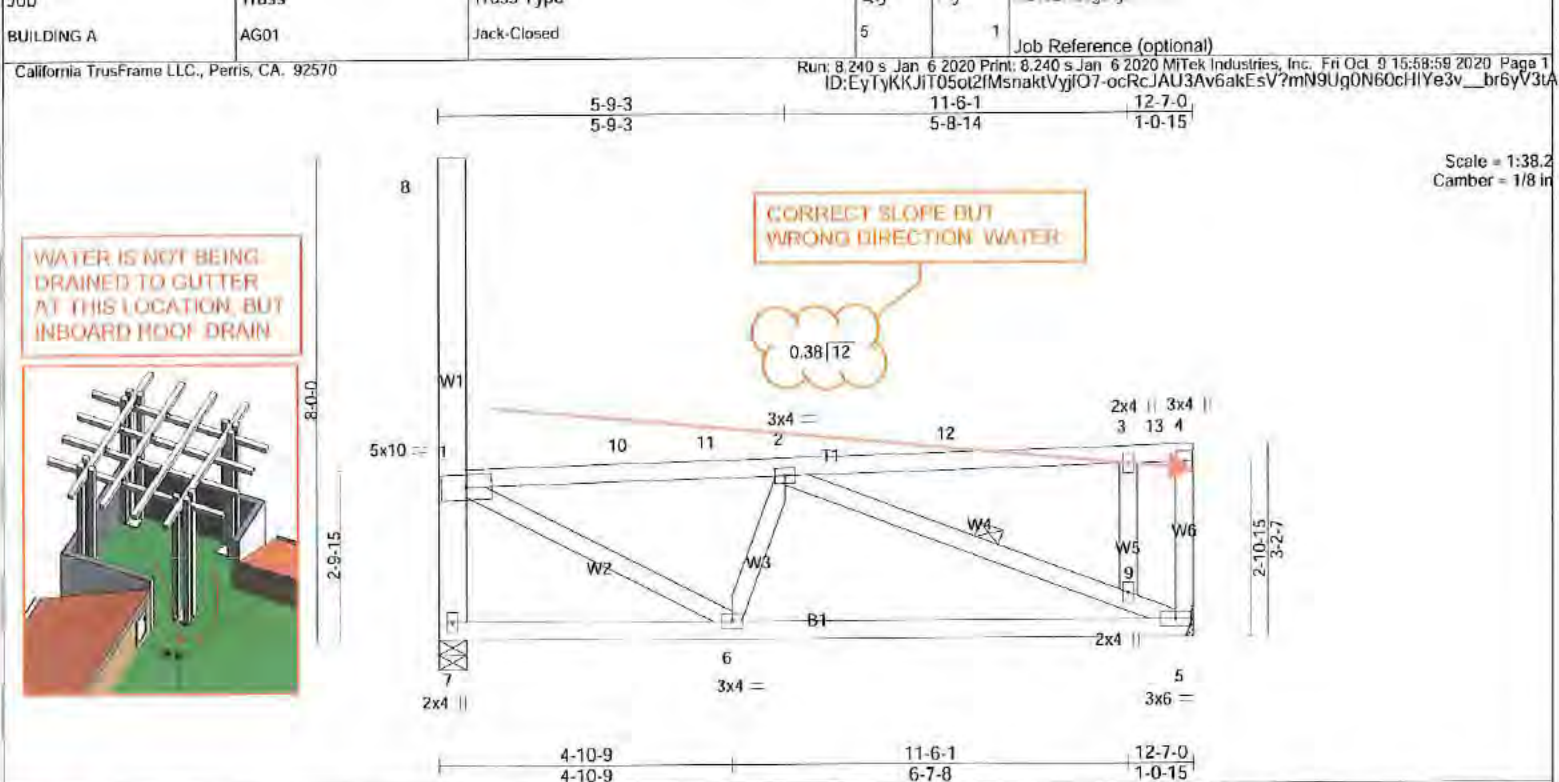
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 9.0psf.
9) A plate rating reduction of 20% has been applied for the green lumber members.
10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
12) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

REACTIONS. All bearings 22-5-1.
(lb) - Max Horz
25= 115(LC 9)
Max Uplift
All uplift 100 lb or less at joint(s) 7 except 25=108(LC 8), 12=167(LC 13), 20=155(LC 12)
Max Grav
All reactions 250 lb or less at joint(s) 8, 9, 10, 11, 13, 14, 15, 24, 23, 22, 21, 19, 17, 16 except 25=504(LC 27), 7=419(LC 32), 12=618(LC 1), 20=582(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-25=449/282, 6-7=361/110
WEBS
4-12=299/107, 5-12=427/233, 4-20=298/63, 3-20=409/253

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -2-0-0 to 1-0-0, Exterior(2) 1-0-0 to 11-2-8, Corner(3) 11-2-8 to 14-2-8, Exterior(2) 14-2-8 to 22-3-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 4x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 1-4-0 oc.



LOADING (psi)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.75	Vert(LL)	-0.08	5-6	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.41	Vert(CT)	-0.24	5-6	>622	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.75	Horz(CT)	0.01	5	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MSH						Weight: 76 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G *Except*
W1: 2x6 DF SS G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 5-1-10 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-8-11 oc bracing.
WEBS
1 Row at midpt 2-5

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

4) A plate rating reduction of 20% has been applied for the green lumber members.
5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
7) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)
Standard

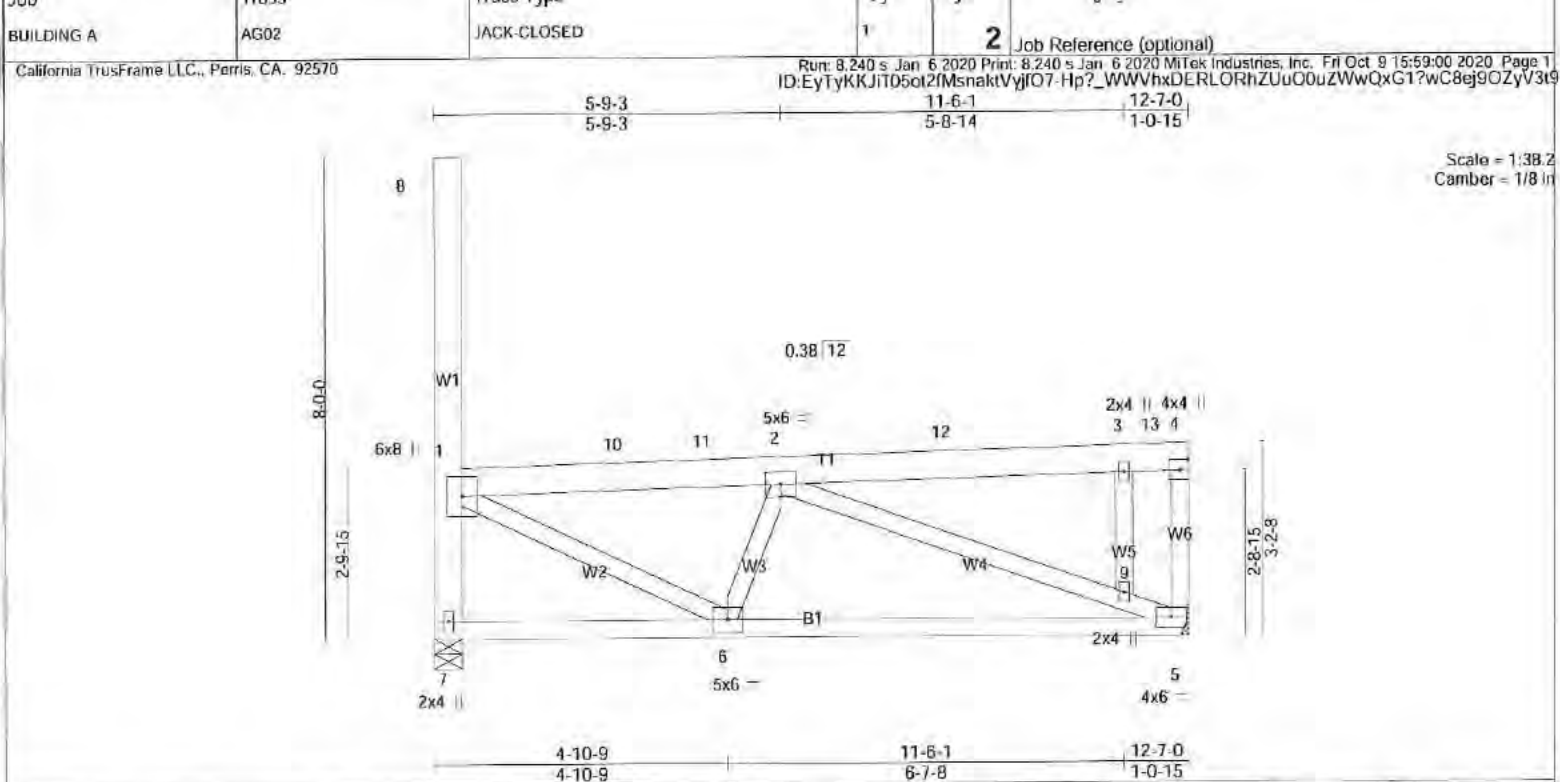
REACTIONS. (lb/size)

7	=	562/0-5-8 (min. 0-1-8)
5	=	562/Mechanical
Max Horz		
7	=	391(LC 11)
Max Uplift		
7	=	-198(LC 8)
5	=	-108(LC 12)
Max Grav		
7	=	623(LC 23)
5	=	623(LC 27)

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

TOP CHORD
1-7=-596/394, 1-10=-757/555, 10-11=-754/555, 2-11=-752/557.
4-5=-343/65
BOT CHORD
6-7=-861/1042, 5-6=-633/742
WEBS
1-6=-615/805, 2-9=-764/636, 5-9=-801/669, 2-6=-262/384

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-2-12 to 4-5-11, Exterior(2) 4-5-11 to 12-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 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.



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/dell	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.88	Vert(LL)	-0.04	5-6	>999	240	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.49	Vert(CT)	-0.18	5-6	>814	180	
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.75	Horz(CT)	0.03	5	n/a	n/a	
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MSH						
								Weight: 169 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G *Except*

W1: 2x6 DF SS G, W4: 2x4 DF No.2 G

BRACING-

TOP CHORD

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

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size)

7 = 2393/0-5-8 (min. 0-1-8)

5 = 2393/Mechanical

Max Horz

7 = 392(LC 9)

Max Grav

7 = 2455(LC 23)

5 = 2455(LC 27)

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

TOP CHORD

1-7=-2407/0, 1-10=-2942/0, 10-11=-2913/0, 2-11=-2890/0,

4-5=-908/0

BOT CHORD

6-7=-680/1157, 5-6=-0/3260

WEBS

1-6=0/3021, 2-9=-3353/0, 5-9=-3530/0, 2-6=-1377/0,

3-9=-501/0

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc,

Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc,

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-2-12 to 4-5-11, Exterior(2) 4-5-11 to 12-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

4) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) A plate rating reduction of 20% has been applied for the green lumber members.

7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

8) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

9) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

10) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)

Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-374(F=-300), 5-7=-18

2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-364(F=-300), 5-7=-18

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-334(F=-300), 5-7=-38

4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-11=-259(F=-300), 4-11=-269(F=-300)

Horz: 1-7=24, 1-8=87, 1-11=-61, 4-11=-61

5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-269(F=-300), 5-7=-11

Horz: 1-7=-40, 1-8=-66, 1-4=-52, 4-5=-52

6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-348(F=-300), 5-7=-18

Horz: 1-7=-28, 1-8=43, 1-4=14, 4-5=3

7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

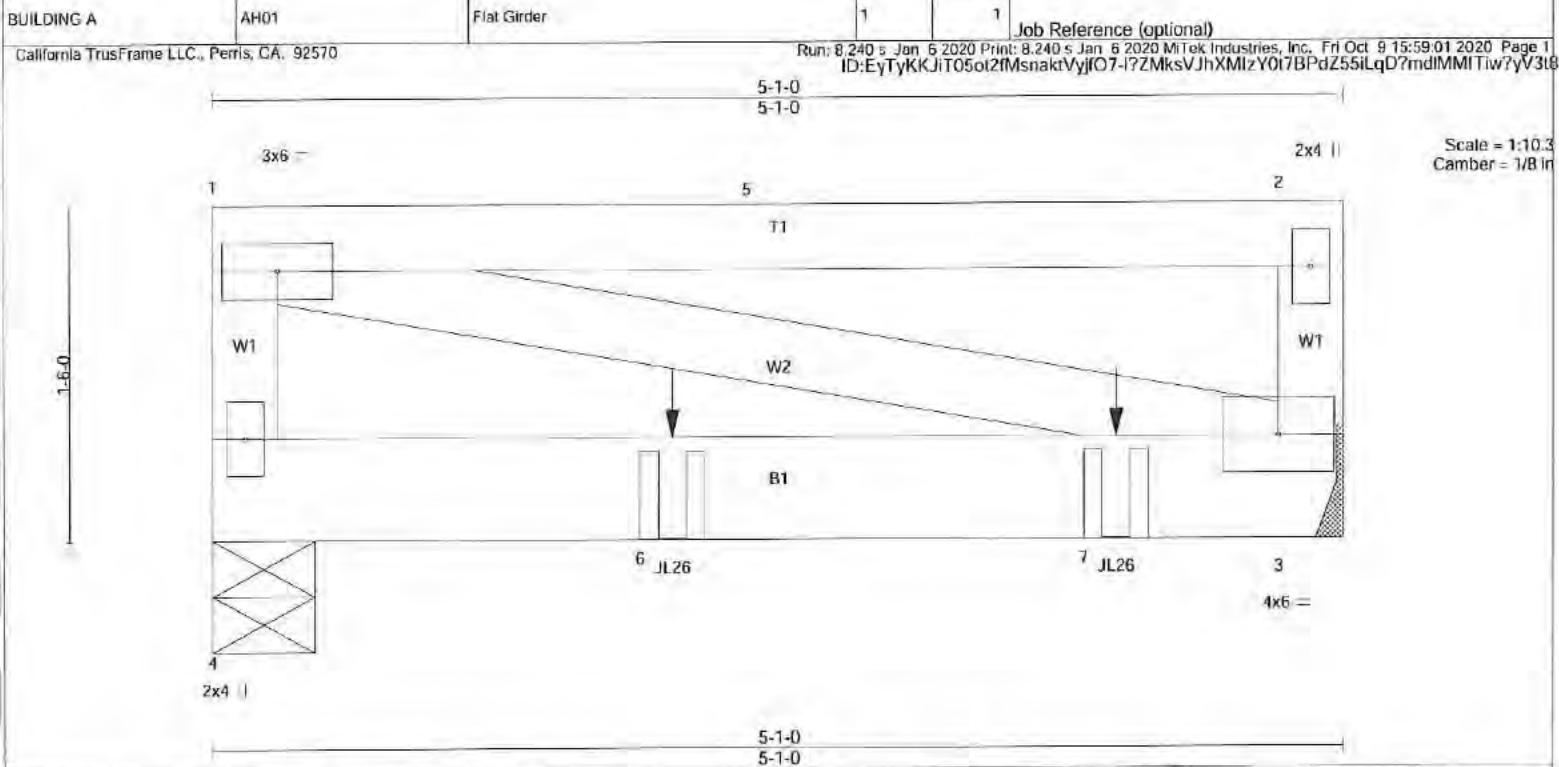
LOAD CASE(S)

Standard

- Uniform Loads (plf)
Vert: 1-4=-348(F=-300), 5-7=-18
Horz: 1-7=37, 1-8=-66, 1-4=14, 4-5=28
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-12=-277(F=-300), 4-12=-290(F=-300), 5-7=-11
Horz: 1-7=18, 1-8=53, 1-12=-44, 4-12=-31, 4-5=19
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-12=-295(F=-300), 4-12=-301(F=-300), 5-7=-11
Horz: 1-7=-23, 1-8=-53, 1-12=-25, 4-12=-19, 4-5=-13
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-12=-303(F=-300), 4-12=-316(F=-300), 5-7=-18
Horz: 1-7=31, 1-8=53, 1-12=-31, 4-12=-18, 4-5=7
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-12=-322(F=-300), 4-12=-327(F=-300), 5-7=-18
Horz: 1-7=-11, 1-8=-53, 1-12=-12, 4-12=-7, 4-5=-26
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-12=277(F=-300), 4-12=290(F=-300), 5-7=-11
Horz: 1-7=15, 1-8=-36, 1-12=-44, 4-12=-31, 4-5=16
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-301(F=-300), 5-7=-11
Horz: 1-7=-16, 1-8=-36, 1-4=-19, 4-5=-8
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-290(F=-300), 5-7=-11
Horz: 1-7=8, 1-8=-36, 1-4=-31, 4-5=16
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-301(F=-300), 5-7=-11
Horz: 1-7=-16, 1-8=-36, 1-4=-19, 4-5=-8
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-12=-303(F=-300), 4-12=-316(F=-300), 5-7=-18
Horz: 1-7=28, 1-8=-36, 1-12=-31, 4-12=-18, 4-5=4
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-327(F=-300), 5-7=-18
Horz: 1-7=-4, 1-8=-36, 1-4=-7, 4-5=-20
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-334(F=-300), 5-7=-18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-12=-341(F=-300), 4-12=-351(F=-300), 5-7=-18
Horz: 1-7=23, 1-8=40, 1-12=-23, 4-12=-13, 4-5=5
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-12=-355(F=-300), 4-12=-359(F=-300), 5-7=-18
Horz: 1-7=-8, 1-8=-40, 1-12=-9, 4-12=-5, 4-5=-19
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-12=-341(F=-300), 4-12=-351(F=-300), 5-7=-18
Horz: 1-7=21, 1-8=-27, 1-12=-23, 4-12=-13, 4-5=3
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-359(F=-300), 5-7=-18
Horz: 1-7=-3, 1-8=-27, 1-4=-5, 4-5=-15
- 23) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-334(F=-300), 5-7=-18
Concentrated Loads (lb)
Vert: 1=-306
- 24) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25

Standard

- Uniform Loads (plf)
Vert: 1-4=-334(F=-300), 5-7=-18
Concentrated Loads (lb)
Vert: 10=-306
- 25) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-334(F=-300), 5-7=-18
Concentrated Loads (lb)
Vert: 12=-306
- 26) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-334(F=-300), 5-7=-18
Concentrated Loads (lb)
Vert: 13=-306
- 27) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-334(F=-300), 5-7=-18
Concentrated Loads (lb)
Vert: 4=-306
- 28) 6th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-334(F=-300), 5-7=-18
Concentrated Loads (lb)
Vert: 2=-306
- 29) 7th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-334(F=-300), 5-7=-18
Concentrated Loads (lb)
Vert: 3=-306



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/dell	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.77	Vert(LL)	-0.05	3-4	>999	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.72	Vert(CT)	-0.19	3-4	>297		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.01	Horz(CT)	-0.00	3	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP						
								Weight: 26 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.1&Btr G

BOT CHORD 2x6 DF SS G

WEBS 2x4 DF Stud/Std G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 5-1-0 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 7-9-12 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

8) Use USP JL26 (With 6-10d nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 4-0-12 to connect truss(es) AE01 (1 ply 2x4 DF) to front face of bottom chord.

9) Fill all nail holes where hanger is in contact with lumber.

10) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

REACTIONS. (lb/size)

4 = 844/0-5-8 (min. 0-1-8)

3 = 1191/Mechanical

Max Horz

4 = -46(LC 4)

Max Uplift

4 = -106(LC 4)

3 = -145(LC 5)

Max Grav

4 = 1016(LC 19)

3 = 1343(LC 21)

LOAD CASE(S)

Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-74, 3-4=-18

Concentrated Loads (lb)

Vert: 6=-797(F) 7=-798(F)

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

TOP CHORD

1-4=-387/62, 2-3=-387/56

- NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Provide adequate drainage to prevent water ponding.

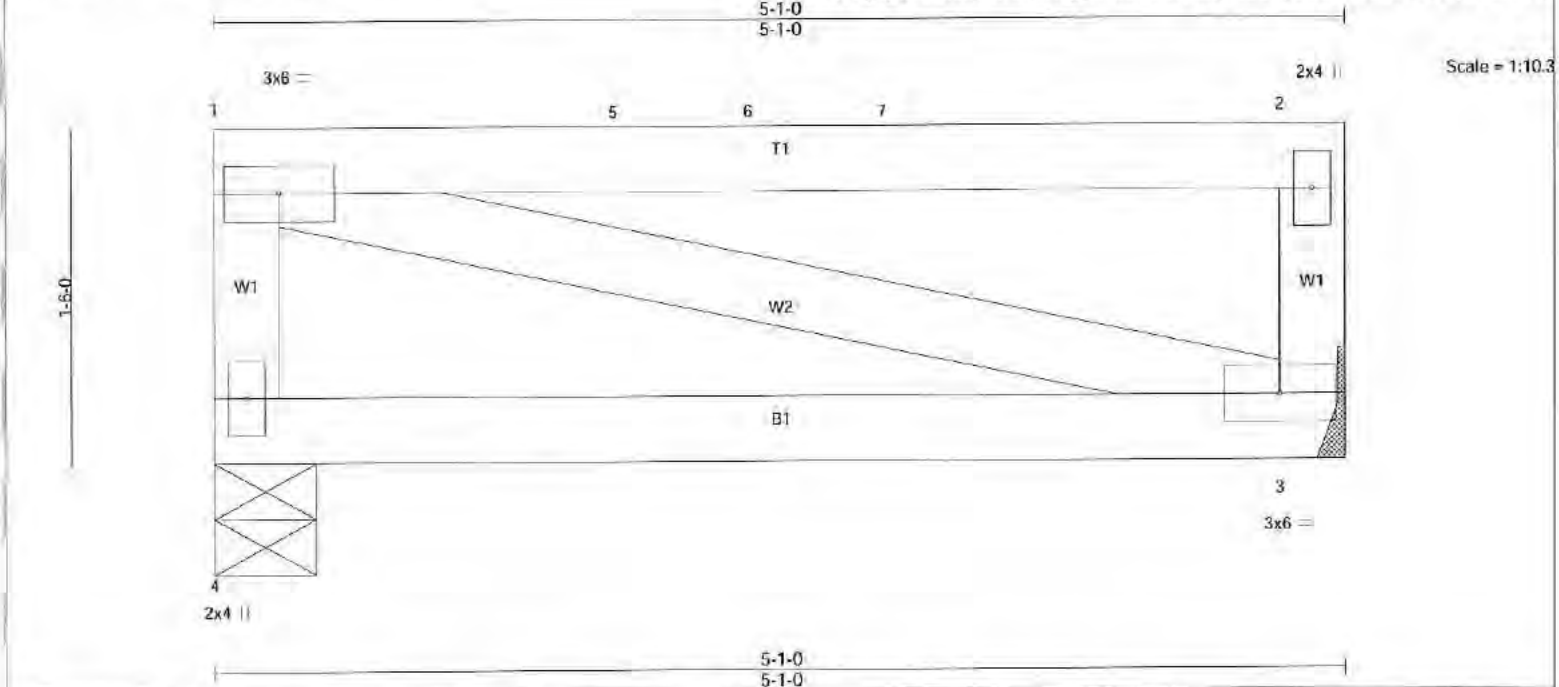
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
-



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.89	Vert(LL)	-0.03	3-4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.22	Vert(CT)	-0.08	3-4	>740	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP						Weight: 22 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

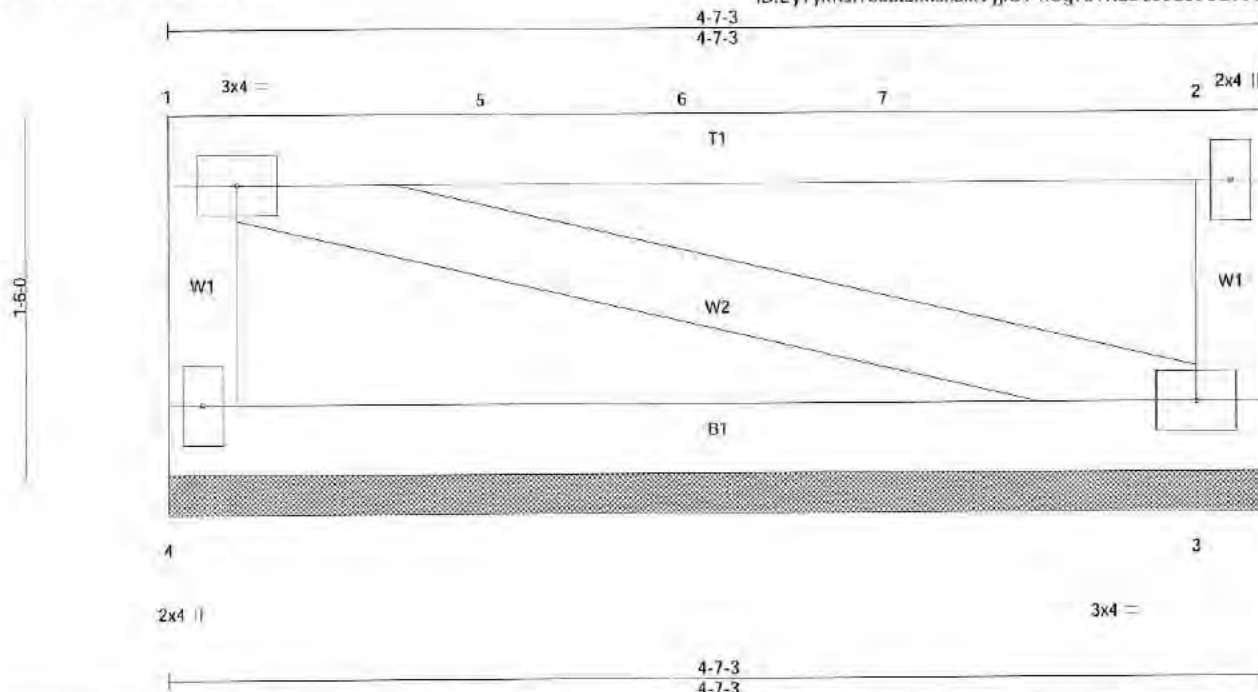
8) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)
Standard

REACTIONS, (lb/size)
4 = 220/0-5-8 (min. 0-1-8)
3 = 220/Mechanical
Max Horz
4 = -50(LC 8)
Max Uplift
4 = -37(LC 8)
3 = -37(LC 9)
Max Grav
4 = 431(LC 23)
3 = 431(LC 25)

FORCES, (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-4=-387/119, 2-3=-387/108

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-11-4 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
2) Provide adequate drainage to prevent water ponding.
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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.77	Vert(LL)	n/a	-	n/a	999	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.17	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-P							
									Weight: 21 lb	FT = 20%

LUMBER.

TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

**BRACING-
TOP CHORD**

Structural wood sheathing directly applied or 4-7-3 cc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 cc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)
Standard

Standard

REACTIONS. (lb/size)

4	=	198/4-7-3 (min. 0-1-8)
3	=	198/4-7-3 (min. 0-1-8)
Max Horz		
4	=	-50(LC 8)
Max Uplift		
4	=	-34(LC 8)
3	=	-34(LC 9)
Max Grav		
4	=	418(LC 23)
3	=	418(LC 25)

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

TOP CHORD
1-4=-379/189, 2-3=-379/174

NOTES.

- 1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDF=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp. C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(s) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 4-5-7 zone; cantilever left and right exposed; end vertical left and right exposed; C: C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) Gable requires continuous bottom chord bearing.
- 4) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) A plate rating reduction of 20% has been applied for the green lumber members.
- 7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 8) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LUMBER-	
TOP CHORD	2x4 DF No.2 G
BOT CHORD	2x4 DF No.1&Bir G
WEBS	2x4 DF No.2 G
OTHERS	2x4 DF Stud/Std G
BRACING-	
TOP CHORD	
Structural wood sheathing directly applied or 3-4-10 oc purlins, except end verticals.	
BOT CHORD	
Rigid ceiling directly applied or 2-11-4 oc bracing.	
WEBS	
1 Row at midpt	1-24, 3-24, 3-14, 6-14, 6-8

REACTIONS. All bearings 18-10-6 except (jt=length) 25=0-5-8, 23=0-3-8.
 (lb) - Max Horz
 25= 159(LC 19)
 Max Uplift
 All uplift 100 lb or less at joint(s) 11, 22, 23 except
 25=-1247(LC 21), 8=-1860(LC 22), 19=-322(LC 21)
 Max Grav
 All reactions 250 lb or less at joint(s) 16 except
 25=2018(LC 20), 8=2044(LC 19), 19=989(LC 20), 14=1093(LC 32), 11=656(LC 33), 22=296(LC 26), 21=516(LC 30),
 20=530(LC 26), 18=507(LC 26), 15=463(LC 27), 13=465(LC 27),
 12=341(LC 28), 10=323(LC 28), 9=562(LC 27), 23=618(LC 30)

NOTES-

- 1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 3) Provide adequate drainage to prevent water ponding.
- 4) Gable studs spaced at 14-0 o.c.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * 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.
- 7) A plate rating reduction of 20% has been applied for the green lumber members.
- 8) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 9) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 10) This truss has been designed for a total seismic drag load of 510 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 6-6-0 to 18-0-0, 22-0-12 to 25-0-12 (or 881.5 plf.
- 11) Use USP JL24 (With 4-10d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max, starting at 2-5-2 from the left end to 23-2-8 to connect truss(es) AK09 (1 ply 2x4 DF) to back face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.
- 13) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(Ct) deflection per ANSI/TPI 1.
- 14) In the LOAD CASE(S) section, load is applied as front (F) or back (B).

LOAD CASE(S)
Standard
7) Dead + Roof Live (balanced): Lumber
Uniform Loads (plf)
Vert: 1-7 = 74, 8-25 = 18
Concentrated Loads (lb)
Vert: 17 = 261(B) 14 = 261(B) 22 = 261(B)
13 = 261(B) 10 = 261(B) 23 = 261(B) 6 = 261(B)



LUMBER- TOP CHORD 2x4 DF No.2 G BOT CHORD 2x4 DF No.1&Btr G WEBS 2x4 DF No.2 G OTHERS 2x4 DF Stud/Std G BRACING- TOP CHORD Structural wood sheathing directly applied or 3-3-7 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 3-0-7 oc bracing. WEBS 1 Row at midpt 1-23, 3-23, 3-14, 6-14, 6-8 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	BOT CHORD 24-60=-255/300, 60-61=-255/300, 23-61=-255/300, 23-62=-4262/4178, 22-62=-4262/4178, 21-22=-4262/4178, 20-21=-2932/2848, 19-20=-1796/1712, 18-19=-1114/1030, 17-18=-534/50, 16-17=-834/750, 15-16=-834/750, 14-15=-834/750, 14-63=-4577/4583, 13-63=-4577/4583, 12-13=-3721/3727, 12-64=-2585/2591, 11-64=-2072/2078, 10-11=-1358/1364, 9-10=-1198/1204, 9-65=-1710/1716, 8-65=-3115/3334 WEBS 1-23=-2126/2892, 2-23=-469/134, 3-23=-2073/2998, 3-19=-1153/365, 3-14=-3586/3549, 5-14=-467/116, 6-14=-3109/2961, 6-11=-750/535, 6-8=-4067/4078
--	---

REACTIONS. All bearings 18-5-0 except (jt=length) 24=0-5-8.
(lb) - Max Horz
24=267(LC 22)
Max Uplift
All uplift 100 lb or less at joint(s) 22, 20, 18, 10
except 24=1107(LC 21), 8=2313(LC 22), 19=404(LC 21),
14=153(LC 4), 11=464(LC 21)
Max Grav
All reactions 250 lb or less at joint(s) 16 except
24=1896(LC 20), 8=2495(LC 19), 19=1088(LC 20), 14=1090(LC
32), 11=876(LC 20), 22=730(LC 30), 22=434(LC 1), 21=453(LC
26), 20=561(LC 30), 18=511(LC 30), 15=463(LC 30),
13=465(LC 27), 12=341(LC 28), 10=324(LC 28), 9=562(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-24=1755/1188, 1-55=2389/1720, 2-55=1125/457,
2-56=2209/558, 3-56=3500/2832, 3-57=1749/1864,
4-57=486/560, 4-5=692/806, 5-58=1905/1059,
6-58=3218/3333, 6-59=2523/2508, 7-59=1015/1168,
7-8=378/52
BOT CHORD
24-60=255/300, 60-61=255/300, 23-61=255/300,
23-62=4262/4178, 22-62=4262/4178, 21-22=4262/4178,
20-21=2932/2848, 19-20=1796/1712, 18-19=1114/1030,
17-18=534/50, 16-17=834/750, 15-16=834/750,
14-15=834/750, 14-63=4577/4583, 13-63=4577/4583,
12-13=3721/3727, 12-64=2585/2591, 11-64=2072/2078,
10-11=1358/1364, 9-10=1198/1204, 9-65=1710/1716,
8-65=3115/3334

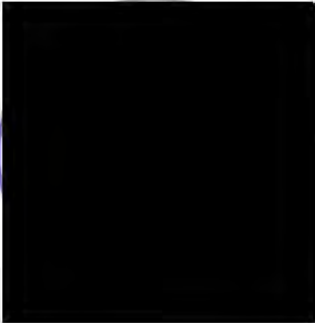
NOTES:-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf;
BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone;
cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60
plate grip DOL=1.60
2) Truss designed for wind loads 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.
3) Provide adequate drainage to prevent water ponding.
4) Gable studs spaced at 1-4-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent
with any other live loads.
6) * 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.
7) A plate rating reduction of 20% has been applied to the bottom chord.
8) This truss is designed in accordance with the provisions of the International Building
Code section 2306.1 and referenced standards.
9) This truss has been designed for a maximum dead load of 6.0lb dead located at all mid panels and
nonconcurrent with any other live loads.
10) This truss has been designed for a maximum bottom chord live load of 10.0psf and
DOL=(1.33) Plate grip DOL=(1.33) Corrosion protection per ANSI/TPI 1.
11) Use USP JL24 (With 4-10d nails into wall studs) for end connections. (s) or
equivalent spaced at 2-0-0 oc max. standard (to
connect truss(es) AK09 (1 ply 2x4 DF) to wall studs)
12) Fill all nail holes where hanger is in place.
13) This truss is designed for a creep deflection of 1/16" per foot of span.
Vert(CT) deflection per ANSI/TPI 1.

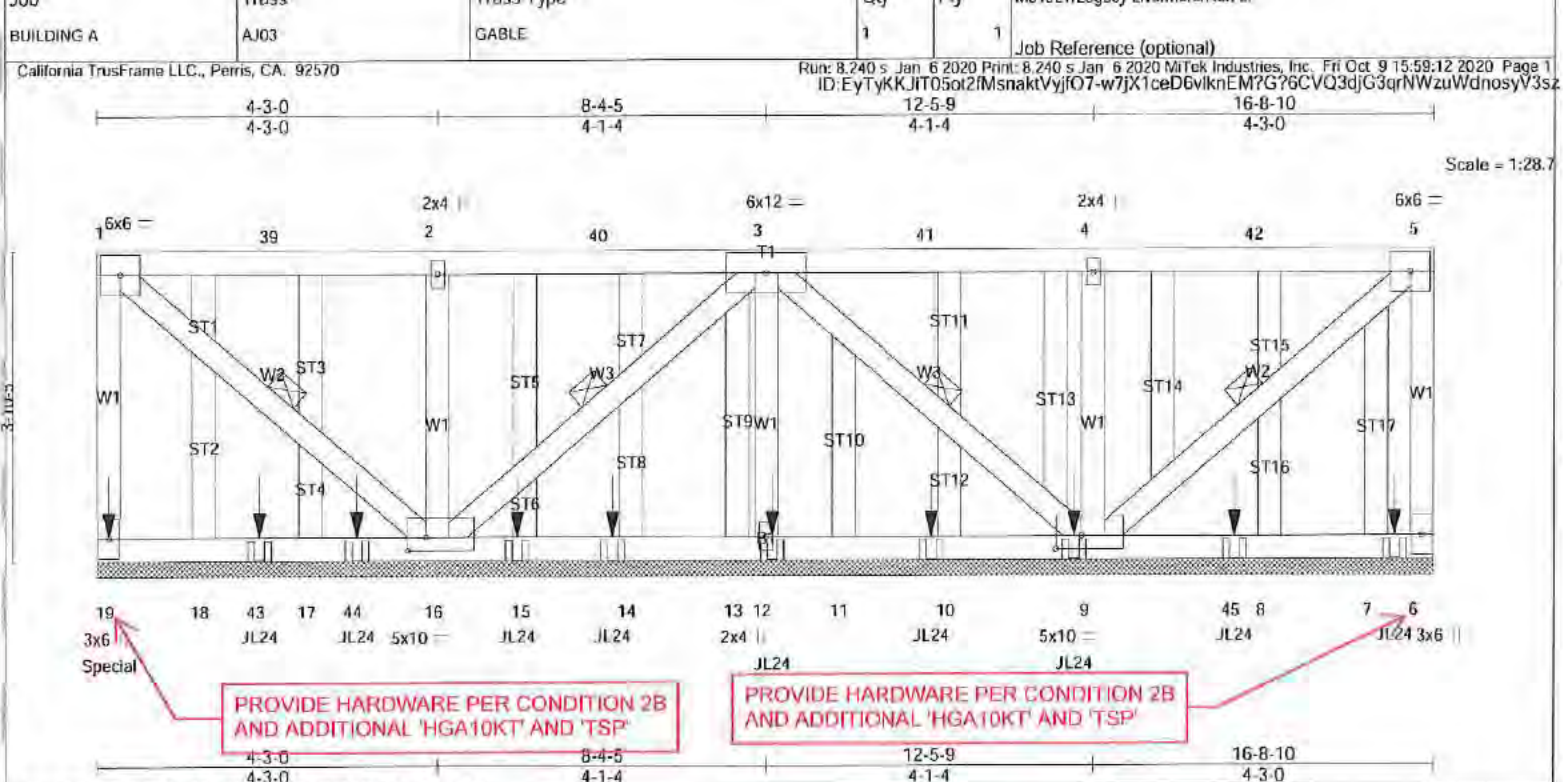
NOTES-

14) 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
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-7=-74, 8-24=-18
Concentrated Loads (lb)
Vert: 17=-261(F) 14=-261(F) 22=-261(F) 21=-261(F) 20=-261(F) 15=-261(F)
13=-261(F) 10=-261(F) 60=-261(F) 61=-261(F) 62=-261(F) 64=-261(F) 65=-261(F)





LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.70	Vert(LL)	n/a	-	n/a	MT20	220/195
TCDL 17.0	Plate Grip DOL 1.25	BC 0.38	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.90	Horz(CT)	0.01	9	n/a		
BCDL 9.0	Rep Stress Incr NO	Matrix SH						
	Code IBC2015/TPI2014							
							Weight: 139 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G *Except*
W3: 2x4 DF No.2 G
OTHERS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 4-0-14 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 4-4-2 oc bracing.
WEBS
1 Row at midpt 1-16, 3-16, 3-9, 5-9

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 16-8-10.
(lb) - Max Horz
19=-147(LC 4)
Max Uplift
All uplift 100 lb or less at joint(s) except 19=-1448(LC 21), 6=-1568(LC 22), 16=-343(LC 21), 9=-248(LC 22)
Max Grav
All reactions 250 lb or less at joint(s) 18, 13, 11 except
19=1818(LC 20), 6=1692(LC 19), 16=781(LC 20), 12=776(LC 30),
9=1104(LC 31), 17=700(LC 24), 15=446(LC 24), 14=516(LC 25),
10=473(LC 27), 8=539(LC 27), 7=352(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-19=-1611/1535, 1-39=-1799/1605, 2-39=748/768,
2-40=493/508, 3-40=-2378/2393, 3-41=-2378/2393,
4-41=493/508, 4-42=-749/768, 5-42=-1800/1606,
5-6=-1610/1535
BOT CHORD
18-19=-533/600, 18-43=-949/956, 17-43=1273/1280,
17-44=-1565/1572, 16-44=-2082/2089, 15-16=-2085/2110,
14-15=-1465/1491, 13-14=-853/879, 11-12=-487/513,
10-11=-1099/1125, 9-10=-2085/2111, 9-45=-2081/2088,
8-45=-1182/1189, 7-8=-958/966, 6-7=-278/257
WEBS
1-16=-2397/2368, 2-16=-458/108, 3-16=-3192/3138,
3-12=-295/82, 3-9=-3192/3138, 4-9=-458/109, 5-9=-2397/2367

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) 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.
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * 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.
8) A plate rating reduction of 20% has been applied for the green lumber members.
9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
11) This truss has been designed for a total seismic drag load of 510 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 16-8-10 for 510.0 plf.
12) Use USP JL24 (With 4-10d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-6 from the left end to 16-2-12 to connect truss(es) AK09 (1 ply 2x4 DF) to back face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.
14) Hanger(s) or other connection device(s) is the response to concentrated load(s) 489 lb down at 0-0-0 such connection device(s) is the response to the load.
15) This truss is designed for a creep factor of 1.0.
16) In the LOAD CASE(S) section, load front (F) or back (B).

LOAD CASE(S)
Standard
1) Dead + Roof Live (balanced): Lumber Uniform Loads (plf)
Vert: 1-5=-74, 6-19=-18
Concentrated Loads (lb)

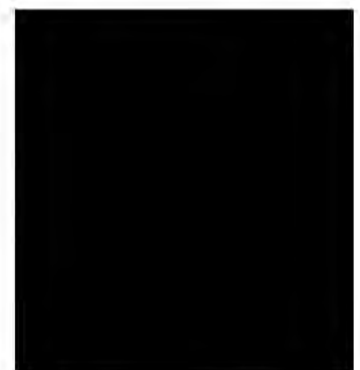
LOAD CASE(S)

Standard

Concentrated Loads (lb)

Vert: 19=-271(B) 12=-261(B) 9=-261(B) 15=-261(B) 14=-261(B) 10=-261(B) 7=-267(B)

43=-261(B) 44=-261(B) 45=-261(B)



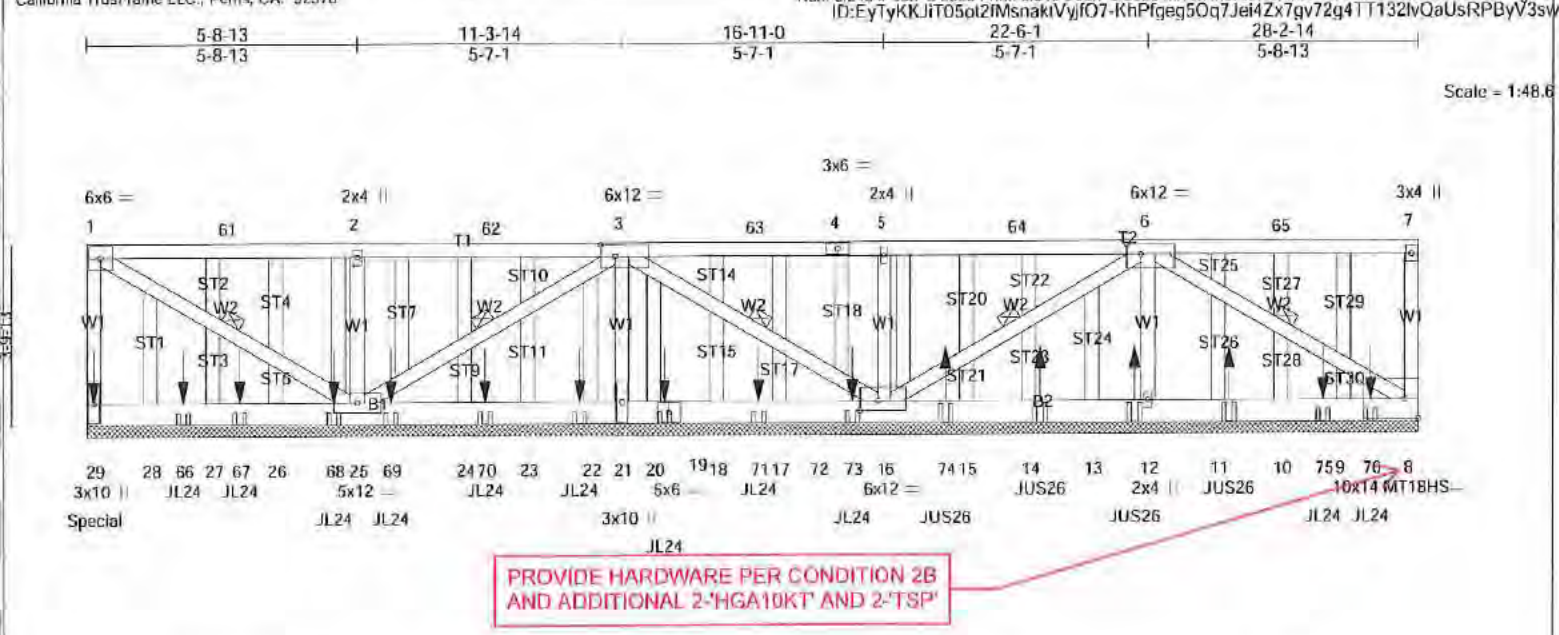


Plate Offsets (X,Y)--		[3:0-3-8,0-3-0], [6:0-3-8,0-2-8], [16:0-4-8,0-2-8]							
LOADING (psf)		SPACING--		CSI.		DEFL.		PLATES	
TCLL	20.0	2-0-0		TC 0.86		in (loc) l/defl L/d		MT20 220/195	
TCDL	17.0	Plate Grip DOL 1.25		BC 0.60		Vert(LL) n/a - n/a 999		MT18HS 220/195	
BCLL	0.0 *	Lumber DOL 1.25		WB 0.86		Vert(CT) n/a - n/a 999		Weight: 236 lb FT = 20%	
BCDL	9.0	Rep Stress Incr NO		Matrix-SH		Horz(CT) 0.06 11 n/a n/a			
		Code IBC2015/TP12014							

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x6 DF SS G
WEBS 2x4 DF No.2 G
OTHERS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 3-0-11 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 2-10-13 oc bracing.

WEBS
1 Row at midpt 1-25, 3-25, 3-16, 6-16, 6-8

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 28-2-14.
(lb) - Max Horz
29=141(LC 4)
Max Uplift
All uplift 100 lb or less at joint(s) 28, 27, 13 except
29=1157(LC 21), 8=2393(LC 22), 25=162(LC 9),
21=1073(LC 21), 16=342(LC 22), 12=901(LC 19),
15=690(LC 34), 14=550(LC 34), 11=708(LC 34)
Max Grav
All reactions 250 lb or less at joint(s) 28, 23, 18, 15, 14,
13, 11, 10 except 29=1573(LC 20), 8=2660(LC 19), 25=1323(LC 30),
21=1343(LC 20), 16=874(LC 32), 12=639(LC 22),
27=645(LC 24), 26=279(LC 25), 24=534(LC 25), 22=454(LC 25),
20=464(LC 25), 17=597(LC 27), 9=915(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-29=1360/1246, 1-61=2095/2105, 2-61=748/758,
2-62=1033/1043, 3-62=3599/3608, 3-63=1779/1790,
4-63=354/348, 4-5=1063/1074, 5-64=2444/1359,
6-64=3914/3925, 6-65=2841/2823, 7-65=1145/1317,
7-8=388/58
BOT CHORD
25-69=3807/3842, 24-69=3807/3842, 24-70=3807/3842,
23-70=3807/3842, 22-23=3807/3842, 21-22=3807/3842,
20-21=3807/3842, 19-20=3807/3842, 18-19=3807/3842,
18-71=3807/3842, 17-71=3807/3842, 17-72=3807/3842,
72-73=2973/3008, 16-73=2973/3008, 16-74=8421/8471,
15-74=7134/7184, 14-15=6639/6690, 13-14=5133/5184,
12-13=3495/3545, 11-12=2305/2355, 10-11=853/904,

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf;
BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone;
cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60
plate grip DOL=1.60
2) 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.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 1-4-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent
with any other live loads.
8) * This truss has been designed for a live load in all areas where a rectangle 3-6-0 tall by 2-0-0
any other members.
9) A plate rating reduction of 20% has been applied.
10) This truss is designed in accordance with section 2306.1 and referenced standard.
11) This truss has been designed for a 10.0 psf dead load located at all mid panels and
6.0lb dead located at all mid panels and nonconcurrent with any other live loads.
12) This truss has been designed for a 10.0 psf live load nonconcurrent with any other live loads.
DOL=(1.33) Plate grip DOL=(1.33) Conn
chord from 15-5-14 to 28-2-14 for 1129.6

Continued on page 2

NOTES-

13) Use USP JL24 (With 4-10d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 10-0-0 oc max. starting at 2-0-6 from the left end to 27-2-12 to connect truss(es) AK09 (1 ply 2x4 DF), AK08 (1 ply 2x4 DF), AK07 (1 ply 2x4 DF) to front face of bottom chord.

14) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 18-2-12 from the left end to 24-2-12 to connect truss(es) AA27 (1 ply 2x4 DF) to front face of bottom chord.

15) Fill all nail holes where hanger is in contact with lumber.

16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 489 lb down and 11 lb up at 0-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

17) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

18) 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

1) Dead + Roof Live (balanced); Lumber Increase=1.25, Plate Increase=1.25

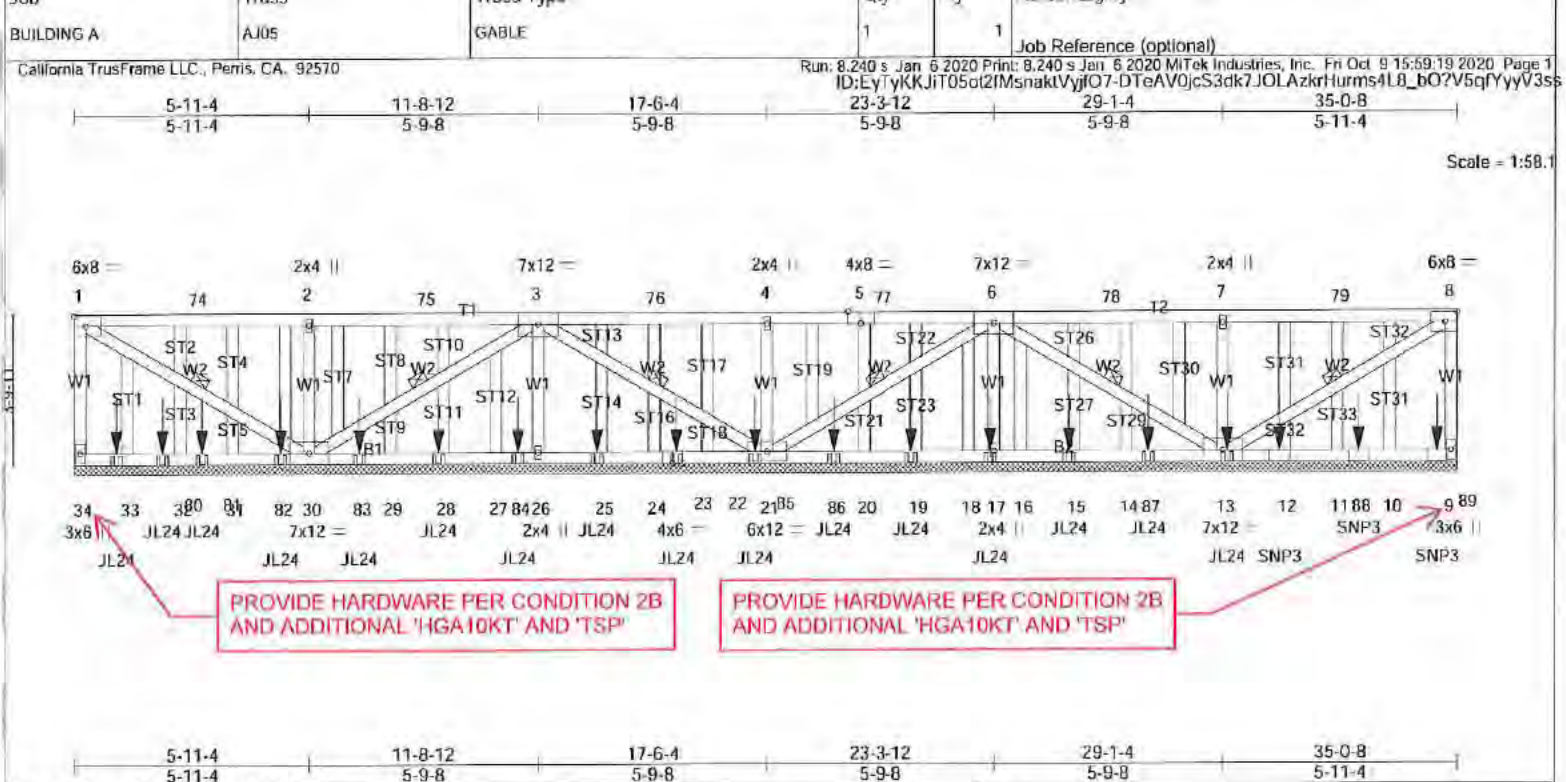
Uniform Loads (plf)

Vert: 1-7=-74, 8-29=-18

Concentrated Loads (lb)

Vert: 29=271(F) 12=367(F) 22=-261(F) 20=-261(F) 14=367(F) 11=367(F) 66=-261(F) 67=-261(F) 68=-261(F) 69=-261(F) 70=-261(F) 71=-261(F) 73=-261(F) 74=367(F) 75=-367(F) 76=-368(F)





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 0.90	Vert(LI)	n/a	-	n/a	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.79	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.77	Horz(CT)	0.01	21	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-SH						
								Weight: 265 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF No.2 G
 OTHERS 2x4 DF Stud/Stid G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 3-5-8 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 2-11-10 oc bracing.
 WEBS
 1 Row at midpt 1-30, 3-30, 3-21, 6-21, 6-13, 8-13

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 35-0-8.
 (lb) - Max Horz
 34=-144(LC 4)
 Max Uplift:
 All uplift 100 lb or less at joint(s) 26 except
 34=-1679(LC 21), 9=-1695(LC 22), 17=-121(LC 21)
 Max Grav
 All reactions 250 lb or less at joint(s) 18, 16 except
 34=1802(LC 20), 9=2052(LC 19), 30=1199(LC 31), 26=765(LC 32), 21=1235(LC 33), 17=916(LC 34), 13=1289(LC 35),
 33=727(LC 25), 32=798(LC 24), 31=413(LC 25), 29=445(LC 25),
 28=414(LC 24), 27=354(LC 25), 25=470(LC 25), 24=463(LC 24),
 22=266(LC 23), 20=547(LC 23), 19=409(LC 29), 15=418(LC 29),
 14=610(LC 28), 12=407(LC 28), 11=359(LC 29), 10=409(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 1-34=-1764/1647, 1-74=-2789/2507, 2-74=-1312/1325,
 2-75=-450/463, 3-75=-3108/3122, 3-76=-2755/2775,
 4-76=-1278/1298, 4-5=-480/500, 5-77=-1661/1681,
 6-77=-3138/3158, 6-78=-2925/2937, 7-78=-267/279,
 7-79=-1497/1509, 8-79=-2974/2690, 8-9=-1875/1759
 BOT CHORD
 33-34=-486/574, 33-80=-1084/1101, 32-80=-1351/1368,
 32-81=-1680/1697, 31-81=-2145/2162, 31-82=-2871/2888,
 30-82=-3299/3317, 30-83=-2427/2453, 29-83=-1664/1690,
 28-29=-1199/1225, 27-28=-404/430, 27-84=-699/725,
 26-84=-699/725, 25-26=-699/725, 24-25=-699/725,
 23-24=-699/725, 22-23=-699/725, 22-85=-790/816,
 21-85=-1605/1631, 21-86=-4035/4061, 20-86=-3023/3049,
 19-20=-2558/2584, 18-19=-1763/1790, 17-18=-969/996,
 16-17=-584/611, 15-16=-600/626, 14-15=-1394/1420,
 14-87=-1723/1749, 13-87=-2846/2872, 12-13=-3428/3449,
 11-12=-2497/2518, 11-88=-1703/1723, 10-88=-1381/1401,
 10-89=-909/929

WEBS
 1-30=-3274/3239, 2-30=-520/149, 3-30=-3494/3449,
 3-26=-417/132, 3-21=-3441/3387, 4-21=-505/138,
 6-21=-3247/3193, 6-17=-511/255, 6-13=-3921/3876,
 7-13=-520/150, 8-13=-3490/3453

NOTES-
 1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 2) 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.
 3) Provide adequate drainage to prevent water accumulation.
 4) Gable requires continuous bottom chord.
 5) Gable studs spaced at 1-4-0 oc.
 6) This truss has been designed for dead and live loads only.
 7) * This truss has been designed for areas where a rectangle 3-6-0 tall by 1-4-0 wide is required by code.
 8) A plate rating reduction of 20% has been applied.
 9) This truss is designed in accordance with section 2306.1 and referenced standards.
 10) This truss has been designed for 6.0lb dead located at all mid panels and nonconcurrent with any other live loads.
 11) This truss has been designed for 1.33 Plate grip DOL=(1.33) Plate grip DOL=(1.33) Gable end zone from 0-0-0 to 11-0-0, 16-0-8 to 35-0-8 and 35-0-8 to 35-0-8.

NOTES-

- 12) Use USP JL24 (With 4-10d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-0-12 from the left end to 29-2-10 to connect truss(es) AK07 (1 ply 2x4 DF) to back face of bottom chord.
- 13) Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 30-6-8 from the left end to 34-6-8 to connect truss(es) AK06 (1 ply 2x4 DF) to back face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) A minimum of (6) 8d x 1-1/2" nails are required into each member for SNP3 installation. All nailing is required in face of supported chords. For sloped applications, flanges may protrude above or below truss chords. Bending of extended flanges is permitted.
- 16) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
- 17) 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
- 1) Dead + Roof Live (balanced); Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-8=-74, 9-34=-18
- Concentrated Loads (lb)
- Vert: 23=-367(B) 17=-367(B) 13=-367(B) 33=-368(B) 28=-367(B) 25=-367(B)
19=-367(B) 15=-367(B) 12=-284(B) 80=-367(B) 81=-367(B) 82=-367(B) 83=-367(B)
84=-367(B) 85=-367(B) 86=-367(B) 87=-367(B) 88=-284(B) 89=-289(B)



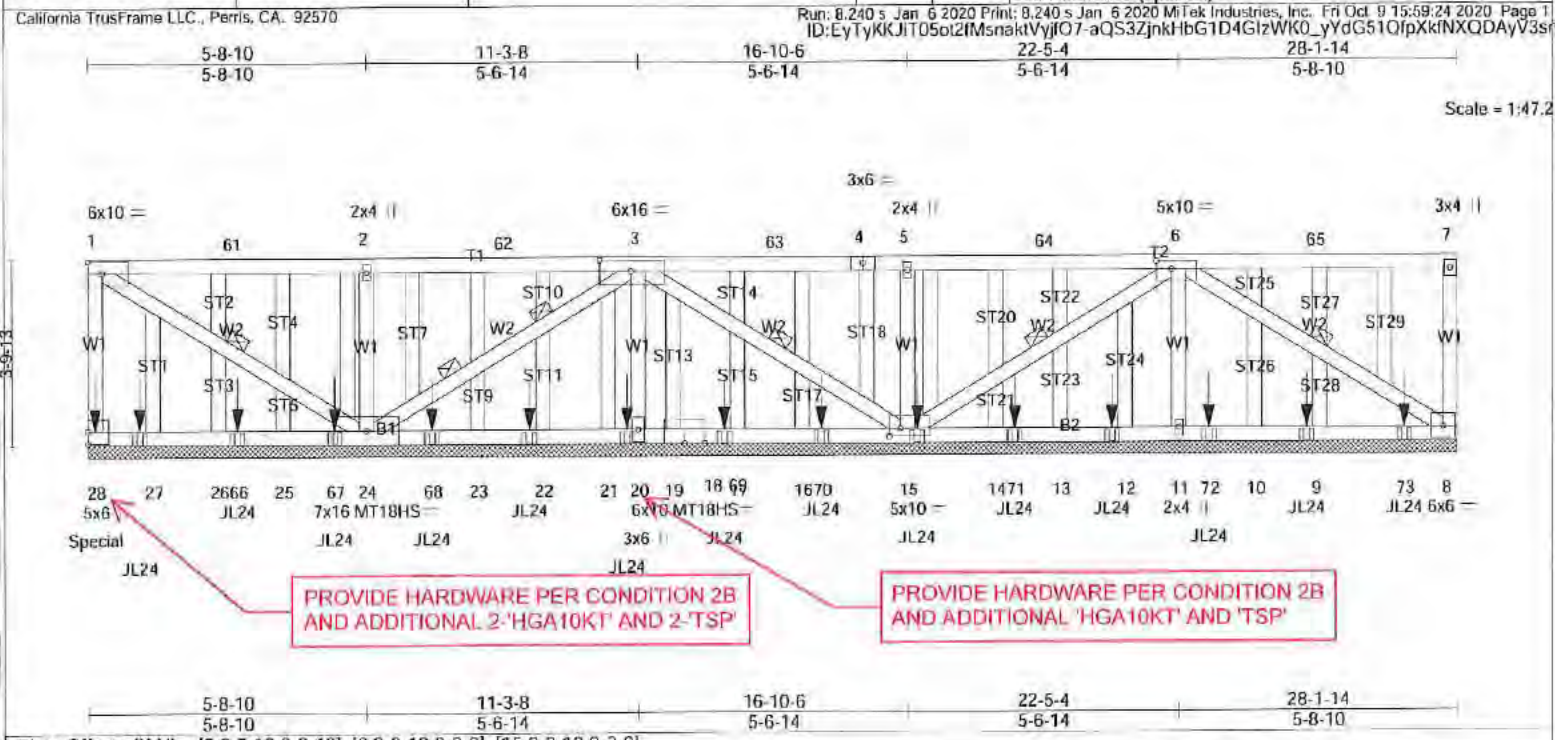


Plate Offsets (X,Y)-- [3:0-7-12,0-2-12], [6:0-3-12,0-2-0], [15:0-2-12,0-2-0]															
LOADING (psf)		SPACING-- 2-0-0		CSI.		DEFL.		in (loc)		l/defl		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC. 0.85		Vert(LL)		n/a	-	n/a		999		MT20 220/195	
TCDL	17.0	Lumber DOL 1.25		BC 0.84		Vert(CT)		n/a	-	n/a		999		MT18HS 220/195	
BCLL	0.0 *	Rep Stress Incr NO		WB 0.90		Horz(CT)		0.09	8	n/a		n/a			
BCDL	9.0	Code IBC2015/TPI2014		Matrix-SH											
												Weight: 219 lb FT = 20%			

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF No.2 G
OTHERS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 2-11-4 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 2-6-10 oc bracing.
WEBS
1 Row at midpt 1-24, 3-15, 6-15, 6-8
2 Rows at 1/3 pts 3-24

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 28-1-14.
(lb) - Max Horz
28=145(LC 4)
Max Uplift
All uplift 100 lb or less at joint(s) except 28=2112(LC 21), 8=814(LC 22), 24=307(LC 21), 20=1592(LC 22), 15=338(LC 21), 11=532(LC 22)
Max Grav
All reactions 250 lb or less at joint(s) 21, 19, 10 except
28=2666(LC 20), 8=1227(LC 19), 24=1209(LC 30), 20=2201(LC 19), 15=1198(LC 20), 11=1209(LC 19), 27=517(LC 25), 26=446(LC 24), 25=376(LC 25), 23=448(LC 25), 22=435(LC 24), 17=449(LC 27), 16=617(LC 28), 14=416(LC 28), 13=259(LC 27), 12=388(LC 28), 9=908(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-28=2341/2229, 1-61=3595/3324, 2-61=2174/2187,
2-62=753/766, 3-62=2080/2092, 3-63=4230/4245,
4-63=2765/2824, 4-5=1672/1687, 5-64=1388/1403,
6-64=1443/1458, 6-65=2852/2825, 7-65=1193/1289,
7-8=389/57
BOT CHORD
27-28=1327/1343, 26-27=2828/2845, 26-66=3275/3291,
25-66=4330/4346, 25-67=5527/5543, 24-67=6266/6282,
24-68=1900/1929, 23-68=647/677, 22-23=2149/2178,
21-22=3651/3680, 20-21=4354/4384, 19-20=5152/5182,
18-19=5303/5332, 18-69=5997/6026, 17-69=5997/6026,
16-17=5997/6026, 16-70=5997/6026, 15-70=5997/6026,
14-71=1505/1552, 14-72=1505/1552, 13-71=1505/1552,
12-13=1505/1552, 11-12=1505/1552, 11-72=1505/1552,
10-72=1505/1552, 9-10=1505/1552, 9-73=1505/1552,
8-73=1505/1552

NOTES-

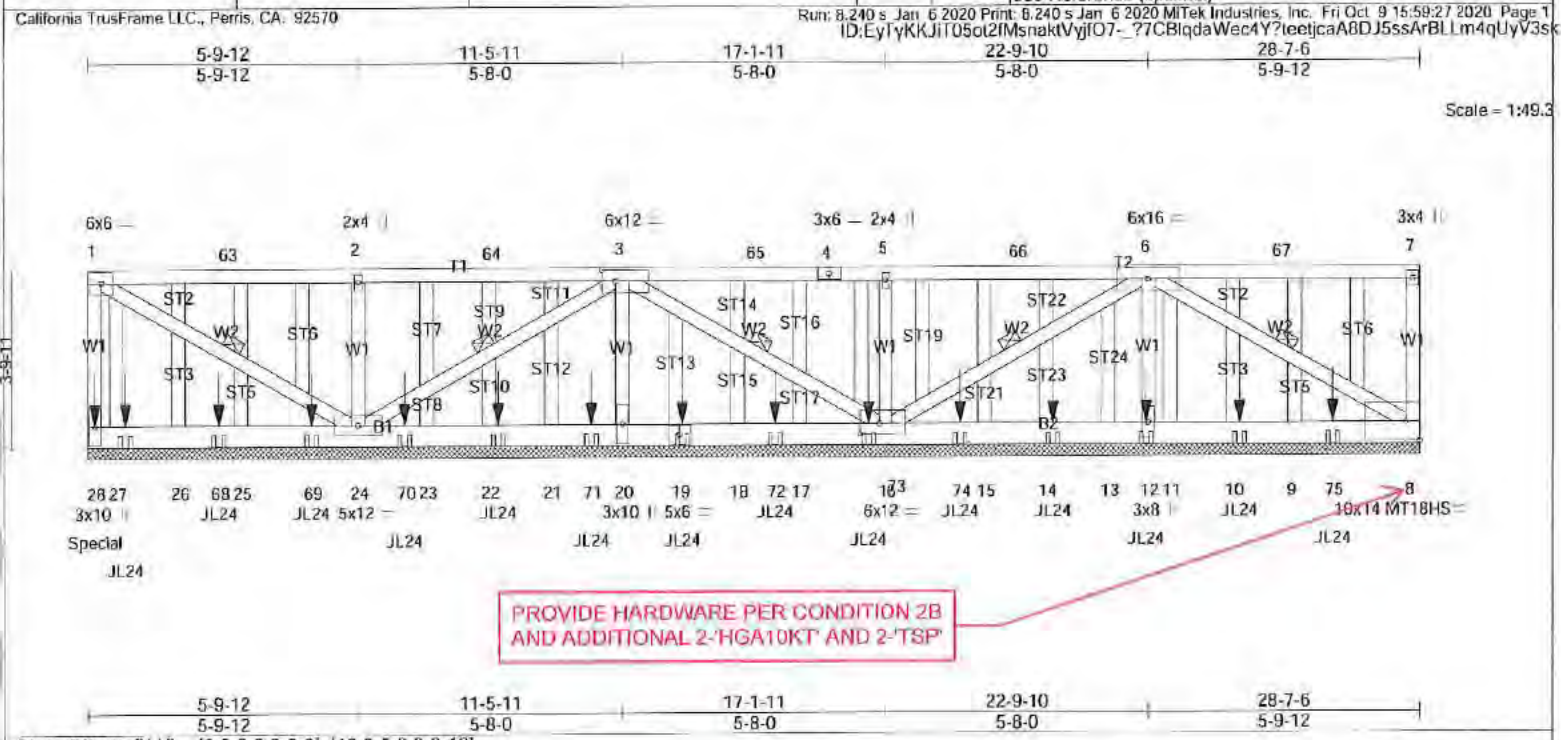
- 13) Use USP JL24 (With 4-10d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 2'-0" oc max, starting at 1'-0" from the left end to 27'-0" to connect truss(es) AK07 (1 ply 2x4 DF) to front face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 561 lb down at 0'-1" on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
- 17) 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

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-7=-74, 8-28=-18
- Concentrated Loads (lb)
- Vert: 28=-377(F) 20=-367(F) 15=-367(F) 27=-368(F) 22=-367(F) 17=-367(F)
12=-367(F) 9=-367(F) 66=-367(F) 67=-367(F) 68=-367(F) 70=-367(F) 71=-367(F)
72=-367(F) 73=-367(F)





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 0.87	Vent(LL)	n/a	-	n/a	999	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.73	Vent(CT)	n/a	-	n/a	999	MT18HS	220/195
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.93	Horz(CT)	0.06	10	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-SH						Weight: 237 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x6 DF SS G
WEBS 2x4 DF No.2 G
OTHERS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 2-11-14 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 2-7-6 oc bracing.
WEBS
1 Row at midpt 1-24, 3-24, 3-16, 6-16, 6-8

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

BOT CHORD
24-70=-3739/3774, 23-70=-3739/3774, 22-23=-3739/3774,
21-22=-3739/3774, 21-71=-3739/3774, 20-71=-3739/3774,
19-20=-3739/3774, 18-19=-3739/3774, 18-72=-3739/3774,
17-72=-3739/3774, 17-73=-3739/3774, 16-73=-3739/3774,
16-74=-10103/10154, 15-74=-8046/8097, 14-15=-7385/7436,
13-14=-5523/5575, 12-13=-4001/4052, 11-12=-2914/2966,
10-11=-2309/2360, 9-10=-1037/1088, 9-75=-2067/2119,
8-75=-3916/4287
WEBS
1-24=-2482/2450, 2-24=-515/146, 3-24=-2025/1973,
3-20=-1346/1098, 3-16=-4329/4276, 5-16=-495/131,
6-16=-3196/3124, 6-12=-1110/832, 6-8=-4972/4935

REACTIONS. All bearings 28-7-6.
(lb) - Max Horz
28=-141(LC 34)
Max Uplift
All uplift 100 lb or less at joint(s) except 28=-1161(LC 21), 8=-2501(LC 22), 20=-933(LC 21), 16=-306(LC 22), 12=-726(LC 21)
Max Grav
All reactions 250 lb or less at joint(s) 11, 13, 21, 26 except 28=1630(LC 20), 8=2751(LC 19), 24=1117(LC 30), 20=1621(LC 20), 16=1118(LC 32), 12=1274(LC 20), 9=585(LC 27), 10=331(LC 28), 14=416(LC 28), 15=479(LC 27), 17=344(LC 27), 18=524(LC 28), 22=441(LC 24), 23=325(LC 25), 25=632(LC 25), 27=479(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-28=-1349/1233, 1-63=-2112/2122, 2-63=-770/779,
2-64=-1059/1068, 3-64=-3659/3668, 3-65=-1713/1723,
4-65=-268/262, 4-5=-1168/1179, 5-66=-2565/1468,
6-66=-4057/4066, 6-67=-2880/2880, 7-67=-1162/1335,
7-8=-389/58
BOT CHORD
24-70=-3739/3774, 23-70=-3739/3774, 22-23=-3739/3774,
21-22=-3739/3774, 21-71=-3739/3774, 20-71=-3739/3774,
19-20=-3739/3774, 18-19=-3739/3774, 18-72=-3739/3774,
17-72=-3739/3774, 17-73=-3739/3774, 16-73=-3739/3774,
16-74=-10103/10154, 15-74=-8046/8097, 14-15=-7385/7436,
13-14=-5523/5575, 12-13=-4001/4052, 11-12=-2914/2966,
10-11=-2309/2360, 9-10=-1037/1088, 9-75=-2067/2119,

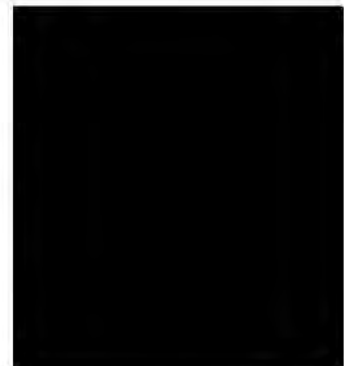
NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCCL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads 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.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 1-4-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide is applied and any other members.
9) A plate rating reduction of 20% has been applied.
10) This truss is designed in accordance with section 2306.1 and referenced standards.
11) This truss has been designed for a 6.0lb dead located at all mid panels and nonconcurrent with any other live loads.
12) This truss has been designed for a DOL=(1.33) Plate grip DOL=(1.33) Co
chord from 17-1-6 to 28-7-6 for 1269.0
13) Use USP JL24 (With 4-10d nails in
equivalent spaced at 2-0-0 oc max. sta
connect truss(es) AK05 (1 ply 2x4 DF)
14) Fill all nail holes where hanger is in contact with member.

NOTES-

- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 501 lb down at 0-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
- 17) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

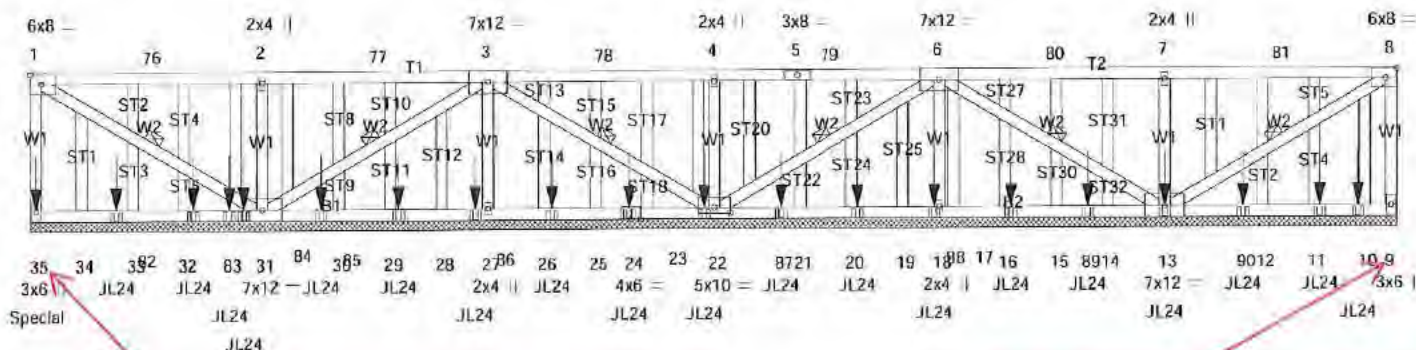
LOAD CASE(S)

- Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-7=-74, 8-28=-18
- Concentrated Loads (lb)
- Vert: 28=-290(B) 12=-284(B) 10=-284(B) 14=-284(B) 19=-284(B) 22=-284(B)
- 27=-287(B) 68=-284(B) 69=-284(B) 70=-284(B) 71=-284(B) 72=-284(B) 73=-284(B)
- 74=-284(B) 75=-284(B)



6-0-3 11-10-9 17-9-0 23-7-7 29-5-13 35-6-0
6-0-3 5-10-7 5-10-7 5-10-7 5-10-7 6-0-3

Scale = 1:59.6



PROVIDE HARDWARE PER CONDITION 2B
AND ADDITIONAL 'HGA10KT' AND 'TSP'

PROVIDE HARDWARE PER CONDITION 2B
AND ADDITIONAL 'HGA10KT' AND 'TSP'

6-0-3 11-10-9 17-9-0 23-7-7 29-5-13 35-6-0
6-0-3 5-10-7 5-10-7 5-10-7 5-10-7 6-0-3

Plate Offsets (X,Y)-- [22:0-5:0,0-1:12]

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 0.91	Vert(LL)	n/a	-	n/a	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.86	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.84	Horz(CT)	0.04	22	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-SH						
								Weight: 277 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF No.2 G
OTHERS 2x4 DF Stud/Std G

BRACING-

TOP CHORD
Structural wood sheathing directly applied or 3-4-12 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 2-11-1 oc bracing.
WEBS
1 Row at midpt 1-31, 3-31, 3-22, 6-22, 6-13, 8-13

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 35-6-0.

(lb) - Max Horz

35=174(LC 19)

Max Uplift

All uplift 100 lb or less at joint(s) except 35=1770(LC

21), 9=1861(LC 22), 27=488(LC 22), 18=341(LC 21),

17=117(LC 28)

Max Grav

All reactions 250 lb or less at joint(s) 34, 28, 25, 19

except 35=2204(LC 20), 9=1996(LC 19), 31=1487(LC 31),

27=1039(LC 19), 22=1153(LC 33), 18=895(LC 20), 13=1149(LC

35), 33=280(LC 24), 32=871(LC 25), 30=374(LC 25),

29=440(LC 24), 26=423(LC 25), 23=360(LC 25), 21=556(LC 23),

20=361(LC 23), 16=468(LC 28), 15=263(LC 29), 14=325(LC 28),

12=572(LC 28), 11=382(LC 29), 10=562(LC 28)

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

TOP CHORD

1-35=1967/1848, 1-76=3117/2831, 2-76=1621/1634,

3-77=2858/2871, 3-78=3072/3092, 4-78=1576/1596,

5-79=1402/1422, 6-79=2898/2919, 6-80=2941/2954,

7-80=248/261, 7-81=1538/1551, 8-81=3034/2748,

8-9=1915/1797

BOT CHORD

34-35=902/1003, 34-82=1615/1633, 33-82=1923/1940,

32-33=2861/2878, 32-83=3681/3698, 83-84=3681/3698,

31-84=4277/4294, 31-85=2357/2383, 30-85=1283/1309,

29-30=961/987, 28-29=895/921, 28-86=1510/1536,

27-86=1749/1775, 26-27=2770/2796, 25-26=2770/2796,

24-25=2770/2796, 23-24=2770/2796, 22-23=2770/2796,

21-22=2770/2796, 20-21=2083/2109, 19-20=2083/2109,

18-19=1824/1851, 16-17=1556/1582, 15-16=618/645,

15-89=878/905, 14-89=1237/1263, 13-14=2282/2308,

13-90=4102/4120, 12-90=2693/2711, 11-12=2335/2353,

10-11=1303/1415, 9-10=460/478

BOT CHORD

34-35=902/1003, 34-82=1615/1633, 33-82=1923/1940,

32-33=2861/2878, 32-83=3681/3698, 83-84=3681/3698,

31-84=4277/4294, 31-85=2357/2383, 30-85=1283/1309,

29-30=961/987, 28-29=895/921, 28-86=1510/1536,

27-86=1749/1775, 26-27=2770/2796, 25-26=2770/2796,

24-25=2770/2796, 23-24=2770/2796, 22-23=2770/2796,

22-87=2083/2109, 21-87=2083/2109, 20-21=2083/2109,

19-20=2083/2109, 18-88=2083/2109, 18-88=2083/2109,

17-18=1824/1851, 16-17=1556/1582, 15-16=618/645,

15-89=878/905, 14-89=1237/1263, 13-14=2282/2308,

13-90=4102/4120, 12-90=2693/2711, 11-12=2335/2353,

10-11=1303/1415, 9-10=460/478

WEBS

1-31=3657/3622, 2-31=523/151, 3-31=4177/4130,

3-27=856/598, 3-22=2842/2787, 4-22=507/139,

6-22=2929/2874, 6-18=710/452, 6-13=3983/3936,

7-13=523/151, 8-13=3560/3523

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf;

BCDL=5.4psf; h=54ft; Cat. II; Exp C: Enclosed; MWFRS (envelope) gable end zone;

cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60

plate grip DOL=1.60

2) 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.

3) Provide adequate drainage to prevent water ponding.

4) Gable requires continuous bottom chord.

5) Gable studs spaced at 1-4-0 oc.

6) This truss has been designed for a 100 psf dead load with any other live loads.

7) * This truss has been designed for a 100 psf dead load in all areas where a rectangle 3-6-0 tall by 2-11-1 wide with any other members.

8) A plate rating reduction of 20% has been applied.

9) This truss is designed in accordance with section 2306.1 and referenced standards.

10) This truss has been designed for a 100 psf dead load and 10 psf live load.

11) This truss has been designed for a 100 psf dead load and 10 psf live load.

DOL=(1.33) Plate grip DOL=(1.33) Comp. chord from 0-0-0 to 13-6-0, 23-3-0 to 35-6-0 for 705.1 psf.

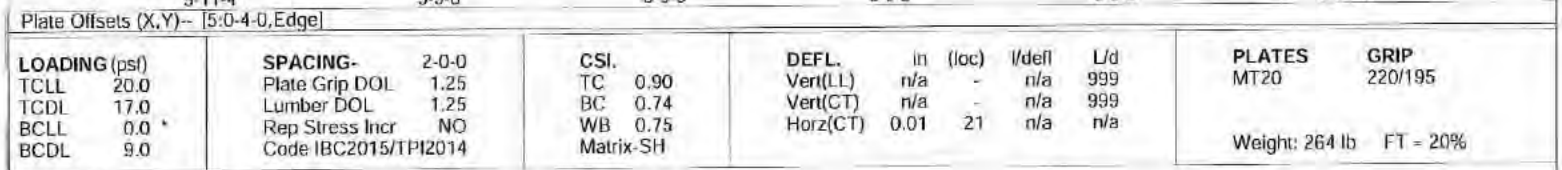
NOTES-

- 12) Use USP JL24 (With 4-10d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 2'-0" oc max. starting at 2'-2" from the left end to 34'-5" to connect truss(es) AK06 (1 ply 2x4 DF), AK05 (1 ply 2x4 DF) to front face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 503 lb down at 0'-1" to 12' on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
- 16) 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
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-8=-74, 9-35=-18
- Concentrated Loads (lb)
- Vert: 35=-292(F) 24=-284(F) 22=-284(F) 13=-284(F) 32=-284(F) 29=-284(F)
26=-284(F) 20=-284(F) 16=-284(F) 11=-284(F) 10=-285(F) 82=-284(F) 83=-284(F)
84=-284(F) 85=-284(F) 86=-284(F) 87=-284(F) 88=-284(F) 89=-284(F) 90=-284(F)





MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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

TOP CHORD

1-34=-1767/1650, 1-74=-2796/2514, 2-74=-1319/1332,
2-75=-443/456, 3-75=-3102/3115, 3-76=-2797/2817,
4-76=-1320/1340, 4-5=-437/457, 5-77=-1619/1639,
6-77=-3095/3115, 6-78=-2959/2971, 7-78=-301/312,
7-79=-1463/1474, 8-79=-2940/2656, 8-9=-1853/1738

BOT CHORD

33-34=-483/569, 33-80=-1062/1079, 32-80=-1320/1337,
31-32=-2089/2029, 30-31=-3206/3223, 29-30=-2544/2570,
28-29=-1278/1304, 28-81=-586/612, 26-27=-775/801,
26-82=-775/801, 25-82=-775/801, 25-83=-775/801,
24-83=-775/801, 23-24=-775/801, 23-84=-775/801,
22-84=-1039/1065, 21-22=-1916/1942, 21-85=-3799/3826,
20-85=-3397/3423, 19-20=-2370/2397, 19-86=-1602/1628,

Continued on page 2

NOTES-

- 12) Use USP JL24 (With 4-10d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-0-12 from the left end to 34-2-10 to connect truss(es) AK05 (1 ply 2x4 DF) to back face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 504 lb down at 0-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
- 16) 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

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-8=-74, 9-34=-18

Concentrated Loads (lb)

Vert: 34=-293(B) 30=-284(B) 33=-284(B) 31=-284(B) 29=-284(B) 22=-284(B)

20=-284(B) 16=-284(B) 11=-284(B) 80=-284(B) 81=-284(B) 82=-284(B) 83=-284(B)

85=-284(B) 86=-284(B) 87=-284(B) 88=-284(B) 89=-284(B) 90=-287(B)





LUMBER-
EST. 2500000.00

REACTIONS. All bearings 35-6-0.

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

Continued on page 2

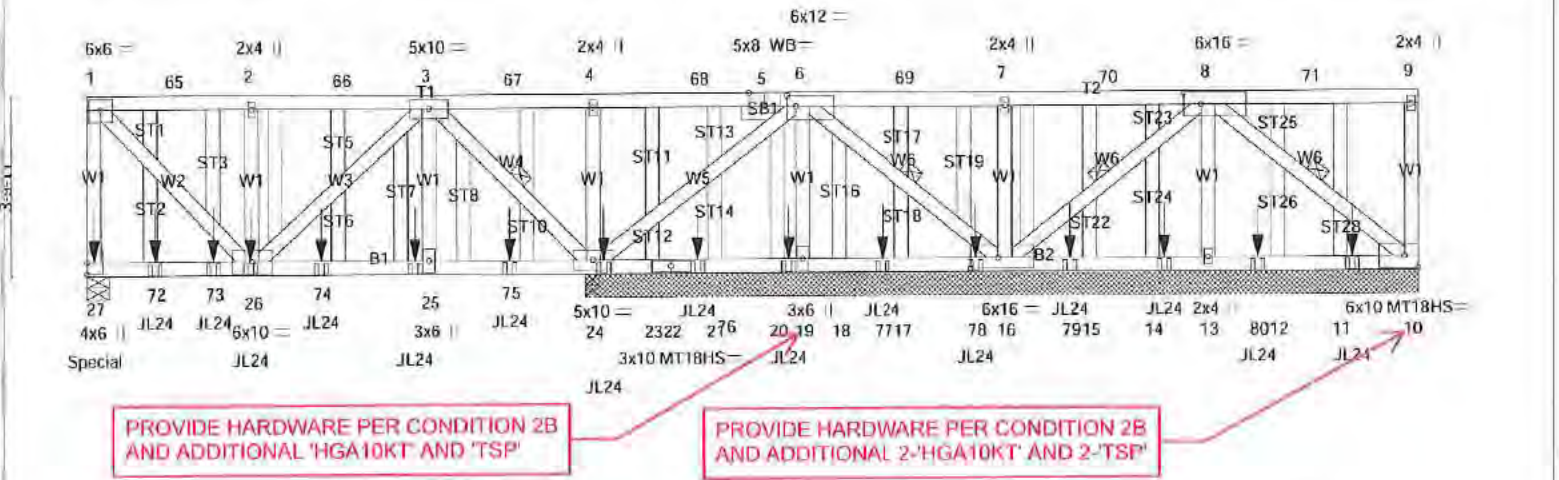
NOTES-

- 12) Use USP JL24 (With 4-10d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 34-3-14 to connect truss(es) AK05 (1 ply 2x4 DF), AK04 (1 ply 2x4 DF) to front face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 509 lb down at 0-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
- 16) 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
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-8=-37, 9-35=-9
- Concentrated Loads (lb)
- Vert: 35=-298(F) 31=-293(F) 27=-293(F) 32=-293(F) 30=-293(F) 23=-293(F)
- 21=-293(F) 17=-293(F) 14=-293(F) 12=-293(F) 11=-293(F) 82=-293(F) 83=-293(F)
- 85=-293(F) 86=-293(F) 87=-293(F) 88=-293(F) 89=-293(F) 90=-293(F)





LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	0-6-0	TC 0.75	in (loc)	MT20	220/195
TCDL 17.0	Plate Grip DOL 1.25	BC 0.82	Vert(LL) -0.05 26-27 >999	MT18HS	220/195
BCLL 0.0 *	Lumber DOL 1.25	WB 0.99	Vert(CT) -0.12 26-27 >999		
BCDL 9.0	Rep Stress Incr NO	Matrix-MSH	Horz(CT) 0.09 12 n/a		
	Code IBC2015/TPI2014			Weight: 231 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G "Except"
W6: 2x4 DF No.2 G
OTHERS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 3-1-5 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 2-6-12 oc bracing.
WEBS
1 Row at midpt 3-24, 6-16, 8-16, 8-10

REACTIONS. All bearings 17-8-14 except (l=length) 27=0-5-8.
(lb) - Max Horz
27= 104(LC 19)
Max Uplift
All uplift 100 lb or less at joint(s) except 27=567(LC 21),
10=-2782(LC 22), 19=-1766(LC 19), 16=-406(LC 22),
13=-524(LC 21), 23=-159(LC 33)
Max Grav
All reactions 250 lb or less at joint(s) 18 except
27=2561(LC 23), 10=2808(LC 19), 24=3094(LC 26), 24=2025(LC 1),
19=1744(LC 22), 16=875(LC 19), 13=727(LC 20),
21=590(LC 33), 20=454(LC 27), 17=609(LC 33), 15=477(LC 29),
14=447(LC 30), 12=499(LC 30), 11=507(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-27=-1842/782, 1-65=-1761/0, 2-65=-1508/202,
2-66=-1637/1162, 3-66=-3131/1930, 3-67=-93/546,
4-67=-1664/2067, 4-68=-2382/2294, 5-68=-3558/3837,
5-6=-3971/4116, 6-69=0/577, 7-69=-1626/1705,
7-70=-2553/1925, 8-70=-3845/3908, 8-71=-2191/2189,
9-71=-662/206, 9-10=-321/11
BOT CHORD
26-74=-2214/2931, 25-74=-2214/2931, 25-75=-2214/2931,
24-75=-2214/2931, 23-24=-5045/4877, 22-23=-5045/4877,
22-76=-5045/4877, 21-76=-5045/4877, 20-21=-5045/4877,
19-20=-5045/4877, 18-19=-5045/4877, 18-77=-4175/4007,
17-77=-3157/2989, 17-78=-2694/2526, 16-78=-935/767,
16-79=-6199/6186, 15-79=-4667/4654, 14-15=-4203/4190,
13-14=-2722/2709, 13-80=-1399/1386, 12-80=-257/244,
11-12=-1591/1726, 10-11=-3417/3404

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCCL=10.2psf;
BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone;
cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60
plate grip DOL=1.60
2) 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.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent
with any other live loads.
7) * This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent
with any other live loads.
8) A plate rating reduction of 20% has been applied to the bottom chord plates.
9) This truss is designed in accordance with the provisions of the International Building Code
section 2306.1 and referenced standards.
10) This truss has been designed for a 6.0 lb dead load located at all mid panels and
nonconcurrent with any other live loads.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent
with any other live loads.
12) This truss has large uplift reactions and must provide for uplift reactions indicated.

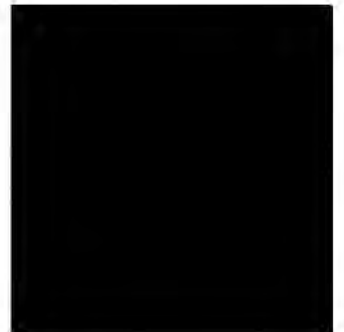
NOTES-

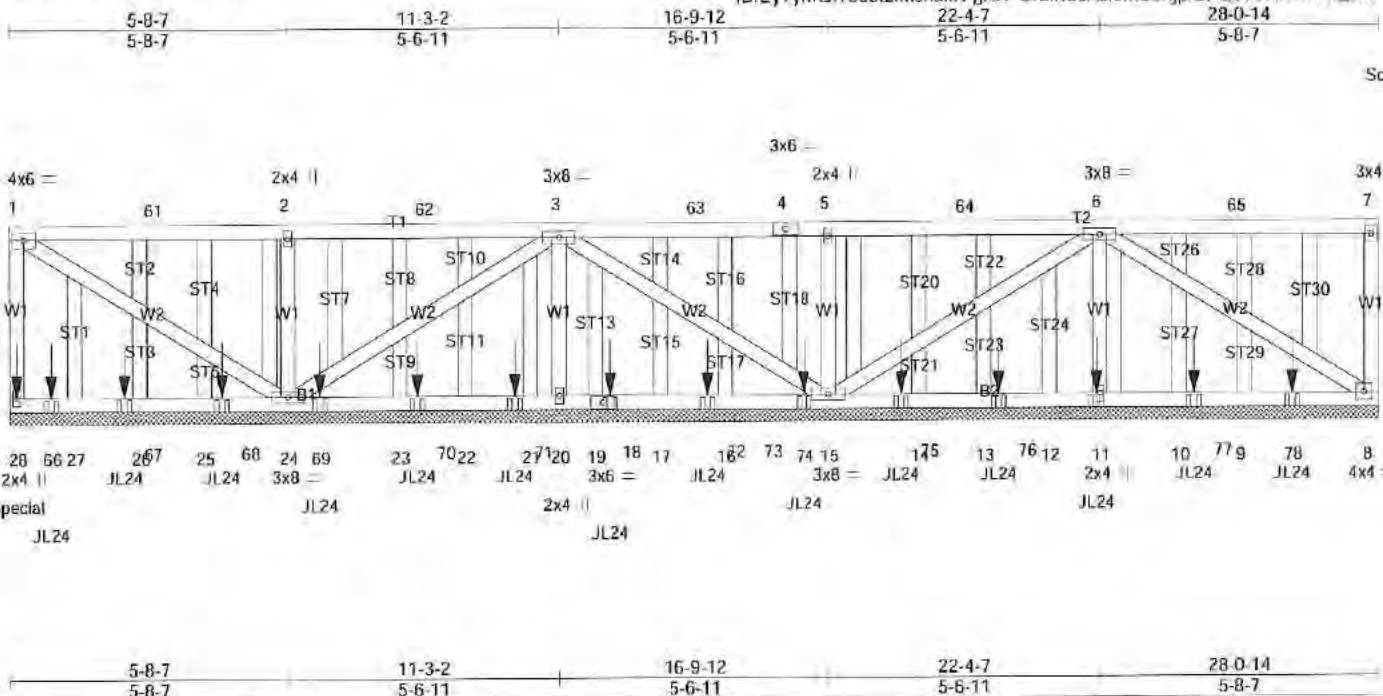
- 13) Use USP JL24 (With 4-10d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-5-4 from the left end to 26-11-0 to connect truss(es) AK04 (1 ply 2x4 DF), AK03 (1 ply 2x4 DF), AK02 (1 ply 2x4 DF) to back face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 510 lb down at 0-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
- 17) 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

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-9=-18, 10-27=-5
- Concentrated Loads (lb)
- Vert: 27=-299(B) 26=-391(B) 25=-391(B) 24=-391(B) 20=-391(B) 14=-391(B)
11=-391(B) 72=-297(B) 73=-391(B) 74=-391(B) 75=-391(B) 76=-391(B) 77=-391(B)
78=-391(B) 79=-391(B) 80=-391(B)





Scale = 1:47.0

LOADING (psf)	SPACING-	CSI	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.85	in (loc) l/defl l/d	MT20	220/195
TCDL 17.0	Plate Grip DOL 1.25	BC 0.43	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.15	Vert(CT) n/a - n/a 999		
BCDL 9.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.00 9 n/a n/a		
	Code IBC2015/TPI2014			Weight: 223 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G
 OTHERS 2x4 DF Stud/Std G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
 10-0-0 oc bracing: 27-28,26-27,25-26,24-25.

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 28-0-14.
 (lb) - Max Horz
 28= 145(LC 5)
 Max Uplift
 All uplift 100 lb or less at joint(s) 8 except 20=237(LC 35)
 Max Grav
 All reactions 250 lb or less at joint(s) 20, 22, 17, 12
 except 28=1096(LC 23), 8=562(LC 29), 24=1165(LC 30),
 15=1157(LC 32), 11=953(LC 33), 27=614(LC 25), 26=400(LC 24),
 25=419(LC 25), 23=636(LC 25), 21=635(LC 25), 19=608(LC 25),
 16=602(LC 28), 14=445(LC 28), 13=451(LC 27), 10=332(LC 28),
 9=726(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 1-28=358/67, 7-8=387/57
 BOT CHORD
 15-75=265/311, 14-75=207/252
 WEBS
 2-24=511/144, 3-20=403/124, 5-15=491/129, 6-11=425/132

NOTES-
 1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf;
 BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone;
 cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60
 plate grip DOL=1.60
 2) 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.
 3) Provide adequate drainage to prevent water ponding.
 4) Gable requires continuous bottom chord bearing.
 5) Gable studs spaced at 1-4-0 oc.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 7) * 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.
 8) A plate rating reduction of 20% has been applied for the green lumber members.
 9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 10) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 11) This truss has been designed for a total seismic drag load of 510 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 15-0-14 to 28-0-14 for 39.2 plf.
 12) Use USP JL24 (With 4-10d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max, starting at 0-10-4 from the left end to 26-3-10 to connect truss(es) AK02 (1 ply 2x4 DF) to front face of bottom chord.
 13) Fill all nail holes where hanger is in contact with lumber.
 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 569 lb down at 0-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 15) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
 16) 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
 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-7=74, 8-28=18
 Concentrated Loads (lb)
 Vert: 28=387(F) 18=378(F) 11=378(F) 75=378(F) 76=378(F) 77=378(F) 78=378(F)
 69=378(F) 70=378(F) 71=378(F) 72=378(F) 73=378(F) 74=378(F) 75=378(F) 76=378(F) 77=378(F) 78=378(F)



LUMBER- TOP CHORD 2x4 DF No.1&Btr G BOT CHORD 2x8 DF SS G WEBS 2x4 DF No.2 G *Except* W5: 2x4 DF No.1&Btr G OTHERS 2x4 DF Stud/Std G BRACING- TOP CHORD Structural wood sheathing directly applied or 2-7-5 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 2-2-11 oc bracing. WEBS 1 Row at midpt 1-36, 3-36, 3-31, 6-31, 6-25, 9-25, 9-19, 11-19	BOT CHORD 37-108=-1086/1109, 108-109=-1086/1109, 36-109=-1086/1109, 36-110=-4727/4651, 110-111=-4727/4651, 35-111=-4727/4651, 35-112=-4727/4651, 34-112=-4571/4495, 33-34=-8149/8073, 32-33=-8149/8073, 31-32=-16663/16587, 30-31=-9325/9306, 29-30=-9325/9306, 29-113=-9325/9306, 28-113=-9325/9306, 27-28=-9325/9306, 26-27=-9325/9306, 26-114=-9325/9306, 25-114=-9325/9306, 25-115=-16145/16161, 115-116=-16145/16161, 24-116=-15177/15193, 24-117=-14641/14657, 23-117=-13445/13460, 23-118=-11076/11092, 22-118=-8097/8113, 21-22=-7274/7288, 21-119=-5311/5325, 20-119=-5311/5325, 20-120=-5311/5325, 19-120=-5311/5325, 19-121=-4022/4037, 18-121=-2209/2224, 18-122=-1632/1632
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

(lb) - Max Horz
37=1112(LC 21)
Max Uplift
All uplift 100 lb or less at joint(s) 17, 18, 20, 21, 23,
24, 26, 27, 29, 30, 33 except 37=1725(LC 25), 14=2320(LC
24), 35=450(LC 5), 31=914(LC 24), 28=1958(LC 26),
25=989(LC 24), 22=1720(LC 23), 19=705(LC 24),
16=361(LC 24), 34=259(LC 39)
Max Grav
All reactions 250 lb or less at joint(s) 21, 29, 34 except
37=2704(LC 22), 14=2569(LC 19), 35=2291(LC 29), 35=1486(LC
1), 31=1482(LC 19), 28=2310(LC 21), 25=1530(LC 19),
22=2073(LC 20), 19=1285(LC 19), 16=810(LC 19), 16=506(LC 1),
17=329(LC 35), 18=293(LC 47), 20=400(LC 47), 23=253(LC 35),
24=397(LC 47), 26=402(LC 39), 27=318(LC 30), 30=416(LC 39),
33=542(LC 39)

TOP CHORD
1-37=-2357/1886, 1-98=-3218/2459, 2-98=-2020/1500,
2-99=-2809/1327, 3-99=-4572/4052, 3-100=-4119/4229,
4-100=-2835/2555, 4-5=-3642/2869, 5-101=-3888/4125,
6-101=-5584/5695, 6-102=-4814/4849, 7-102=-3528/2927,
7-103=-4347/3241, 8-103=-4462/4671, 8-9=-6031/6066,
9-104=-3833/3869, 10-104=-2594/1703, 10-105=-2770/1559,
11-105=-4349/4385, 11-106=-2196/2082, 12-106=-769/655,
12-107=-1225/1170, 13-107=-2366/2036, 13-14=-2478/2287
BOT CHORD

37-108=-1086/1109, 108-109=-1086/1109, 36-109=-1086/1109,
36-110=-472/4651, 110-111=-472/4651, 35-111=-472/4651,
35-112=-472/4651, 34-112=-4571/4495, 33-34=-8149/8073,
32-33=-8149/8073, 31-32=-16663/16587, 30-31=-9325/9306,
29-30=-9325/9306, 29-113=-9325/9306, 28-113=-9325/9306,
27-28=-9325/9306, 26-27=-9325/9306, 26-114=-9325/9306,
25-114=-9325/9306, 25-115=-16145/16161,
115-116=-16145/16161, 24-116=-15177/15193,
24-117=-14641/14657, 23-117=-13445/13460,
23-118=-11076/11092, 22-118=-8097/8113, 21-22=-7274/7288,
21-119=-5311/5325, 20-119=-5311/5325, 20-120=-5311/5325,
19-120=-5311/5325, 19-121=-4022/4037, 18-121=-2209/2224,
17-18=-4605/4620, 16-17=-4605/4620, 15-16=-4605/4620
WEBS
1-36=-3306/3918, 2-36=-458/124, 3-36=-3324/4064,
3-35=-1269/602, 3-31=-3815/3773, 4-31=-4631/113,
6-31=-5245/5133, 6-28=-2203/2023, 6-25=-5378/5358,
7-25=-465/111, 9-25=-3377/3315, 9-22=-1968/1784,
9-19=-6540/6480, 10-19=-470/114, 11-19=-4928/4865,
11-16=-521/231, 11-15=-3354/3500, 12-15=-405/77,
13-15=-3216/3369

1) Wind: ASCE 7-10; vult=110mph (3-second gust) Vasd=87mph; TCDF=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Truss designed for wind loads in the direction normal to the wind (normal to the face), see Standard Specification for Steel Bridges, Part 1, consult qualified building designer as required.

3) Provide adequate drainage to prevent ponding.

4) All plates are MT20 plates unless otherwise noted.

5) Gable studs spaced at 1'-4" o.c.

6) This truss has been designed for a dead load of 10 psf and current live loads.

7) * This truss has been designed for a height of 54 feet in all areas where a rectangle 3'-6" tall by 1'-0" wide is used for any other members.

8) A plate rating reduction of 20% has been applied to all members.

9) This truss is designed in accordance with AISC 360, section 2306.1 and referenced standards.

NOTES-

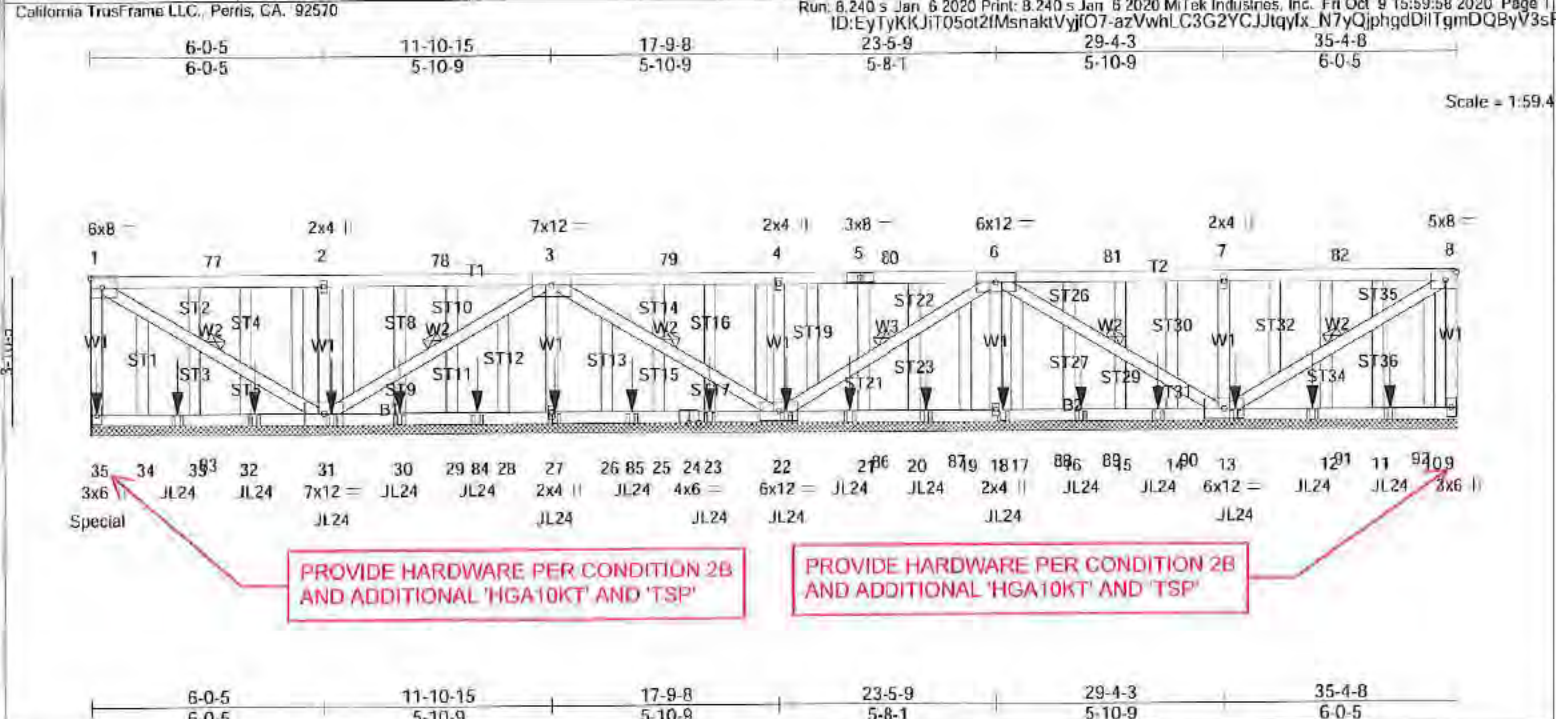
- 10) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) This truss has been designed for a total seismic drag load of 665 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 25-0-0 to 36-0-0 for 2673.8 plf.
- 12) This truss has been designed for a total seismic drag load of 510 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 9-3-0 to 14-3-0 for 4511.2 plf.
- 13) Use USP JL24 (With 4-10d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-7-2 from the left end to 36-0-2 to connect truss(es) AK02 (1 ply 2x4 DF), AK01 (1 ply 2x4 DF) to back face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
- 16) 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

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-13=-74, 14-37=-18
- Concentrated Loads (lb)
- Vert: 36=-200(B) 31=-200(B) 17=-200(B) 27=-200(B) 30=-200(B) 33=-200(B)
108=-383(B) 109=-200(B) 110=-200(B) 111=-200(B) 112=-200(B) 113=-200(B)
114=-200(B) 115=-200(B) 117=-200(B) 118=-200(B) 119=-200(B) 120=-200(B)
121=-200(B)





LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.91	in (loc) l/defl L/d	MT20	220/195
TCDL 17.0	Plate Grip DOL 1.25	BC 0.70	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.79	Vert(CT) n/a n/a 999		
BCDL 9.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.02 22 n/a n/a		
	Code IBC2015/TPI2014			Weight: 275 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF No.2 G
OTHERS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 3-5-7 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 3-1-4 oc bracing.
WEBS
1 Row at midpt 1-31, 3-31, 3-22, 6-22, 6-13, 8-13

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 35-4-8.
(lb) - Max Horz
35= 147(LC 5)
Max Uplift
All uplift 100 lb or less at joint(s) 34, 33, 32, 30, 29, 28, 26, 25, 23, 21, 20, 19, 17, 16, 15, 14, 12, 11, 10 except 35=1735(LC 21), 9=1744(LC 22), 31=227(LC 8), 27=177(LC 5), 22=244(LC 4), 18=190(LC 5), 13=241(LC 4)
Max Grav
All reactions 250 lb or less at joint(s) 34, 19, 17, 10 except 35=2049(LC 20), 9=1861(LC 19), 31=1015(LC 31), 27=750(LC 32), 22=1066(LC 33), 18=784(LC 34), 13=1033(LC 35), 33=358(LC 24), 32=392(LC 25), 30=394(LC 25), 29=266(LC 24), 28=286(LC 25), 26=283(LC 25), 25=270(LC 24), 23=367(LC 23), 21=421(LC 23), 20=298(LC 28), 16=362(LC 28), 15=256(LC 29), 14=311(LC 28), 12=455(LC 28), 11=284(LC 29)

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cal. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) 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.
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bracing.
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a current
with any other live loads.
7) * This truss has been designed for areas where a rectangle 3-6-0 tall by 2 any other members.
8) A plate rating reduction of 20% has
9) This truss is designed in accordance section 2306.1 and referenced standa
10) This truss has been designed for a 6.0lb dead located at all mid panels and nonconcurrent with any other live load
11) This truss has been designed for a DOL=(1.33) Plate grip DOL=(1.33) C chord from 0-0-0 to 19-6-0, 24-4-8 to 3

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-35=-1890/1772, 1-77=-2998/2711, 2-77=-1498/1511, 2-78=-292/305, 3-78=-2992/3005, 3-79=-3117/3138, 4-79=-1611/1638, 5-80=-1313/1334, 6-80=-2760/2781, 6-81=-3167/3179, 7-81=-467/480, 7-82=-1323/1336, 8-82=-2823/2536, 8-9=-1784/1665
BOT CHORD
34-35=-619/636, 34-83=-1148/1166, 33-83=-1407/1425, 32-33=-2117/2214, 31-32=-3395/3413, 30-31=-2911/2937, 29-30=-1744/1770, 29-84=-955/982, 28-84=-567/594, 27-28=-549/575, 26-27=-1391/1417, 26-85=-1779/1805, 25-85=-2180/2206, 24-25=-2259/2285, 23-24=-2936/2962, 22-23=-4028/4055, 22-86=-1681/1707, 21-86=-584/610, 20-21=-584/610, 20-87=-584/610, 19-87=-584/610, 18-19=-584/610, 17-18=-584/610, 17-88=-584/610, 15-89=-752/778, 15-90=-1331/1357, 14-90=-1540/1567, 13-14=-2337/2364, 13-91=-3457/3475, 12-91=-2097/2115, 11-12=-1888/1906, 11-92=-1099/1038, 10-92=-914/932, 9-10=-277/328
WEBS
1-31=-3518/3482, 2-31=-523/151, 3-31=-3929/3882, 3-27=-493/232, 3-22=-3295/3239, 4-22=-503/137, 6-22=-3509/3454, 6-18=-413/125, 6-13=-3535/3490, 7-13=-524/153, 8-13=-3312/3276

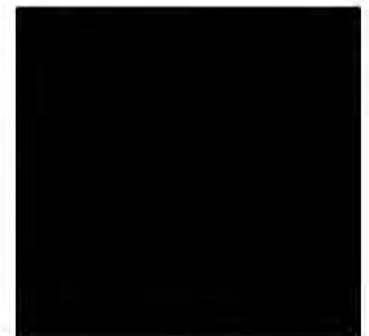
NOTES-

- 12) Use USP JL24 (With 4-10d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-2-12 from the left end to 33-7-12 to connect truss(es) AK01 (1 ply 2x4 DF) to front face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 419 lb down and 75 lb up at 0-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
- 16) 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

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-8=-74, 9-35=-18
- Concentrated Loads (lb)
- Vert: 35=-208(F) 31=-200(F) 27=-200(F) 22=-200(F) 18=-200(F) 13=-200(F)
32=-200(F) 30=-200(F) 23=-200(F) 83=-200(F) 84=-200(F) 85=-200(F) 86=-200(F)
87=-200(F) 89=-200(F) 90=-200(F) 91=-200(F) 92=-200(F)



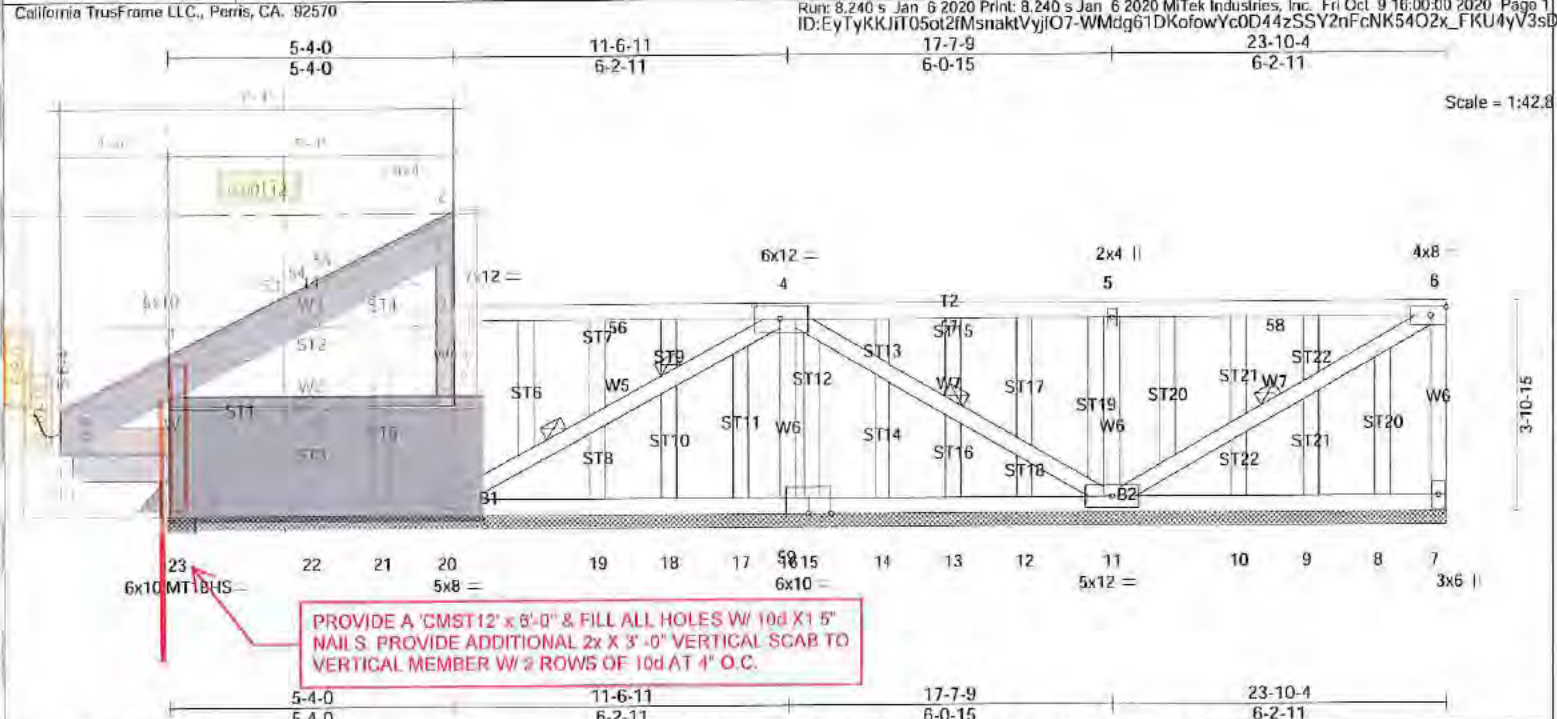


Plate Offsets (X,Y)-- [1:Edge,0-1-12], [2:0-1-1,0-2-0], [3:0-6-12,0-3-0], [4:0-5-12,0-3-0], [15:0-0-0,0-1-12], [16:0-1-12,0-0-0], [20:0-2-4,0-2-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL 20.0		Plate Grip DOL 1.25		TC 0.85		Vert(LL) n/a - n/a	999	MT20	220/195
TCDL 17.0		Lumber DOL 1.25		BC 0.68		Vert(CT) n/a - n/a	999	MT18HS	220/195
BCLL 0.0 *		Rep Stress Incr YES		WB 0.97		Horz(CT) 0.04 7 n/a n/a			
BCDL 9.0		Code IBC2015/TPI2014		Matrix-SH				Weight: 195 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G *Except*
W5,W2: 2x4 DF No.2 G
OTHERS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 2-11-10 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 3-1-5 oc bracing.
WEBS
1 Row at midpt 4-11, 6-11, 1-3, 3-23
2 Rows at 1/3 pts 4-20

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

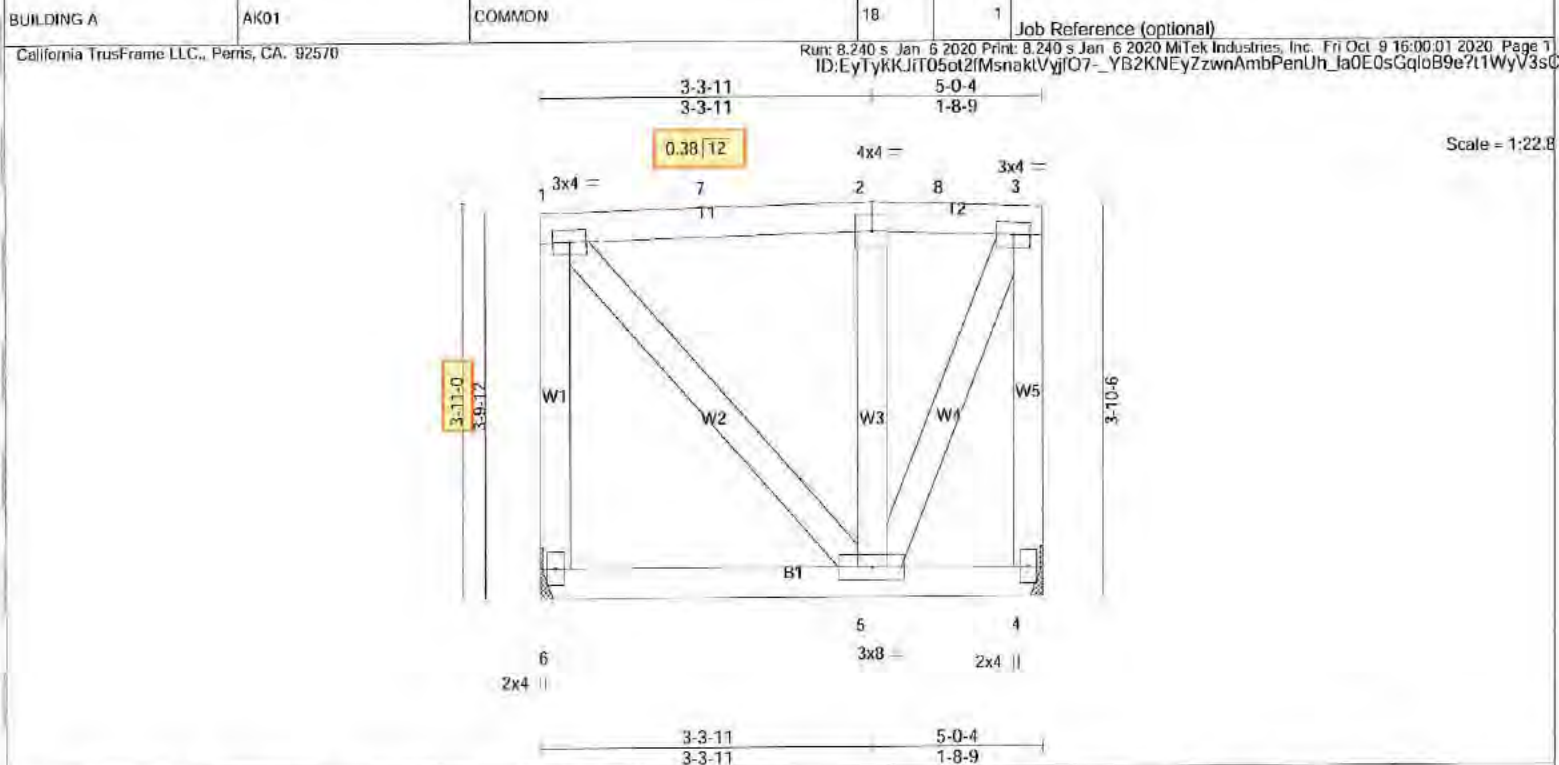
REACTIONS. All bearings 23-10-4.
(lb) - Max Horz
23= 233(LC 9)
Max Uplift
All uplift 100 lb or less at joint(s) 22, 21, 8 except
20=749(LC 25), 7=1247(LC 26), 16=1287(LC 26),
11=146(LC 13), 23=3590(LC 25)
Max Grav
All reactions 250 lb or less at joint(s) 22, 21, 19, 18, 17,
14, 13, 12, 10, 9, 8 except 20=1115(LC 24), 7=1400(LC 23),
16=1638(LC 23), 11=597(LC 39), 23=3767(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-53=2884/2532, 53-54=1408/1669, 54-55=1193/1401,
2-55=1128/1133, 3-20=1690/1400, 2-3=923/788,
3-56=78/280, 4-56=1948/1912, 4-57=4039/4048,
5-57=1250/1259, 5-58=603/612, 6-58=2152/2161,
6-7=1360/1233, 1-23=931/788
BOT CHORD
22-23=3862/3883, 21-22=1074/1095, 20-21=1698/1719,
19-20=2233/2597, 18-19=2001/2054, 17-18=3476/3528,
17-59=3574/3627, 16-59=3844/3897, 15-16=3844/3897,
14-15=3844/3897, 13-14=3844/3897, 12-13=3844/3897,
11-12=3844/3897
WEBS
4-20=4912/4892, 4-16=1613/1303, 4-11=2033/1962,
5-11=525/160, 6-11=2520/2488, 1-3=2554/2537,

WEBS
4-20=4912/4892, 4-16=1613/1303, 4-11=2033/1962,
5-11=525/160, 6-11=2520/2488, 1-3=2554/2537,

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TC DL=10.2psf;
BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone
and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 23-8-8 zone; cantilever left
and right exposed; end vertical left and right exposed; C-C for members and forces &
MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 1-4-0 oc.
8) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and
any other members.
10) A plate rating reduction of 20% has been applied for the green lumber members.
11) This truss is designed in accordance with the 2015 International Building Code
section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 300.0lb live and
6.0lb dead located at all mid panels and nonconcurrent with any other live loads.
13) This truss has been designed for a dead load of 10.0psf on the bottom chord from
0-0-0 to 11-0-0 for 1106.0 psf. The bottom chord from 0-0-0 to 11-0-0 for 1106.0 psf.
14) This truss is designed for a creep deflection per ANSI/TPI 1.

LOAD CASE(S)
Standard



LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

8) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(C/T) deflection per ANSI/TPI 1.

LOAD CASE(S)
Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (o/lf)

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-4-10, Interior(1) 3-4-10 to 6-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 7) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

Continued on page 2

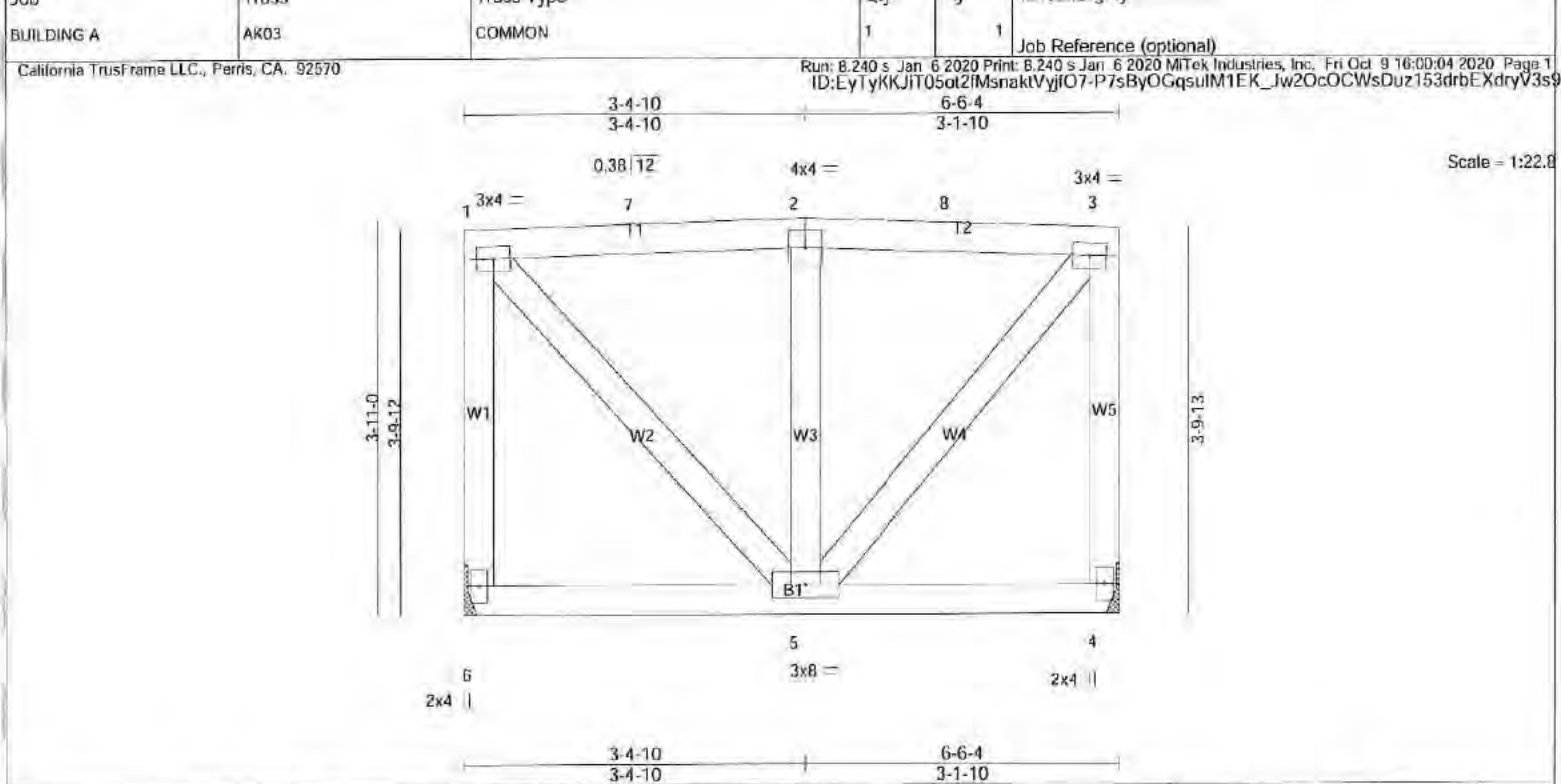
LOAD CASE(S)

Standard

- Uniform Loads (plf)
Vert: 1-2=-30, 2-3=-12, 4-6=-11
Horz: 1-6=-23, 1-2=-25, 2-3=44, 3-4=-18
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-38, 2-3=-57, 4-6=-18
Horz: 1-6=31, 1-2=-31, 2-3=12, 3-4=11
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-57, 2-3=-38, 4-6=-18
Horz: 1-6=11, 1-2=-12, 2-3=31, 3-4=-31
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-12, 2-3=-30, 4-6=-11
Horz: 1-6=15, 1-2=-44, 2-3=25, 3-4=21
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-3=-12, 4-6=-11
Horz: 1-6=-21, 1-2=-25, 2-3=44, 3-4=-15
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-25, 2-3=-36, 4-6=-11
Horz: 1-6=8, 1-2=-31, 2-3=19, 3-4=16
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-3=-25, 4-6=-11
Horz: 1-6=-16, 1-2=-19, 2-3=31, 3-4=-8
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-38, 2-3=-57, 4-6=-18
Horz: 1-6=28, 1-2=-31, 2-3=12, 3-4=9
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-57, 2-3=-38, 4-6=-18
Horz: 1-6=-9, 1-2=-12, 2-3=31, 3-4=-28
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-76, 2-3=-90, 4-6=-18
Horz: 1-6=23, 1-2=-23, 2-3=9, 3-4=8
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-90, 2-3=-76, 4-6=-18
Horz: 1-6=-8, 1-2=-9, 2-3=23, 3-4=-23
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-76, 2-3=-90, 4-6=-18
Horz: 1-6=21, 1-2=-23, 2-3=9, 3-4=7
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-90, 2-3=-76, 4-6=-18
Horz: 1-6=-7, 1-2=-9, 2-3=23, 3-4=-21
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-109, 2-3=-69, 4-6=-18
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-109, 4-6=-18
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-99, 2-3=-69, 4-6=-18
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-99, 4-6=-18
- 27) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
Concentrated Loads (lb)

Standard

- Vert: 1=-306
- 28) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
Concentrated Loads (lb)
Vert: 7=-306
- 29) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
Concentrated Loads (lb)
Vert: 8=-306
- 30) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
Concentrated Loads (lb)
Vert: 3=-306
- 31) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
Concentrated Loads (lb)
Vert: 2=-306



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 0.62	Vert(LL)	-0.00	5	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	-0.01	5-6	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.00	4	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP							
									Weight: 43 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G

BRACING-

TOP CHORD

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

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

Mitek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

6 = 396/Mechanical

4 = 396/Mechanical

Max Horz

6 = 143(LC 9)

Max Grav

6 = 577(LC 27)

4 = 577(LC 30)

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

TOP CHORD

1-6=-552/65, 1-7=-253/0, 2-7=-251/1, 2-8=-251/0, 3-8=-253/0,

3-4=-555/60

WEBS

1-5=-65/370, 2-5=-505/0, 3-5=-59/388

NOTES-

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

2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-4-10, Interior(1) 3-4-10 to 6-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

7) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

8) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)

Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-109, 2-3=-109, 4-6=-18

2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-99, 2-3=-99, 4-6=-18

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-69, 2-3=-69, 4-6=-38

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=10, 2-3=-15, 4-6=-11

Horz: 1-6=28, 1-2=-66, 2-3=41, 3-4=44

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=-15, 2-3=10, 4-6=-11

Horz: 1-6=-44, 1-2=-41, 2-3=66, 3-4=-28

6) Dead + 0.6 C-C Wind (Neg. Internal)

Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-85, 2-3=-85, 4-6=-18

Horz: 1-6=-31, 1-2=16, 2-3=-16, 3-4=11

7) Dead + 0.6 C-C Wind (Neg. Internal)

Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-85, 2-3=-85, 4-6=-18

Horz: 1-6=40, 1-2=16, 2-3=-16, 3-4=-11

8) Dead + 0.6 MWFRS Wind (Pos. Internal)

Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-12, 2-3=-30, 4-6=-11

Horz: 1-6=18, 1-2=-44, 2-3=25, 3-4=-11

9) Dead + 0.6 MWFRS Wind (Pos. Internal)

Increase=1.60

Continued on page 2

LOAD CASE(S)

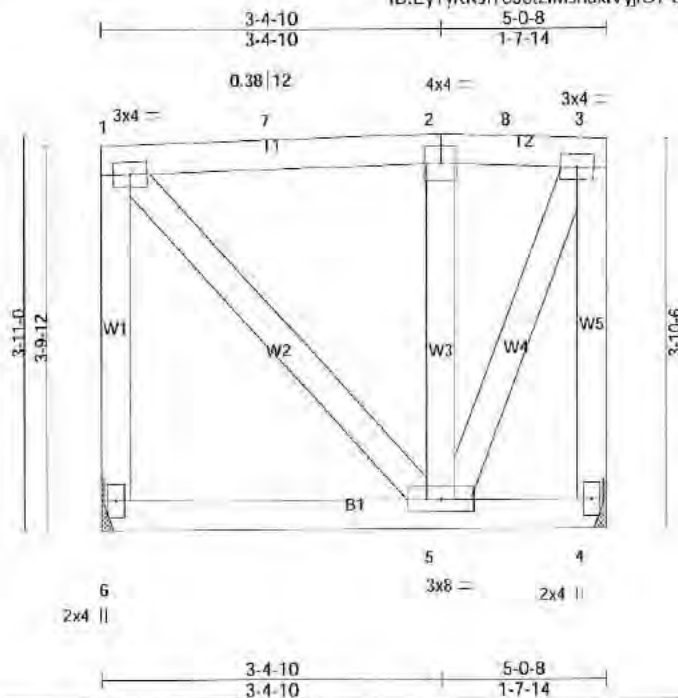
Standard

- Uniform Loads (plf)
 Vert: 1-2=-30, 2-3=-12, 4-6=-11
 Horz: 1-6=-23, 1-2=-25, 2-3=44, 3-4=-18
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-38, 2-3=-57, 4-6=-18
 Horz: 1-6=31, 1-2=-31, 2-3=12, 3-4=11
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-57, 2-3=-38, 4-6=-18
 Horz: 1-6=-11, 1-2=-12, 2-3=31, 3-4=-31
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-12, 2-3=-30, 4-6=-11
 Horz: 1-6=15, 1-2=-44, 2-3=25, 3-4=21
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-30, 2-3=-12, 4-6=-11
 Horz: 1-6=-21, 1-2=-25, 2-3=44, 3-4=-15
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-25, 2-3=-36, 4-6=-11
 Horz: 1-6=8, 1-2=-31, 2-3=19, 3-4=16
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-36, 2-3=-25, 4-6=-11
 Horz: 1-6=-16, 1-2=-19, 2-3=31, 3-4=-8
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-38, 2-3=-57, 4-6=-18
 Horz: 1-6=28, 1-2=-31, 2-3=12, 3-4=9
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-57, 2-3=-38, 4-6=-18
 Horz: 1-6=-9, 1-2=-12, 2-3=31, 3-4=-28
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
 Uniform Loads (plf)
 Vert: 1-2=-69, 2-3=-69, 4-6=-18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-76, 2-3=-90, 4-6=-18
 Horz: 1-6=23, 1-2=-23, 2-3=9, 3-4=8
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-90, 2-3=-76, 4-6=-18
 Horz: 1-6=-8, 1-2=-9, 2-3=23, 3-4=-23
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-76, 2-3=-90, 4-6=-18
 Horz: 1-6=21, 1-2=-23, 2-3=9, 3-4=7
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-90, 2-3=-76, 4-6=-18
 Horz: 1-6=-7, 1-2=-9, 2-3=23, 3-4=-21
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-109, 2-3=-69, 4-6=-18
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-69, 2-3=-109, 4-6=-18
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-99, 2-3=-69, 4-6=-18
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-69, 2-3=-99, 4-6=-18
- 27) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-69, 2-3=-69, 4-6=-18
 Concentrated Loads (lb)

Standard

- Vert: 1=-306
- 28) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-69, 2-3=-69, 4-6=-18
 Concentrated Loads (lb)
 Vert: 7=-306
- 29) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-69, 2-3=-69, 4-6=-18
 Concentrated Loads (lb)
 Vert: 8=-306
- 30) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-69, 2-3=-69, 4-6=-18
 Concentrated Loads (lb)
 Vert: 3=-306
- 31) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-69, 2-3=-69, 4-6=-18
 Concentrated Loads (lb)
 Vert: 2=-306





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 0.61	Vert(LL)	-0.00	5-6	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	-0.01	5-6	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.00	4	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP						Weight: 38 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 5-0-8 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)	
6 =	302/Mechanical
4 =	302/Mechanical
Max Horz	
6 =	146(LC 9)
Max Grav	
6 =	513(LC 27)
4 =	513(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 1-6=-486/110, 3-4=-504/76
 WEBS
 2-5=-461/10, 3-5=-72/377

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-4-10, Interior(1) 3-4-10 to 4-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) 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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 7) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

8) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(C) deflection per ANSI/TPI 1.

LOAD CASE(S)
 Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-109, 2-3=-109, 4-6=-18
 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-99, 2-3=-99, 4-6=-18
 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-69, 2-3=-69, 4-6=-38
 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=14, 2-3=-14, 4-6=-11
 Horz: 1-6=29, 1-2=-69, 2-3=41, 3-4=45
 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=-14, 2-3=14, 4-6=-11
 Horz: 1-6=-45, 1-2=41, 2-3=69, 3-4=-29
 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=-86, 2-3=-86, 4-6=-18
 Horz: 1-6=-32, 1-2=17, 2-3=-17, 3-4=-7
 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=-86, 2-3=-86, 4-6=-18
 Horz: 1-6=41, 1-2=-17, 2-3=-17, 3-4=7
 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-12, 2-3=-30, 4-6=-11
 Horz: 1-6=18, 1-2=-44, 2-3=25, 3-4=2
 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=12, 2-3=30, 4-6=11
 Horz: 1-6=-18, 1-2=44, 2-3=-25, 3-4=-2

LOAD CASE(S)

Standard

- Uniform Loads (plf)
Vert: 1-2=-30, 2-3=-12, 4-6=-11
Horz: 1-6=-23, 1-2=-25, 2-3=44, 3-4=-18
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-38, 2-3=-57, 4-6=-18
Horz: 1-6=-31, 1-2=-31, 2-3=12, 3-4=11
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-57, 2-3=-38, 4-6=-18
Horz: 1-6=-11, 1-2=-12, 2-3=31, 3-4=-31
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-12, 2-3=-30, 4-6=-11
Horz: 1-6=15, 1-2=-44, 2-3=25, 3-4=-21
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-3=-12, 4-6=-11
Horz: 1-6=-21, 1-2=-25, 2-3=44, 3-4=-15
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-25, 2-3=-36, 4-6=-11
Horz: 1-6=8, 1-2=-31, 2-3=19, 3-4=16
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-3=-25, 4-6=-11
Horz: 1-6=-16, 1-2=-19, 2-3=31, 3-4=-8
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-38, 2-3=-57, 4-6=-18
Horz: 1-6=28, 1-2=-31, 2-3=12, 3-4=9
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-57, 2-3=-38, 4-6=-18
Horz: 1-6=-9, 1-2=-12, 2-3=31, 3-4=-28
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-76, 2-3=-90, 4-6=-18
Horz: 1-6=23, 1-2=-23, 2-3=9, 3-4=8
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-90, 2-3=-76, 4-6=-18
Horz: 1-6=-8, 1-2=-9, 2-3=23, 3-4=-23
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-76, 2-3=-90, 4-6=-18
Horz: 1-6=21, 1-2=-23, 2-3=9, 3-4=7
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-90, 2-3=-76, 4-6=-18
Horz: 1-6=-7, 1-2=-9, 2-3=23, 3-4=-21
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-109, 2-3=-69, 4-6=-18
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-109, 4-6=-18
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-99, 2-3=-69, 4-6=-18
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-99, 4-6=-18
- 27) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
Concentrated Loads (lb)

Standard

- Vert: 1=-306
- 28) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
Concentrated Loads (lb)
Vert: 7=-306
- 29) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
Concentrated Loads (lb)
Vert: 8=-306
- 30) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
Concentrated Loads (lb)
Vert: 3=-306
- 31) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
Concentrated Loads (lb)
Vert: 2=-306



LOAD CASE(S)

Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-109, 2-3=-109, 4-6=-18
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-99, 2-3=-99, 4-6=-18
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-38
- 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=14, 2-3=-14, 4-6=-11
Horz: 1-6=29, 1-2=-69, 2-3=41, 3-4=45
- 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=-14, 2-3=14, 4-6=-11
Horz: 1-6=-45, 1-2=-41, 2-3=69, 3-4=-29
- 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=-86, 2-3=-86, 4-6=-18
Horz: 1-6=32, 1-2=17, 2-3=-17, 3-4=34
- 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=-86, 2-3=-86, 4-6=-18
Horz: 1-6=41, 1-2=17, 2-3=17, 3-4=-34
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-12, 2-3=-30, 4-6=-11
Horz: 1-6=18, 1-2=44, 2-3=25, 3-4=-44
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-3=30, 4-6=11
Horz: 1-6=-18, 1-2=-44, 2-3=-25, 3-4=44

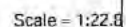
LOAD CASE(S)

- Standard
- Uniform Loads (plf)
- Vert: 1-2=-30, 2-3=-12, 4-6=-11
- Horz: 1-6=-23, 1-2=-25, 2-3=44, 3-4=-18
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-38, 2-3=-57, 4-6=-18
- Horz: 1-6=31, 1-2=-31, 2-3=12, 3-4=-11
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-57, 2-3=-38, 4-6=-18
- Horz: 1-6=-11, 1-2=-12, 2-3=31, 3-4=-31
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-12, 2-3=-30, 4-6=-11
- Horz: 1-6=15, 1-2=-44, 2-3=25, 3-4=-21
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-30, 2-3=-12, 4-6=-11
- Horz: 1-6=-21, 1-2=-25, 2-3=44, 3-4=-15
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-25, 2-3=-36, 4-6=-11
- Horz: 1-6=8, 1-2=-31, 2-3=19, 3-4=16
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-36, 2-3=-25, 4-6=-11
- Horz: 1-6=-16, 1-2=-19, 2-3=31, 3-4=-8
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-38, 2-3=-57, 4-6=-18
- Horz: 1-6=28, 1-2=-31, 2-3=12, 3-4=9
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-57, 2-3=-38, 4-6=-18
- Horz: 1-6=-9, 1-2=-12, 2-3=31, 3-4=-28
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Ptl. metal=0.90
- Uniform Loads (plf)
- Vert: 1-2=-69, 2-3=-69, 4-6=-18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-78, 2-3=-90, 4-6=-18
- Horz: 1-6=23, 1-2=-23, 2-3=9, 3-4=8
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-90, 2-3=-76, 4-6=-18
- Horz: 1-6=-8, 1-2=-9, 2-3=23, 3-4=-23
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-76, 2-3=-90, 4-6=-18
- Horz: 1-6=21, 1-2=-23, 2-3=9, 3-4=7
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-90, 2-3=-76, 4-6=-18
- Horz: 1-6=-7, 1-2=-9, 2-3=23, 3-4=-21
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-109, 2-3=-69, 4-6=-18
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-69, 2-3=-109, 4-6=-18
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-99, 2-3=-69, 4-6=-18
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-69, 2-3=-99, 4-6=-18
- 27) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-69, 2-3=-69, 4-6=-18
- Concentrated Loads (lb)

Standard

- Vert: 1=-306
- 28) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-69, 2-3=-69, 4-6=-18
- Concentrated Loads (lb)
- Vert: 7=-306
- 29) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-69, 2-3=-69, 4-6=-18
- Concentrated Loads (lb)
- Vert: 8=-306
- 30) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-69, 2-3=-69, 4-6=-18
- Concentrated Loads (lb)
- Vert: 3=-306
- 31) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-69, 2-3=-69, 4-6=-18
- Concentrated Loads (lb)
- Vert: 2=-306



[illegible]

TOP CHORD 2x4 DF N° 2 G

BRACING

Ver(C1) deflection per ANSI/HF 1.1-

MITok recommends that Stabilizers and required cross bracing be installed during	Standard
--	----------

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

REACTIONS. (10/size) Vert: 1-2=-109, 2-3=-109, 4-6=-10

A) Dead : 0.6 G G Wind (Reg. Internal) Case 1: Lumber Increase = 1.6% Plate

FORCES: (lb) - Max. Compression Force = 700 lbs (kg) or less (max. weight of person sitting)
Increase= 1.00
Decrease= 1.00

vert: 1-2=14, 2-3=14, 4-6=-11

2-5=-461/10, 3-5=-12/377

- Continued on page 2.

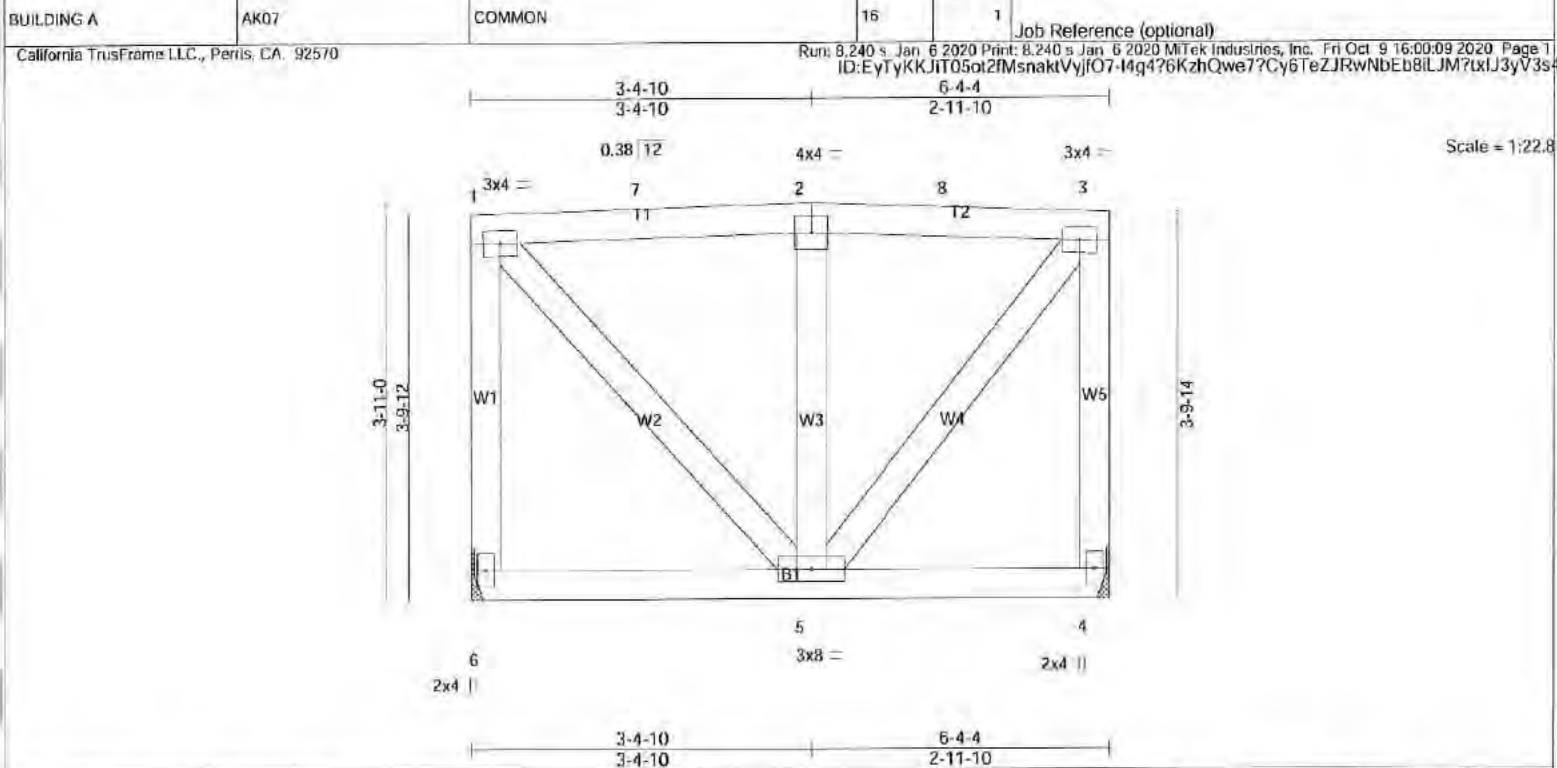
LOAD CASE(S)**Standard**

- Uniform Loads (plf)
Vert: 1-2=-30, 2-3=-12, 4-6=-11
Horz: 1-6=-23, 1-2=-25, 2-3=44, 3-4=-18
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-38, 2-3=-57, 4-6=-18
Horz: 1-6=31, 1-2=-31, 2-3=12, 3-4=11
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-57, 2-3=-38, 4-6=-18
Horz: 1-6=-11, 1-2=-12, 2-3=31, 3-4=-31
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-12, 2-3=-30, 4-6=-11
Horz: 1-6=15, 1-2=-44, 2-3=25, 3-4=21
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-3=-12, 4-6=-11
Horz: 1-6=-21, 1-2=-25, 2-3=44, 3-4=-15
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-25, 2-3=-36, 4-6=-11
Horz: 1-6=8, 1-2=-31, 2-3=19, 3-4=16
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-3=-25, 4-6=-11
Horz: 1-6=-16, 1-2=-19, 2-3=31, 3-4=-8
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-38, 2-3=-57, 4-6=-18
Horz: 1-6=28, 1-2=-31, 2-3=12, 3-4=9
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-57, 2-3=-38, 4-6=-18
Horz: 1-6=-9, 1-2=-12, 2-3=31, 3-4=-28
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-76, 2-3=-90, 4-6=-18
Horz: 1-6=23, 1-2=-23, 2-3=9, 3-4=8
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-90, 2-3=-76, 4-6=-18
Horz: 1-6=-8, 1-2=-9, 2-3=23, 3-4=-23
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-76, 2-3=-90, 4-6=-18
Horz: 1-6=21, 1-2=-23, 2-3=9, 3-4=7
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-90, 2-3=-76, 4-6=-18
Horz: 1-6=-7, 1-2=-9, 2-3=23, 3-4=-21
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-109, 2-3=-69, 4-6=-18
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-109, 4-6=-18
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-99, 2-3=-69, 4-6=-18
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-99, 4-6=-18
- 27) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
Concentrated Loads (lb)

Standard

- Vert: 1=-306
- 28) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
Concentrated Loads (lb)
Vert: 7=-306
- 29) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
Concentrated Loads (lb)
Vert: 8=-306
- 30) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
Concentrated Loads (lb)
Vert: 3=-306
- 31) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
Concentrated Loads (lb)
Vert: 2=-306





LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.62	in (loc) l/dell l/d	MT20	220/195
TCDL 17.0	Plate Grip DOL 1.25	BC 0.06	Vert(LL) -0.00 5-6 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.16	Vert(CT) -0.01 5-6 >999 180		
BCDL 9.0	Rep Stress Incr YES	Matrix: MP	Horz(CT) 0.00 4 n/a n/a		
	Code IBC2015/TPI2014			Weight: 42 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G
BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.
 MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

8) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

REACTIONS. (lb/size)	LOAD CASE(S)
6 = 385/Mechanical	Standard
4 = 385/Mechanical	1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Max Horiz	Uniform Loads (plf)
6 = 144(LC 9)	Vert: 1-2=-109, 2-3=-109, 4-6=-18
Max Grav	2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
6 = 570(LC 27)	Uniform Loads (plf)
4 = 570(LC 30)	Vert: 1-2=-99, 2-3=-99, 4-6=-18
	3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
	Uniform Loads (plf)
	Vert: 1-2=-69, 2-3=-69, 4-6=-38
	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=11, 2-3=-14, 4-6=-11
	Horz: 1-6=28, 1-2=-66, 2-3=41, 3-4=44
	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=-14, 2-3=11, 4-6=-11
	Horz: 1-6=-44, 1-2=-41, 2-3=66, 3-4=-28
	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=-85, 2-3=-85, 4-6=-18
	Horz: 1-6=-31, 1-2=16, 2-3=-16, 3-4=-
	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=-85, 2-3=-85, 4-6=-18
	Horz: 1-6=41, 1-2=16, 2-3=-16, 3-4=2
	8) Dead + 0.6 MWFRS Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
	Uniform Loads (plf)
	Vert: 1-2=-12, 2-3=-30, 4-6=-11
	Horz: 1-6=18, 1-2=-44, 2-3=25, 3-4=2
	9) Dead + 0.6 MWFRS Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
	Uniform Loads (plf)
	Vert: 1-2=-12, 2-3=-30, 4-6=-11
	Horz: 1-6=18, 1-2=-44, 2-3=25, 3-4=2

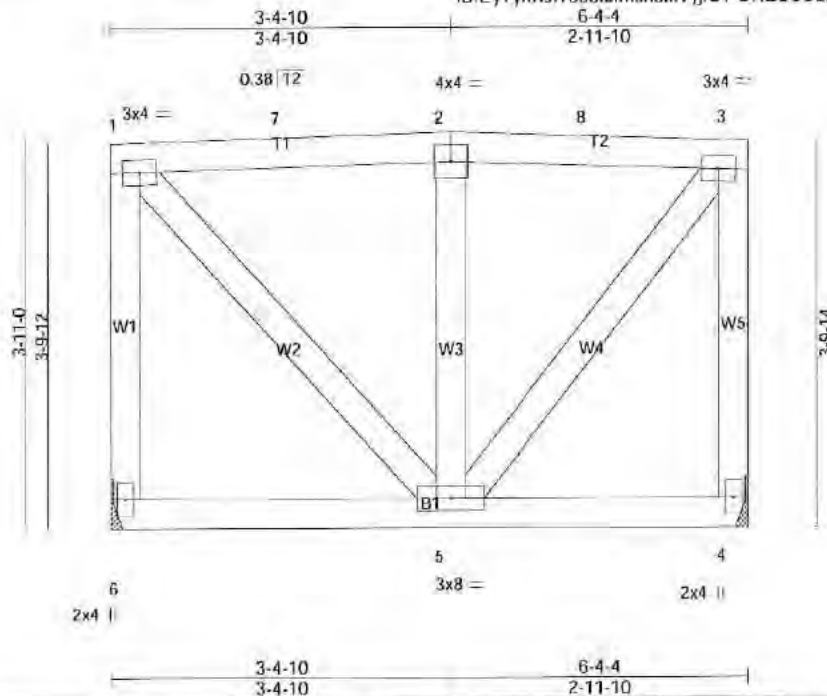
LOAD CASE(S)

Standard

- Uniform Loads (plf)
Vert: 1-2=-30, 2-3=-12, 4-6=-11
Horz: 1-6=-23, 1-2=-25, 2-3=44, 3-4=-18
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-38, 2-3=-57, 4-6=-18
Horz: 1-6=31, 1-2=-31, 2-3=12, 3-4=11
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-57, 2-3=-38, 4-6=-18
Horz: 1-6=-11, 1-2=-12, 2-3=31, 3-4=-31
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-12, 2-3=-30, 4-6=-11
Horz: 1-6=15, 1-2=-44, 2-3=25, 3-4=21
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-3=-12, 4-6=-11
Horz: 1-6=-21, 1-2=-25, 2-3=44, 3-4=-15
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-25, 2-3=-36, 4-6=-11
Horz: 1-6=8, 1-2=-31, 2-3=19, 3-4=16
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-3=-25, 4-6=-11
Horz: 1-6=-16, 1-2=-19, 2-3=31, 3-4=-8
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-38, 2-3=-57, 4-6=-18
Horz: 1-6=28, 1-2=-31, 2-3=12, 3-4=9
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-57, 2-3=-38, 4-6=-18
Horz: 1-6=-9, 1-2=-12, 2-3=31, 3-4=-28
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Pfl. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-76, 2-3=-90, 4-6=-18
Horz: 1-6=23, 1-2=-23, 2-3=9, 3-4=8
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-90, 2-3=-76, 4-6=-18
Horz: 1-6=-8, 1-2=-9, 2-3=23, 3-4=-23
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-76, 2-3=-90, 4-6=-18
Horz: 1-6=21, 1-2=-23, 2-3=9, 3-4=7
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-90, 2-3=-76, 4-6=-18
Horz: 1-6=-7, 1-2=-9, 2-3=23, 3-4=-21
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-109, 2-3=-69, 4-6=-18
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-109, 4-6=-18
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-99, 2-3=-69, 4-6=-18
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-99, 4-6=-18
- 27) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
Concentrated Loads (lb)

Standard

- Vert: 1=-306
- 28) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
Concentrated Loads (lb)
Vert: 7=-306
- 29) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
Concentrated Loads (lb)
Vert: 8=-306
- 30) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
Concentrated Loads (lb)
Vert: 3=-306
- 31) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
Concentrated Loads (lb)
Vert: 2=-306



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 0.62	Vert(LL)	-0.00	5-6	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	-0.01	5-6	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.00	4	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP							
									Weight: 42 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G
BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)	
6 =	385/Mechanical
4 =	385/Mechanical
Max Horz	
6 =	144(LC 9)
Max Grav	
6 =	570(LC 27)
4 =	570(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
 1-6=-545/70, 3-4=-549/63
WEBS
 1-5=-71/354, 2-5=-500/0, 3-5=-61/385

- NOTES-**
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-4-10, Interior(1) 3-4-10 to 6-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 7) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 8) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)

- Standard
- Uniform Loads (plf)
- Vert: 1-2=-30, 2-3=-12, 4-6=-11
- Horz: 1-6=-23, 1-2=-25, 2-3=44, 3-4=-18
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-38, 2-3=-57, 4-6=-18
- Horz: 1-6=31, 1-2=-31, 2-3=12, 3-4=11
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-57, 2-3=-38, 4-6=-18
- Horz: 1-6=-11, 1-2=-12, 2-3=31, 3-4=31
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-12, 2-3=-30, 4-6=-11
- Horz: 1-6=15, 1-2=-44, 2-3=25, 3-4=21
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-30, 2-3=-12, 4-6=-11
- Horz: 1-6=-21, 1-2=-25, 2-3=44, 3-4=-15
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-25, 2-3=-36, 4-6=-11
- Horz: 1-6=8, 1-2=-31, 2-3=19, 3-4=16
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-36, 2-3=-25, 4-6=-11
- Horz: 1-6=-16, 1-2=-19, 2-3=31, 3-4=-8
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-38, 2-3=-57, 4-6=-18
- Horz: 1-6=28, 1-2=-31, 2-3=12, 3-4=9
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-57, 2-3=-38, 4-6=-18
- Horz: 1-6=-9, 1-2=-12, 2-3=31, 3-4=-28
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
- Uniform Loads (plf)
- Vert: 1-2=-69, 2-3=-69, 4-6=-18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-76, 2-3=-90, 4-6=-18
- Horz: 1-6=23, 1-2=-23, 2-3=9, 3-4=8
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-90, 2-3=-76, 4-6=-18
- Horz: 1-6=-8, 1-2=-9, 2-3=23, 3-4=-23
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-76, 2-3=-90, 4-6=-18
- Horz: 1-6=21, 1-2=-23, 2-3=9, 3-4=7
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-90, 2-3=-76, 4-6=-18
- Horz: 1-6=-7, 1-2=-9, 2-3=23, 3-4=-21
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-109, 2-3=-69, 4-6=-18
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-69, 2-3=-109, 4-6=-18
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-99, 2-3=-69, 4-6=-18
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-69, 2-3=-99, 4-6=-18
- 27) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-69, 2-3=-69, 4-6=-18
- Concentrated Loads (lb)

Standard

- Vert: 1=-306
- 28) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-69, 2-3=-69, 4-6=-18
- Concentrated Loads (lb)
- Vert: 7=-306
- 29) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-69, 2-3=-69, 4-6=-18
- Concentrated Loads (lb)
- Vert: 8=-306
- 30) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-69, 2-3=-69, 4-6=-18
- Concentrated Loads (lb)
- Vert: 3=-306
- 31) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-69, 2-3=-69, 4-6=-18
- Concentrated Loads (lb)
- Vert: 2=-306

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 4-8-4 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

8) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/HP 1.

LOAD CASE(S)
Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
 1-6=-485/91, 3-4=-473/115
WEBS
 1-5=-88/343, 2-5=-449/7

Continued on page 2

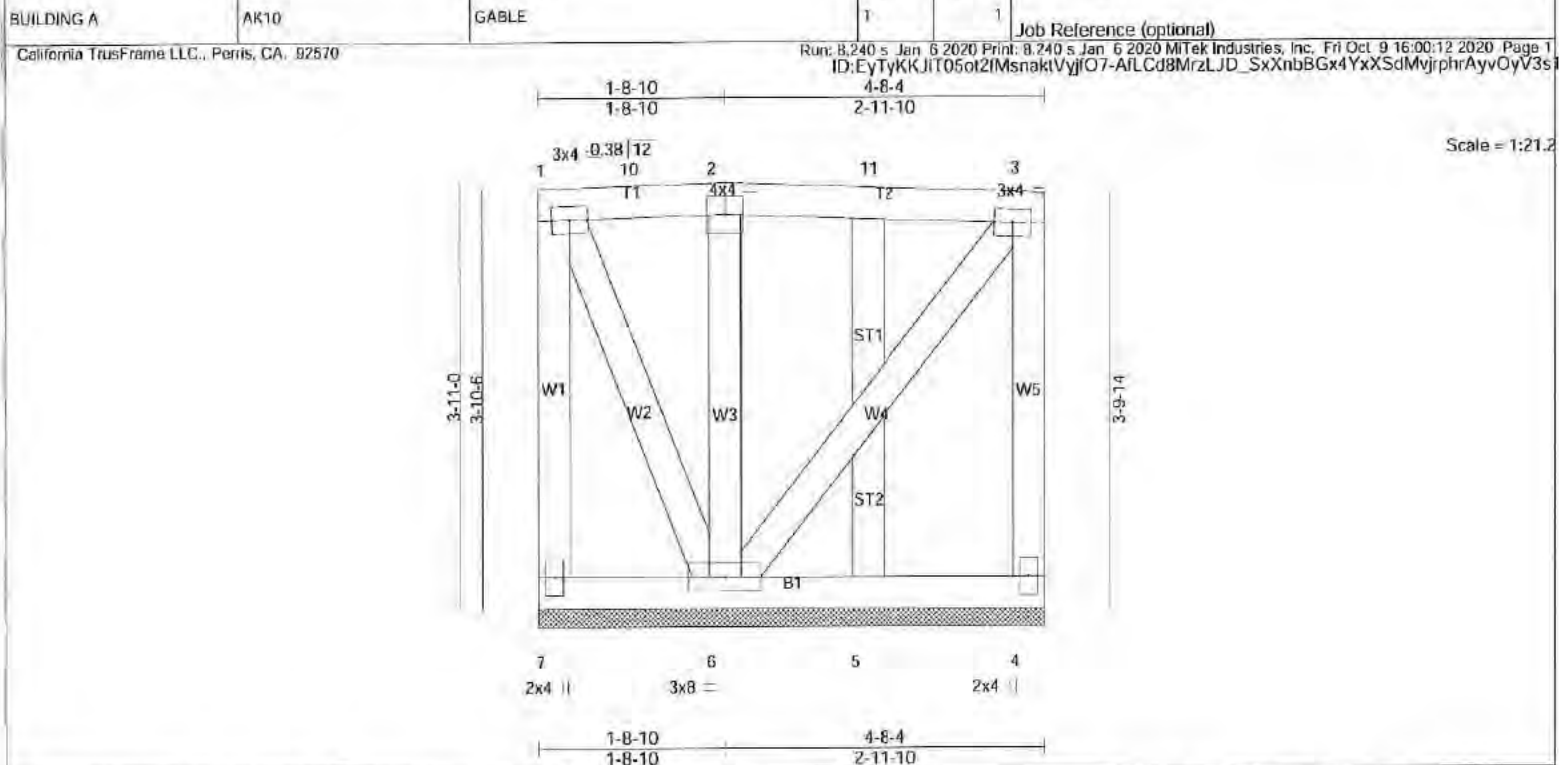
LOAD CASE(S)

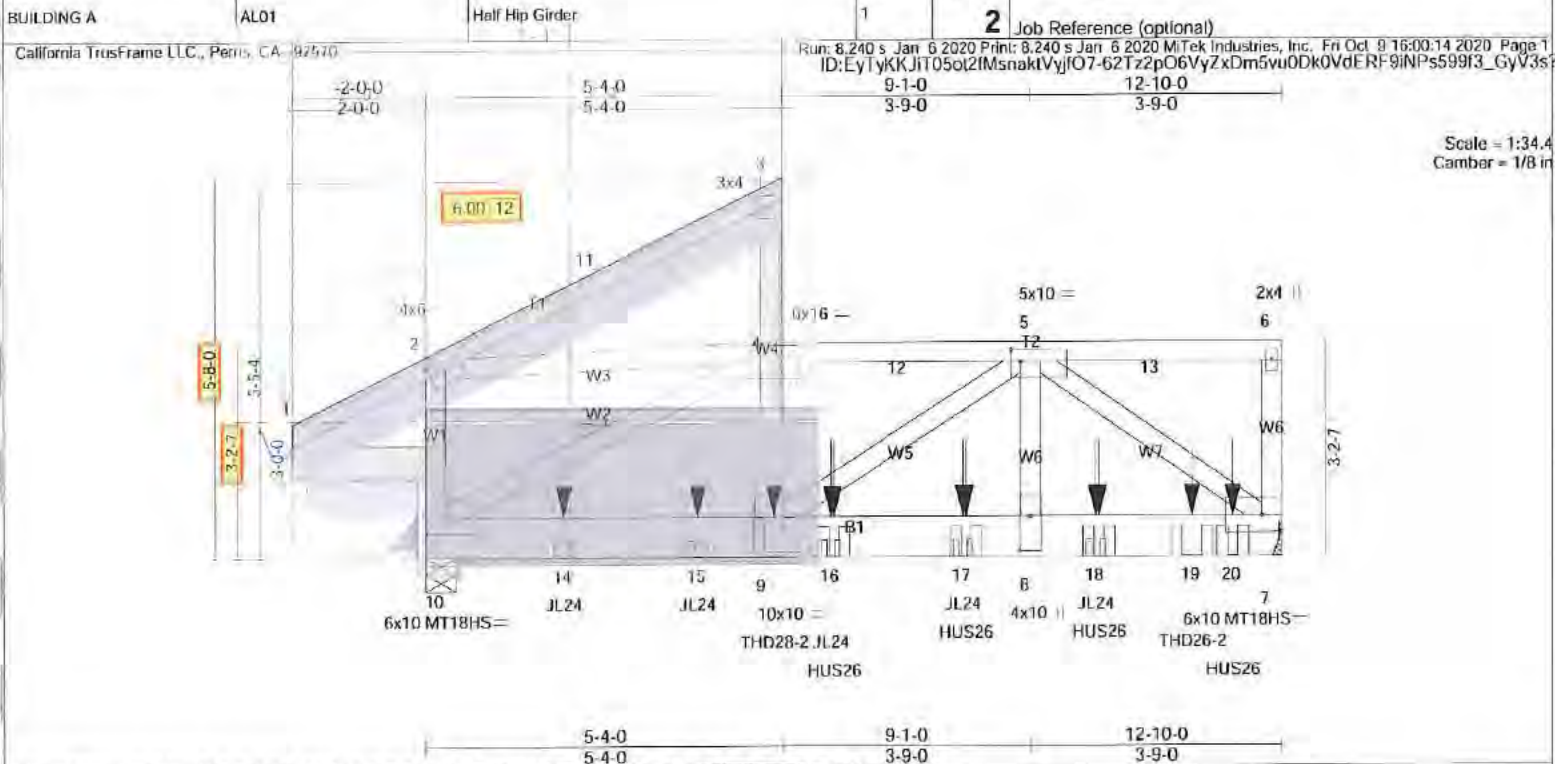
Standard

- Uniform Loads (plf)
Vert: 1-2=-30, 2-3=-12, 4-6=-11
Horz: 1-6=-23, 1-2=-25, 2-3=44, 3-4=-18
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-38, 2-3=-57, 4-6=-18
Horz: 1-6=31, 1-2=-31, 2-3=12, 3-4=-11
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-57, 2-3=-38, 4-6=-18
Horz: 1-6=-11, 1-2=-12, 2-3=31, 3-4=-31
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-12, 2-3=-30, 4-6=-11
Horz: 1-6=15, 1-2=-44, 2-3=25, 3-4=-21
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-3=-12, 4-6=-11
Horz: 1-6=-21, 1-2=-25, 2-3=44, 3-4=-15
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-25, 2-3=-36, 4-6=-11
Horz: 1-6=8, 1-2=-31, 2-3=19, 3-4=16
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-3=-25, 4-6=-11
Horz: 1-6=-16, 1-2=-19, 2-3=31, 3-4=-8
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-38, 2-3=-57, 4-6=-18
Horz: 1-6=28, 1-2=-31, 2-3=12, 3-4=-9
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-57, 2-3=-38, 4-6=-18
Horz: 1-6=-9, 1-2=-12, 2-3=31, 3-4=-28
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-76, 2-3=-90, 4-6=-18
Horz: 1-6=23, 1-2=-23, 2-3=9, 3-4=8
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-90, 2-3=-76, 4-6=-18
Horz: 1-6=-8, 1-2=-9, 2-3=23, 3-4=-23
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-76, 2-3=-90, 4-6=-18
Horz: 1-6=21, 1-2=-23, 2-3=9, 3-4=7
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-90, 2-3=-76, 4-6=-18
Horz: 1-6=-7, 1-2=-9, 2-3=23, 3-4=-21
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-109, 2-3=-69, 4-6=-18
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-109, 4-6=-18
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-99, 2-3=-69, 4-6=-18
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-99, 4-6=-18
- 27) 1st Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
Concentrated Loads (lb)

Standard

- Vert: 1=-306
- 28) 2nd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
Concentrated Loads (lb)
Vert: 7=-306
- 29) 3rd Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
Concentrated Loads (lb)
Vert: 8=-306
- 30) 4th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
Concentrated Loads (lb)
Vert: 3=-306
- 31) 5th Moving Load: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-69, 4-6=-18
Concentrated Loads (lb)
Vert: 2=-306





LOADING (psf)		SPACING-		CSI		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	in (loc)	l/defl	MT20		220/195	
TCDL	17.0	Lumber DOL	1.25	BC	0.61	Vert(LL)	-0.06 8-9 >999	MT18HS		220/195	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.97	Vert(CT)	-0.20 8-9 >750				
BCDL	9.0	Code IBC2015/TPI2014		Matrix	MSH	Horz(CT)	0.04 7 n/a				
								Weight: 203 lb		FT = 20%	

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x8 DF SS G
WEBS 2x4 DF Stud/Std G *Except*
W4: 2x6 DF No.2 G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 3-11-6 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS
1 Row at midpt 4-10

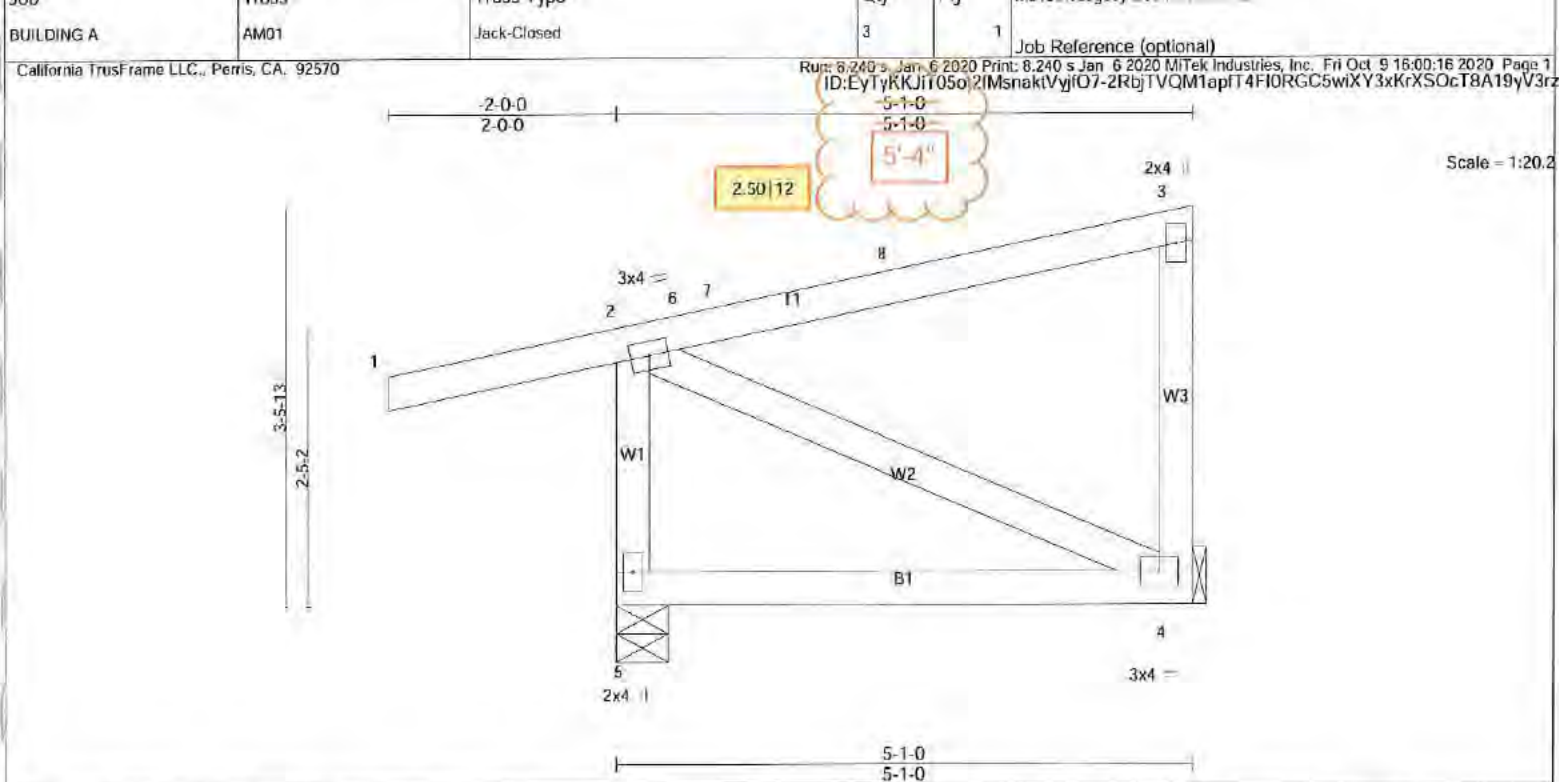
REACTIONS. (lb/size)
7 = 7641/Mechanical
10 = 4768/0-5-8 (min. 0-2-15)
Max Horz 10 = 266(LC 38)
Max Uplift 10 = -822(LC 8)
Max Grav 7 = 8386(LC 2)
10 = 5474(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-11=-465/59, 3-11=-291/97, 4-9=-728/4353, 4-12=-8298/1477,
5-12=-8298/1477, 6-7=-396/28, 2-10=-608/88
BOT CHORD
10-14=-1445/8012, 14-15=-1445/8012, 9-15=-1445/8012,
9-16=-497/7008, 16-17=-497/7008, 8-17=-497/7008,
8-18=-497/7008, 18-19=-497/7008, 19-20=-497/7008,
7-20=-497/7008
WEBS
5-9=-1261/1746, 5-8=0/4765, 5-7=-8665/619, 4-10=-9052/1362

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-3-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.

4) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) A plate rating reduction of 20% has been applied for the green lumber members.
10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
12) Use USP JL24 (With 4-16d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 10-0-12 to connect truss(es) AG01 (1 ply 2x4 DF) to front face of bottom chord.
13) Use USP THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 11-6-0 from the left end to connect truss(es) AG02 (2 ply 2x4 DF) to front face of bottom chord, skewed 0.0 deg. to the left, sloping 0.0 deg. down.
14) Use USP THD28-2 (With 28-16d nails into Girder & 16-10d nails into Truss) or equivalent at 5-2-8 from the left end to connect truss(es) AA39 (2 ply 2x4 DF) to back face of bottom chord, skewed 0.0 deg. to the left, sloping 0.0 deg. down.
15) Use USP HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 6-1-5 from the left end to 12-1-5 to connect truss(es) AA38 (1 ply 2x4 DF) to back face of bottom chord.
16) Fill all nail holes where hanger is in.
17) This truss is designed for a creep factor of 1.0.
Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)
Standard
1) Dead + Roof Live (balanced): Lumber Uniform Loads (plf)
Vert: 1-2=-74, 2-3=-74, 4-6=-74, 7-10=-74
Concentrated Loads (lb)
Vert: 9=-1989(B) 14=-544(F) 15=-544(F) 16=-544(F) 17=-1546(F=-544, B=-1003) 18=-1546(F=-544, B=-1003) 19=-1006(B)



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/dell	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.83	Vert(LL)	-0.03	4-5	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.22	Vert(CT)	-0.08	4-5	>740	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP						Weight: 30 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 5-1-0 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

LOAD CASE(S)

Standard

REACTIONS. (lb/size)

5 = 415/0-5-8 (min. 0-1-8)

4 = 185/Mechanical

Max Horz

5 = 144(LC 9)

Max Uplift

5 = -128(LC 8)

4 = -40(LC 9)

Max Grav

5 = 520(LC 23)

4 = 474(LC 25)

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

TOP CHORD

2-5=-477/236, 3-4=-371/118

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-11-4 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

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 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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

6) This truss has been designed for a moving concentrated load of 300.0lb live and 5.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

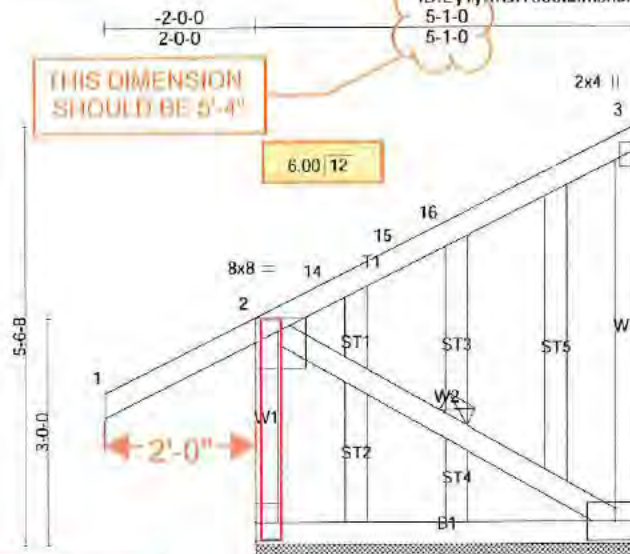
7) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LUMBER- TOP CHORD 2x4 DF No.2 G BOT CHORD 2x4 DF No.2 G WEBS 2x4 DF Stud/Std G BRACING- TOP CHORD Structural wood sheathing directly applied or 4-10-14 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 9-11-1 oc bracing. MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	6) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads. 7) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CI) deflection per ANSI/TPI 1. LOAD CASE(S) Standard
--	---

REACTIONS. (lb/size)	
5	= 415/0-5-8 (min. 0-1-8)
4	= 185/Mechanical
Max Horz	
5	= 243(LC 9)
Max Uplift	
5	= -41(LC 12)
4	= -121(LC 9)
Max Grav	
5	= 520(LC 23)
4	= 414(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 2-5=-477/240, 3-4=-371/175
 BOT CHORD
 4-5=-394/299
 WEBS
 2-4=-250/370

NOTES:-
 1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-11-4 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
 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 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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



Scale = 1:30.5

PROVIDE A 'CMST12' x 6'-0" & FILL ALL HOLES W/ 10d X1.5" NAILS. PROVIDE ADDITIONAL 2x X 3' -0" VERTICAL SCAB TO VERTICAL MEMBER W/ 2 ROWS OF 10d AT 4" O.C.

PROVIDE HARDWARE PER CONDITION 2B AND ADDITIONAL 'HGA10KT' AND 'TSP'

Plate Offsets (X,Y)-- [2:0-3-8,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 0.84	Vert(LL)	0.00	1	n/r	120	MT20
TCDL 17.0	Lumber DOL	1.25	BC 0.46	Vert(CT)	-0.01	1-2	n/r	120	220/195
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.61	Horz(CT)	-0.01	4	n/a	n/a	
BCDL 9.0	Code IBC2015/TPI2014		Matrix-P						
								Weight: 49 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF No.2 G
 OTHERS 2x4 DF Stud/Stid G

BRACING-

TOP CHORD
 Structural wood sheathing directly applied or 3-2-5 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 3-7-6 oc bracing.
 WEBS
 1 Row at midpt 2-4

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 5-1-0.

(lb) - Max Horz
 7= 243(LC 9)
 Max Uplift
 All uplift 100 lb or less at joint(s) except 7=3323(LC 25),
 4=1789(LC 26)
 Max Grav
 All reactions 250 lb or less at joint(s) 6, 5 except
 7=3612(LC 24), 4=1920(LC 23)

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

TOP CHORD
 2-7=-3602/3329, 2-14=-3606/3536, 14-15=-2247/2221,
 15-16=-1788/1777, 3-16=-1424/1424, 3-4=-371/241
 BOT CHORD
 6-7=-790/790, 5-6=-1676/1676, 4-5=-3035/3035
 WEBS
 2-4=-3679/3679

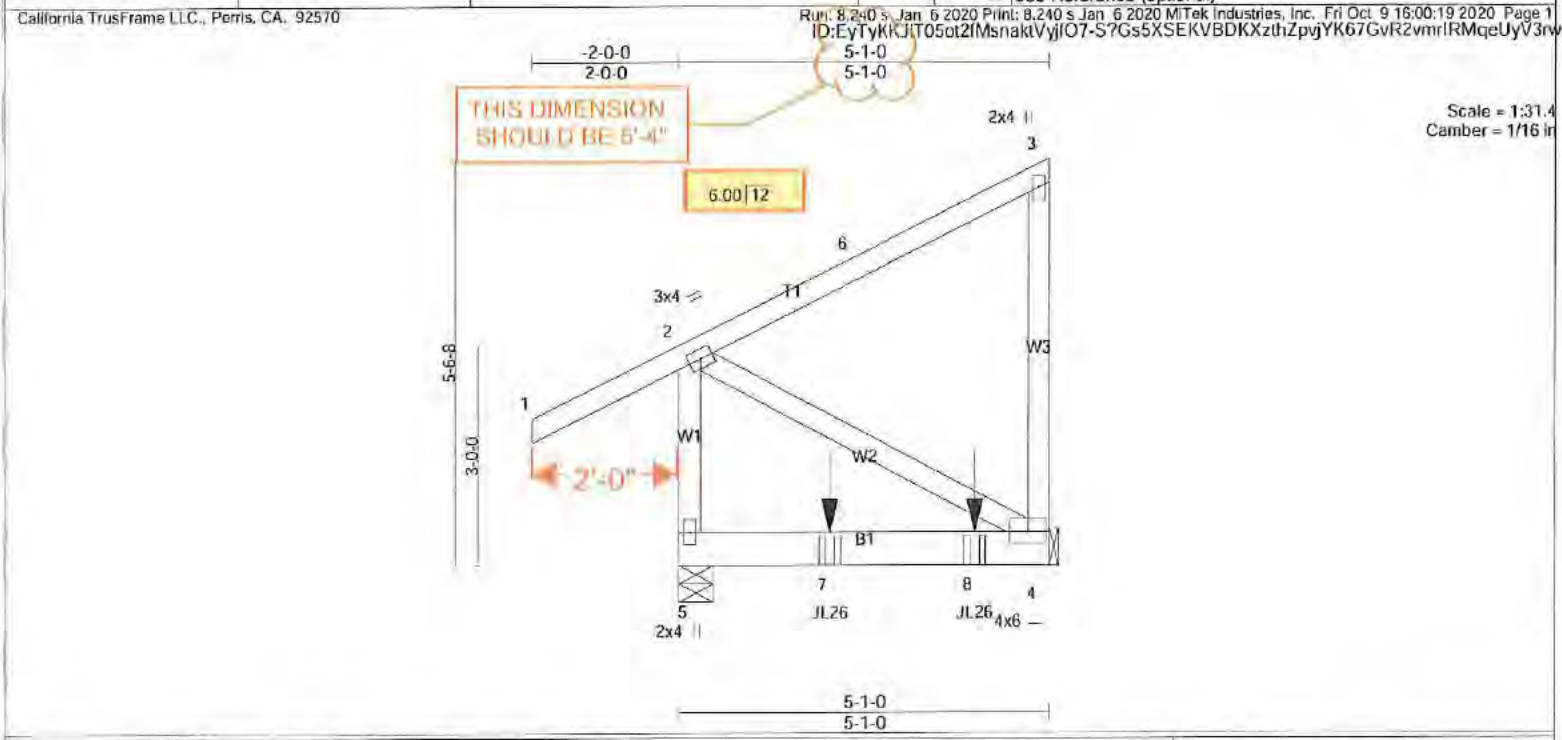
NOTES-

- 1) Wind: ASCE 7-10; Vu1=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -2-0-0 to 1-0-0, Exterior(2) 1-0-0 to 4-11-4 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
- 2) 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.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 1-4-0 oc.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * 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.
- 7) A plate rating reduction of 20% has been applied for the green lumber members.
- 8) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 9) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 10) This truss has been designed for a total seismic drag load of 665 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 5-1-0 for 665.0 plf.
- 11) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)

Standard



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)	-0.03	4-5	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.45	Vert(CT)	-0.12	4-5	>475	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.03	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP							
									Weight: 77 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x6 DF SS G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 5-1-0 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

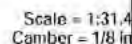
REACTIONS. (lb/size)
5 = 1202/0-5-8 (min. 0-1-8)
4 = 1410/Mechanical
Max Horz
5 = 239(LC 5)
Max Uplift
5 = -122(LC 8)
4 = -243(LC 5)
Max Grav
5 = 1202(LC 1)
4 = 1470(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-5=-477/67, 3-4=-371/52

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) A plate rating reduction of 20% has been applied for the green lumber members.
7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

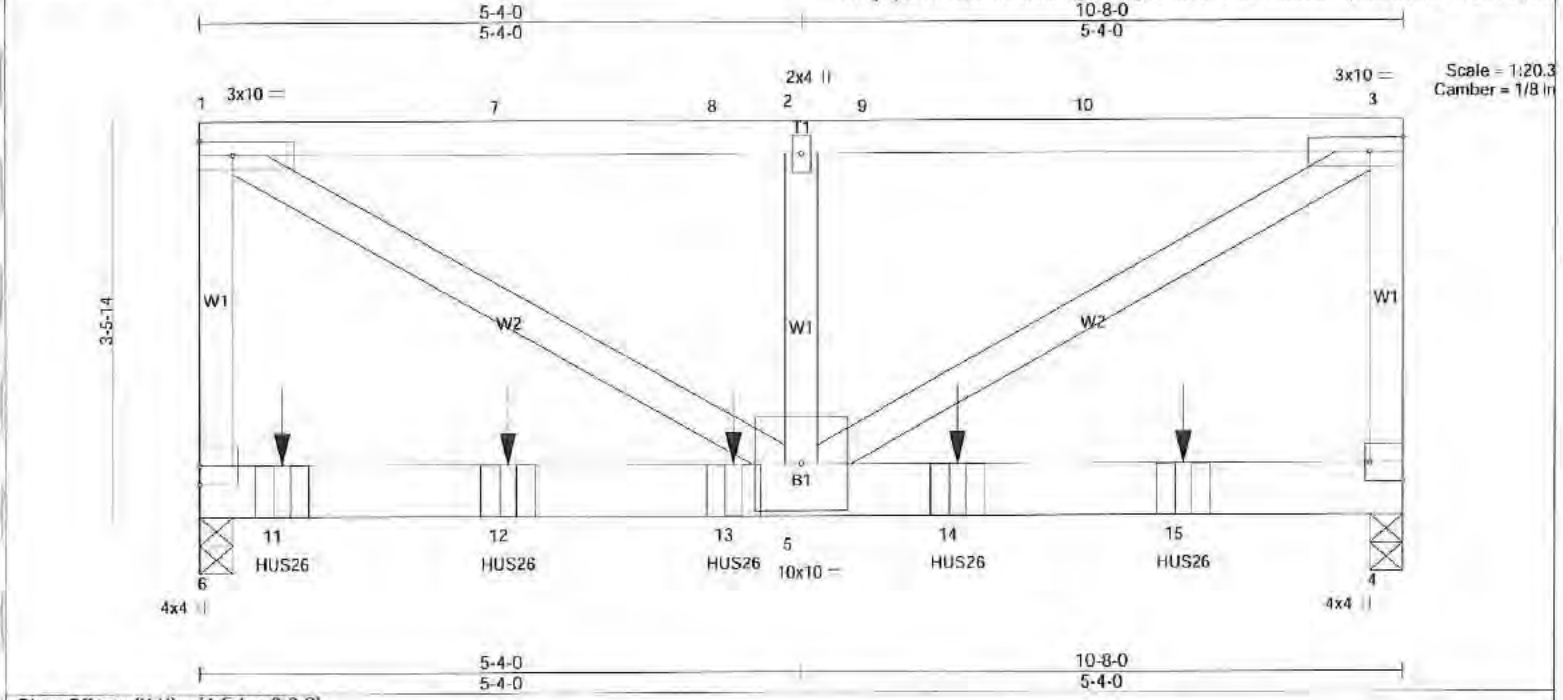
8) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
9) Use USP JL26 (With 6-16d nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 4-0-12 to connect truss(es) AD02 (1 ply 2x4 DF) to front face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.
11) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)
Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-74, 2-3=-74, 4-5=-18
Concentrated Loads (lb)
Vert: 7=-1005(F) 8=-1007(F)



NOTES:-

- 1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; 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 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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 6) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 7) Use USP JL26 (With 6-10d nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent at 2-0-12 from the left end to connect truss(es) AE01 (1 ply 2x4 DF) to back face of bottom chord.



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.05	MT20		220/195	
TCDL	17.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.15				
BCLL	0.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.00				
BCDL	9.0	Code IBC2015/TPI2014		Matrix-MSH							
								Weight: 127 lb FT = 20%			

LUMBER-
 TOP CHORD 2x4 DF No.2 G
 BOT CHORD 2x6 DF No.2 G
 WEBS 2x4 DF Stud/Std G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS. (lb/size)
 6 = 3633/0-3-8 (min. 0-1-15)
 4 = 2972/0-3-8 (min. 0-1-9)
 Max Horz
 6 = -128(LC 24)
 Max Uplift
 6 = -610(LC 4)
 4 = -502(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 1-6=-2147/390, 1-7=-3376/554, 7-8=-3376/554, 2-8=-3376/554,
 2-9=-3376/554, 9-10=-3376/554, 3-10=-3376/554,
 3-4=-2151/391
 WEBS
 1-5=-653/3808, 2-5=-467/166, 3-5=-655/3819

NOTES-
 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9'-0" oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-8'-0" oc.
 Webs connected as follows: 2x4 - 1 row at 0-9'-0" oc.
 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 3) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 4) Provide adequate drainage to prevent water ponding.
 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
 7) A plate rating reduction of 20% has been applied for the green lumber members.

8) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 9) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 10) Use USP HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2'-0" oc max. starting at 0'-8"-12" from the left end to 8'-8"-12" to connect truss(es) AA10 (1 ply 2x4 DF) to front face of bottom chord.
 11) Fill all nail holes where hanger is in contact with lumber.
 12) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)
 Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-3=-74, 4-6=-18
 Concentrated Loads (lb)
 Vert: 11=-1133(F) 12=-1129(F) 13=-1129(F) 14=-1129(F) 15=-1129(F)



LUMBER-
 TOP CHORD 2x4 DF No.2 G
 BOT CHORD 2x6 DF No.2 G
 WEBS 2x4 DF Stud/Std G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 2-5-6 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

Mitek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 8) Use USP JL24 (With 4-10d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-8-12 from the left end to 8-8-12 to connect truss(es) AA11 (1 ply 2x4 DF) to back face of bottom chord.
 9) Fill all nail holes where hanger is in contact with lumber.
 10) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.
 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
 1-6=-1221/233, 1-7=-1620/276, 7-8=-1620/276, 2-8=-1620/276,
 2-9=-1620/276, 9-10=-1620/276, 3-10=-1620/276,
 3-4=-1223/233
WEBS
 1-5=-343/1852, 2-5=-487/149, 3-5=-344/1856

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCFL=10.2psf;
BCFL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone;
cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60
plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
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) This truss is designed in accordance with the 2015 International Building Code section
2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S)
Standard

NOTES:-

- 1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDF=10,2psf; BCDF=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 3) Provide adequate drainage to prevent water ponding.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1'-4" oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 1-5-9 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

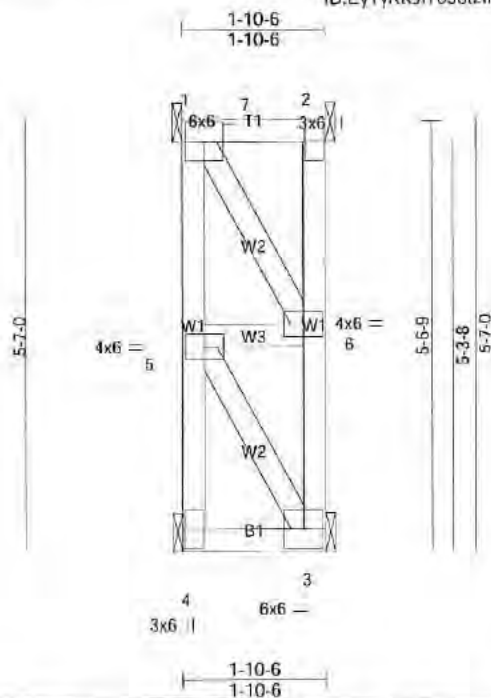
7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
8) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip WOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-5-9 for 400.0 plf.
9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

REACTIONS (lb/size)	LOAD CASE(S) Standard
---------------------	--------------------------

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

NOTES:

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCCL 20.0	Plate Grip DOL	1.25	TC 0.21	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.47	Horz(CT)	0.03	2	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-P						Weight: 28 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

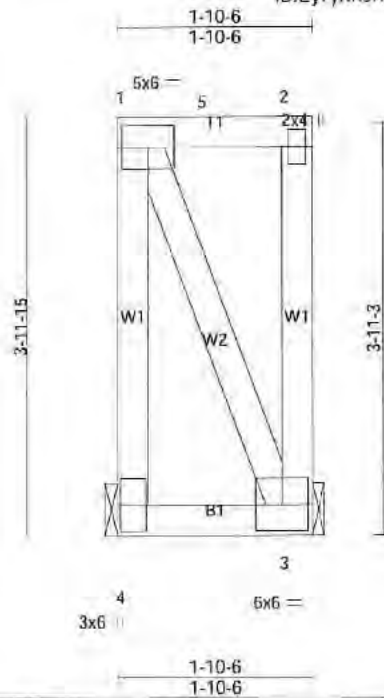
7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
8) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 400.0 plf.
9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
10) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

REACTIONS. All bearings Mechanical.
(lb) - Max Horz
4=-217(LC 8)
Max Uplift
All uplift 100 lb or less at joint(s) except 4=-521(LC 25),
1=-1571(LC 25), 3=-1579(LC 26), 2=-513(LC 26)
Max Grav
All reactions 250 lb or less at joint(s) except 4=543(LC 24), 1=1614(LC 24), 3=1602(LC 23), 2=556(LC 23)

LOAD CASE(S)
Standard

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
4-5=-529/529, 1-5=-529/529, 1-7=-567/567, 2-7=-315/315,
3-6=-529/529, 2-6=-529/529
BOT CHORD
3-4=-567/567
WEBS
3-5=-1231/1231, 5-6=-629/629, 1-6=-1231/1231

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
2) Provide adequate drainage to prevent water ponding.
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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



Scale = 1:22.0

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 0.56	Vert(LL) -0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL 1.25	BC 0.09	Vert(CT) -0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.61	Horz(CT) 0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014	Matrix-MP					Weight: 19 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing.

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- 7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 8) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 400.0 plf.
 9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

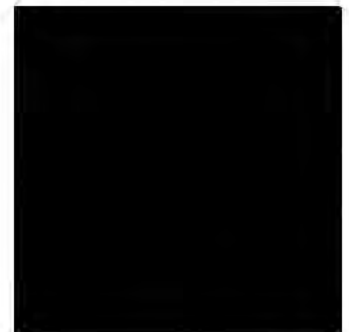
LOAD CASE(S)
 Standard

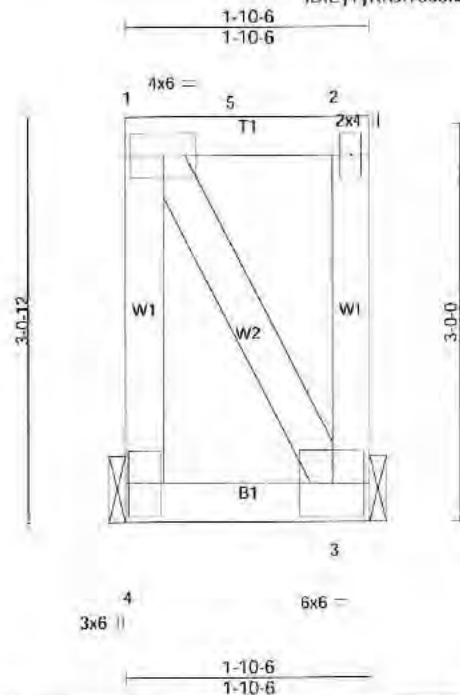
REACTIONS. (lb/size)

4	=	72/Mechanical
3	=	72/Mechanical
Max Horz		
4	=	-152(LC 8)
Max Uplift		
4	=	-1457(LC 25)
3	=	-1457(LC 26)
Max Grav		
4	=	1522(LC 24)
3	=	1522(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 1-4=-1508/1465, 1-5=-566/566, 2-5=-315/315, 2-3=-333/39
 BOT CHORD
 3-4=-566/566
 WEBS
 1-3=-1609/1609

- NOTES-**
 1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 2) Provide adequate drainage to prevent water ponding.
 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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.





Scale = 1:17.4

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.42	Vert(LL) -0.00	4 >999	240	MT20	220/195
TCDL 17.0	Lumber DOL 1.25	BC 0.09	Vert(CT) -0.00	4 >999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.49	Horz(CT) 0.00	3 n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014	Matrix-MP				Weight: 16 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

BRACING-

TOP CHORD
Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

8) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 400.0 plf.

9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

REACTIONS. (lb/size)

4	=	72/Mechanical
3	=	72/Mechanical
Max Horiz		
4	=	-114(LC 8)
Max Uplift		
4	=	-1084(LC 25)
3	=	-1084(LC 26)
Max Grav		
4	=	1149(LC 24)
3	=	1149(LC 23)

LOAD CASE(5)

Standard

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

TOP CHORD
1-4=-1135/1092, 1-5=-566/566, 2-5=-315/315, 2-3=-333/39
BOT CHORD
3-4=-566/566
WEBS
1-3=-1274/1274

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

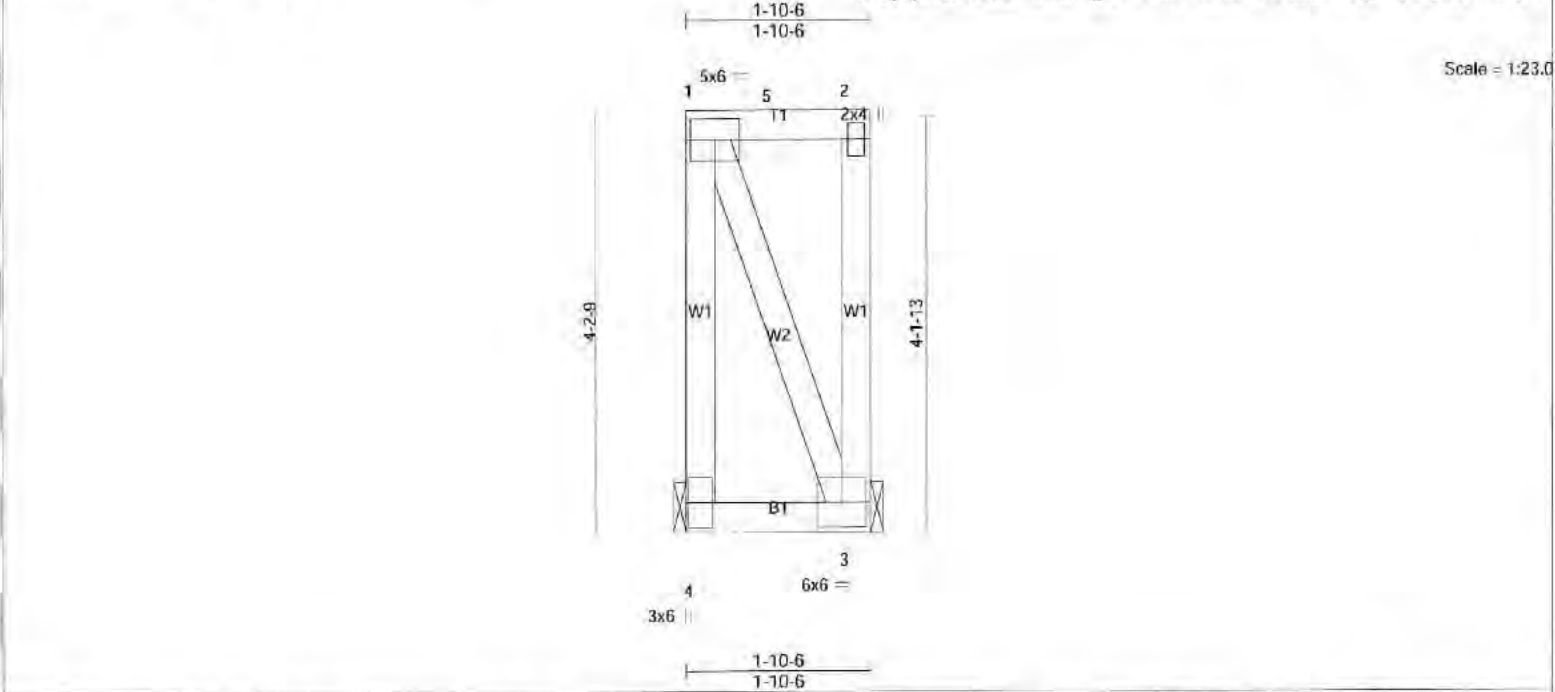
2) Provide adequate drainage to prevent water ponding.

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" tall by 2'-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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCCL 20.0	Plate Grip DOL	1.25	TC 0.59	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.00	4	>999	180		
BCCL 0.0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP						Weight: 20 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
8) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 400.0 plf.
9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

REACTIONS. (lb/size)

4 = 72/Mechanical

3 = 72/Mechanical

Max Horz

4 = -161(LC 8)

Max Uplift

4 = -1544(LC 25)

3 = -1544(LC 26)

Max Grav

4 = 1610(LC 24)

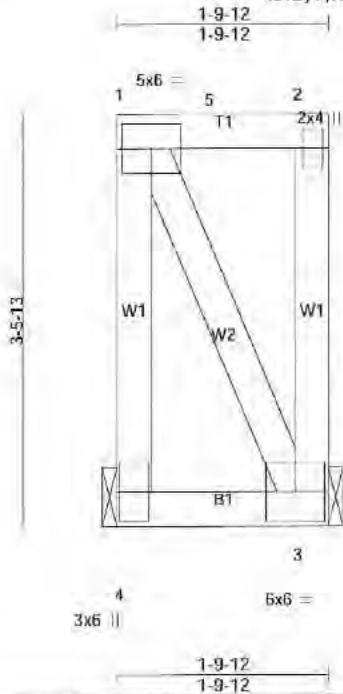
3 = 1610(LC 23)

LOAD CASE(S)

Standard

FORCES. (lb) - Max. Comp /Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-4=-1595/1553, 1-5=-566/566, 2-5=-315/315, 2-3=-333/39
BOT CHORD
3-4=-566/566
WEBS
1-3=-1690/1690

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
2) Provide adequate drainage to prevent water ponding.
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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



Scale = 1:19.6

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 0.48	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.54	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-P						Weight: 17 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 1-9-12 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

7) * 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.

8) A plate rating reduction of 20% has been applied for the green lumber members.

9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

10) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

11) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-9-12 for 400.0 plf.

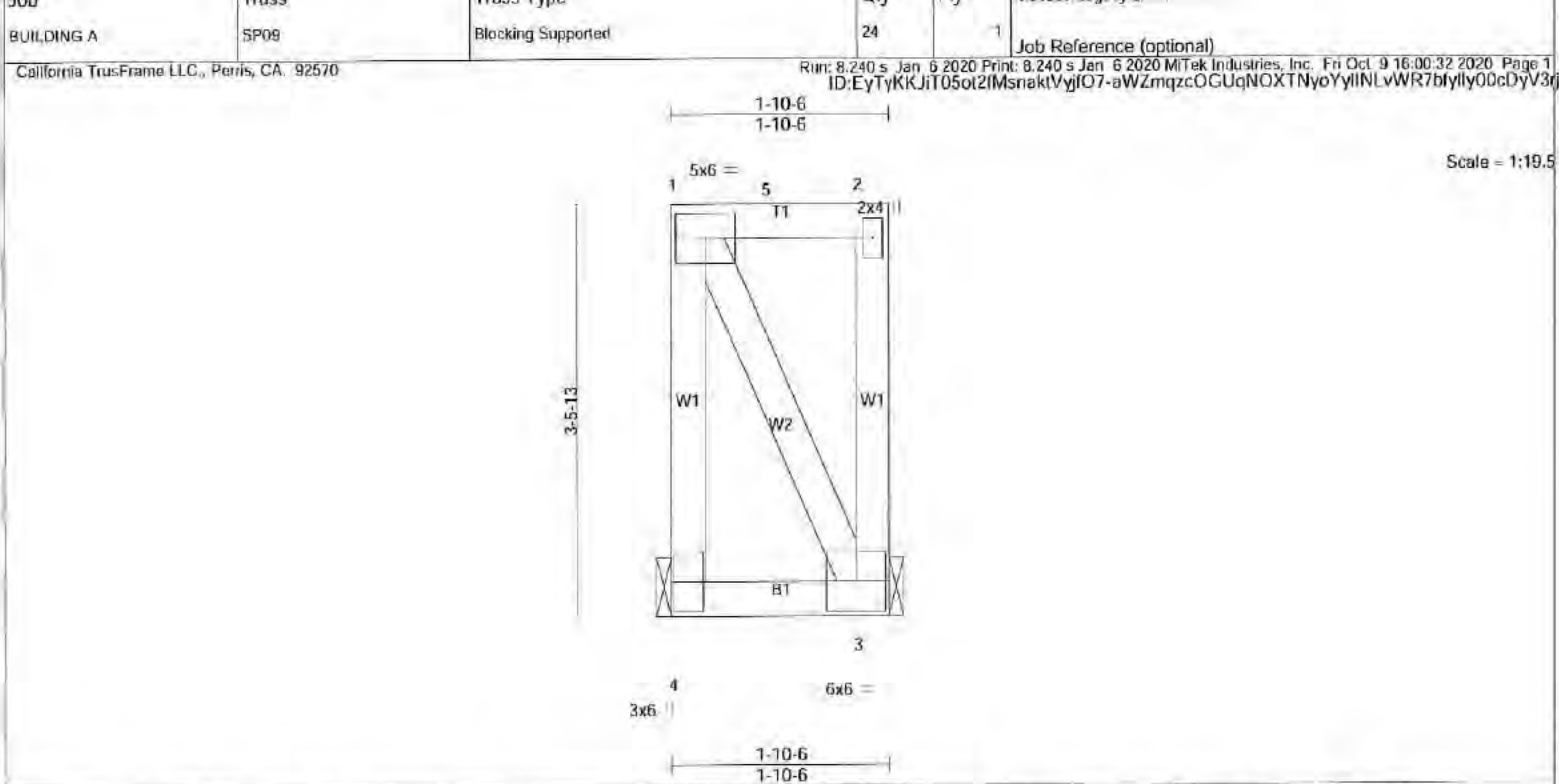
12) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

REACTIONS. (lb/size)
4 = 70/Mechanical
3 = 70/Mechanical
Max Horz
4 = -131(LC 8)
Max Uplift
4 = -1254(LC 25)
3 = -1254(LC 26)
Max Grav
4 = 1317(LC 24)
3 = 1317(LC 23)

FORCES. (lb) - Max, Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-4=-1303/1262, 1-5=-547/547, 2-5=-304/304, 2-3=-332/37
BOT CHORD
3-4=-548/548
WEBS
1-3=-1415/1415

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
2) 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.
3) Provide adequate drainage to prevent water ponding.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

LOAD CASE(S)
Standard



LOADING (psf)	SPACING- 2-0-0	CSI	DEFL. in (loc)	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.48	Vert(LL) -0.00 4 >999	240	MT20	220/195
TCDL 17.0	Lumber DOL 1.25	BC 0.09	Vert(CT) -0.00 4 >999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.54	Horz(CT) 0.00 3 n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014	Matrix-P				
					Weight: 17 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

4 = 72/Mechanical

3 = 72/Mechanical

Max Horz

4 = -131(LC 8)

Max Uplift

4 = -1253(LC 25)

3 = -1253(LC 26)

Max Grav

4 = 1319(LC 24)

3 = 1319(LC 23)

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

TOP CHORD

1-4=-1304/1262, 1-5=-566/566, 2-5=-315/315, 2-3=-333/66

BOT CHORD

3-4=-566/566

WEBS

1-3=-1424/1424

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) 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.

3) Provide adequate drainage to prevent water ponding.

4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

5) Gable studs spaced at 1-4-0 oc.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * 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.

8) A plate rating reduction of 20% has been applied for the green lumber members.

9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

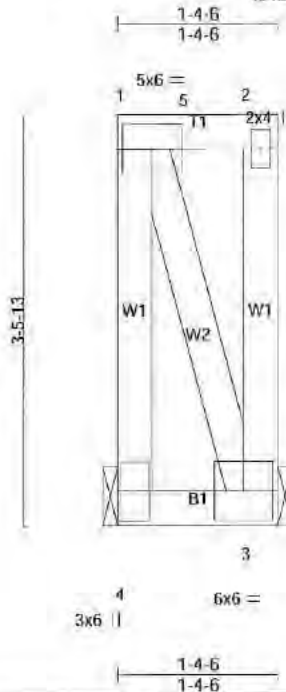
10) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

11) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 400.0 plf.

12) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)

Standard



Scale = 1:19.5

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 0.48	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.51	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-P						Weight: 16 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 1-4-6 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

4 = 49/Mechanical

3 = 49/Mechanical

Max Horz

4 = -131(LC 8)

Max Uplift

4 = -1261(LC 25)

3 = -1261(LC 26)

Max Grav

4 = 1306(LC 24)

3 = 1306(LC 23)

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

TOP CHORD

1-4=-1296/1267, 1-5=-386/386, 2-3=-324/45

BOT CHORD

3-4=-386/386

WEBS

1-3=-1348/1348

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) 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.

3) Provide adequate drainage to prevent water ponding.

4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

5) Gable studs spaced at 1-4-0 oc.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * 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.

8) A plate rating reduction of 20% has been applied for the green lumber members.

9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

10) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

11) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-4-6 for 400.0 plf.

12) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)

Standard

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

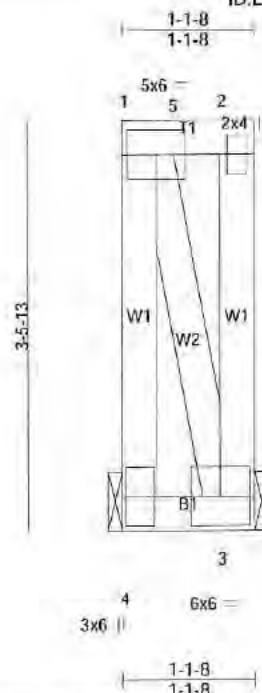
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 1-0-4 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

7) * 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.
8) A plate rating reduction of 20% has been applied for the green lumber members.
9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
11) This truss has been designed for a total seismic drag load of 400 plf. Lumber

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
 1-4=-1290/1270, 1-5=-263/262, 2-3=-318/18
BOT CHORD
 3-4= 263/263
WEBS
 1-3=-1310/1310

100



Scale = 1:19.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	I/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.48	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	-0.00	4	>999	180		
BCLL 9.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.00	3	n/a	n/a		
BCDL 0.0	Code IBC2015/TP12014		Matrix-P						Weight: 15 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

BRACING-

TOP CHORD
Structural wood sheathing directly applied or 1-1-8 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

4	=	38/Mechanical
3	=	38/Mechanical
Max Horz		
4	=	-131(LC 8)
Max Uplift		
4	=	-1265(LC 25)
3	=	-1265(LC 26)
Max Grav		
4	=	1299(LC 24)
3	=	1299(LC 23)

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

TOP CHORD
1-4=-1292/1269, 1-5=-300/300, 2-3=-320/35
BOT CHORD
3-4=-300/300
WEBS
1-3=-1320/1320

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) 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.

3) Provide adequate drainage to prevent water ponding.

4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

5) Gable studs spaced at 1-4-0 oc.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.

8) A plate rating reduction of 20% has been applied for the green lumber members.

9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

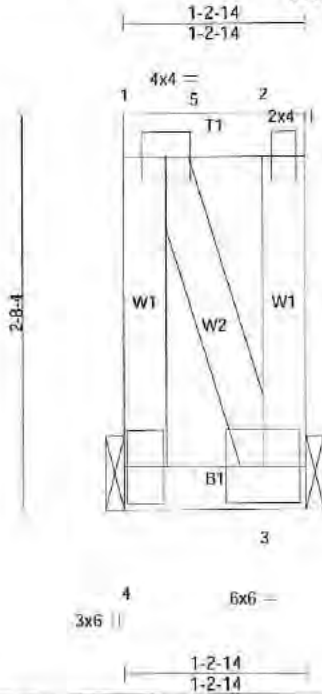
10) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

11) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-1-8 for 400.0 plf.

12) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)

Standard



Scale = 1:15.6

LOADING (psf)	SPACING-	2-0-0	CSI	DEFL.	in (loc)	V/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.36	Vert(LL)	0.00 4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	-0.00 4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.39	Horz(CT)	0.00 3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-P						
								Weight: 12 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 1-2-14 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

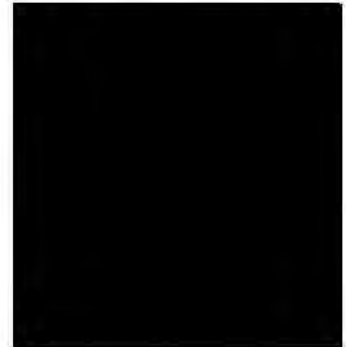
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) A plate rating reduction of 20% has been applied for the green lumber members.
9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
11) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-2-14 for 400.0 plf.
12) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

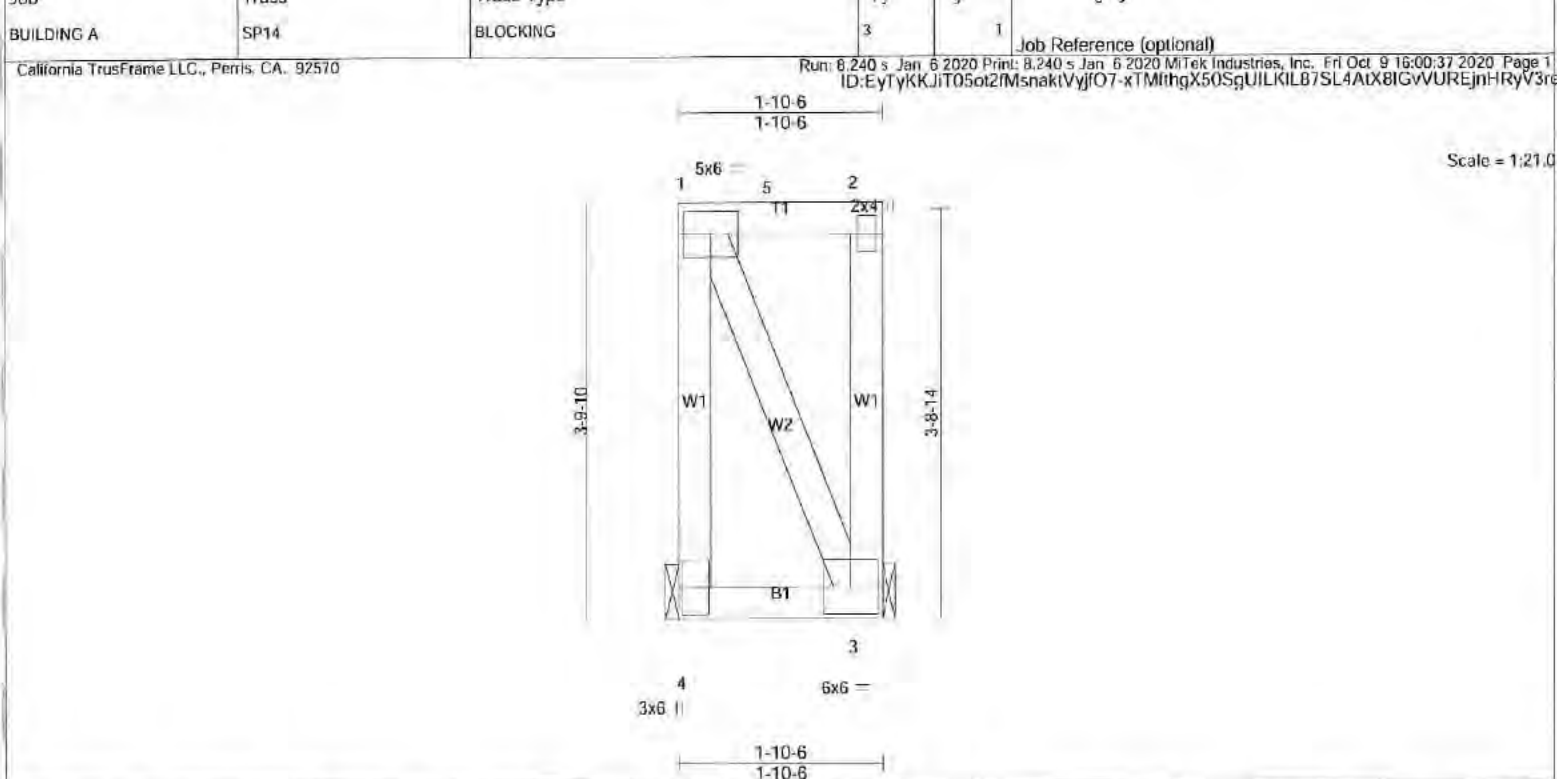
REACTIONS. (lb/size)	
4 =	44/Mechanical
3 =	44/Mechanical
Max Horz	
4 =	-98(LC 8)
Max Uplift	
4 =	-944(LC 25)
3 =	-944(LC 26)
Max Grav	
4 =	983(LC 24)
3 =	983(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-4= 974/949, 1-5= 341/341, 2-3= 322/40
BOT CHORD
3-4= 341/341
WEBS
1-3= 1031/1031

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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.
3) Provide adequate drainage to prevent water ponding.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

LOAD CASE(S)
Standard





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 0.53	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.59	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP						Weight: 18 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc bracing.

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

8) This truss has been designed for a total seismic drag load of 400 plf, Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 400.0 plf.

9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)

Standard

REACTIONS. (lb/size)

4 = 72/Mechanical

3 = 72/Mechanical

Max Horz

4 = -144(LC 8)

Max Uplift

4 = -1380(LC 25)

3 = -1380(LC 26)

Max Grav

4 = 1445(LC 24)

3 = 1445(LC 23)

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

TOP CHORD

1-4=-1431/1388, 1-5=-566/566, 2-5=-315/315, 2-3=-333/39

BOT CHORD

3-4=-566/566

WEBS

1-3=-1539/1539

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCGL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

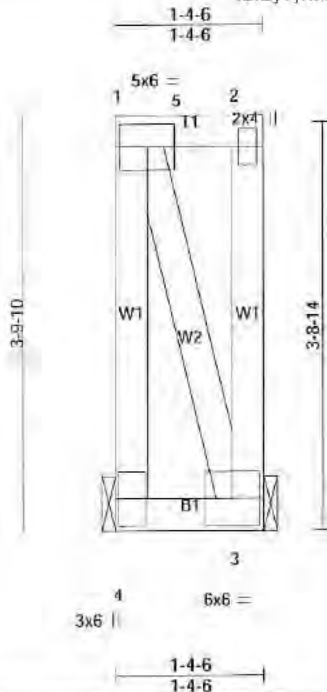
2) Provide adequate drainage to prevent water ponding.

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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



Scale = 1:21.1

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 0.53	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP						Weight: 17 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 1-4-6 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

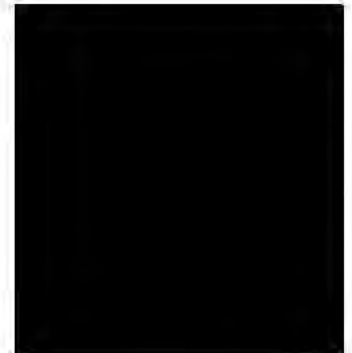
7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
8) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-4-6 for 400.0 plf.
9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

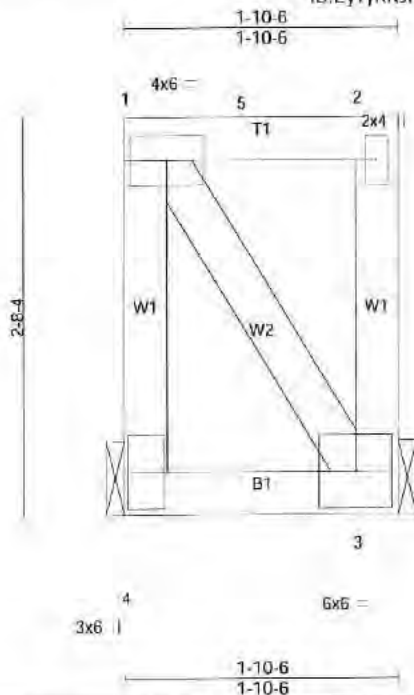
REACTIONS. (lb/size)	
4 =	49/Mechanical
3 =	49/Mechanical
Max Horz	
4 =	-144(LC 8)
Max Uplift	
4 =	-1387(LC 25)
3 =	-1387(LC 26)
Max Grav	
4 =	1432(LC 24)
3 =	1432(LC 23)

LOAD CASE(S)
Standard

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-4=-1422/1393, 1-5=-386/386, 2-3=-324/26
BOT CHORD
3-4=-386/386
WEBS
1-3=-1468/1468

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
2) Provide adequate drainage to prevent water ponding.
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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.





Scale = 1:15.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.36	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.44	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-P						Weight: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

7) * 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.
8) A plate rating reduction of 20% has been applied for the green lumber members.
9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
11) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 400.0 plf.
12) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

REACTIONS. (lb/size)	LOAD CASE(S)
4 = 72/Mechanical	Standard
3 = 72/Mechanical	
Max Horz	
4 = -98(LC 8)	
Max Uplift	
4 = -934(LC 25)	
3 = -934(LC 26)	
Max Grav	
4 = 999(LC 24)	
3 = 999(LC 23)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-4=-985/942, 1-5=-566/566, 2-5=-315/315, 2-3=-333/66
BOT CHORD
3-4=-566/566
WEBS
1-3=-1146/1146

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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.
3) Provide adequate drainage to prevent water ponding.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

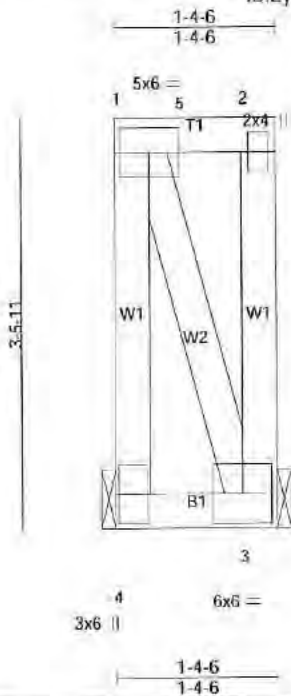




Weight: 12 lb FT = 20%

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Standard



Scale = 1:19.4

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 0.48	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.51	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-P						Weight: 16 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 1-4-6 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

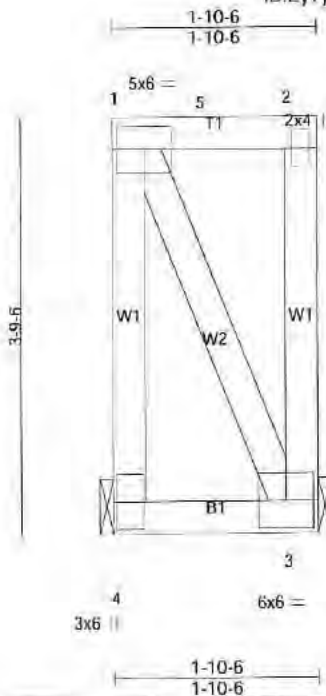
REACTIONS. (lb/size)
4 = 49/Mechanical
3 = 49/Mechanical
Max Horz
4 = -131(LC 8)
Max Uplift
4 = -1257(LC 25)
3 = -1257(LC 26)
Max Grav
4 = 1301(LC 24)
3 = 1301(LC 23)

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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.
3) Provide adequate drainage to prevent water ponding.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * 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.
8) A plate rating reduction of 20% has been applied for the green lumber members.
9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
11) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-4-6 for 400.0 plf.
12) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)
Standard





Scale = 1:20.9

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 0.53	Vert(LL)	-0.00	4	>999	240	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.00	4	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.00	3	n/a	n/a	
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP						
Weight: 18 lb									FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
8) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 400.0 plf.
9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

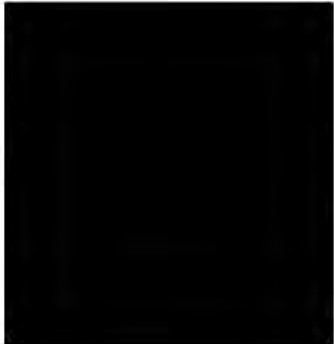
REACTIONS. (lb/size)

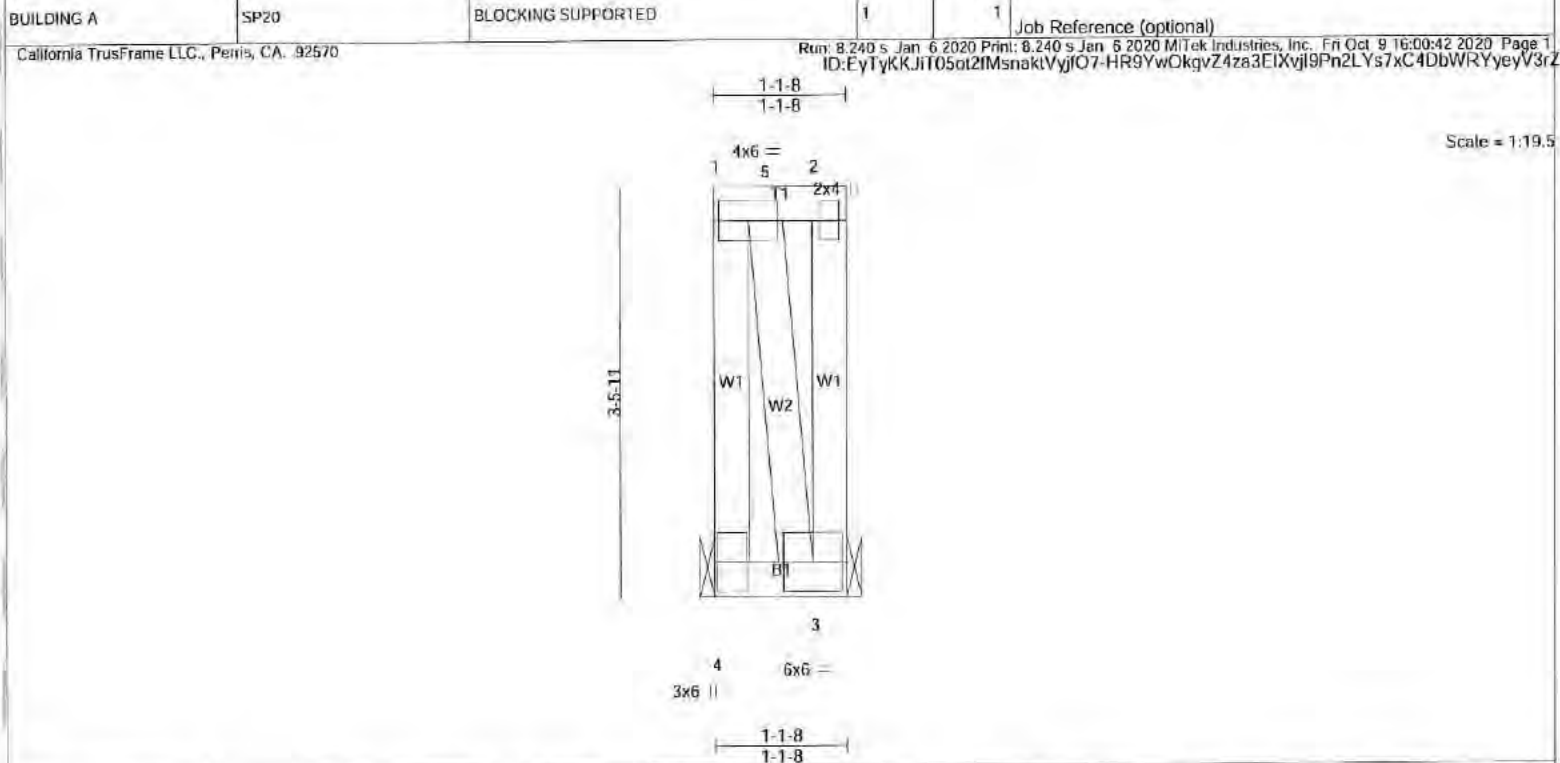
4	=	72/Mechanical
3	=	72/Mechanical
Max Horz		
4	=	143(LC 9)
Max Uplift		
4	=	-1371(LC 25)
3	=	-1371(LC 26)
Max Grav		
4	=	1436(LC 24)
3	=	1436(LC 23)

LOAD CASE(S)
Standard

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-4=-1422/1379, 1-5= 566/566, 2-5=-315/315, 2-3=-333/39
BOT CHORD
3-4=-566/566
WEBS
1-3=-1531/1531

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psi; BCDL=5.4psi; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 2) Provide adequate drainage to prevent water ponding.
 - 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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.





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 0.48	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-P						Weight: 15 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 1-1-8 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

4 = 38/Mechanical

3 = 38/Mechanical

Max Horz

4 = -131(LC 8)

Max Uplift

4 = -1260(LC 25)

3 = -1260(LC 26)

Max Grav

4 = 1295(LC 24)

3 = 1295(LC 23)

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

TOP CHORD

1-4=-1288/1265, 1-5=-300/300, 2-3=-320/20

BOT CHORD

3-4= -300/300

WEBS

1-3=-1316/1316

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

2) 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.

3) Provide adequate drainage to prevent water ponding.

4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

5) Gable studs spaced at 1-4-0 oc.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * 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.

8) A plate rating reduction of 20% has been applied for the green lumber members.

9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

10) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

11) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-1-8 for 400.0 plf.

12) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)

Standard

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

8) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 400.0 plf.

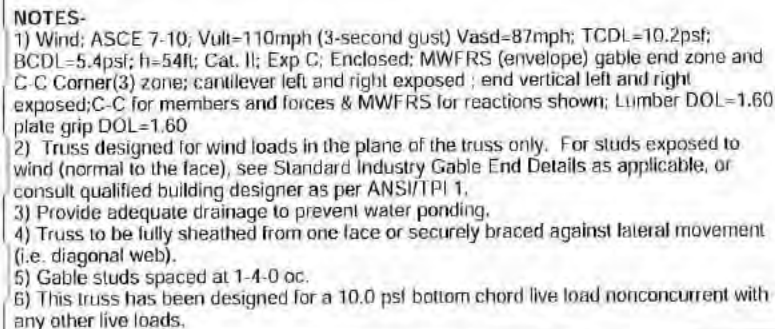
9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

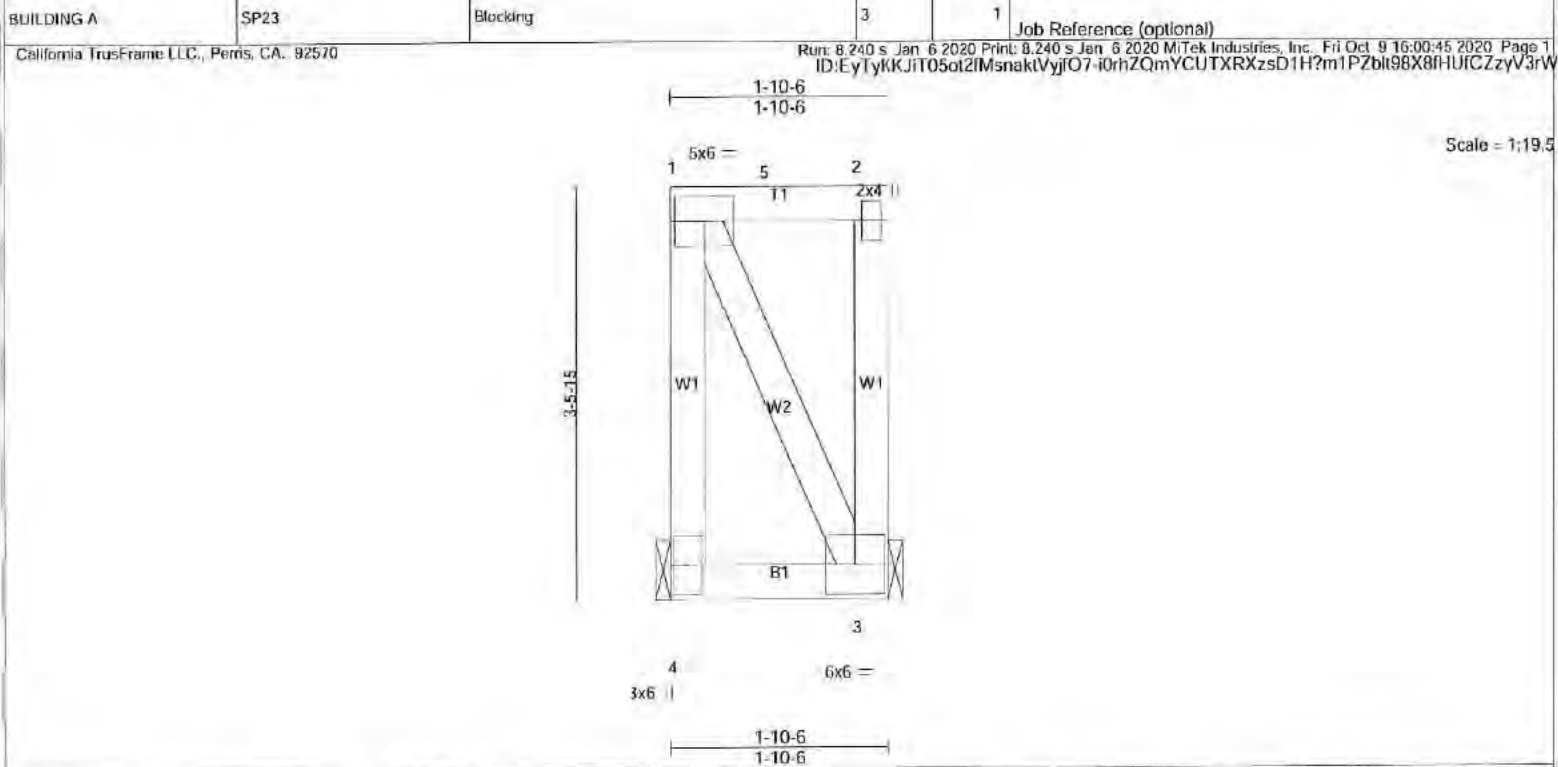
Mitek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
 1-4=-1523/1480, 1-5=-566/566, 2-5=-315/315, 2-3=-333/39
BOT CHORD
 3-4=-566/566
WEBS
 1-3=-1623/1623

1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 26

Scale = 1:19.5





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 0.48	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.55	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP						Weight: 17 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

8) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 400.0 plf.

9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

REACTIONS. (lb/size)

4 = 72/Mechanical

3 = 72/Mechanical

Max Horz

4 = 132(LC 9)

Max Uplift

4 = -1257(LC 25)

3 = -1257(LC 26)

Max Grav

4 = 1322(LC 24)

3 = 1322(LC 23)

LOAD CASE(S)

Standard

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

TOP CHORD

1-4=-1308/1265, 1-5=-566/566, 2-5=-315/315, 2-3=-333/39

BOT CHORD

3-4=-566/566

WEBS

1-3=-1427/1427

- NOTES-

1) Wind; ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

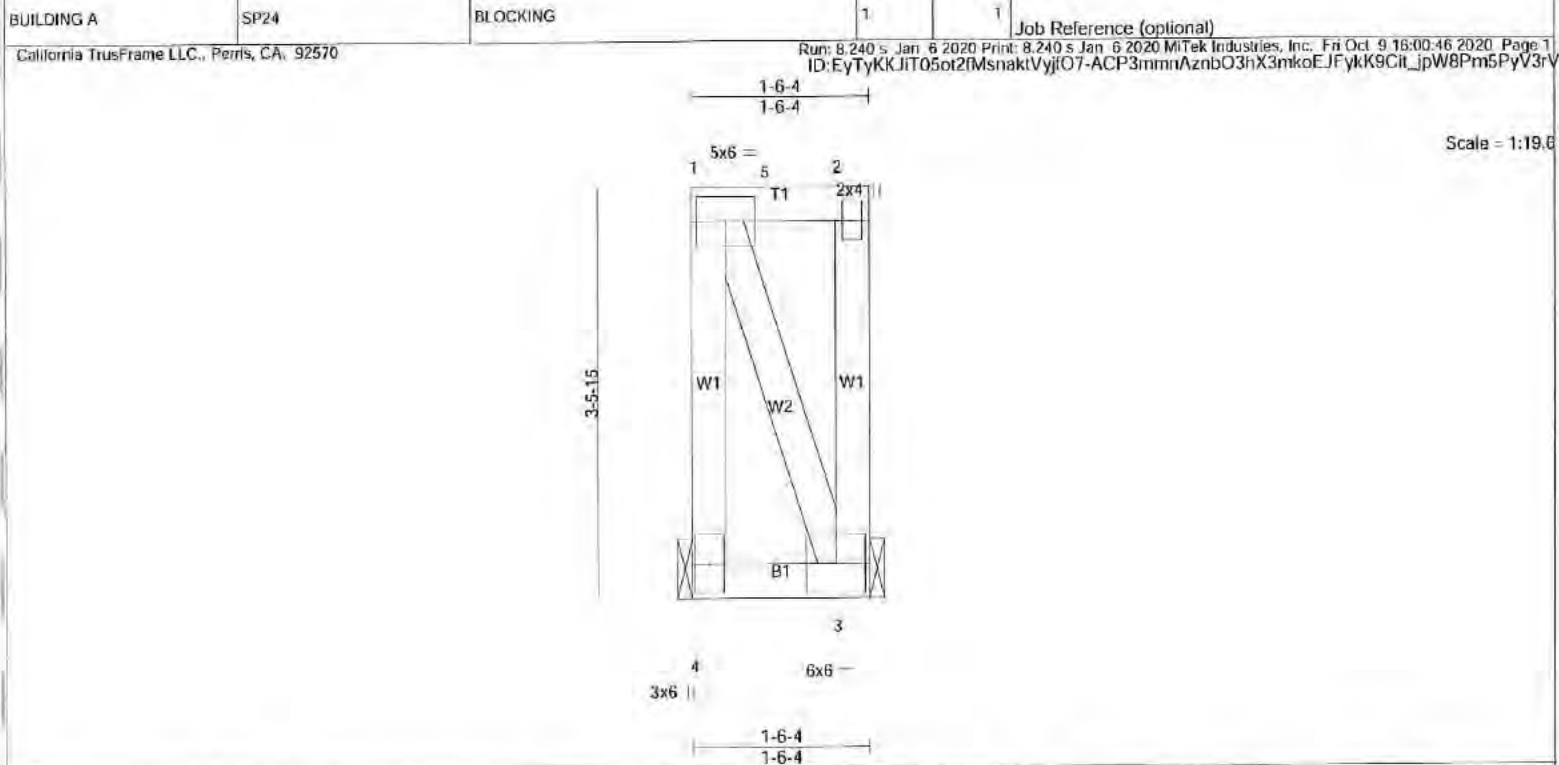
2) Provide adequate drainage to prevent water ponding.

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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
-



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 0.48	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.52	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP						Weight: 16 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 1-6-4 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

8) This truss has been designed for a total seismic drag load of 400 plf, Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-6-4 for 400.0 plf.

9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)

Standard

REACTIONS. (lb/size)

4 = 57/Mechanical

3 = 57/Mechanical

Max Horz

4 = 132(LC 9)

Max Uplift

4 = -1262(LC 25)

3 = -1262(LC 26)

Max Grav

4 = 1313(LC 24)

3 = 1313(LC 23)

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

TOP CHORD

1-4=-1302/1269, 1-5=-443/443, 2-3=-327/30

BOT CHORD

3-4=-442/442

WEBS

1-3=-1372/1372

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

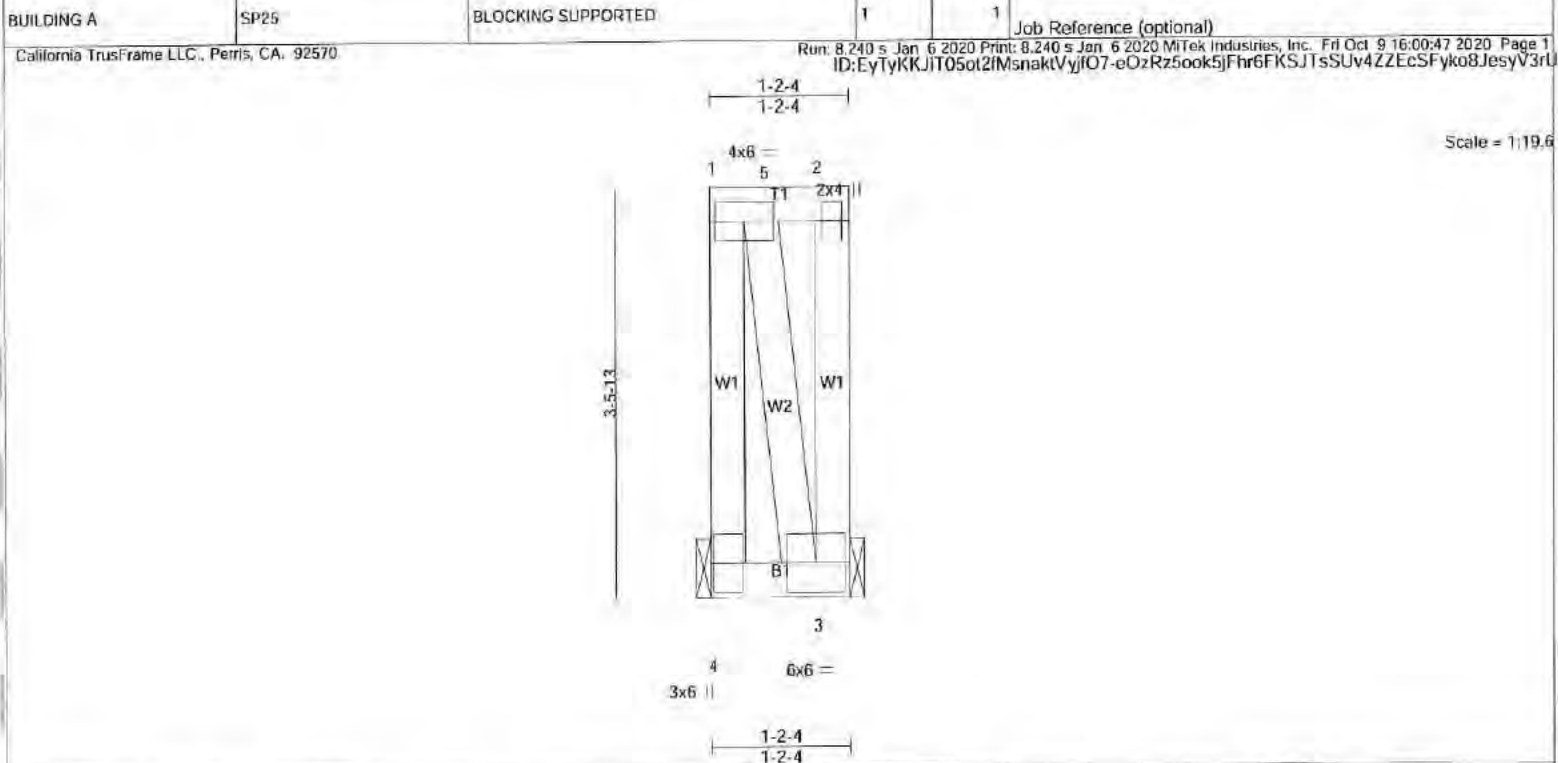
2) Provide adequate drainage to prevent water ponding.

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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



LOADING (psf)	SPACING	2-0-0	CSI	DEFL.	in	(loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.48	Vert(LI)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.51	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-P						Weight: 15 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 1-2-4 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

4 = 41/Mechanical

3 = 41/Mechanical

Max Horz

4 = -131(LC 8)

Max Uplift

4 = -1264(LC 25)

3 = -1264(LC 26)

Max Grav

4 = 1301(LC 24)

3 = 1301(LC 23)

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

TOP CHORD

1-4=-1293/1268, 1-5=-322/323, 2-3=-321/38

BOT CHORD

3-4=-322/322

WEBS

1-3=-1327/1327

NOTES-

1) Wind, ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) 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.

3) Provide adequate drainage to prevent water ponding.

4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

5) Gable studs spaced at 1-4-0 oc.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * 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.

8) A plate rating reduction of 20% has been applied for the green lumber members.

9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

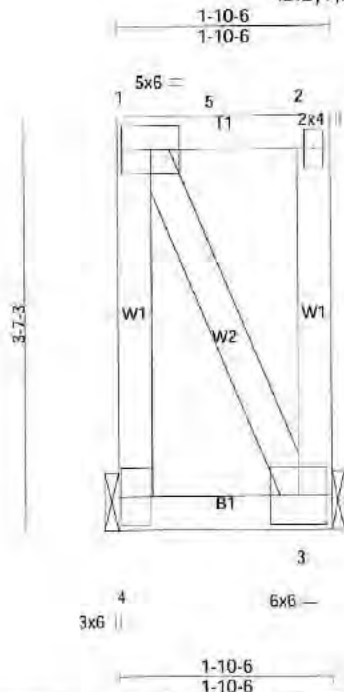
10) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

11) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-2-4 for 400.0 plf.

12) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)

Standard



Scale = 1:20.0

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 0.50	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP						Weight: 18 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
8) This truss has been designed for a total seismic drag load of 400 plf, Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 400.0 plf.
9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

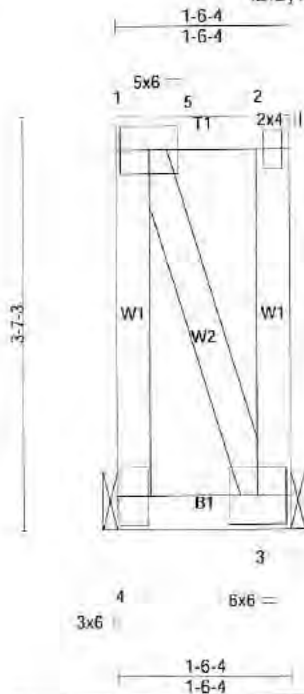
REACTIONS. (lb/size)	
4 =	72/Mechanical
3 =	72/Mechanical
Max Horz	
4 =	-136(LC 8)
Max Uplift	
4 =	-1299(LC 25)
3 =	-1299(LC 26)
Max Grav	
4 =	1364(LC 24)
3 =	1364(LC 23)

LOAD CASE(S)
Standard

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-4=-1350/1307, 1-5=-566/566, 2-5=-315/315, 2-3=-333/39
BOT CHORD
3-4=-566/566
WEBS
1-3=-1465/1465

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
2) Provide adequate drainage to prevent water ponding.
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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.





Scale = 1:20.1

LOADING (psf)	SPACING-	2-0-0	CSI,	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.50	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.54	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP						Weight: 17 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 1-6-4 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
8) This truss has been designed for a total seismic drag load of 400 plf, Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-6-4 for 400.0 plf.
9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

REACTIONS. (lb/size)

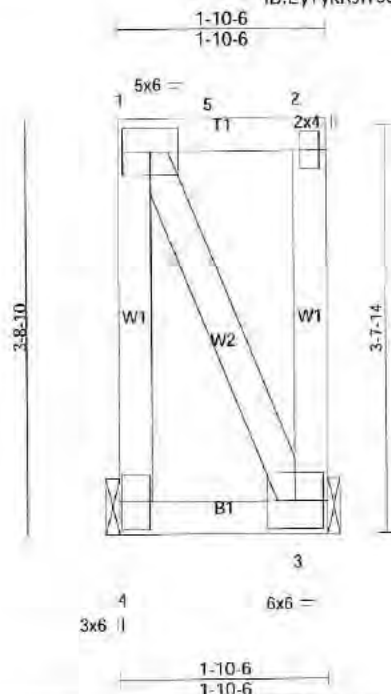
4	=	57/Mechanical
3	=	57/Mechanical
Max Horz		
4	=	-136(LC 8)
Max Uplift		
4	=	-1304(LC 25)
3	=	-1304(LC 26)
Max Grav		
4	=	1355(LC 24)
3	=	1355(LC 23)

LOAD CASE(S)
Standard

FORCES. (lb) - Max, Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-4=-1344/1311, 1-5=-443/443, 2-3=-327/30
BOT CHORD
3-4=-442/442
WEBS
1-3=-1412/1412

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 2) Provide adequate drainage to prevent water ponding.
 - 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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.





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 0.52	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP						Weight: 18 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

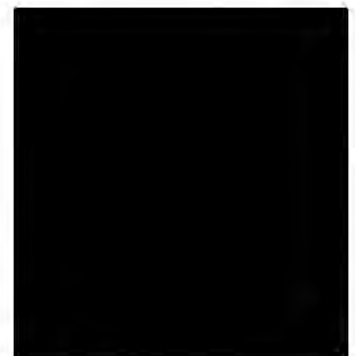
7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
8) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 400.0 plf.
9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

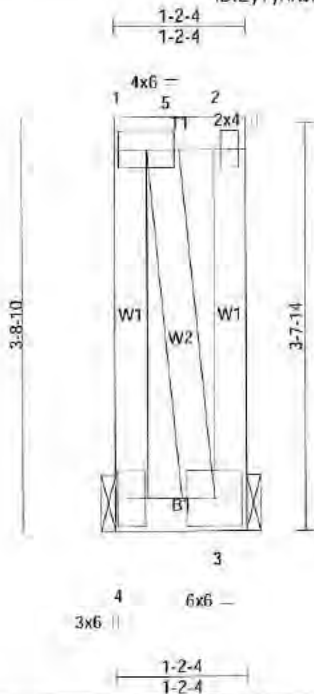
REACTIONS. (lb/size)	
4 =	72/Mechanical
3 =	72/Mechanical
Max Horz	
4 =	-141(LC 8)
Max Uplift	
4 =	-1346(LC 25)
3 =	-1346(LC 26)
Max Grav	
4 =	1412(LC 24)
3 =	1412(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-4=-1398/1355, 1-5=-566/566, 2-5=-315/315, 2-3=-333/39
BOT CHORD
3-4=-566/566
WEBS
1-3=-1508/1508

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCCL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
2) Provide adequate drainage to prevent water ponding.
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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S)
Standard





Scale = 1:20.7

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.52	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.54	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP						Weight: 16 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 1-2-4 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
8) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-2-4 for 400.0 plf.
9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

REACTIONS. (lb/size)

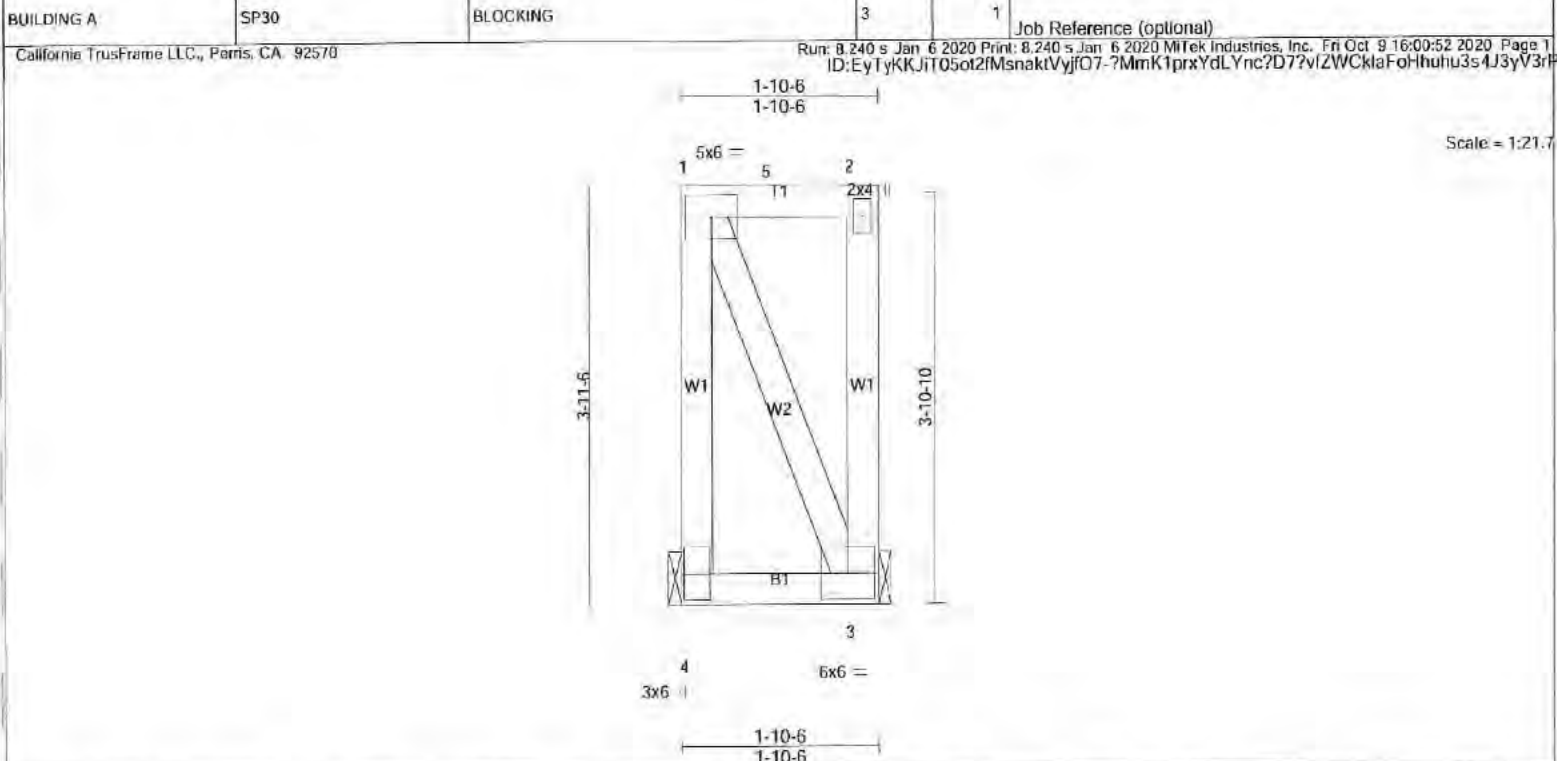
4 = 41/Mechanical
3 = 41/Mechanical
Max Horz
4 = -141(LC 8)
Max Uplift
4 = -1357(LC 25)
3 = -1357(LC 26)
Max Grav
4 = 1394(LC 24)
3 = 1394(LC 23)

LOAD CASE(S)
Standard

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-4=-1386/1362, 1-5=-322/323, 2-3=-321/22
BOT CHORD
3-4=-322/322
WEBS
1-3=-1417/1417

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 2) Provide adequate drainage to prevent water ponding.
 - 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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.





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 0.55	Vert(LL)	0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.61	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TP12014		Matrix-MP						Weight: 19 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc bracing.

Mitek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

8) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 400.0 plf.

9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

REACTIONS. (lb/size)

4 = 72/Mechanical

3 = 72/Mechanical

Max Horz

4 = -150(LC B)

Max Uplift

4 = -1438(LC 25)

3 = -1438(LC 26)

Max Grav

4 = 1503(LC 24)

3 = 1503(LC 23)

LOAD CASE(S)

Standard

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

TOP CHORD

1-4=-1489/1446, 1-5=-566/566, 2-5=-315/315, 2-3=-333/39

BOT CHORD

3-4=-566/566

WEBS

1-3=-1592/1592

- NOTES-
- 1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCCL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

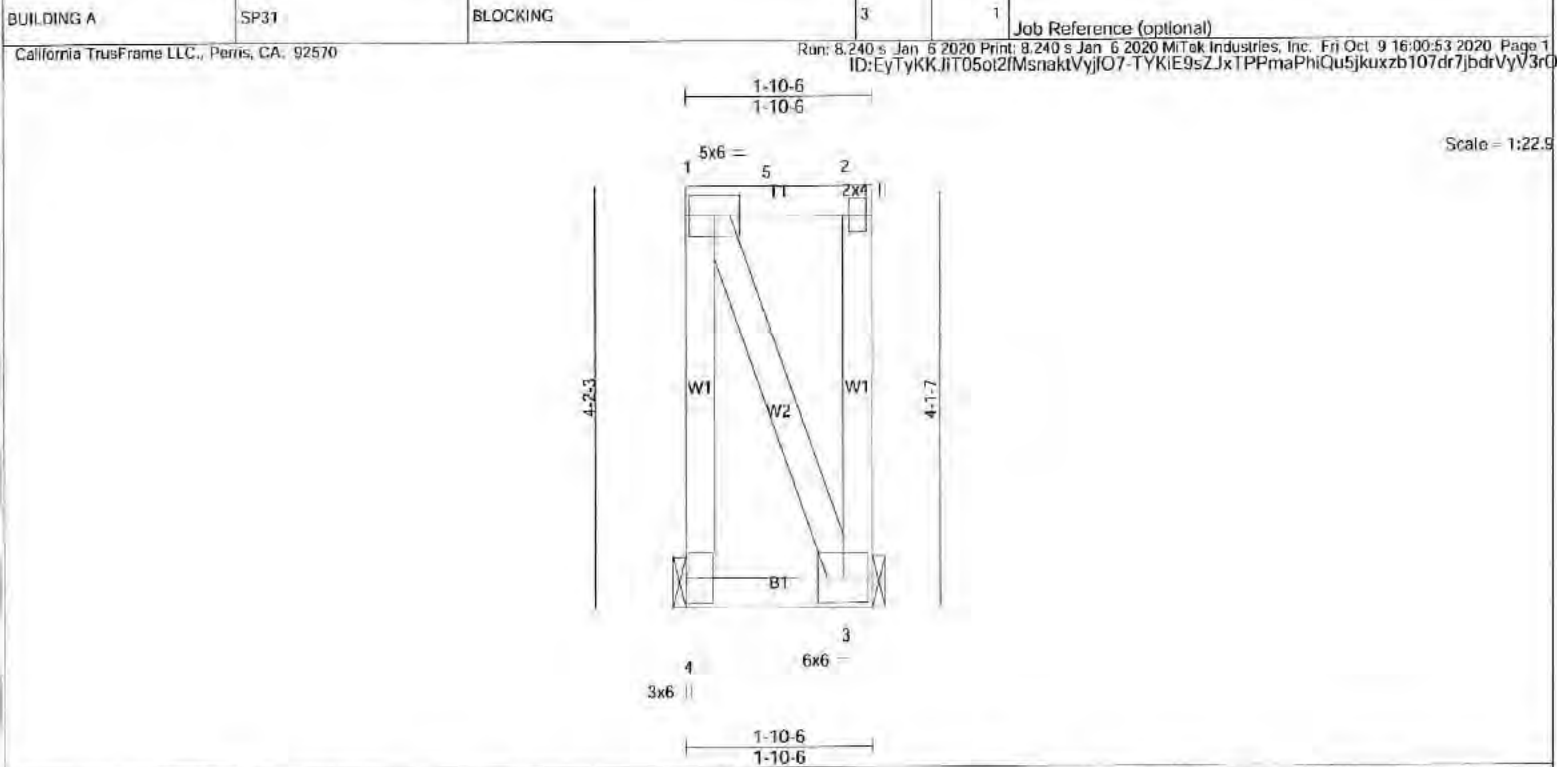
2) Provide adequate drainage to prevent water ponding.

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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
-



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 0.59	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.64	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP						Weight: 20 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

8) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 400.0 plf.

9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)

Standard

REACTIONS. (lb/size)

4 = 72/Mechanical

3 = 72/Mechanical

Max Horz

4 = -160(LC 8)

Max Uplift

4 = -1532(LC 25)

3 = -1532(LC 26)

Max Grav

4 = 1597(LC 24)

3 = 1597(LC 23)

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

TOP CHORD

1-4=-1583/1540, 1-5=-566/566, 2-5=-315/315, 2-3=-333/39

BOT CHORD

3-4=-566/566

WEBS

1-3=-1679/1679

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; caniliever 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

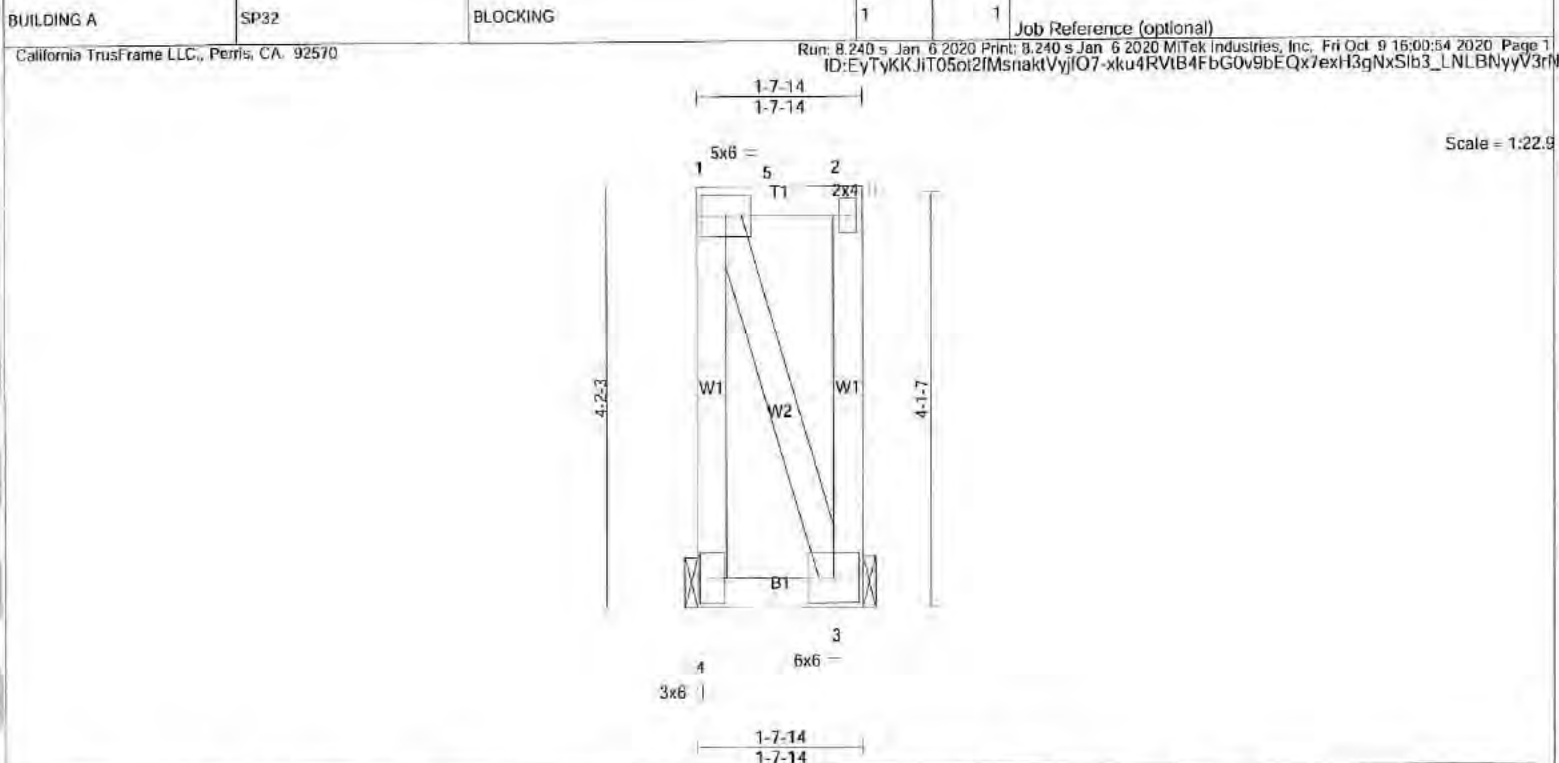
2) Provide adequate drainage to prevent water ponding.

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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.59	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.63	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP						Weight: 19 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 1-7-14 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

8) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-7-14 for 400.1 plf.

9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

REACTIONS. (lb/size)

4 = 63/Mechanical

3 = 63/Mechanical

Max Horz

4 = -160(LC 8)

Max Uplift

4 = -1535(LC 25)

3 = -1535(LC 26)

Max Grav

4 = 1592(LC 24)

3 = 1592(LC 23)

LOAD CASE(S)

Standard

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

TOP CHORD

1-4=-1579/1542, 1-5=-491/491, 2-5=-273/273, 2-3=-329/34

BOT CHORD

3-4=-491/491

WEBS

1-3=-1649/1649

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

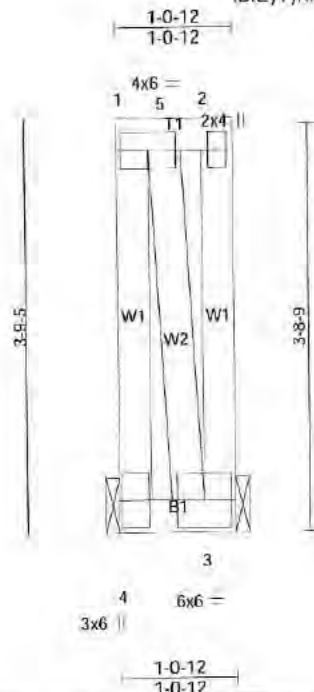
2) Provide adequate drainage to prevent water ponding.

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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



Scale = 1:21.0

LOADING (psf)

TCLL 20.0
TCDL 17.0
BCLL 0.0 *
BCDL 9.0

SPACING-

2-0-0

Plate Grip DOL 1.25
Lumber DOL 1.25
Rep Stress Incr YES
Code IBC2015/TPI2014

CSI.

TC 0.53
BC 0.04
WB 0.55
Matrix-MP

DEFL.

in (loc) I/defl L/d
Vert(LL) -0.00 4 >999 240
Vert(CT) -0.00 4 >999 180
Horz(CT) 0.00 3 n/a n/a

PLATES

MT20

GRIP

220/195

Weight: 16 lb FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

BRACING-**TOP CHORD**

Structural wood sheathing directly applied or 1-0-12 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

4 = 35/Mechanical
3 = 35/Mechanical
Max Horz
4 = 143(LC 9)
Max Uplift
4 = -1382(LC 25)
3 = -1382(LC 26)
Max Grav
4 = 1414(LC 24)
3 = 1414(LC 23)

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

TOP CHORD
1-4=-1407/1386, 1-5=-278/278, 2-3=-319/19
BOT CHORD
3-4=-278/278
WEBS
1-3=-1427/1427

NOTES-

- 1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
- 2) Provide adequate drainage to prevent water ponding.
- 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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

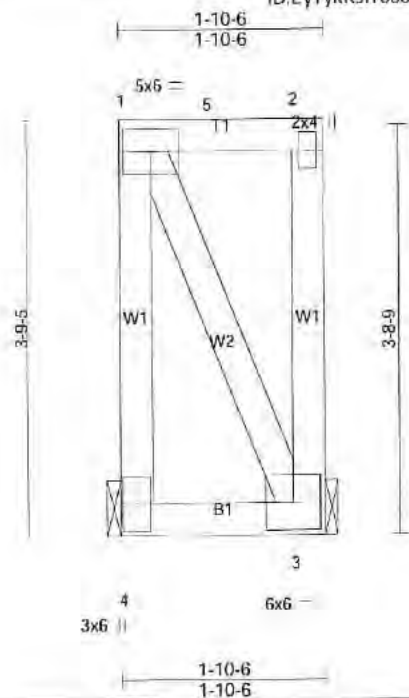
7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

8) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33). Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-0-12 for 400.0 plf.

9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)

Standard



Scale = 1:20.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.53	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP						Weight: 18 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

8) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 400.0 plf.

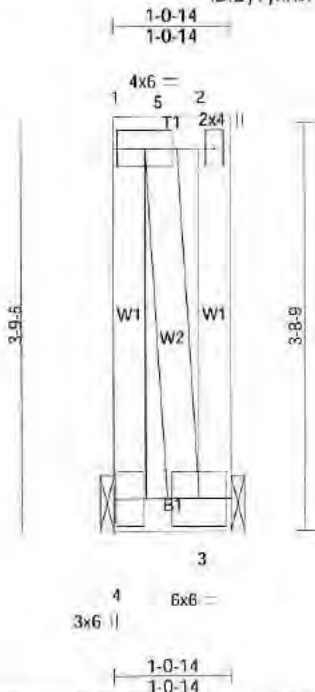
9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

REACTIONS. (lb/size)
4 = 72/Mechanical
3 = 72/Mechanical
Max Horz
4 = 143(LC 9)
Max Uplift
4 = -1369(LC 25)
3 = -1369(LC 26)
Max Grav
4 = 1435(LC 24)
3 = 1435(LC 23)

LOAD CASE(S)
Standard

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-4=-1420/1378, 1-5=-566/566, 2-5=-315/315, 2-3=-333/39
BOT CHORD
3-4=-566/566
WEBS
1-3=-1529/1529

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
2) Provide adequate drainage to prevent water ponding.
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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



Scale = 1:21.0

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 0.53	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.55	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP						Weight: 16 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 1-0-14 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

8) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-0-14 for 400.0 plf.

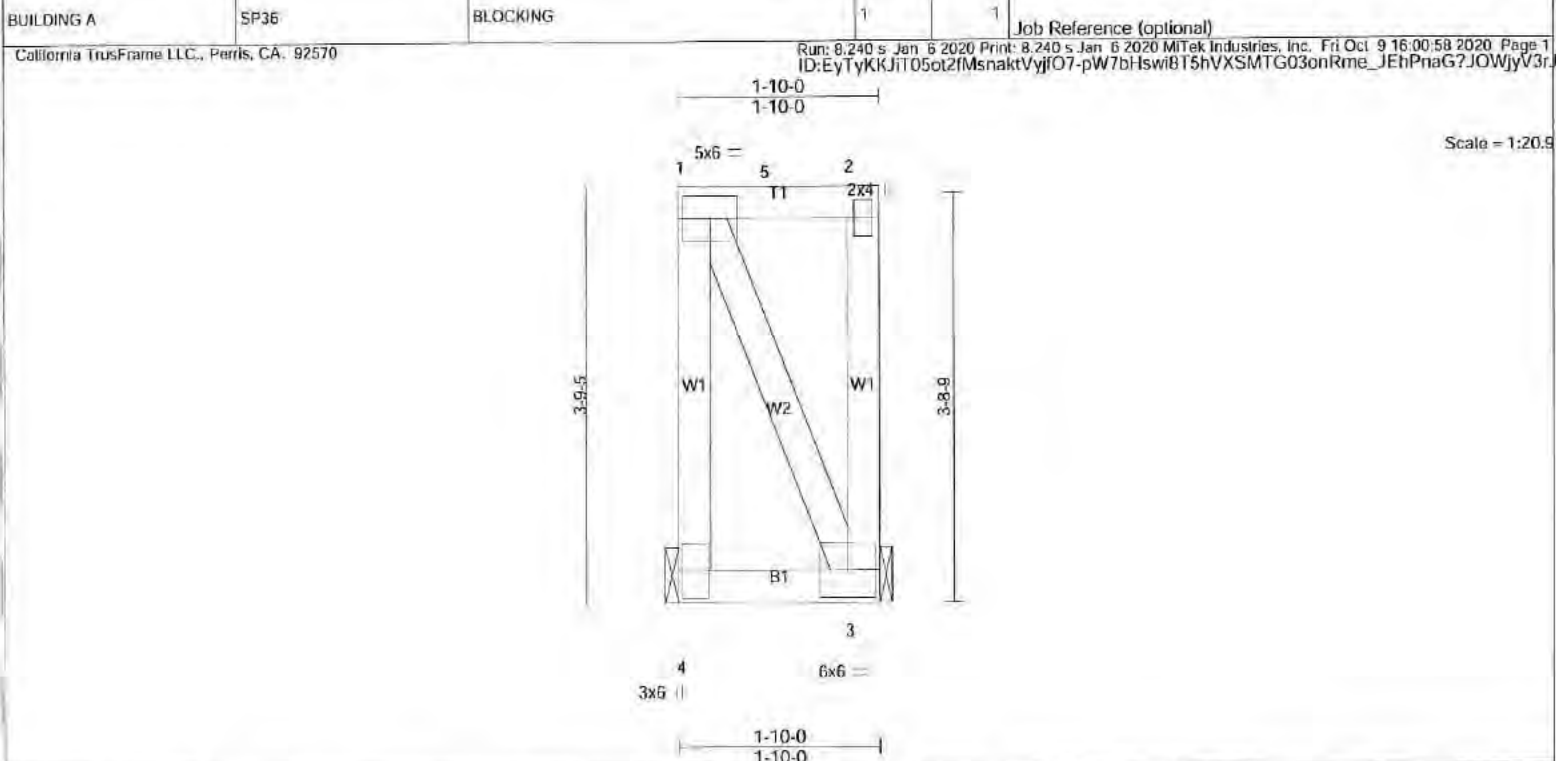
9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

REACTIONS. (lb/size)
4 = 36/Mechanical
3 = 36/Mechanical
Max Horz
4 = 143(LC 9)
Max Uplift
4 = -1382(LC 25)
3 = -1382(LC 26)
Max Grav
4 = 1414(LC 24)
3 = 1414(LC 23)

LOAD CASE(S)
Standard

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-4=-1407/1386, 1-5=-281/281, 2-3=-319/19
BOT CHORD
3-4=-281/281
WEBS
1-3=-1428/1428

- NOTES-**
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
2) Provide adequate drainage to prevent water ponding.
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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



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 0.53	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP						Weight: 18 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 1-10-0 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc bracing.

Mitek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

4 = 71/Mechanical

3 = 71/Mechanical

Max Horz

4 = 143(LC 9)

Max Uplift

4 = -1370(LC 25)

3 = -1370(LC 25)

Max Grav

4 = 1434(LC 24)

3 = 1434(LC 23)

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

TOP CHORD

1-4=-1420/1378, 1-5=-555/555, 2-5=-308/308, 2-3=-332/38

BOT CHORD

3-4=-555/555

WEBS

1-3=-1524/1524

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

2) Provide adequate drainage to prevent water ponding.

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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

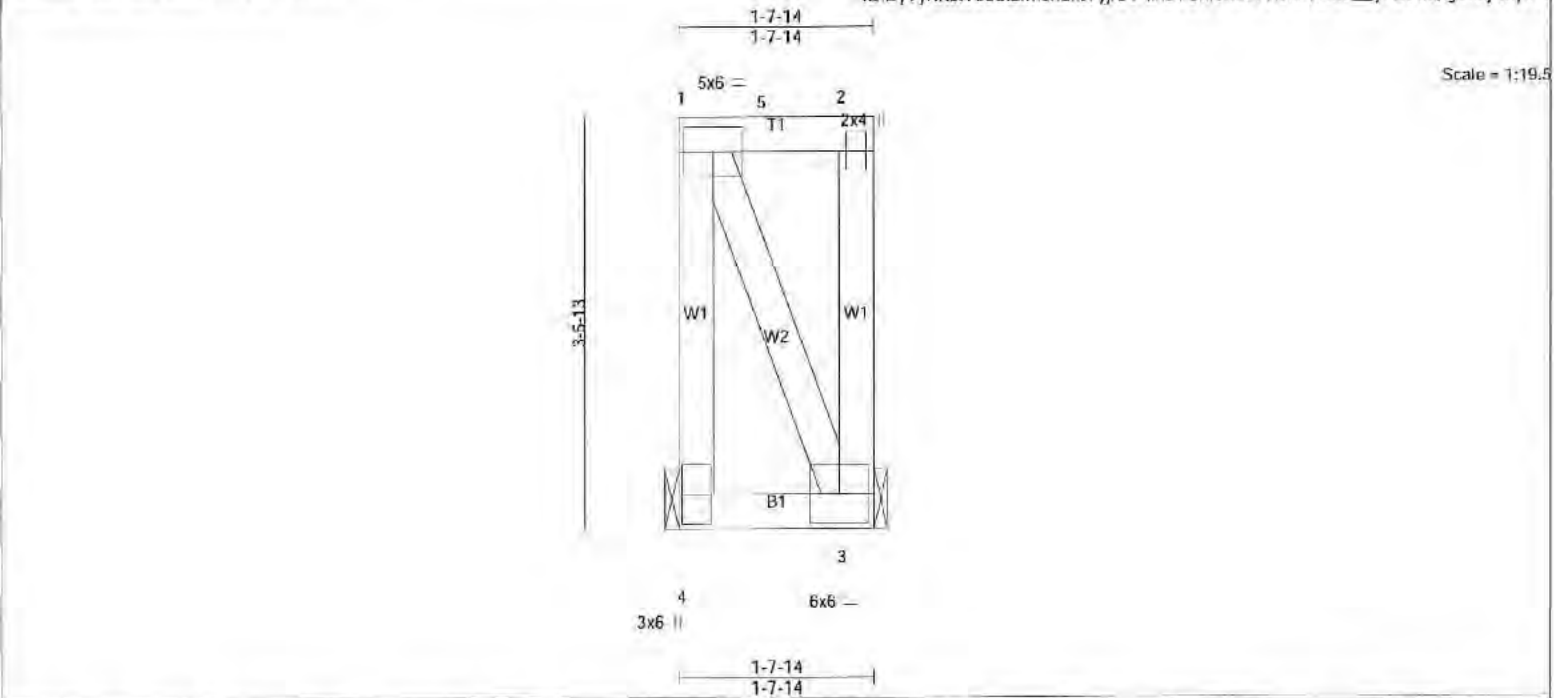
7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

8) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-0 for 400.1 plf.

9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)

Standard



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.48	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.53	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-P						Weight: 17 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 1-7-14 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

4 = 63/Mechanical

3 = 63/Mechanical

Max Horz

4 = -131(LC 8)

Max Uplift

4 = -1256(LC 25)

3 = -1256(LC 26)

Max Grav

4 = 1313(LC 24)

3 = 1313(LC 23)

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

TOP CHORD

1-4=-1301/1264, 1-5=-491/491, 2-5=273/273, 2-3=-329/34

BOT CHORD

3-4=-491/491

WEBS

1-3=-1389/1389

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

2) 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.

3) Provide adequate drainage to prevent water ponding.

4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

5) Gable studs spaced at 1-4-0 oc.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * 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.

8) A plate rating reduction of 20% has been applied for the green lumber members.

9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

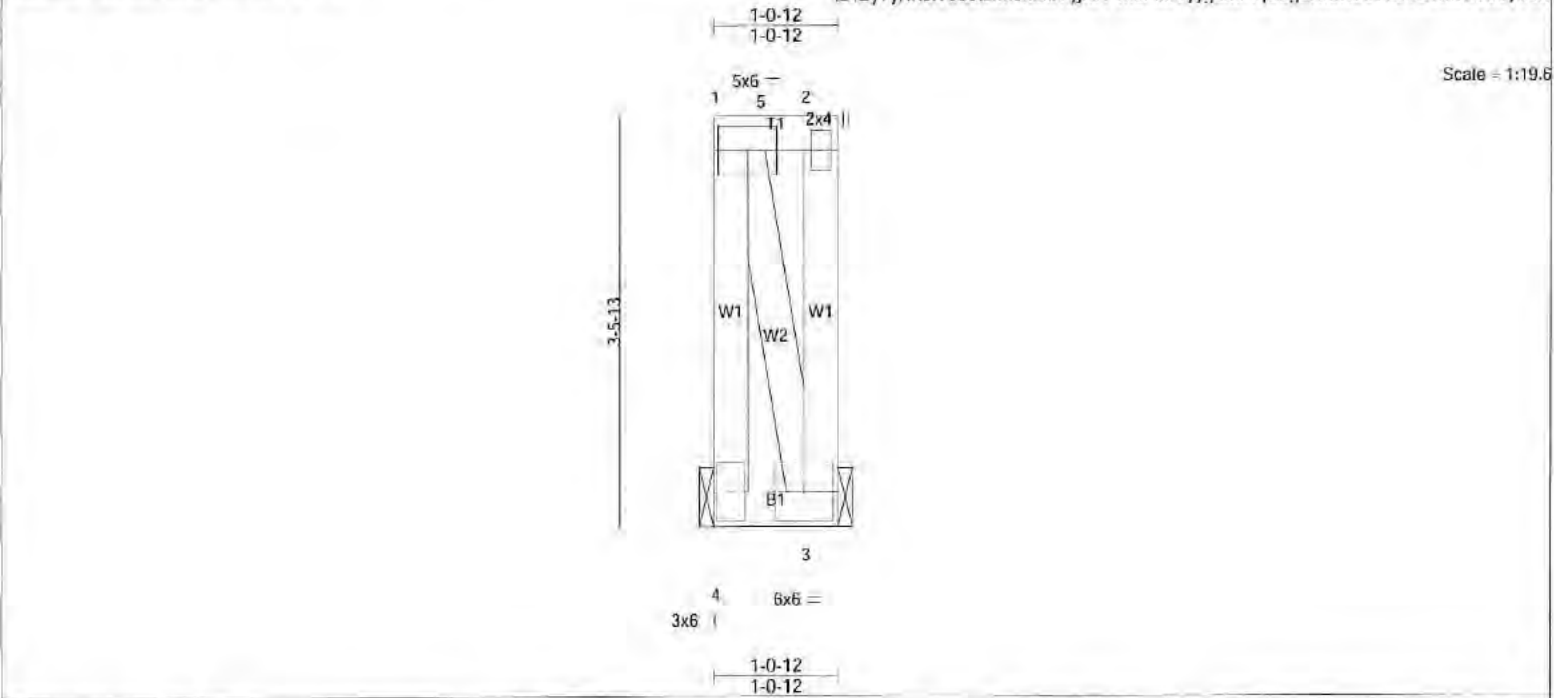
10) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

11) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-7-14 for 400.1 plf.

12) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)

Standard



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.48	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-P						Weight: 15 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 1-0-12 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

4 = 35/Mechanical
3 = 35/Mechanical
Max Horz
4 = -131(LC 8)
Max Uplift
4 = -1266(LC 25)
3 = -1266(LC 26)
Max Grav
4 = 1298(LC 24)
3 = 1298(LC 23)

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

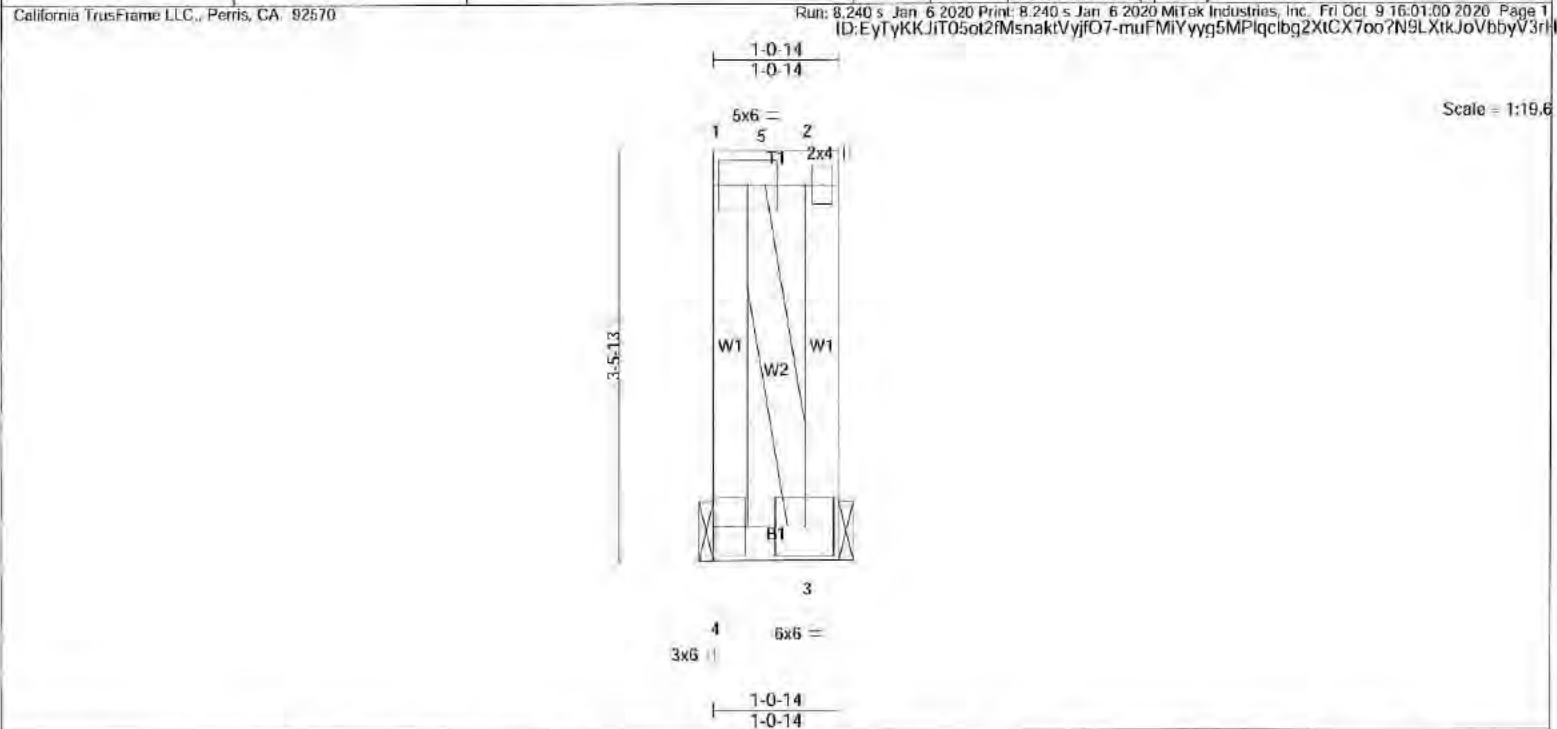
TOP CHORD
1-4=-1291/1270, 1-5=-278/278, 2-3=-319/32
BOT CHORD
3-4=-278/278
WEBS
1-3=-1314/1314

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCCL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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.
3) Provide adequate drainage to prevent water ponding.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * 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.
8) A plate rating reduction of 20% has been applied for the green lumber members.
9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
11) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-0-12 for 400.0 plf.
12) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)
Standard



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 0.48	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-P						Weight: 15 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 1'-0'-14 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 6'-0'-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

4 = 36/Mechanical

3 = 36/Mechanical

Max Horz

4 = -131(LC 8)

Max Uplift

4 = -1265(LC 25)

3 = -1265(LC 26)

Max Grav

4 = 1298(LC 24)

3 = 1298(LC 23)

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

TOP CHORD

1-4=-1291/1270, 1-5=-281/281, 2-3=-319/33

BOT CHORD

3-4=-281/281

WEBS

1-3=-1315/1315

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cal. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) 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.

3) Provide adequate drainage to prevent water ponding.

4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

5) Gable studs spaced at 1'-4'-0 oc.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * 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.

8) A plate rating reduction of 20% has been applied for the green lumber members.

9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

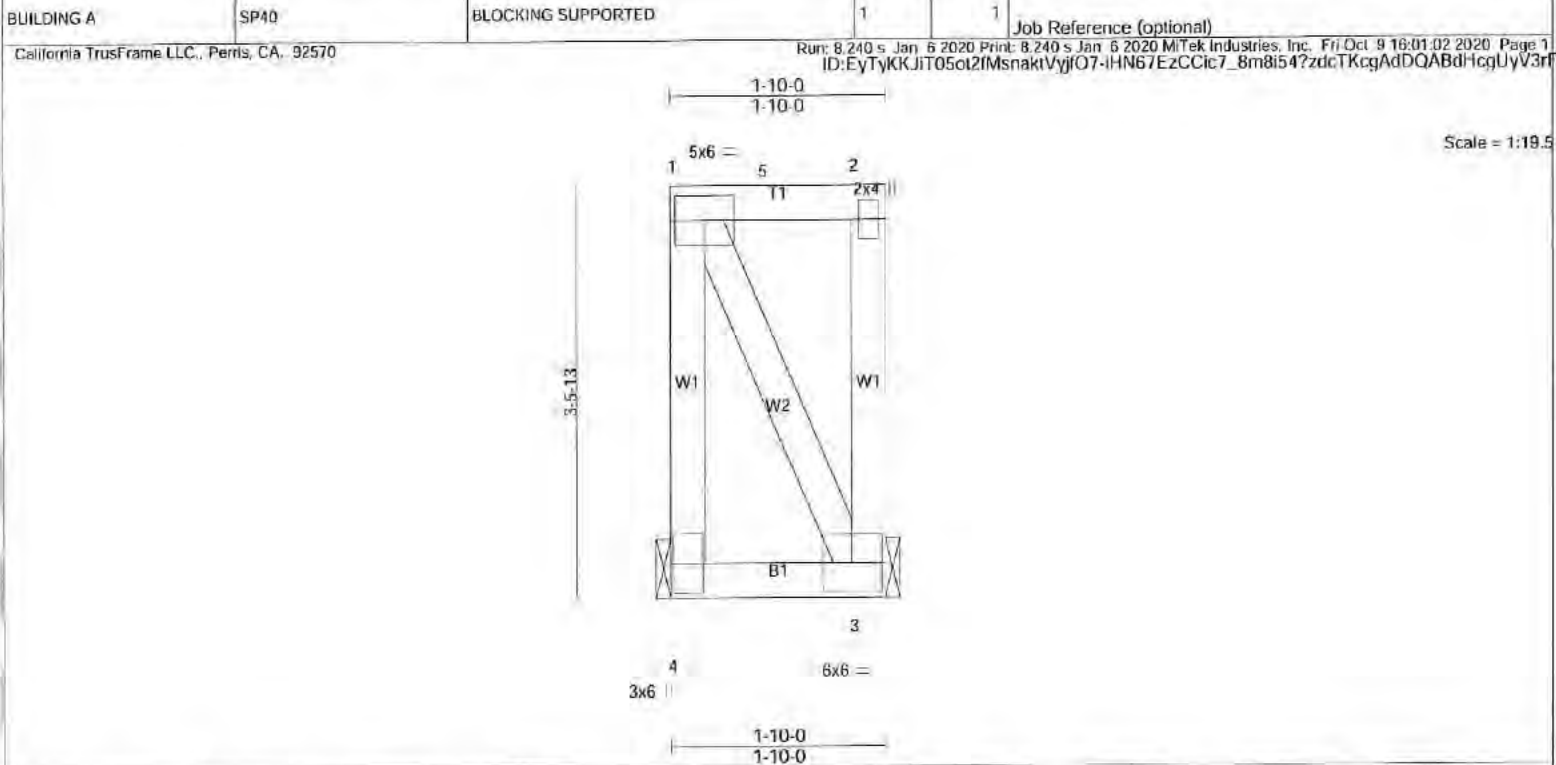
10) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

11) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0'-0'-0 to 1'-0'-14 for 400.0 plf.

12) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)

Standard



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.48	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.54	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-P						Weight: 17 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 1-10-0 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

4 = 71/Mechanical

3 = 71/Mechanical

Max Horz

4 = -131(LC 8)

Max Uplift

4 = -1254(LC 25)

3 = -1254(LC 26)

Max Grav

4 = 1318(LC 24)

3 = 1318(LC 23)

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

TOP CHORD

1-4=-1304/1262, 1-5=-555/555, 2-5=-308/308, 2-3=-332/65

BOT CHORD

3-4=-555/555

WEBS

1-3=-1419/1419

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) 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.

3) Provide adequate drainage to prevent water ponding.

4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

5) Gable studs spaced at 1-4-0 oc.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * 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.

8) A plate rating reduction of 20% has been applied for the green lumber members.

9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

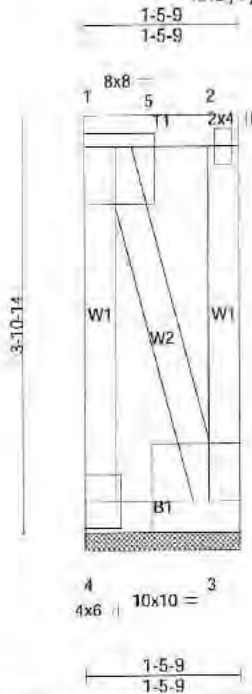
10) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

11) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-0 for 400.1 plf.

12) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)

Standard



Scale = 1:21.6

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [3:Edge,0-3-8]

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 0.91	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 17.0	Lumber DOL	1.25	BC 0.11	Vert(CT)	n/a	-	n/a	999	220/195
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.97	Horz(CT)	0.00	3	n/a	n/a	
BCDL 9.0	Code IBC2015/TPI2014		Matrix-P						
								Weight: 18 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 DF No.2 G
 BOT CHORD 2x4 DF No.2 G
 WEBS 2x4 DF Stud/Std G

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 1-5-9 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

4	=	54/1-5-9 (min. 0-1-8)
3	=	54/1-5-9 (min. 0-1-8)
Max Horz		
4	=	-149(LC 8)
Max Uplift		
4	=	-2386(LC 25)
3	=	-2386(LC 26)
Max Grav		
4	=	2435(LC 24)
3	=	2435(LC 23)

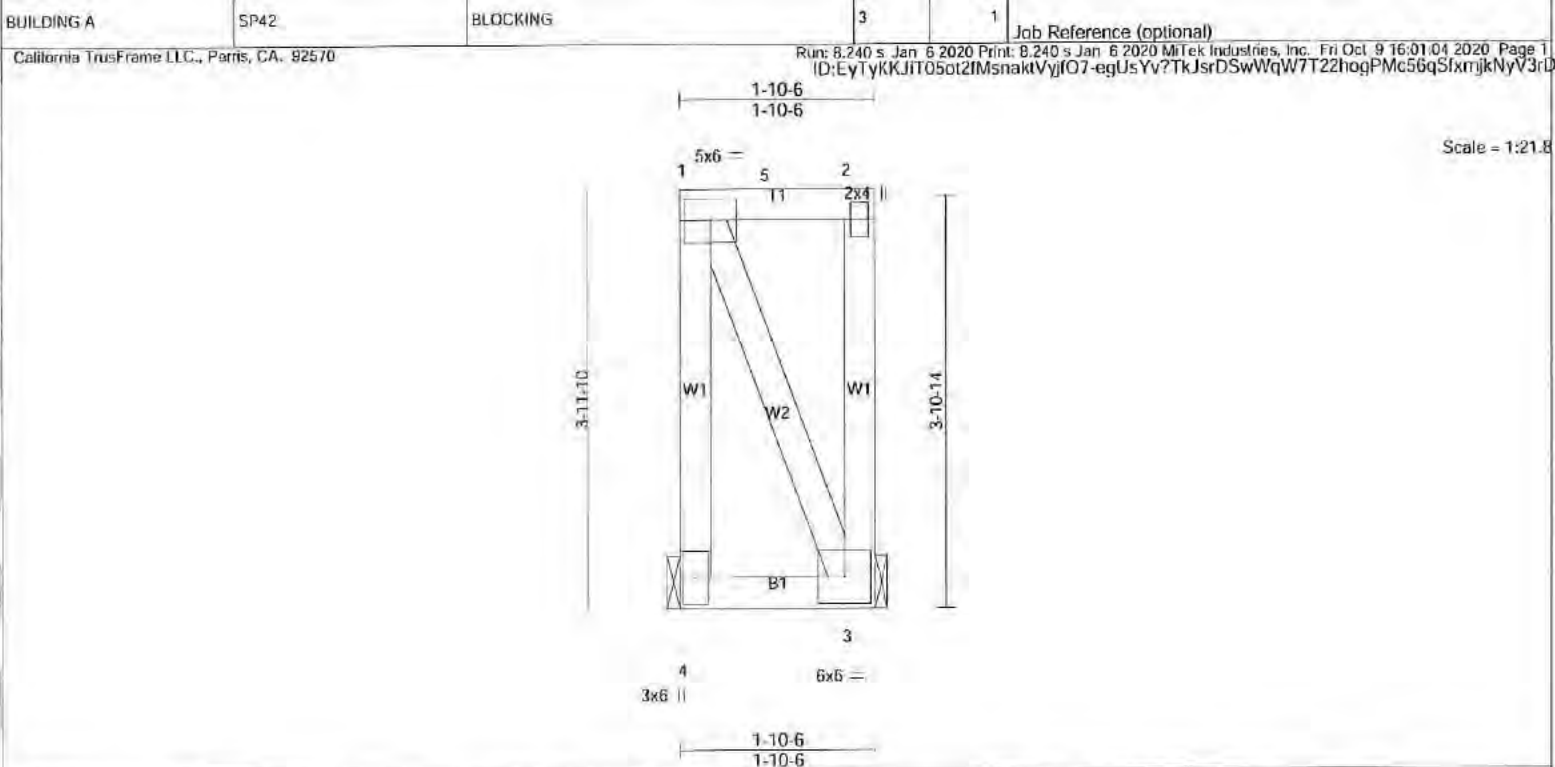
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 1-4=-2425/2393, 1-5=-701/701, 2-5=-389/389, 2-3=-326/49
 BOT CHORD
 3-4=-701/701
 WEBS
 1-3=-2528/2528

NOTES-
 1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 2) 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.
 3) Provide adequate drainage to prevent water ponding.
 4) Gable requires continuous bottom chord bearing.
 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 6) Gable studs spaced at 1-4-0 oc.

7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 9) A plate rating reduction of 20% has been applied for the green lumber members.
 10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 11) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 12) This truss has been designed for a total seismic drag load of 665 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-5-9 for 665.0 plf.
 13) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)
 Standard





LOADING (psi)	SPACING-	2-0-0	CSI,	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.56	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.61	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP						Weight: 19 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

8) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 400.0 plf.

9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)

Standard

REACTIONS, (lb/size)

4 = 72/Mechanical

3 = 72/Mechanical

Max Horz

4 = -151(LC 8)

Max Uplift

4 = -1446(LC 25)

3 = -1446(LC 26)

Max Grav

4 = 1512(LC 24)

3 = 1512(LC 23)

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

TOP CHORD

1-4=-1498/1455, 1-5=-566/566, 2-5=-315/315, 2-3=-333/39

BOT CHORD

3-4=-566/566

WEBS

1-3=-1600/1600

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

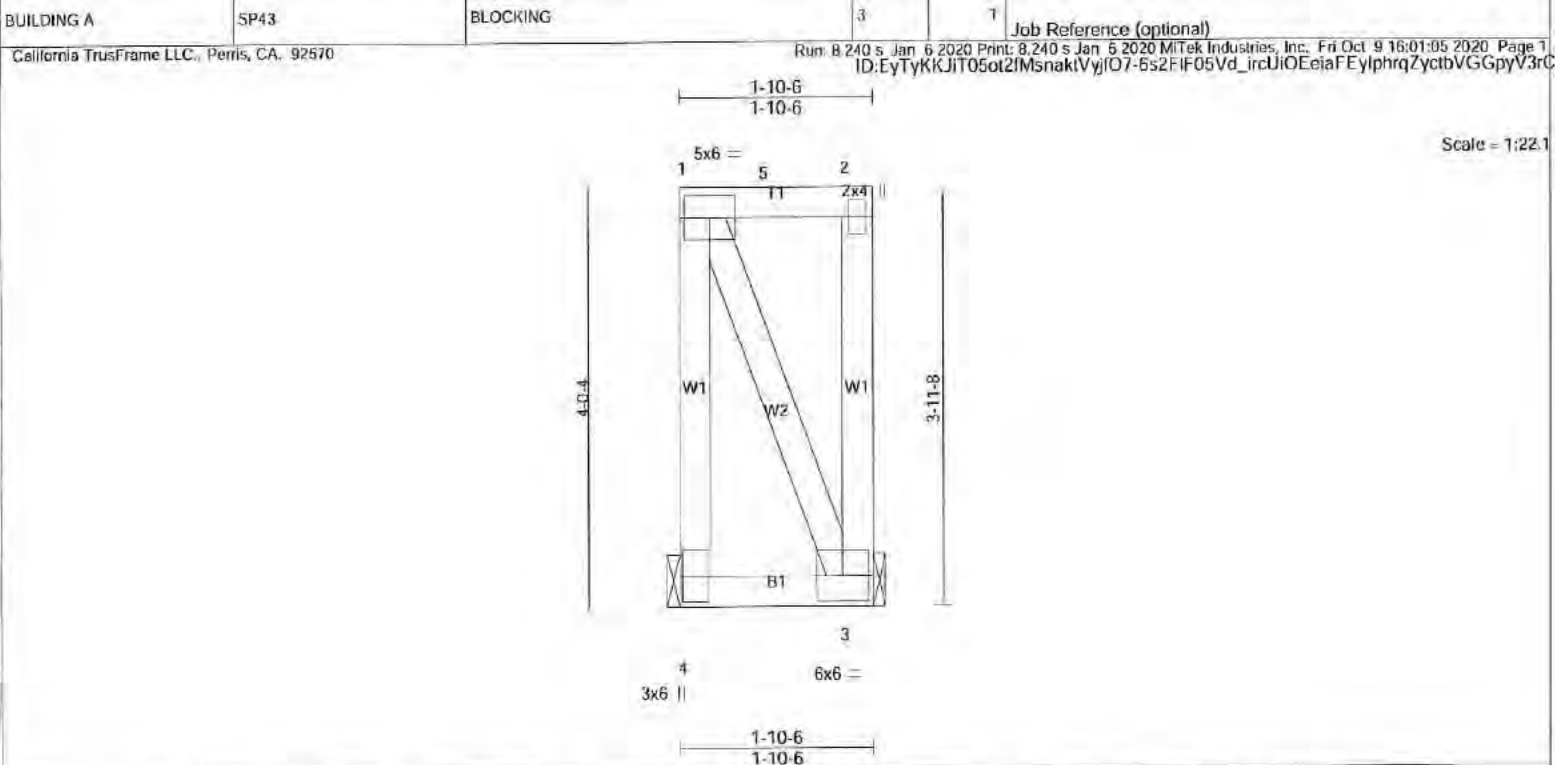
2) Provide adequate drainage to prevent water ponding.

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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



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 0.56	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.62	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP						Weight: 19 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

8) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 400.0 plf.

9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)

Standard

REACTIONS. (lb/size)

4 = 72/Mechanical

3 = 72/Mechanical

Max Horz

4 = -153(LC 8)

Max Uplift

4 = -1467(LC 25)

3 = -1467(LC 26)

Max Grav

4 = 1533(LC 24)

3 = 1533(LC 23)

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

TOP CHORD

1-4=-1518/1476, 1-5=-566/566, 2-5=-315/315, 2-3=-333/39

BOT CHORD

3-4=-566/566

WEBS

1-3=-1619/1619

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

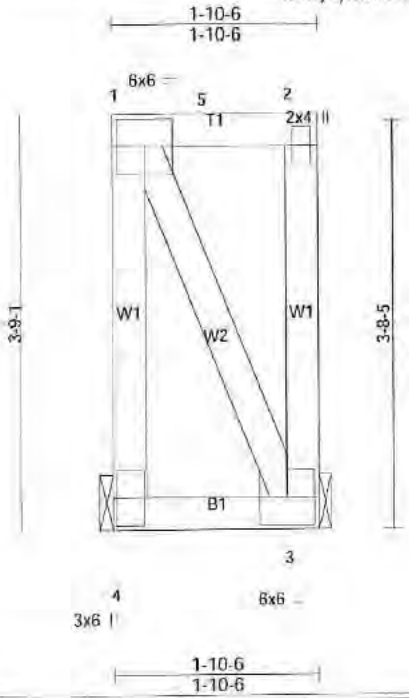
2) Provide adequate drainage to prevent water ponding.

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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



Scale = 1:20.8

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 0.92	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.12	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.70	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP						Weight: 18 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

8) This truss has been designed for a total drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 400.0 plf.

9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

REACTIONS. (lb/size)	LOAD CASE(S)
4 = 72/Mechanical	Standard
3 = 72/Mechanical	
Max Horz	
4 = -142(LC 8)	
Max Uplift	
4 = -1552(LC 27)	
3 = -1552(LC 30)	
Max Grav	
4 = 1558(LC 34)	
3 = 1558(LC 31)	

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

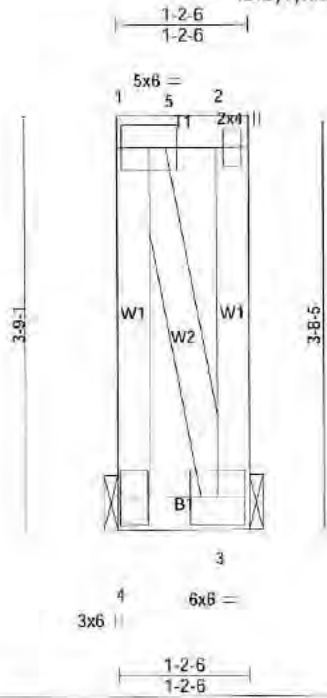
TOP CHORD
1-4=-1628/1627, 1-5=-619/622, 2-5=-367/371, 2-3=-333/39

BOT CHORD
3-4=-744/750

WEBS
1-3=-1830/1830

NOTES-

- 1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed: MWFRS (envelope) gable end zone and C-C Exterior(2) 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
- 2) Provide adequate drainage to prevent water ponding.
- 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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



Scale = 1/20.9

LOADING (psf)	SPACING-	2'-0"	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.53	Vent(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.05	Vent(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.55	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP						Weight: 16 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 1-2-6 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

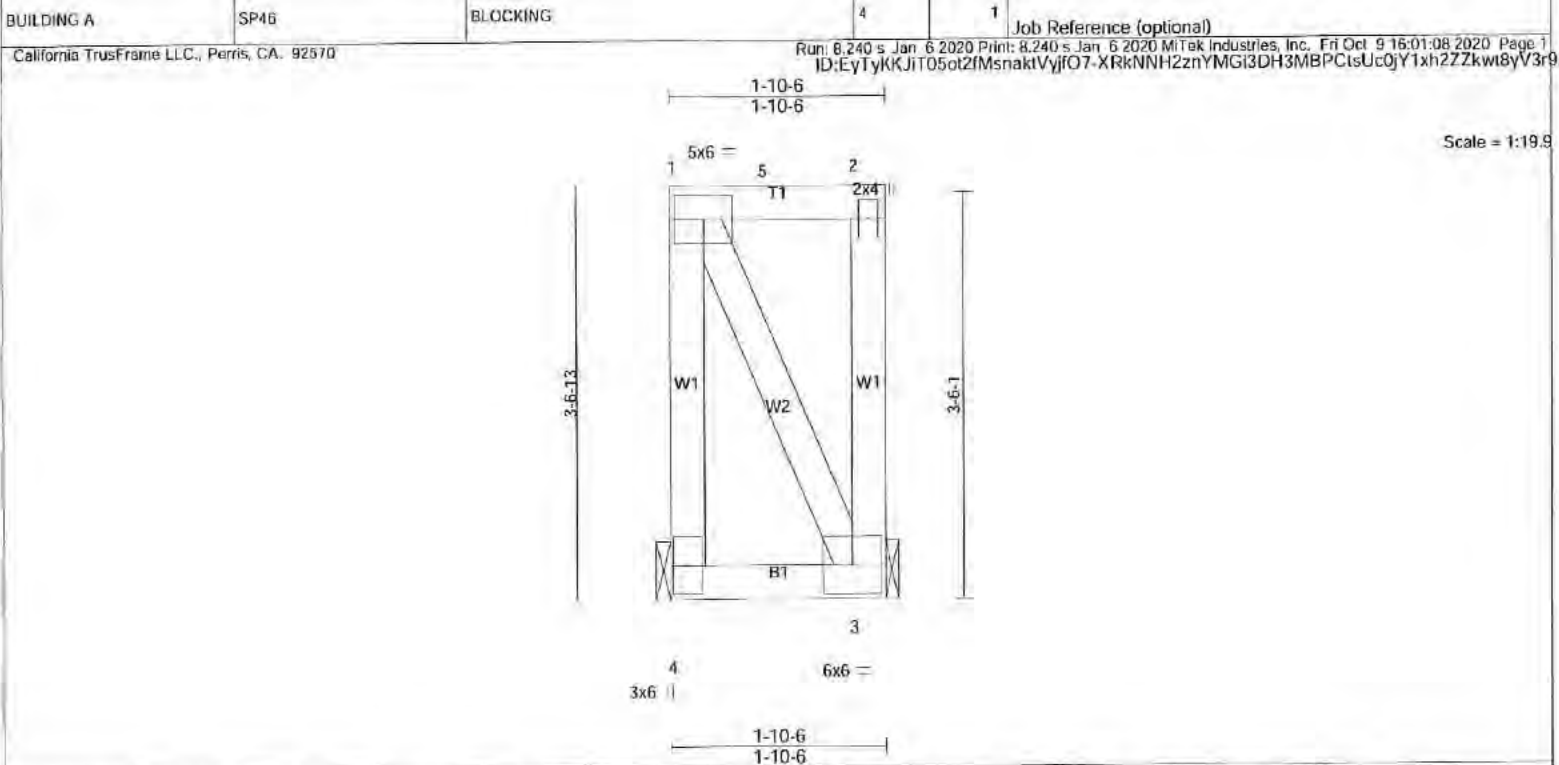
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
8) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-2-6 for 400.0 plf.
9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

REACTIONS. (lb/size)	LOAD CASE(S)
4 = 42/Mechanical	Standard
3 = 42/Mechanical	
Max Horz	
4 = -142(LC 8)	
Max Uplift	
4 = -1371(LC 25)	
3 = -1371(LC 26)	
Max Grav	
4 = 1409(LC 24)	
3 = 1409(LC 23)	

FORCES. (lb) - Max, Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-4=-1401/1376, 1-5=-326/326, 2-3=-321/22
BOT CHORD
3-4=-326/326
WEBS
1-3=-1432/1432

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
2) Provide adequate drainage to prevent water ponding.
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" tall by 2'-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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



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	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-MP						Weight: 18 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

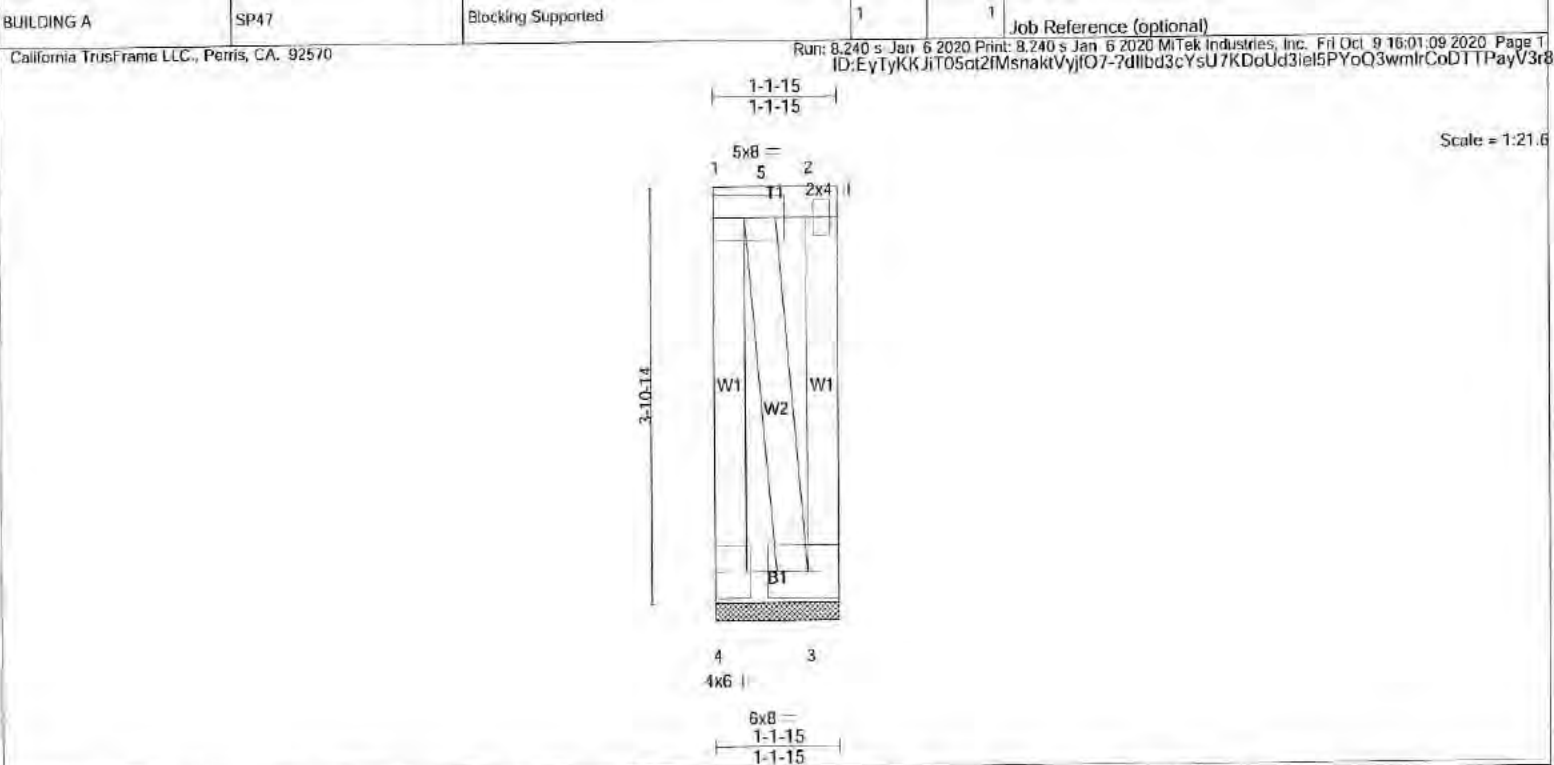
7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
8) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 400.0 plf.
9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

REACTIONS. (lb/size)
4 = 72/Mechanical
3 = 72/Mechanical
Max Horz
4 = -135(LC 8)
Max Uplift
4 = -1286(LC 25)
3 = -1286(LC 26)
Max Grav
4 = 1351(LC 24)
3 = 1351(LC 23)

LOAD CASE(S)
Standard

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-4=-1337/1294, 1-5=-566/566, 2-5=-315/315, 2-3=-333/39
BOT CHORD
3-4=-566/566
WEBS
1-3=-1454/1454

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCCL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
2) Provide adequate drainage to prevent water ponding.
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) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



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 0.91	Vert(LL) n/a - n/a 999	MT20	220/195
TCDL 17.0	Lumber DOL 1.25	BC 0.08	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.94	Horz(CT) 0.00 3 n/a n/a		
BCDL 9.0	Code IBC2015/TPI2014	Matrix-P		Weight: 17 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 1-1-15 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

4 = 40/1-1-15 (min. 0-1-8)

3 = 40/1-1-15 (min. 0-1-8)

Max Horz

4 = -149(LC 8)

Max Uplift

4 = -2391(LC 25)

3 = -2391(LC 26)

Max Grav

4 = 2427(LC 24)

3 = 2427(LC 23)

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

TOP CHORD

1-4=-2419/2396, 1-5=-521/521, 2-5=-290/290, 2-3=-321/37

BOT CHORD

3-4=-521/521

WEBS

1-3=-2473/2473

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) 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.

3) Provide adequate drainage to prevent water ponding.

4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

5) Gable studs spaced at 1-4-0 oc.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * 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.

8) A plate rating reduction of 20% has been applied for the green lumber members.

9) Non Standard bearing condition. Review required.

10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

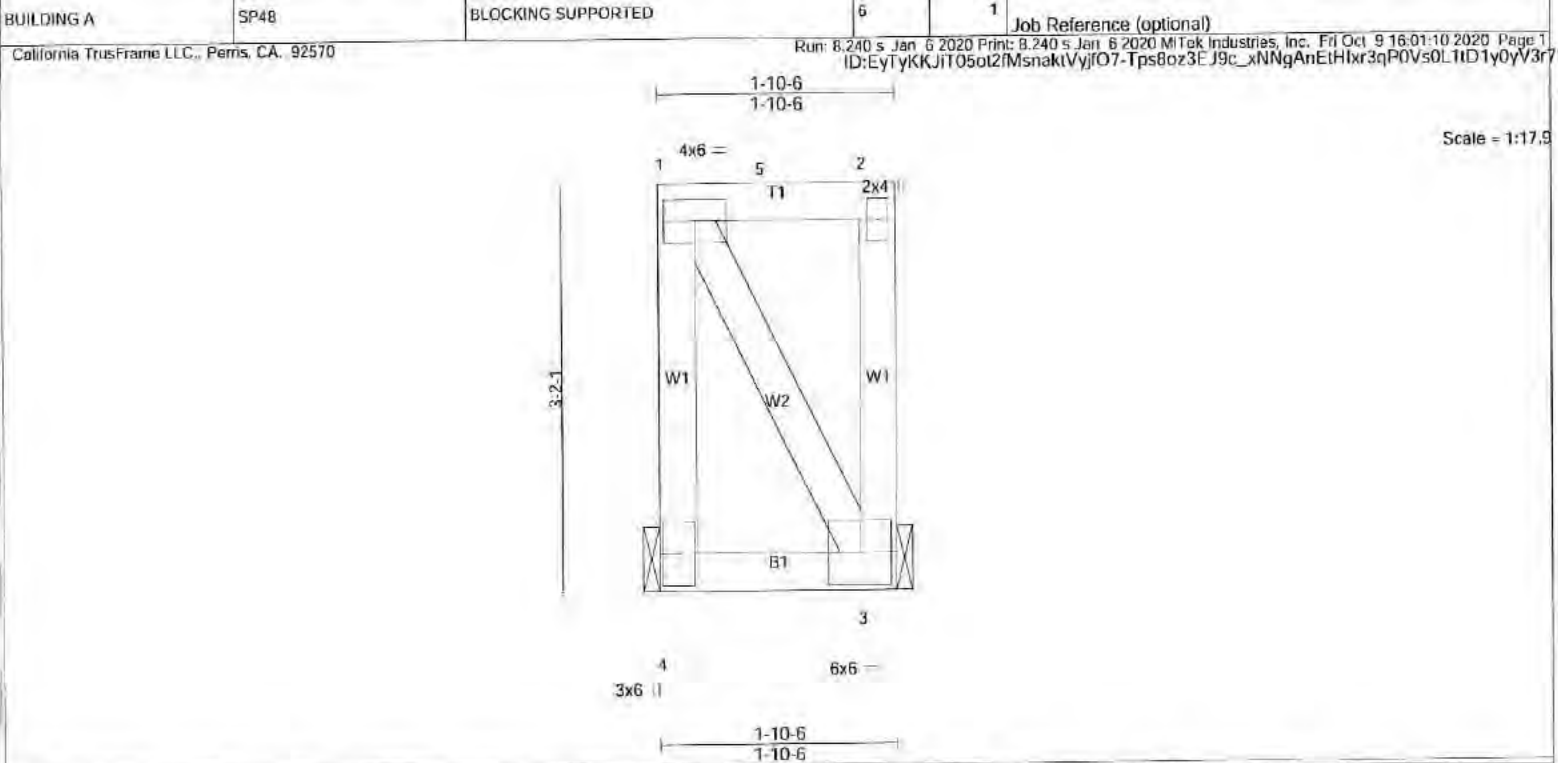
11) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

12) This truss has been designed for a total seismic drag load of 665 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-1-15 for 665.1 plf.

13) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)

Standard



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 0.43	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-P						Weight: 16 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

4 = 72/Mechanical

3 = 72/Mechanical

Max Horz

4 = 118(LC 9)

Max Uplift

4 = -1128(LC 25)

3 = -1128(LC 26)

Max Grav

4 = 1193(LC 24)

3 = 1193(LC 23)

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

TOP CHORD

1-4=-1179/1136, 1-5=-566/566, 2-5=-315/315, 2-3=-333/66

BOT CHORD

3-4=-566/566

WEBS

1-3=-1313/1313

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) 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.

3) Provide adequate drainage to prevent water ponding.

4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

5) Gable studs spaced at 1-4-0 oc.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * 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.

8) A plate rating reduction of 20% has been applied for the green lumber members.

9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

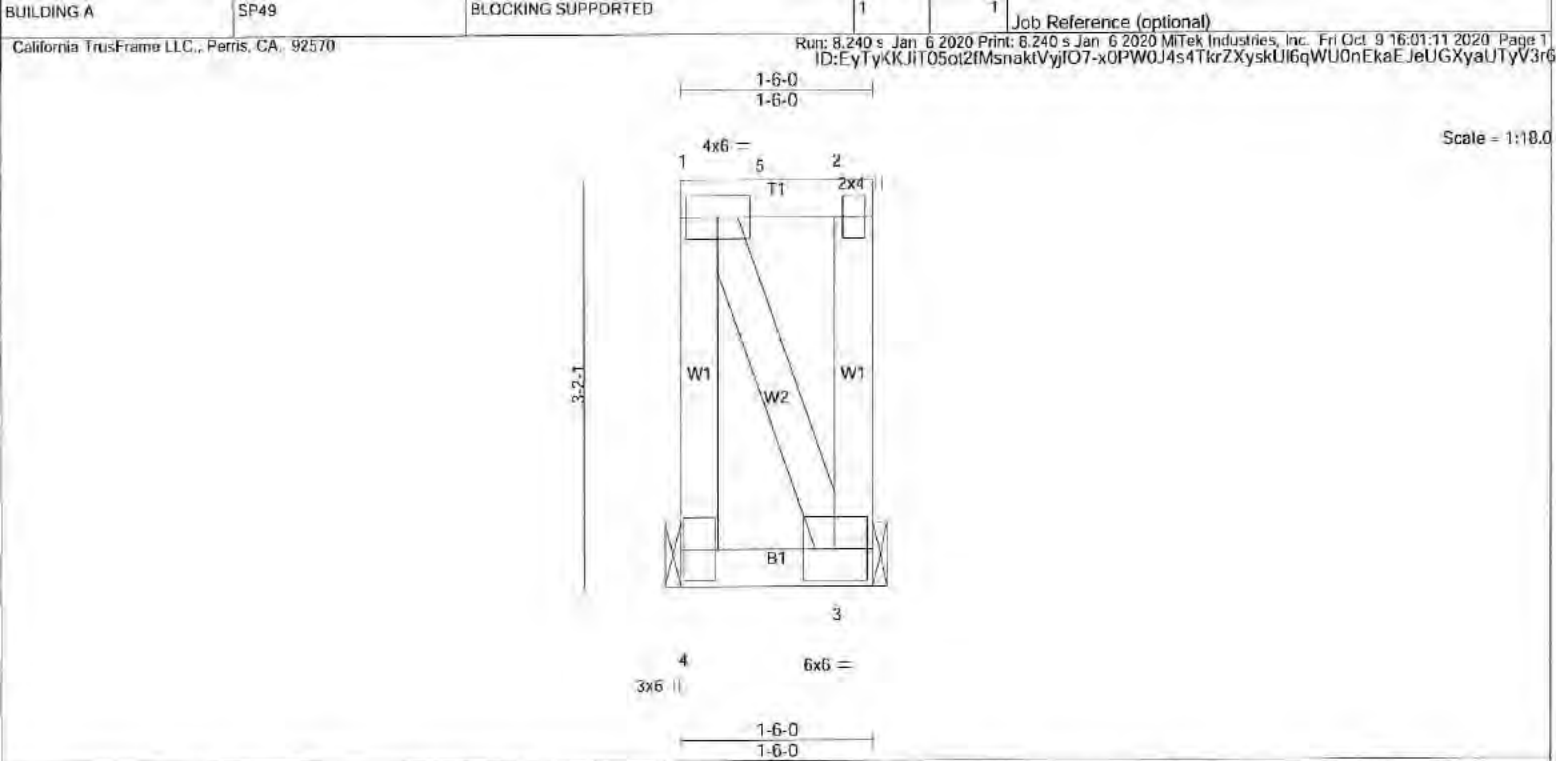
10) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

11) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 400.0 plf.

12) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)

Standard



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 0.44	Vert(LL)	-0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.48	Horz(CT)	0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-P						Weight: 15 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 1-6-0 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

7) * 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.

8) A plate rating reduction of 20% has been applied for the green lumber members.

9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

10) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

11) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-6-0 for 400.0 plf.

12) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)

Standard

REACTIONS. (lb/size)

4 = 56/Mechanical

3 = 56/Mechanical

Max Horz

4 = 118(LC 9)

Max Uplift

4 = -1133(LC 25)

3 = -1133(LC 26)

Max Grav

4 = 1184(LC 24)

3 = 1184(LC 23)

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

TOP CHORD

1-4=-1173/1140, 1-5=-435/435, 2-3=-327/51

BOT CHORD

3-4=-435/435

WEBS

1-3=-1249/1249

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

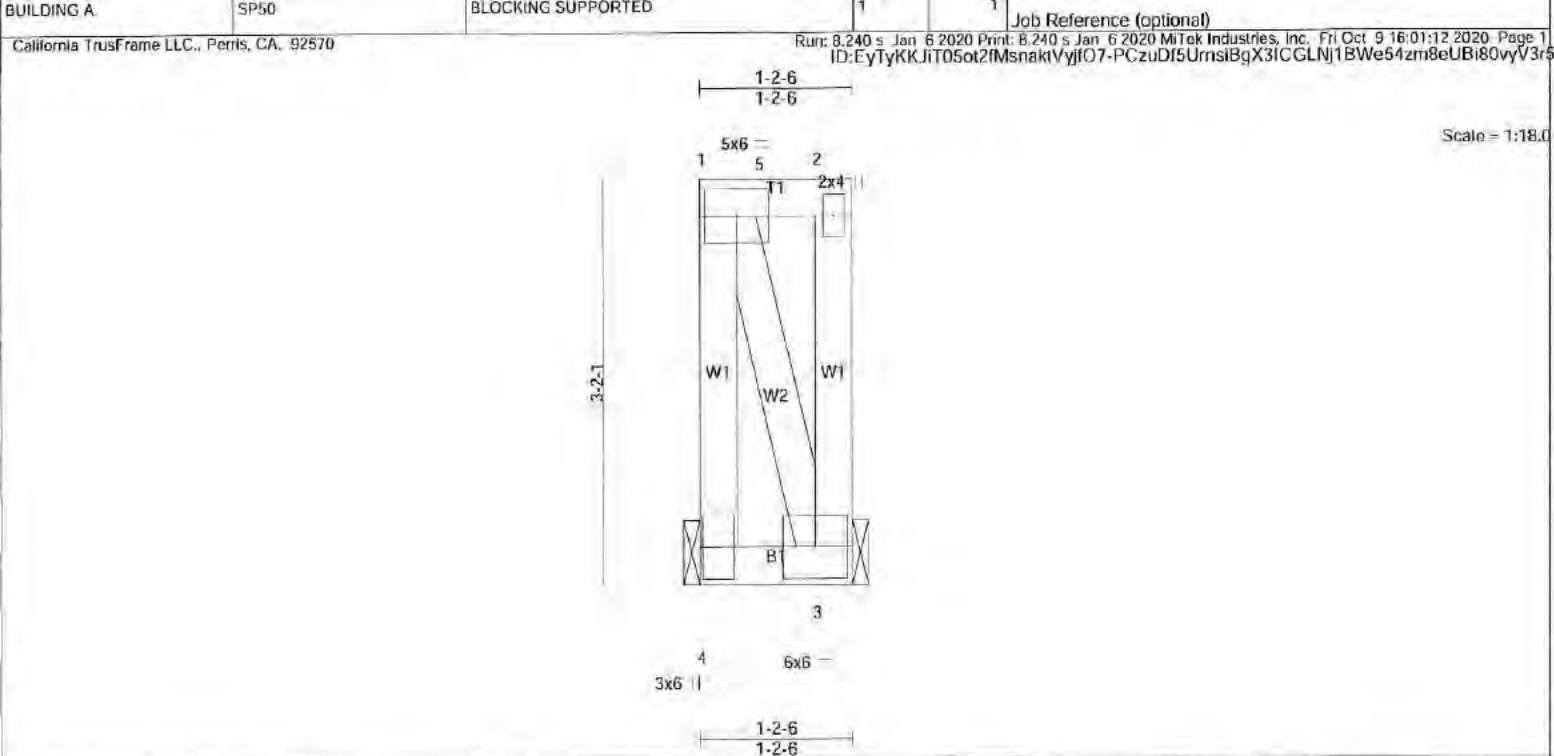
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

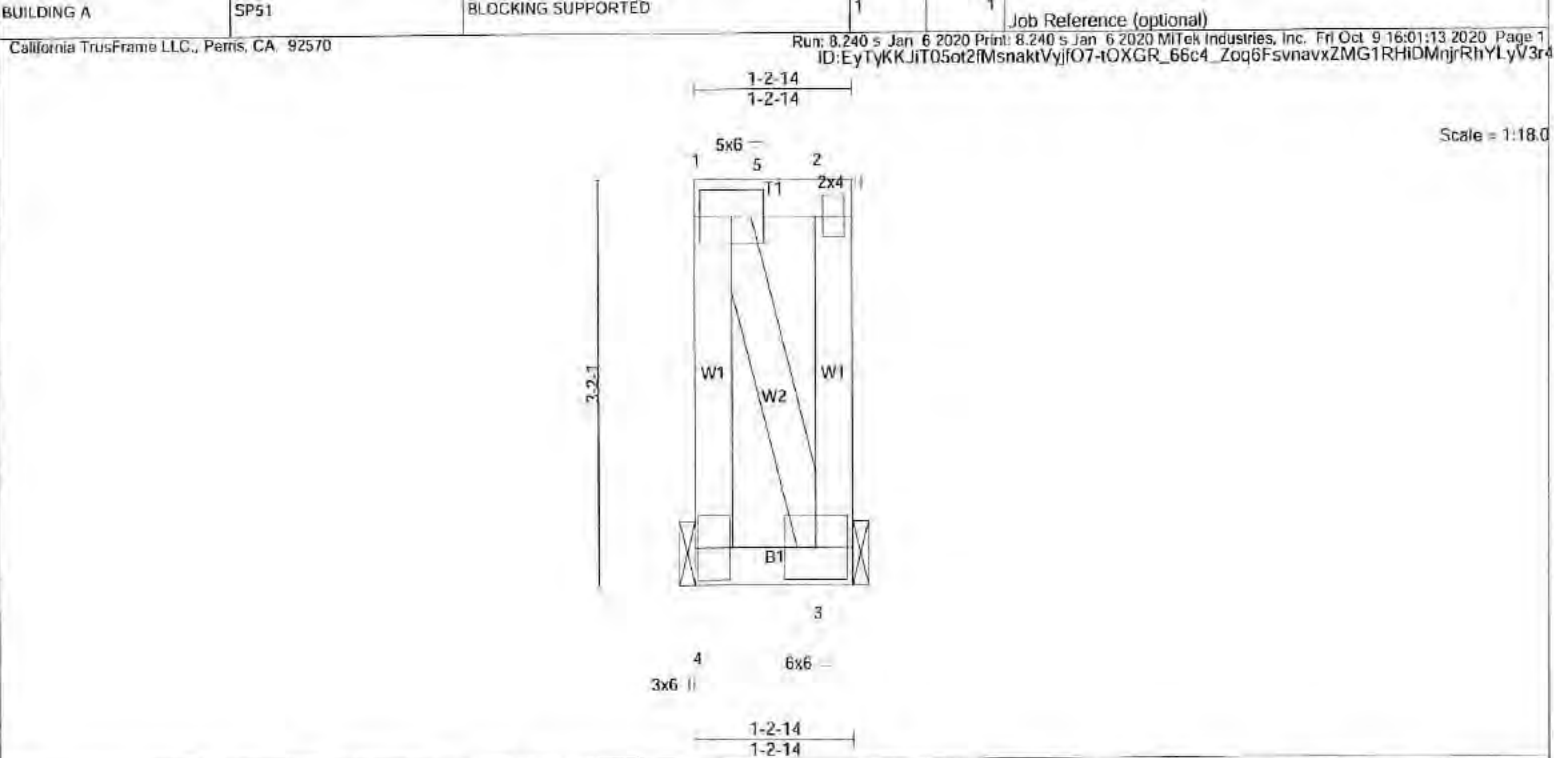
3) Provide adequate drainage to prevent water ponding.

4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

5) Gable studs spaced at 1-4-0 oc.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.





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 0.44	Vert(LL)	-0.00	4	>999	MT20	220/195
TCDL 17.0	Lumber DOL 1.25	BC 0.05	Vert(CT)	-0.00	4	>999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.46	Horz(CT)	0.00	3	n/a		
BCDL 9.0	Code IBC2015/TPI2014	Matrix-P						
							Weight: 14 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G

BOT CHORD 2x4 DF No.2 G

WEBS 2x4 DF Stud/Std G

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 1-2-14 oc purlins, except end verticals

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc bracing.

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

4 = 44/Mechanical

3 = 44/Mechanical

Max Horz

4 = 118(LC 9)

Max Uplift

4 = -1137(LC 25)

3 = -1137(LC 26)

Max Grav

4 = 1177(LC 24)

3 = 1177(LC 23)

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

TOP CHORD

1-4=-1168/1142, 1-5=-341/341, 2-3=-322/40

BOT CHORD

3-4=-341/341

WEBS

1-3=-1213/1213

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) 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.

3) Provide adequate drainage to prevent water ponding.

4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

5) Gable studs spaced at 1-4-0 oc.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * 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.

8) A plate rating reduction of 20% has been applied for the green lumber members.

9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

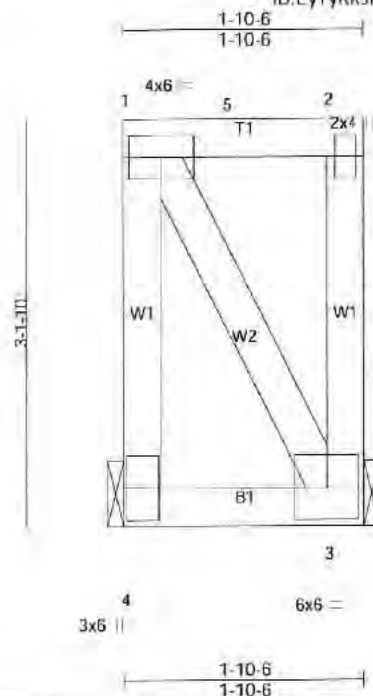
10) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

11) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-2-14 for 400.0 plf.

12) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)

Standard



Scale = 1:17.8

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 0.43	Vert(LL) -0.00	4	>999	240	MT20	220/195
TCDL 17.0	Lumber DOL 1.25	BC 0.09	Vert(CT) 0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.50	Horz(CT) 0.00	3	n/a	n/a		
BCDL 9.0	Code IBC2015/TPI2014	Matrix-P					Weight: 16 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

BRACING-

TOP CHORD
Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)

4	=	72/Mechanical
3	=	72/Mechanical
Max Horz		
4	=	-117(LC 8)
Max Uplift		
4	=	-1113(LC 25)
3	=	-1113(LC 26)
Max Grav		
4	=	1178(LC 24)
3	=	1178(LC 23)

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

TOP CHORD
1-4=-1164/1121, 1-5=-566/566, 2-5=-315/315, 2-3=-333/66
BOT CHORD
3-4=-566/566
WEBS
1-3=-1300/1300

NOTES-

- 1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vast=87mph; TCCL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 3) Provide adequate drainage to prevent water ponding.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * 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.

8) A plate rating reduction of 20% has been applied for the green lumber members.

9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

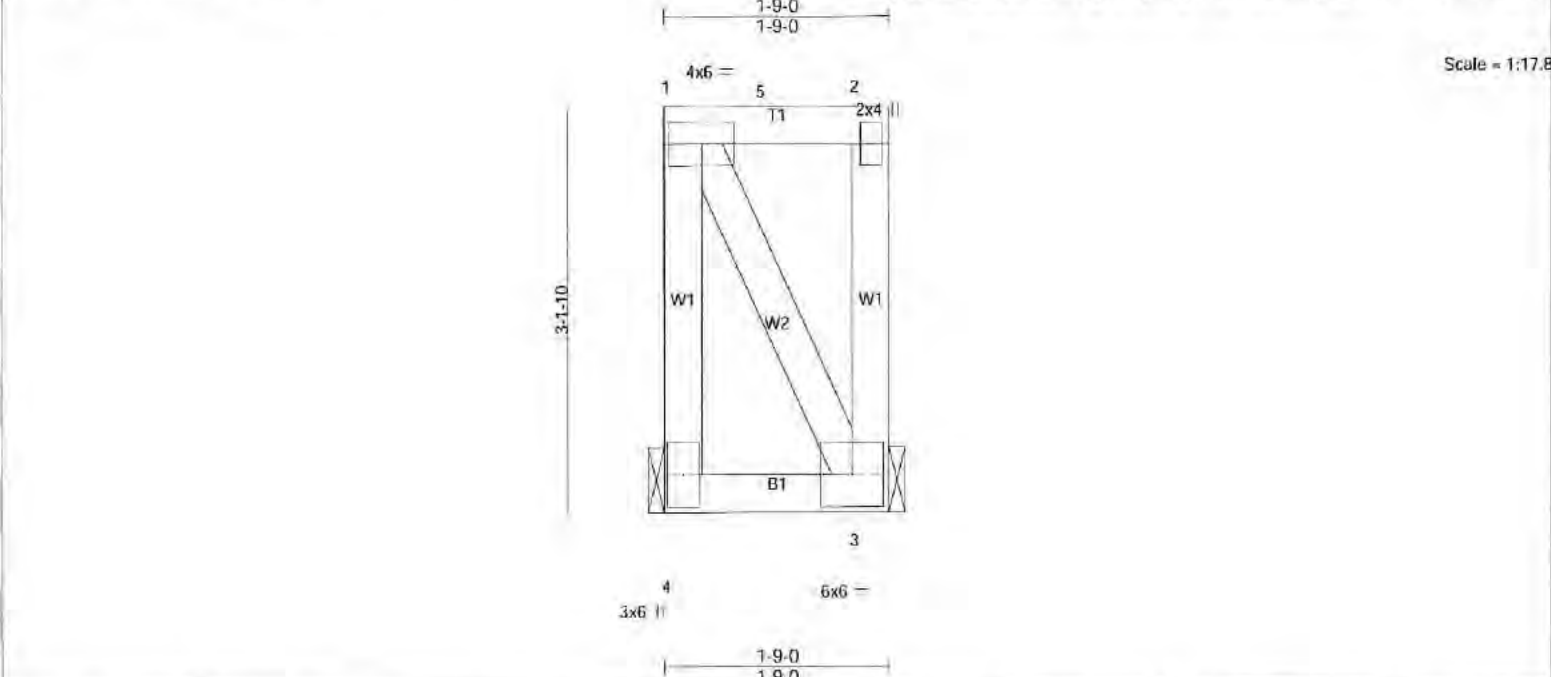
10) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

11) This truss has been designed for a total seismic drag load of 400 plf, Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 400.0 plf.

12) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)

Standard



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 0.43	Vert(LL)	-0.00	4	>999	MT20	220/195
TCDL 17.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	-0.00	4	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.49	Horz(CT)	0.00	3	n/a		
BCDL 9.0	Code IBC2015/TPI2014		Matrix-P					Weight: 15 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.2 G
BOT CHORD 2x4 DF No.2 G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 1-9-0 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

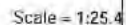
REACTIONS. (lb/size)
4 = 67/Mechanical
3 = 67/Mechanical
Max Horz
4 = -117(LC 8)
Max Uplift
4 = -1115(LC 25)
3 = -1115(LC 26)
Max Grav
4 = 1175(LC 24)
3 = 1175(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-4=-1162/1123, 1-5=-525/525, 2-5=-292/292, 2-3=-331/61
BOT CHORD
3-4=-525/525
WEBS
1-3=-1278/1278

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=10.2psf; BCDL=5.4psf; h=54ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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.
3) Provide adequate drainage to prevent water ponding.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * 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.
8) A plate rating reduction of 20% has been applied for the green lumber members.
9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
11) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-9-0 for 400.0 plf.
12) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

LOAD CASE(S)
Standard



Weight: 22 lb FT = 20%

7) This truss has been designed for a moving concentrated load of 300.0lb live and 6.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

8) This truss has been designed for a total seismic drag load of 400 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33). Connect truss to resist drag loads along bottom chord from 0-0 to 1-10-6 for 400.0 plf.

9) This truss is designed for a creep factor of 3.01, which is used to calculate the Vert(CT) deflection per ANSI/TPI 1.

4	=	72/Mechanical
3	=	72/Mechanical
Max Horz		
4	=	-1B1(LC B)
Max Uplift		
4	=	-1738(LC 25)
3	=	-1738(LC 26)
Max Grav		
4	=	1803(LC 24)
3	=	1803(LC 23)

Standard

6) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



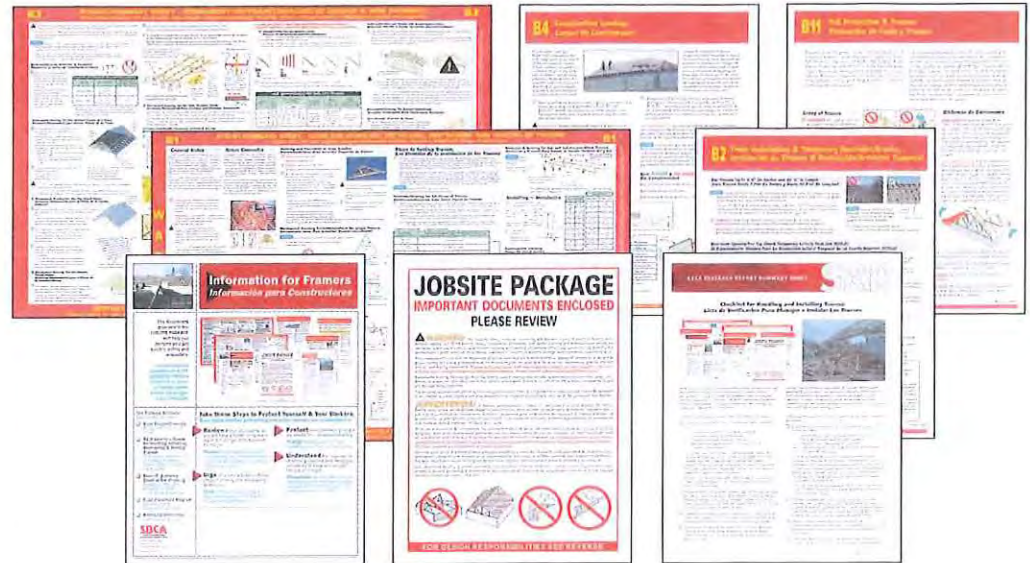
Information for Framers

Información para Constructores



The documents provided in the **JOBSITE PACKAGE** will help you perform your job quickly, safely and accurately.

Los documentos provistos en el PAQUETE DE OBRA le ayudarán en hacer su trabajo rápidamente, sin peligro, y con precisión.



Standard Jobsite Package shown

This Package Contains:

Este paquete contiene:

- ☐ **Truss Design Drawings**
Dibujos del Diseño de Truss
- ☐ **BCSI Summary Sheets for Handling, Installing, Restraining & Bracing Trusses**
BCSI Hojas Resumen ara el Manejo, Instalación, Restricción y Arriostre de los Trusses
- ☐ **Take off, Summary Sheet or Bill of Lading**
Descontar, Hoja de Resumen o Conocimiento de Embarque
- ☐ **Truss Placement Diagram**
Diagrama de la Colocación de Truss
- ☐ **Additional Information**
Información Adicional

SBCA

Structural Building Components Association

6300 Enterprise Ln
Madison, WI 53719
608-274-4849 • 608-274-3329 (fax)

sbcindustry.com

Take these Steps to Protect Yourself & Your Workers:

Tome estas medidas para protegerse usted mismo y sus colaboradores:

Review these documents so you will have a better understanding of the components supplied for the job.

Revise estos documentos para que usted tenga un entendimiento mejor de los componentes provistos para el trabajo.

Urge all workers to follow these proper handling and installation guidelines.

Inste a todos trabajadores a sigan estas pautas del manejo e instalación apropiada.

Protect everyone from possible accidents from improper handling.

Proteja todos de accidentes posibles por el manejo incorrecto.

Understand the importance of these guidelines and the steps necessary to keep safe and get the job done right.

Comprenda la importancia de estas pautas y las medidas necesarias para mantener seguro y hacer el trabajo correctamente.

JOBSITE PACKAGE

IMPORTANT DOCUMENTS ENCLOSED

PLEASE REVIEW



WARNING

The handling, storing, installing, restraining and diagonal bracing of structural building components requires specialized training, clearly implemented procedures, and careful planning and communication among the contractor, crane operator and installation crew. Handling and installing components without appropriate training, planning and communication greatly increases the probability of an accident resulting in property damage, serious personal injury and/or death.

Prior to component installation, the documents should be examined and disseminated to all appropriate personnel, in addition to proper training and a clear understanding of the installation plan, any applicable fall protection requirements, and the intended restraint and bracing requirements. **Trusses with clear spans of 60 feet or greater in length are very dangerous to install and may require complex temporary and permanent bracing. Please consult a Registered Design Professional.**

Examine the building, the building's structural framing system, bearing locations and related installation conditions. Begin component installation only after any unsatisfactory conditions have been corrected. Do not cut, modify or repair components. Report any damage before installation.

The enclosed documents are offered as minimum guidelines only. Nothing contained in this jobsite package should be construed in any manner as expanding the scope of responsibility of, or imposing any additional liabilities on, the component manufacturer.

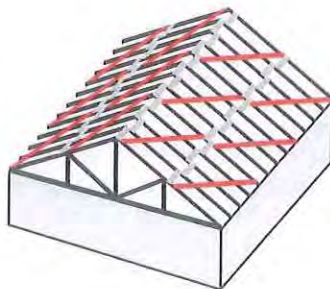
¡ADVERTENCIA!

El manejo, almacenamiento, instalación, restricción y arriostre diagonal de componentes estructurales de construcción requieren entrenamiento especializada, procedimientos claramente implementados y planificaron y comunicación clara entre el contratista, operador de grúa, y los obreros de instalación. El manejar e instalar los componentes sin entrenamiento suficiente, planificación y comunicación adecuadas aumenta la probabilidad de un accidente que resulta en dero a propiedad, herida seria o muerte.

*Antes de la instalación de componentes, los documentos adjuntos deben ser examinados y difundidos a todo el personal apropiado, además del entrenamiento pertinente y un claro entendimiento del plan de instalación, de todo requisito aplicable de la protección contra la caída y de los requisitos previstos de arriostre y restricción. **La instalación de trusses con tramos despejados y más de 60 pies de largo es muy peligrosa y puede requiere el arriostre temporal y permanente complejo. Por favor, consulte a un Profesional de Diseño Registrado.***

Examine la estructura, el sistema armazón estructural de edificio, ubicaciones de soporte e las condiciones de instalación correspondientes y comenzar con la instalación de los componentes sólo después de haber corregido toda condición insatisfactoria. No corte, modifique ni repare los componentes y informe cualquier daño descubierto antes de proceder a la instalación.

Los documentos adjuntos se ofrecen solamente como directrices mínimas. Nada de lo incluido en este paquete debe interpretarse de manera que exceda el alcance de la responsabilidad del fabricante de componentes, ni en forma tal que imponga responsabilidades adicionales sobre éste.



FOR DESIGN RESPONSIBILITIES SEE REVERSE

The text appearing below has been paraphrased and reproduced from ANSI/TPI 1-2014, Chapter 2, with permission from the publisher, the Truss Plate Institute (TPI) (tpinst.org). For reference, the numbers in parentheses refer to specific ANSI/TPI 1 sections. Refer to ANSI/TPI 1 Chapter 2 for complete text and definitions. For information on design responsibilities contact your Component Manufacturer or SBCA at 608-274-4849 or sbcindustry.com.

CONSTRUCTION RELATED ITEMS

The Contractor shall not proceed with the Truss installation until the Truss Submittal Package has been reviewed by the Building Designer (2.3.4.2). The Building Designer shall review the Truss Submittal Package for compatibility with the building design. All such submittals shall include a notation indicating that they have been reviewed and whether or not they have been found to be in general conformance with the design of the Building (2.3.2.3).

The method of Permanent Individual Truss Member Restraint/Bracing and the method of anchoring or restraining to prevent lateral movement of all Truss members acting together as a system shall be accomplished by: (a) standard industry Lateral Restraint and Diagonal Bracing details in accordance with BCSI-B3 and/or BCSI-B7 (2.3.3.1.1), (b) Permanent Individual Truss Member Restraint shall be permitted to be replaced with reinforcement designed to prevent buckling (e.g., buckling reinforcement by T-reinforcement or L-reinforcement, proprietary reinforcement, etc.) (2.3.3.1.2), or a project specific Truss member permanent Lateral Restraint/Diagonal Bracing design for the roof or floor Building Structural System shall be permitted to be specified by the Building Designer or any Registered Design Professional (RDP) (2.3.3.1.3).

If a specific T member permanent bracing design for the roof or floor Framing Structural System is not provided by the Owner, Building Designer, or any RDP, the method of Permanent Individual Truss Member Restraint and Diagonal Bracing for the Truss Top Chord, Bottom Chord, and Web members shall be in accordance with BCSI-B3 or BCSI-B7 (2.3.3.2).

The Contractor is responsible for the construction means, methods, techniques, sequences, procedures, programs, and safety in connection with the receipt, storage, handling, installation, restraining, and bracing of the Trusses (2.3.4.4). The Contractor shall ensure that the Building support conditions are of sufficient strength and stability to accommodate the loads applied during the Truss installation process. Truss installation shall comply with installation tolerances shown in BCSI-B1. Temporary Installation Restraint/Bracing for the Truss system and the permanent Truss system Lateral Restraint and Diagonal Bracing for the completed building and any other construction work related directly or indirectly to the Trusses shall be installed by the Contractor in accordance with the Construction Documents and/or the Truss Submittal Package (2.3.4.5).

The Contractor shall examine the trusses delivered to the job site and after the Trusses are erected and installed for dislodged or missing connectors, cracked, dislodged or broken members, or any other damage that may impair the structural integrity of the Truss (2.3.4.6/2.3.4.7). In the event that damage to a Truss is discovered that would likely impair the structural integrity of the Truss, the Contractor shall ensure that the Truss not be erected or that any area within the building supported by any such Truss already erected shall be appropriately shored or supported to prevent further damage from occurring and shall remain clear and free of any load imposed by people, plumbing, electrical, mechanical, bridging, bracing, etc. until field repairs have been properly completed (2.3.4.8). In the event of damage, the Contractor shall contact the Truss Manufacturer to determine an adequate field repair and construct the field repair in accordance with the written instructions and details provided by any RDP (2.3.4.9).

TRUSS MANUFACTURER RESPONSIBILITIES

Where required by the Construction Documents or Contract, Legal Requirements or the Building Official, the Truss Manufacturer shall provide the appropriate Truss Submittal Package, including the Truss Design Drawings, a Truss Placement Diagram, and the required Permanent Individual Truss Member Restraint and the method to be used (2.3.6.5) to one or more of the following: Building Official; Building Designer and/or Contractor for review and/or approval (2.3.6.7). The Truss Manufacturer shall also be allowed to provide detail drawings to the Contractor to document special application conditions (2.3.6.6).

The Truss Placement Diagram identifies the assumed location for each individually designated Truss and references the corresponding Truss Design Drawing. The Truss Placement Diagram shall be permitted to include identifying marks for other products including Structural Elements, so that they can be more easily identified by the Contractor during field erection. When the Truss Placement Diagram serves only as a guide for Truss installation and requires no engineering input or is not prepared by a RDP, it does not require the seal of any RDP including cases where the Legal Requirements mandate a RDP for the Buildings (2.3.6.4).

In preparing the Truss Submittal Package, the Truss Manufacturer shall be permitted to rely on the accuracy and completeness of information furnished in the Construction Documents or otherwise furnished in writing by the Building Designer and/or Contractor (2.3.6.8).

The Truss Manufacturer shall determine the fabrication tolerance to be used in the truss design (2.3.6.9) and manufacture the trusses in accordance with the final Truss Design Drawings, using the quality criteria required by ANSI/TPI 1-2014 unless more stringent quality criteria is provided by the Owner in writing or through the Construction Documents (2.3.6.10).



Structural Building
Components Association

608-274-4849 • sbcindustry.com

Copyright © 2003-2016

Checklist for Handling and Installing Trusses *Lista de Verificación Para Manejar e Instalar Los Trusses*



Review all the information provided in the Jobsite Package to ensure compliance with industry recommendations. Property damage, serious bodily injury and/or death are possible when handling and installing trusses without following the recommendations presented in the Jobsite Package. This is particularly true when working with trusses with clear spans 60' and greater.

Revise toda la información provista en el Paquete de obra para asegurarse que cumplen con las recomendaciones de la industria. Daño a propiedad, herida seria y/o muerte son posibles cuando manejar e instalar trusses sin siguiendo las recomendaciones presentados en del Paquete de obra. Especialmente cuando trabajar con trusses de 60 pies de largo o más.

Use the following checklist when handling and erecting trusses.

- ☐ Inspect the trusses at the time of delivery and after installation for:
 - (1) Conformance with the Truss Design Drawings
 - (2) Dislodged/missing connector plates
 - (3) Cracked, dislodged or broken members
 - (4) Any other damage that may impair the structural integrity of the trusses.

Notify the truss manufacturer if truss repairs are needed. After installation, if damage to the trusses is discovered that could weaken them, temporarily brace or support the trusses to prevent further damage and make sure the area remains clear of plumbing, electrical, mechanical runs, etc. until the required repairs have been properly completed.

DO NOT cut, drill, relocate, add or remove any truss member or metal connector plate until you have received instructions from the truss manufacturer.

- ☐ Protect trusses from weather, corrosion, lateral bending, damage and deterioration when stored at the jobsite. When trusses are stored at the site, use blocking, stringers, pallets, platforms or other means of support to keep the trusses off the ground or in a braced upright position to avoid damage.
- ☐ Carefully review the truss design drawings (TDD) and the truss placement diagram (TPD), if provided by contract, and all Jobsite Package documents prior to handling and installing trusses.
- ☐ Examine the building, the building's structural framing system, bearing locations and related installation conditions. Begin installing trusses only after any unsatisfactory conditions have been corrected.

Use la siguiente lista de verificación cuando se manejan o se levantan los trusses.

- ☐ *Examine los trusses cuando se los entreguen y después de la instalación para:*
 - (1) *Conformidad con los Dibujos de Diseño del Truss*
 - (2) *Placas de conexión fuera de lugar o perdidas*
 - (3) *Miembros rotos, descolocados o partidos*
 - (4) *Cualquier otro daño que pueda perjudicar la integridad estructural de los trusses.*

Avisé el fabricante de trusses si reparaciones al truss son necesarios. Después de la instalación, si daño a los trusses está descubierto que pueden debilitarlos, arriostre o soporte los trusses temporalmente para prevenir más daño y asegúrese que el área queda libre de tuberías, las componentes eléctricas o mecánicas, etc. hasta que todos los reparaciones requeridas son completados correctamente.

NO corte, perforo, reubique, añada o quita ningún miembro del truss o conector de metal hasta que haya recibido instrucciones del fabricante de trusses.

- ☐ *Proteja los trusses del clima, de la corrosión de torceduras laterales, daño y deterioros cuando los guarda en la obra. Cuando trusses son guardado en sitio, use bloqueados, paletas, plataformas u otros tipos de soporte para almacenarlos fuera de la tierra o en posición vertical para evitar que se dañen.*
- ☐ *Revise cuidadosamente los dibujos de diseño del truss (TDD), el diagrama de instalación de trusses (TPD) si está provisto, y todos los documentos del Paquete de obra antes de manejar e instalar los trusses.*
- ☐ *Examine el edificio, el sistema del armazón estructural, las ubicaciones de los soportes y las condiciones relacionadas con*

- ☐ Properly connect all beams and components that support trusses prior to installing the trusses.
- ☐ Girder trusses may consist of more than one truss. Review the TDD to determine the proper number of plies and the correct attachment methods to be used at the jobsite.
- ☐ Use a spreader bar 1/2 to 2/3 of the truss span for trusses over 30' but less than 60' and 2/3 to 3/4 of the truss span for trusses up to and over 60'.
- ☐ Install lateral restraint and diagonal bracing in accordance with the guidelines in the Jobsite Package to prevent trusses from toppling during installation. Erect trusses using the design spacing indicated, keeping the trusses vertical and parallel to one another. Anchor trusses securely at bearing points. Install trusses no more than plus or minus 1/4" from the TPD location.
- ☐ Refer to the construction documents, the TDDs or the TPD (if required by the contract) for the hanger locations. Hangers shall be correctly attached. Refer to hanger manufacturer's specifications for installation information.
- ☐ Install all permanent individual truss member restraint and bracing or member reinforcement depicted on the TDDs, BCSI-B3 and the construction documents.
- ☐ Comply with the owner's, or the owner's retained registered design professional's, permanent building stability bracing, anchorage, connections and field assembly requirements. This information is typically provided in the construction documents.
- ☐ Install structural sheathing as soon as possible. Trusses hold their profiles best when they have been properly plumbed, restrained and braced with structural sheathing. Sheath early... sheath often!
- ☐ During construction, distribute material and equipment loads (e.g., plywood, drywall, roofing, tools, etc.) on the trusses to stay within the design load limits for each truss. Make sure the trusses are adequately restrained and braced BEFORE placing any construction loads on them. Only install HVAC units, fire sprinklers, etc., on trusses if the trusses have been designed to accommodate these specific loads. Review the TDD for the assumed loads and locations.

NOTE: Temporarily braced structures are NOT suitable for use or occupancy. Restrict access to construction personnel only. DO NOT inhabit or store anything of value in temporarily braced structures.



Under industry guidelines, trusses that have been field altered on the jobsite or overloaded during the installation phase of construction may null or void the truss manufacturer's limited warranty. Check the truss manufacturer's limited warranty for specific information.

la instalación. Comience a instalar los trusses sólo después de haber resuelto cualquier condición desfavorable.

- ☐ Conecte correctamente todas las vigas y componentes que apoyan cerchas antes de instalar las trusses.
- ☐ Los trusses de travesaño pueden consistir en más de un truss. Revise los TDDs para determinar el número adecuado de capas y los métodos de conexión correctos para ser usados en la obra.
- ☐ Use una barra de extensión a 1/2 hasta 2/3 del vano del truss para los trusses que tengan entre 30 pies y 60 pies. Use una barra de extensión 2/3 hasta 3/4 del vano del truss para los trusses hasta más largo de 60 pies.
- ☐ Instale restricción lateral y arriostre diagonal de acuerdo con las directrices en el Paquete de obra para evitar que los trusses se caigan durante la instalación. Levante los trusses usando el espacio de diseño indicado, y mantenga los trusses verticales y paralelos con respecto al otro. Arriostre los trusses de forma segura en los soportes. Instale los trusses a una distancia no más de 1/4 pulgadas de la ubicación en el TPD.
- ☐ Refiera a los documentos de construcción, el TDD o el TPD (si requerido por el contrato) para las ubicaciones de los conectores. Conectores deben ser sujetos correctamente. Refiera a las especificaciones del fabricante de los conectores para información de instalación.
- ☐ Instale todas restricciones permanentes de miembros individuales del truss o refuerzas de miembros secundarios mostrados en el TDD, BCSI-B3 y los documentos de construcción.
- ☐ Cumplase con los requisitos de arriostre permanente de estabilidad del edificio, restricciones, conexiones, y del ensamblaje en campo del propietario o del profesional de diseño registrado que es empleado por el propietario. Esta información es provista típicamente en los documentos de construcción.
- ☐ Instale el entablado estructural cuanto antes. Los trusses se sostienen mejor cuando han sido apropiadamente colocados a plumadas, restringidas, arriostradas y sujetos al entablado estructural correctamente. ¡Aplique el entablado temprano... aplíquelo con frecuencia!
- ☐ Durante la construcción, distribuya los materiales y cargas de equipo (ej. contrachapado, herramientas, materiales, etc.) en los trusses para quédese entre las límites de capacidad para cada truss. Asegúrese que los trusses son restringidos y arriostrados adecuadamente ANTES de poner algunas cargas de construcción encima de los. Solamente instale unidades de HVAC, aspersores del fuego, etc., en los trusses si los trusses son diseñados para contenerlos. Revise los TDD para las cargas y ubicaciones supuestos.

NOTA: Estructuras que son arriostrados temporalmente NO SON apropiados para el uso o la ocupación. Restrinja la entrada a solamente los obreros. NO habitar o guardar alguna cosa de valor entre de estructuras que son arriostrados temporalmente.

Bajo las guías industriales, los trusses que han sido alterados en la obra o sobrecargados durante la fase de instalación de la construcción, pueden anular o invalidar la garantía limitada que ofrece la compañía fabricante de sus trusses. Para información específica, revise la garantía que brinda la compañía fabricante.

SBCA

Structural Building Components Association
6300 Enterprise Lane • Madison, WI 53719
608-274-4849 • sbcindustry.com

Copyright © 2002-2019 SBCA – Structural Building Components Association. All Rights Reserved.

Reproduction of this document, in any form, is prohibited without written permission from SBCA. This document should appear in more than one color.

B2 Truss Installation & Temporary Restraint/Bracing Instalación de Trusses & Restricción/Arriostre Temporal

For Trusses Up to 2'-0" On Center and 80'-0" in Length
Para trusses hasta 2 pies en centro y hasta 80 pies de longitud

NOTICE Section 2303.4.1.3 of the 2018 International Building Code (IBC) requires the temporary installation restraint/bracing for all trusses with clear spans 60 feet (18.3 m) or greater to be designed by a registered design professional.

Sección 2303.4.1.3 del International Building Code (IBC) de 2015 requiere que la instalación temporal de restricción/arriostre para todos armazones con lapso libre de 60 pies (18.3 m) o más se diseña por un profesional de diseño registrado.

⚠ DANGER Disregarding handling, installing, restraining and bracing safety recommendations is the principal cause of truss erection/installation accidents.

PELIGRO El no seguir las recomendaciones de manejo, instalación, restricción y arriostre es la causa principal de los accidentes durante la erección/instalación de trusses.



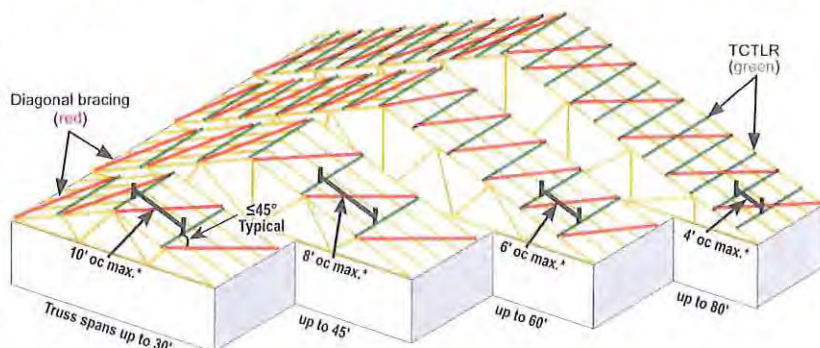
NOTICE Lateral restraint is NOT adequate by itself. Diagonal bracing is also required.

La Restricción Lateral NO es adecuada sin el Arriostre Diagonal.

Diagonal bracing
Lateral restraint

Always diagonally brace for safety!
¡Siempre arriostre diagonalmente para seguridad!

Maximum Spacing For Top Chord Temporary Lateral Restraint (TCTLR) El espaciamiento máximo para la restricción lateral temporal de la cuerda superior (TCTLR)



The graphic at left shows the maximum on center (oc) spacing of TCTLR based on truss span from the table in Step 2 on page 2.

- Ground bracing not shown for clarity.
- Apply diagonal bracing or structural sheathing immediately. For spans over 60' applying structural sheathing immediately is the preferred method.

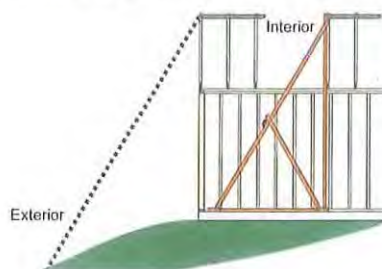
El dibujo a la izquierda muestra el espaciamiento máximo en el centro del TCTLR basado en los tramos de trusses de la tabla en el Paso 2 en la página 2.

- No se muestra el arriostre de tierra para claridad.
- Aplique inmediatamente el Arriostre Diagonal o el Entablado Estructural (structural sheathing). Para tramos más de 60 pies el método preferido es entablarlos inmediatamente.

Check These Items Before Starting Truss Erection/Installation and Correct as Needed Revise estos puntos antes de empezar la erección/instalación y corríjalos cuando es necesario

- ✓ Building dimensions match the construction documents.
Las dimensiones del edificio concuerdan con los documentos de construcción.
- ✓ Bearing supports (e.g., walls, columns, headers, beams, etc.) are accurately and securely installed, plumb and properly braced.
Los soportes que sostienen cargas (ej., paredes, columnas, vigas de cabecera, vigas, etcétera) son instalados seguramente y con precisión, y son nivelados y arriostrados apropiadamente.
- ✓ Hangers, tie-downs, restraint and bracing materials are on site and accessible.
Los colgadores (hangers), soportes de anclaje (tie-downs) y materiales de restricción y arriostre están accesibles en la obra.
- ✓ Erection/installation crew is aware of installation plan and lateral restraint/diagonal bracing requirements.
El personal de erección/instalación es consciente del plan de instalación y los requisitos de restricción/arriostre.
- ✓ Multi-ply trusses, including girders, are correctly fastened together prior to lifting into place.
Los trusses de varias capas, incluyendo travesaños, son fijados juntos correctamente antes de levantarlos en lugar.
- ✓ Any truss damage is reported to truss manufacturer. Refer to **BCSI-B5**. Do not install damaged trusses unless instructed to do so by the building designer, truss designer or truss manufacturer.
Reporte cualquier daño a los trusses al fabricante de trusses. Consulte el resumen **BCSI-B5**. No instale trusses dañados a menos que se lo indique el diseñador del edificio, el diseñador del truss o el fabricante del truss.
- ✓ Trusses are the correct dimension.
Los trusses son la dimensión correcta.
- ✓ Tops of bearing supports are flat, level and at the correct elevation.
Las partes superiores de los soportes de cojinete son planas, niveladas y a la elevación correcta.
- ✓ Jobsite is clean and neat, and free of obstructions.
La obra está limpia, ordenada y sin obstrucciones.

The ground bracing procedure is based on site and building configuration.
El procedimiento de arriostre de tierra para el primer truss es basado en el terreno y la configuración del edificio.



If ground level is too far from truss for exterior ground bracing, use interior ground bracing.

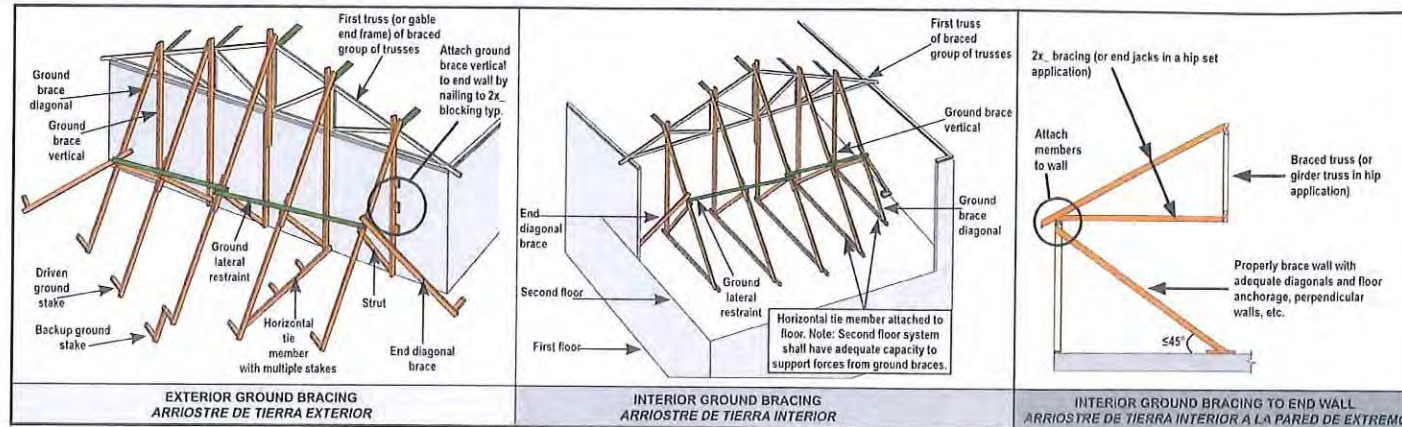
Si el nivel del suelo es demasiado lejos para usar arriostre de tierra exterior, use arriostre de tierra interior.

Steps to Setting Trusses

Pasos para el montaje de trusses

1 Establish Ground Bracing Procedure: Exterior or Interior

1 Establezca el procedimiento de arriostre de tierra: exterior o interior

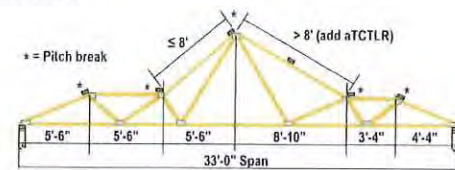


2 Determine the Locations for TCTLR and Ground Braces

2 Determine las ubicaciones para TCTLR y los arriostres de tierra

Use truss span to determine spacing for top chord temporary lateral restraint (TCTLR) from table at right.

Use el tramo del truss para determinar el espaciamiento para restricción lateral temporal de la cuerda superior (TCTLR) en la tabla a la derecha.



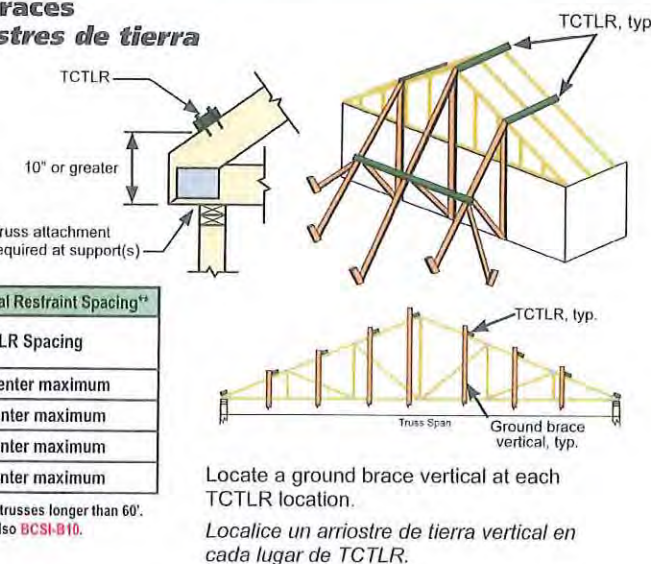
Locate additional TCTLR at each pitch break.
Localice TCTLR adicional en cada rotura de inclinación.

Locate additional TCTLR over bearings if the heel height is 10" or greater.

Localice TCTLR adicional sobre los soportes si la altura del talón (heel height) es de 10 pulgadas o más.

Truss Span	TCTLR Spacing*
Up to 30'	10' on center maximum
30' - 45'	8' on center maximum
45' - 60'	6' on center maximum
60' - 80'+	4' on center maximum

*Consult a registered design professional for trusses longer than 60'.
**For trusses spaced greater than 2' oc, see also BCSI-B10.



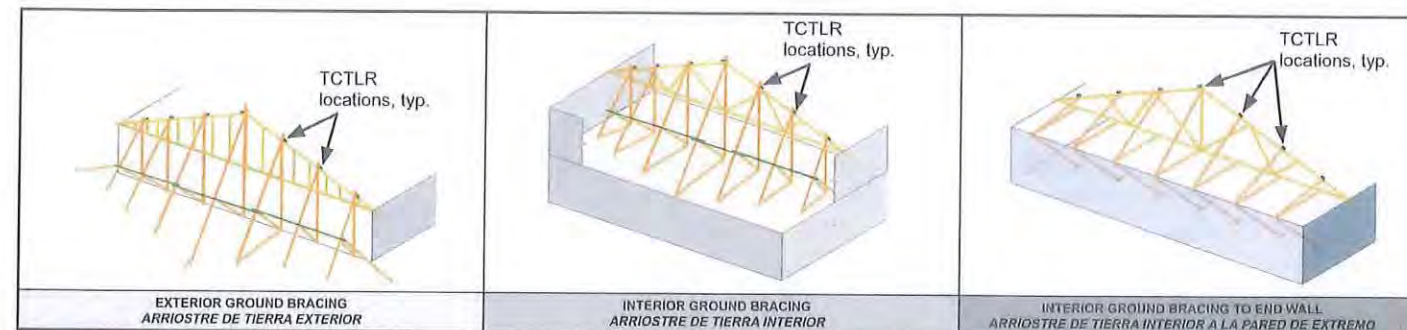
Locate a ground brace vertical at each TCTLR location.
Localice un arriostre de tierra vertical en cada lugar de TCTLR.

3 Set First Truss and Fasten Securely to Ground Braces

3 Coloque el primer truss y fíjelo seguramente a los arriostres de tierra

Set first truss (or gable end frame) and fasten securely to ground braces and to the wall, or as directed by the building designer. Examples of first truss installed include:

Coloque el primer truss (o armazón hastial) y fíjelo seguramente a las verticales de arriostre de tierra y a la pared, o como se dirige el diseñador del edificio. Ejemplos del primer truss instalado incluyen:



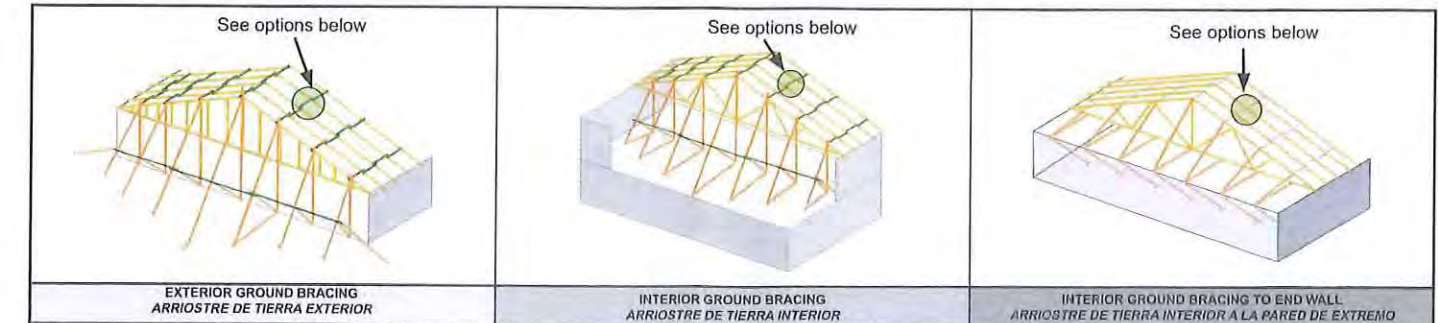
CAUTION First truss must be attached securely to all bearings and to all required ground braces prior to removing the hoisting supports.

CAUTELA El primer truss debe estar firmemente sujeto a todos los soportes y a todos los arriostres de tierra requeridos, antes de quitar los soportes de levantamiento.

4 Set Trusses 2, 3, 4 & 5 with TCTLR in Line with Ground Bracing

4 Coloque los trusses 2, 3, 4 y 5 con TCTLR en línea con los arriostres de tierra

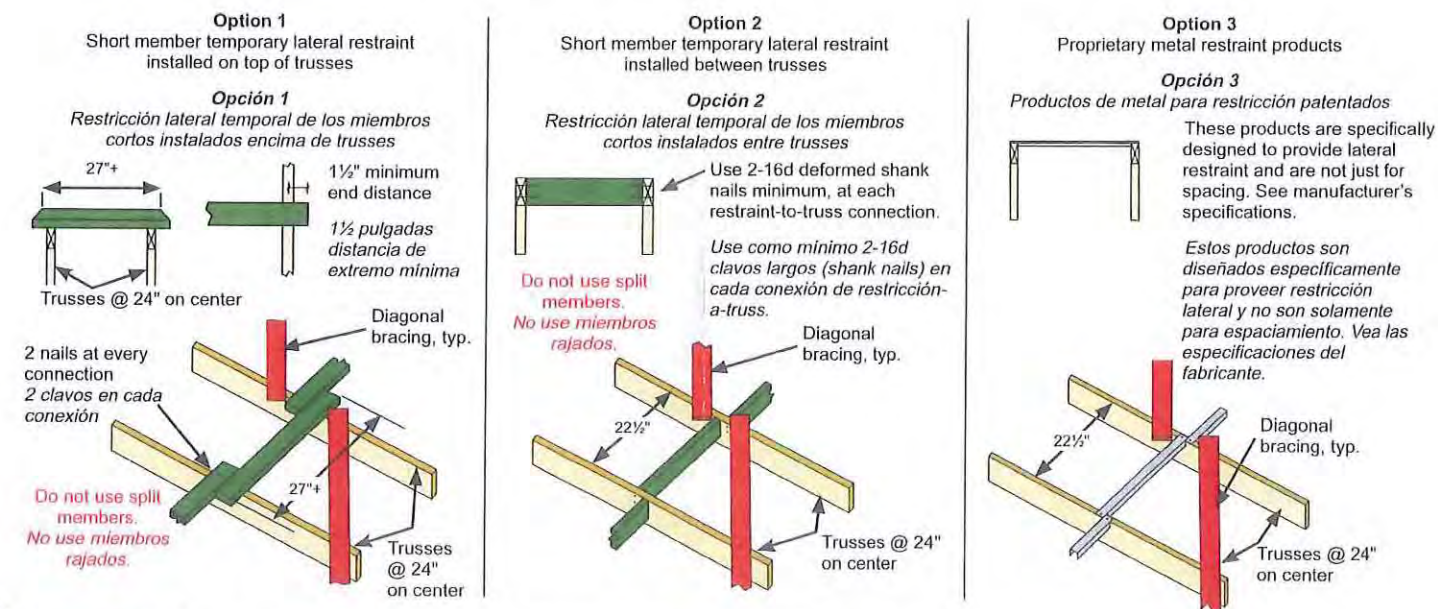
Attach trusses securely at all bearings, shimming bearings as necessary. Examples of first five trusses set include:
Sujete seguramente los trusses a todos los soportes, rellenar sólidamente los soportes como sea necesario. Ejemplos de los primeros cinco trusses colocados incluyen:



NOTICE The following three (3) Short Member Temporary Lateral Restraint options require that the diagonal bracing be installed continuously.

See figure for Option B in Step 8 on page 5.

Las siguientes tres opciones para instalar la Restricción Lateral Temporal de los Miembros Cortos requieren que el arriostre diagonal esté instalado continuamente. Vea la figura de Opción B en el Paso 8 en la página 5.



CAUTION Each truss must be attached securely at all bearing locations and all TCTLR installed before removing the hoisting supports.

CAUTELA Cada truss debe estar firmemente sujeto en todas las ubicaciones de soportes y todas las TCTLR instaladas antes de quitar los soportes de levantar.

LATERAL RESTRAINT/BRACING MATERIAL AND CONNECTIONS

CONEXIONES Y MATERIALES DE RESTRICCIÓN/ARRIOSTRE LATERAL

Minimum size of bracing and lateral restraint material is 2x4 stress-graded lumber or approved proprietary metal restraint/bracing, unless otherwise specified by the building designer.

El tamaño del material de restricción lateral y arriostre debe ser por lo menos 2x4 madera graduada por esfuerzo o restricción/arriostre de metal patentado aprobado, a menos que especifique el diseñador del edificio.

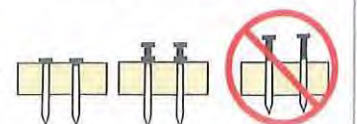
All bracing and lateral restraint members must be connected to each truss with at least 2 nails (see minimum sizes below), except for the short member restraints shown in Step 4, Option 2 (see above), which require 2-16d deformed-shank (i.e., ring- or screw-shank) nails.

Todos los miembros de restricción lateral y arriostre tienen que ser conectados a cada truss con un mínimo de 2 clavos (ver los tamaños mínimos mostrados abajo) excepto para las restricciones de miembros cortos mostrados en el Paso 4, Opción 2 (vea arriba), cuales requieren 2-16d clavos con largos desformados (Ej. Largos de anillos o tornillos).

Drive nails flush. If the temporary restraint and bracing is to be removed when the permanent bracing is installed, use double-headed nails for ease of removal.

Clave los clavos al raso. Si la restricción temporal y el arriostre se quitan en el momento de la instalación del arriostre permanente, use clavos de dos cabezas para quitarlos más fácilmente.

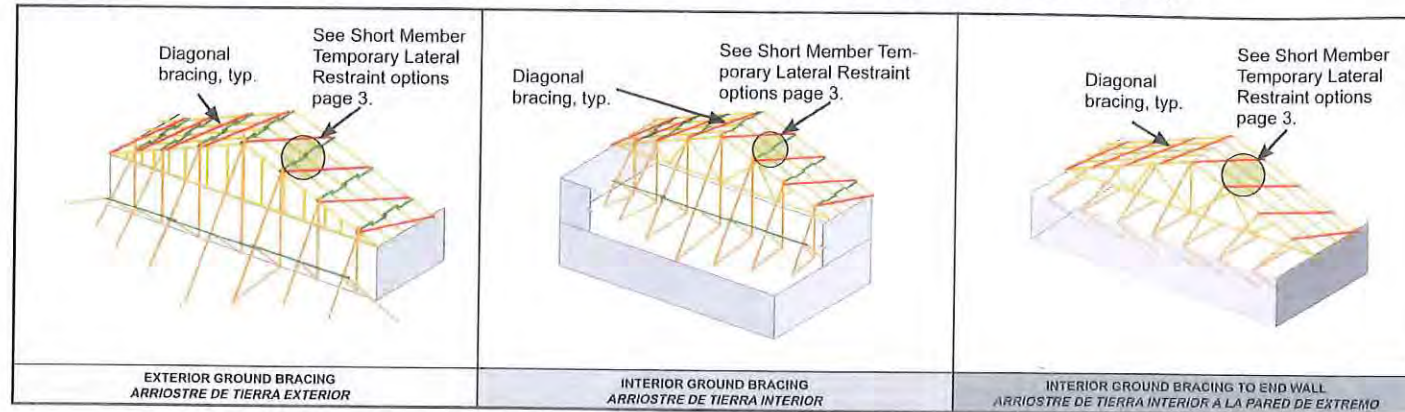
10d (0.128x3")
12d (0.128x3.25")
16d (0.131x3.5")



5. Install Top Chord Diagonal Bracing Instale el arriostre diagonal de la cuerda superior

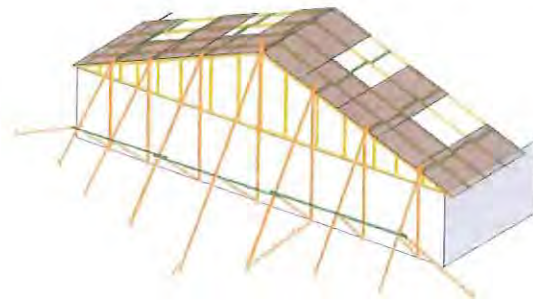
Attach diagonal bracing to the first five trusses. Examples of diagonal bracing on first five trusses include:

Coloque el arriostre diagonal a los primeros cinco trusses. Ejemplos de arriostre diagonal en los primeros cinco trusses incluyen:



Or start applying structural sheathing. Example of structural sheathing installed on first five trusses.

O bien, empiere a aplicar el entablado estructural. Ejemplo de entablado estructural instalado en los primeros cinco trusses.



6. Install Web Member Diagonal Bracing Instale el arriostre diagonal de miembros secundarios

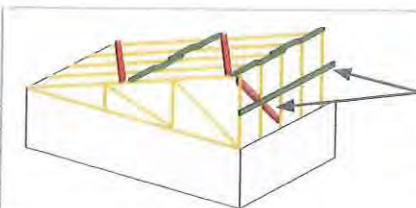
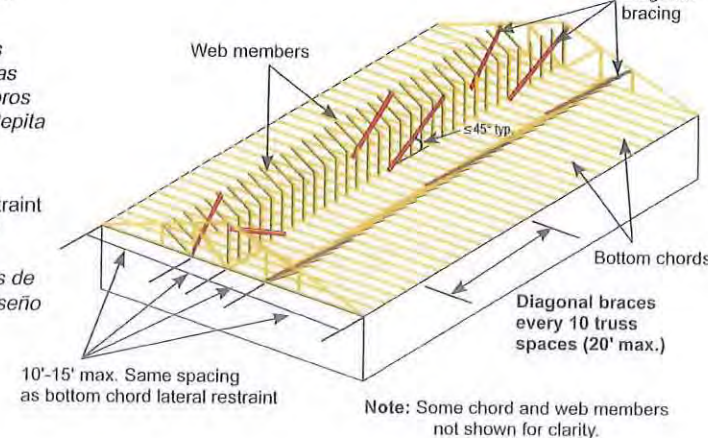
Temporary web member diagonal bracing acts with the top chord and bottom chord temporary lateral restraint and diagonal bracing to form triangulation perpendicular to the plane of the truss and prevents trusses from leaning or dominoing.

El arriostre diagonal temporal de los miembros secundarios trabaja con la restricción lateral y el arriostre diagonal temporales de la cuerda superior e inferior para formar una triangulación perpendicular al plano del truss y evita que los trusses se inclinen o caigan como dominós.

Install diagonal bracing at about 45° to the horizontal on web members (verticals whenever possible) located at or near rows of bottom chord lateral restraint. Web diagonal bracing must extend from the top chord to the bottom chord. Repeat at the intervals shown in the figure below.

Instale el arriostre diagonal a aproximadamente 45 grados en los miembros secundarios (verticales cuando sea posible) colocados en o cerca de las filas de restricción lateral de la cuerda inferior. Arriostre diagonal para los miembros secundarios tiene que extender de la cuerda superior a la cuerda inferior. Repita a los intervalos mostrados en la figura a la derecha.

NOTICE The requirements for web permanent individual truss member restraint are specified on the truss design drawing (TDD). Refer to **BCSI-B3** for more information.
Los requisitos para la restricción permanente de miembros individuales de truss para miembros secundarios son especificados en el dibujo del diseño de truss. Vea el resumen **BCSI-B3** para más información.



NOTICE Mono trusses, deep flat trusses and other types of trusses with deep ends also require temporary lateral restraint and diagonal bracing on the vertical web member at the deep end of the truss.

Los trusses de una sola pendiente, trusses planos y profundos y otros tipos de trusses con extremos profundos también requieren restricción lateral temporal y arriostre diagonal en los miembros secundarios largos en el extremo profundo del truss.

7. Install Bottom Chord Lateral Restraint and Diagonal Bracing Instale la restricción lateral y el arriostre diagonal de la cuerda inferior

Bottom chord temporary lateral restraint and diagonal bracing stabilizes the bottom chord plane during installation and helps maintain proper spacing of the trusses.

La Restricción lateral temporal y el arriostre diagonal de la cuerda inferior estabilizan el plano de la cuerda inferior durante la instalación y asiste en mantener el espaciamiento apropiado de los trusses.

Install rows of temporary lateral restraint at 15' on center maximum. Remove, if desired, after the permanent ceiling diaphragm is in place.

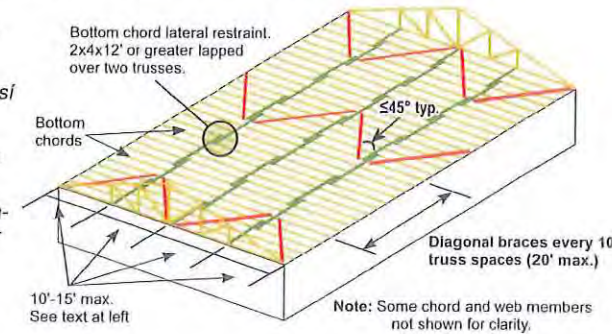
Instale filas de restricción lateral temporal a 15 pies en el centro como máximo. Quitelos, si así lo desea, después que de el diafragma permanente del techo esté colocado.

Install rows of permanent lateral restraint at 10' on center maximum. Required spacing may be less; check the TDD and/or with the building designer.

Instale filas de restricción lateral permanente a 10 pies en el centro como máximo. El espaciamiento especificado puede ser menor; verifique el dibujo del diseño de truss con el diseñador del edificio.

Install diagonal bracing at intervals of 20' maximum along the run of trusses.

Instale el arriostre diagonal a intervalos de 20 pies máximo a lo largo de la línea de trusses.



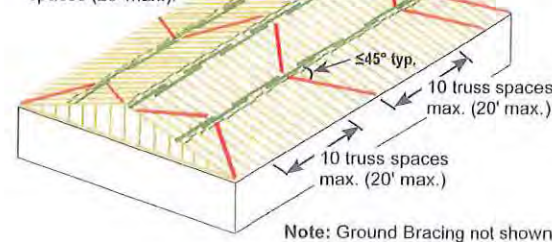
8. Repeat Steps 4 Through 7 with Groups of Four Trusses Using Option A or B Repita los pasos 4 a 7 con grupos de cuatro trusses usando la opción A o la opción B

Option A: Install the next four trusses using short member temporary lateral restraint Options 1 - 3 per Step 4 on page 3. Add long-length (minimum 2x4x12') continuous lateral restraint (CLR) to tie trusses together. Overlap the ends of the CLR at least 2 trusses. Install diagonal bracing at intervals of 20' maximum along the run of trusses (see Figure below).

Instale los siguientes cuatro trusses utilizando las opciones 1-3 por el Paso 4 en la página 3 de la restricción lateral de miembros cortos. Añade la restricción lateral continua (CLR) de longitud-largo (mínimo 2x4x12') para atar junto los trusses. Solaparse las puntas del CLR a mínimo de dos trusses. Instale el arriostre diagonal cada 20 pies máximo a lo largo de la línea de trusses (vea la Figura abajo).

NOTICE The maximum diagonal brace spacing provided in this Option assumes ground bracing is properly installed and in place.
El espaciamiento máximo de arriostre diagonal en esta Opción asume que el arriostre de tierra está en sitio y es instalado correctamente.

Diagonal bracing required at each end of building, between each row of TCTLR, and every 10 truss spaces (20' max.).

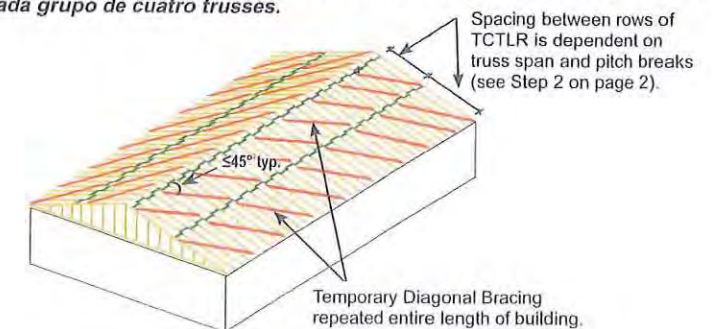


Option B: Install diagonal bracing on each group of four trusses that have been set with short member temporary lateral restraint per Step 4 on page 3.

Instale el arriostre diagonal en cada grupo de cuatro trusses que han sido colocados con la restricción lateral temporal de miembros cortos por el paso 4 en la página 3.

WARNING After the initial group of five trusses are installed and braced (i.e., lateral restraint and diagonal bracing), **DO NOT** set more than four trusses when using short member temporary lateral restraint before you **STOP**, and diagonally brace as shown. **Option B is NOT** permissible without diagonal bracing being installed with each group of four trusses.

ADVERTENCIA! Después de que el primer grupo de cinco trusses sea instalado y arriostrado (Ej. restricción lateral y arriostre diagonal), **NO** coloque más de cuatro trusses cuando se usa la restricción lateral temporal de los miembros cortos antes que usted **PARA**, y arriostrelo diagonalmente como mostrado. **Esta opción B NO funciona sin el arriostre diagonal aplicado a cada grupo de cuatro trusses.**



**ENSURE THAT ALL TRUSSES ARE PROPERLY DIAGONALLY BRACED.
ASEGÚRESE QUE TODOS LOS TRUSSES ESTÉN ARRIOSTRADOS
DIAGONALMENTE APROPIADAMENTE.**

Apply structural sheathing early and often.

Aplice el entablado estructural temprano y con frecuencia.

DO NOT wait until all trusses are set to apply structural sheathing.
NO ESPERE hasta que todos los trusses estén colocados para aplicar el entablado estructural.

CAUTION Remove only as much top chord temporary lateral restraint and diagonal bracing as necessary to nail down the next sheet of structural sheathing. **DO NOT** exceed truss design load with construction loads. (SEE **BCSI-B4**)

CAUTELA Quite sólo tanta restricción lateral temporal y arriostre diagonal de la cuerda superior como sea necesario para clavar la siguiente lámina de entablado estructural. **NO EXCEDA** la carga de diseño de truss con cargas de construcción. (VEA **BCSI-B4**)



Alternate Installation Method: Build It On the Ground and Lift It Into Place Método alternativo de instalación: construirlo en la tierra y levantarlo en lugar

Ensure level bearing; set, position, plumb and properly restrain and brace the trusses as modules on the ground.
Asegúrese que el soporte es nivelado; colocar, posicionar, nivelar y restringir y arriostrar apropiadamente el grupo de trusses en la tierra.

Apply structural sheathing for stability. Begin at the heel and alternate 4'x8' and 4'x4' sheets up to the peak.
Aplique el entablado estructural para estabilidad. Empiece en el talón y alterne láminas de 4 pies x 8 pies y 4 pies x 4 pies hasta el pico.

Be sure to install all top chord, web member and bottom chord lateral restraint and bracing prior to lifting the module.

Asegúrese de instalar toda la restricción y arrioste de la cuerda superior, el miembro secundario, y la cuerda inferior antes de levantar el módulo.

CAUTION Additional restraint and bracing may be required to safely lift units into place.
CAUTELA La restricción y arrioste adicional pueden ser requeridos para levantar los módulos en sitio sin peligro.

Be sure to get proper guidance from a registered design professional to insure modules are designed and installed safely and properly.

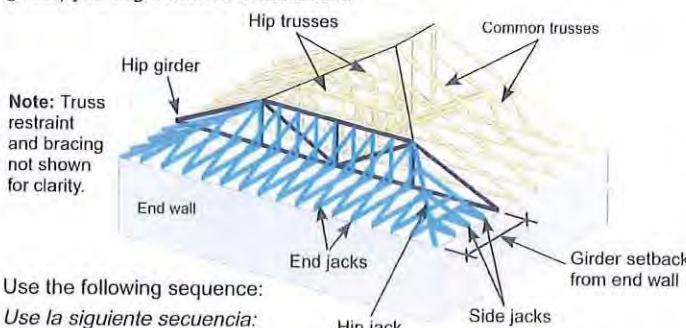
Asegúrese de obtener consejos apropiados por un profesional registrado de diseño para asegurar que los módulos son diseñados y instalados apropiadamente y sin peligro.



Hip Set Assembly and Bracing Ensamblaje y arrioste del grupo de cadera

Permanently connecting the end jacks to the end wall and girder as early in the installation process as possible dramatically increases the stability of the hip girder and the safety of the structure.

Conectando permanentemente los gatos extremos a la pared extremo y el travesaño tan temprano en el proceso de instalación como sea posible aumenta drásticamente la estabilidad del travesaño de cadera (hip girder) y la seguridad de la estructura.



Use the following sequence:

Use la siguiente secuencia:

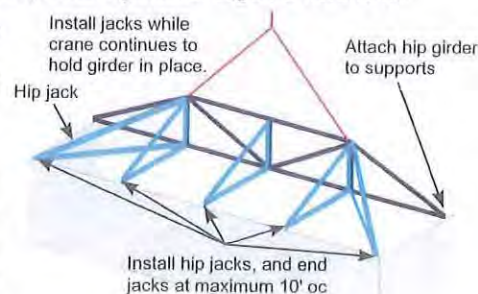
Step 1 Position the hip girder on the bearing walls at the specified end wall setback and permanently attach to supports.

Posicione el travesaño de cadera en las paredes de soporte al "setback" especificado de la pared extrema y sujete a los soportes permanentemente.

NOTICE Whenever possible, connect multi-ply girder trusses together and install the end jack hangers (if required) prior to erection/ installation. All plies of a multi-ply girder shall be attached per the fastening schedule on the TDD before attaching any framing members or applying any loads.

Siempre que sea posible, conecte los trusses de travesaño de varias-capas juntos y instale los colgadores de gato extremo (si es necesario) antes de la erección/instalación. Todas las capas de un travesaño de varias capas se adjuntarán según el horario de fijar en el dibujo del diseño de truss antes de sujetar cualquier miembro de arrioste o de aplicar cualquier carga.

Step 2 Install hip jacks, and end jacks at maximum 10' on center, while crane continues to hold girder in place.



Instale los gatos de cadera y los gatos extremos a 10 pies máximo en centro mientras la grúa continúa mantener el travesaño en lugar.

Note: Attach jack trusses to top chord and bottom chord of girder truss. The connection to the top chord is important as it helps to stabilize the top chord of the girder.

Sujete los trusses de gatos a la cuerda superior y la cuerda inferior del truss de travesaño. La conexión por encima es importante porque ayuda a estabilizar la cuerda superior del travesaño.

Step 3 Install all remaining end and side jacks with all permanent truss-to-bearing connections (e.g., hangers and tie-downs).

Instale todos los gatos extremos y gatos de rincón restantes con todas las conexiones permanentes de truss-a-soporte (Ej. colgadores y soportes de anclaje).

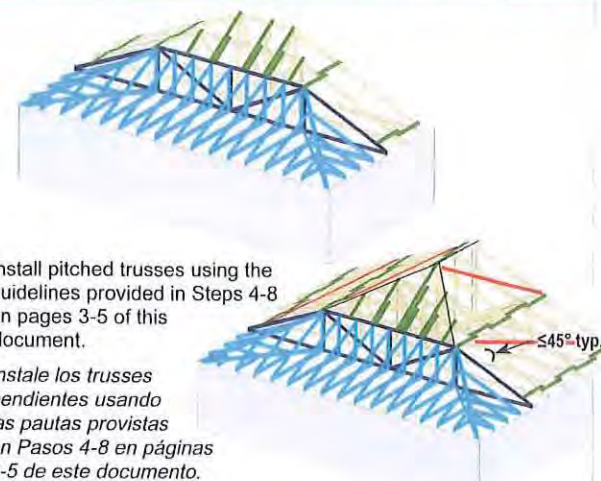
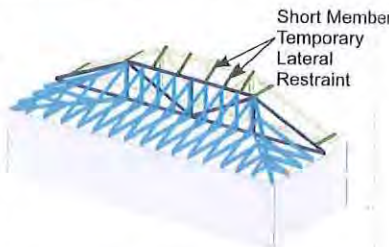
Step 4 Install the next hip truss with 2x4 short member temporary lateral restraints. Attach each short member temporary lateral restraint to the top chord of the hip girder and adjacent hip truss with two nails at each connection.

The short member temporary lateral restraints should be long enough to extend at least 1 1/2" past the top chord of each truss. Place short member temporary lateral restraints at pitch breaks and at intervals along the top chords in accordance with Step 2 on page 2.

Instale el próximo truss de cadera con 2x4 restricciones laterales temporales para miembros cortos. Sujete cada restricción lateral temporal del miembro corto a la cuerda superior del travesaño de cadera y al truss de cadera contiguo con dos clavos a cada conexión. Las restricciones laterales temporales para miembros cortos deben ser lo suficientemente largas como para extender a un mínimo de 1 1/2" pasado de la cuerda superior de cada truss. Coloque la restricción lateral temporal de miembros cortos a roturas del pendiente y a intervalos por las cuerdas superiores según el Paso 2 en la página 2.

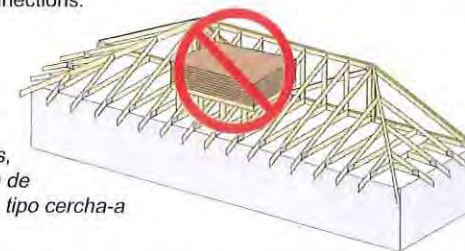
Step 5 Install remaining hip trusses. For the flat portion of each hip truss, use short member temporary lateral restraints that are at least double the length of the first set of short member temporary lateral restraints (see Figure on next page). For the sloped chords of the trusses, install short member temporary lateral restraints according to one of the three options in Step 4 on page 3.

Instale los restantes de los trusses de cadera. Para la parte plana de cada truss de cadera use restricciones laterales temporales de miembros cortos que son por lo menos dobles la longitud del primer grupo de restricciones temporales laterales de miembros cortos (vea la figura en la próxima página). Para las cuerdas pendientes de los trusses, instale las restricciones laterales temporales de miembros cortos según uno de las tres opciones en Paso 4 en la página 3.



DO NOT stack materials or stand at locations that will cause instability, such as on cantilevers, overhangs, end jacks, or near truss-to-girder truss connections.

NO apile los materiales, ni se pare en sitios de posible inestabilidad, como en voladizos, salientes, to cerca de las conexiones de tipo cercha-a-truss.



Long Span Truss Installation Instalación de trusses de tramos largos

DANGER Trusses with clear spans of 60' or greater are extremely dangerous to install and require more detailed safety and handling measures than shorter span trusses.

PELIGRO Trusses de 60 pies de largo o más son extremadamente peligrosos a instalar y requieren medidas de seguridad y manejo más detalladas que trusses de vanos más cortos.

Before Starting Antes de empezar

• Hire a registered design professional to design the temporary restraint/bracing, the permanent individual truss member restraint/bracing and to supervise the erection process. This is a requirement in the IBC.

Contrata un Profesional Registrado de Diseño para proveer un plan de restricción/arrioste temporal de los permanentes miembros individuales de braguero y para supervisar el proceso de erección. Esto es el requisito en algunos códigos de construcción.

• Develop a safe, effective truss installation method and inform all crew members of their roles.

Elabore un método seguro y efectivo de la instalación de trusses e informe a todos los miembros del personal de sus papeles.

• Use personnel who have experience installing trusses 60' and greater in span.

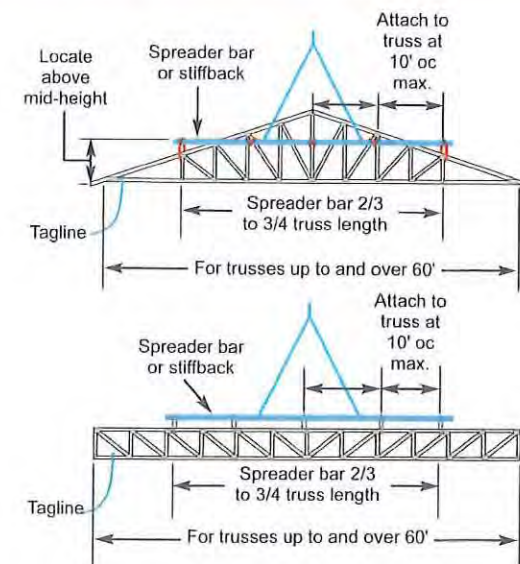
Utilice instaladores quienes tienen experiencia en instalar trusses de 60 pies o más de tramo.

• Ensure that the walls and supporting structure are stable and adequately restrained and braced.

Asegúrese que las paredes y la estructura soportante son estables y adecuadamente restringidas y arriostradas.

• Have all necessary lifting equipment and building materials on hand. Make sure the crane operator understands the special hoisting requirements of long span trusses (see **BCSI-B1**).

Tenga todo el equipo de levantar y los materiales de construcción necesarios a la mano. Asegúrese que el operador de grúa entiende los requisitos especiales de levantar los trusses de tramos largos (vea **BCSI-B1**).



Tips For Safe and Efficient Installations Consejos para instalaciones seguras y eficientes

Assemble the first five trusses with all structural sheathing, restraint and bracing, either as the trusses are installed or built as a unit on the ground and lifted into place.

Ensamble los primeros cinco trusses con todo el entablado estructural, restricción y arrioste, ya sea cuando los trusses son instalados o se los construyen como una unidad en la tierra y se los levantan en su lugar.

Keep trusses straight during hoisting to minimize bending out-of-plane.

Mantenga los trusses derechos durante el levantamiento para minimizar el doblado fuera-de-plano.

Add a temporary center support to provide greater stability and leave in place until all permanent building stability bracing is installed.

Agregue un soporte temporal en el centro para proveer más estabilidad y quedarlo en lugar hasta que todo el arrioste de estabilidad permanente de construcción es instalado.



Apply structural sheathing to the top chord as the trusses are being installed.

Aplique el entablado estructural a la cuerda superior mientras los trusses están instalados.



Install all permanent individual truss member restraint and bracing immediately.

Instale todo el arrioste y restricción permanente de miembros de trusses individuales inmediatamente.

Field Assembly and Other Special Conditions Ensamblaje de campo y otras condiciones especiales

Certain sizes or shapes of trusses require some assembly at the jobsite. Refer to the TDDs for specific instructions on assembly methods, unless the construction documents indicate otherwise.

Ciertos tamaños o formas de trusses requieren algún ensamblaje en la obra. Consulte a los dibujos del diseño de truss para instrucciones específicas sobre métodos de montaje, a menos que los documentos de construcción indiquen lo contrario.

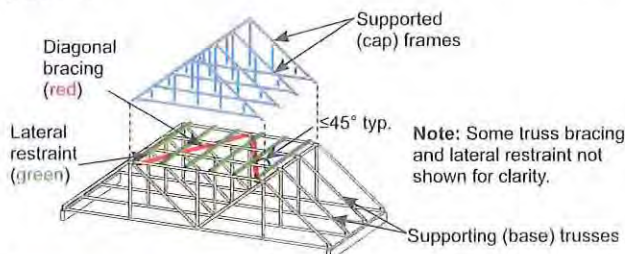
The contractor is responsible for proper field assembly.

El contratista es responsable para el ensamblaje de campo apropiado.

Piggyback Trusses Trusses de piggyback

The supporting (base) trusses shall be completely installed with all truss member AND permanent building stability bracing, as required, BEFORE installing the supported (cap) frames.

Los trusses soportantes serán completamente instalados con todos miembros de trusses Y el arriostre de estabilidad permanente de construcción como es requerido ANTES de instalar los armazones (cap) soportados.



WARNING Adequately restrain and brace the flat portion of the supporting trusses to prevent buckling.

¡ADVERTENCIA! Restrinja y arriostre adecuadamente la parte plana de los trusses soportantes para prevenir la distorsión.

For more information on how to permanently laterally restrain and diagonally brace piggyback truss assemblies refer to **BCSI-B3**.

*Para más información sobre como restringir lateralmente permanentemente y arriostrear diagonalmente sistemas de trusses de piggyback refiere al **BCSI-B3**.*

Field Spliced Trusses Trusses empalmados en campo

Splicing can be performed on the ground before installation or the truss sections can be supported by temporary shoring after being hoisted into place and the splices installed from a safe working surface.

Empalmado puede ser hecho en el suelo antes de la instalación o las secciones de trusses pueden ser soportados por "shoring" temporal después de que son levantados en lugar y los empalmes se instalen desde una superficie de trabajo segura.



Field-spliced trusses with temporary center support

Contact the component manufacturer for more information or consult a registered design professional for assistance.

Valley Set Frame Installation Instalación de armazón de conjunto de valle

The top chords of the supporting trusses must be braced properly. This can be accomplished by attaching structural sheathing or with rows of lateral restraint, spaced no more than the maximum on center spacing specified on the TDD, and diagonal bracing.

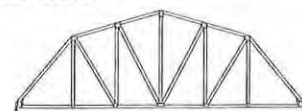
Las cuerdas superiores de los trusses de soporte tienen que ser arriostros apropiadamente. Esto puede ser hecho por sujetar el entablado estructural o con filas de restricción lateral, espaciados no más que el máximo en el espaciamiento del centro que es especificado en el dibujo del diseño de truss, y arriostre diagonal.



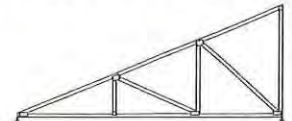
Valley sets as over-framing

This document applies to all sloped and flat chord trusses built with the wide-face of the lumber oriented vertically. Examples include:

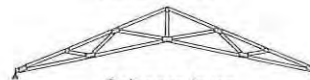
Este documento aplica a todos trusses de cuerda pendiente y plana construidos con la cara-ancha de la madera orientada verticalmente, tales como:



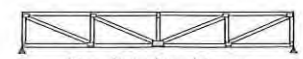
Gambrel truss



Mono truss



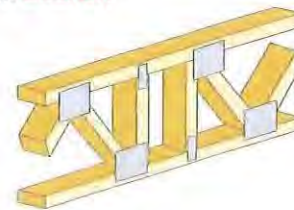
Scissors truss



Parallel chord truss

For parallel chord trusses manufactured with 3x2 or 4x2 lumber, see **BCSI-B7**.

*Para los trusses de cuerdas paralelas fabricados con madera 3x2 o 4x2, vea el resumen **BCSI-B7**.*



For trusses spaced more than 2'-0" on center, see **BCSI-B10**.

*Para los trusses espaciados más de 2 pies en el centro, vea el Resumen **BCSI B10**.*

This document summarizes the information provided in Section B2 of the 2018 Edition of Building Component Safety Information BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses. Copyright © 2004 - 2019 Structural Building Components Association. All Rights Reserved. This guide or any part thereof may not be reproduced in any form without the written permission of the publishers. Printed in the United States of America.



6300 Enterprise Lane • Madison, WI 53719
608-274-4849 • sbcindustry.com

WARNING Disregarding permanent restraint/bracing is a major cause of truss field performance problems and has been known to lead to roof or floor system collapse.

ADVERTENCIA Descuidar el arrioste/restricción permanente es una causa principal de problemas de rendimiento del truss en campo y se sabe que puede provocar el derrumbamiento del sistema del techo o piso.

NOTICE Section 2303.4.1.3 of the International Building Code (IBC) requires the permanent individual truss member restraint/bracing for all trusses with clear spans 60 feet (18.3 m) or greater to be designed by a registered design professional.

Sección 2303.4.1.3 del International Building Code (IBC) requiere que la instalación temporal de restricción/arrioste para todos armarzones con lapso libre de 60 pies (18.3 m) o más se diseñe por un profesional del diseño registrado.

Restraint/Bracing Materials & Fasteners

Materiales y cierres de restricción/arrioste

Commonly used restraint/bracing materials include wood structural panels, gypsum board sheathing, stress-graded lumber, proprietary metal products, and metal purlins and straps.

Materiales comunes de arriostar/restringir incluyen paneles estructurales de madera, entablado de yeso, madera graduada por esfuerzo, productos de metal patentados, y vigas de soporte y tiras de metal.

Lumber Size	Minimum Nail Size	Minimum Number of Nails per Connection
2x4 stress-graded	10d (0.128x3") 12d (0.128x3.25") 16d (0.131x3.5")	2
2x6 stress-graded	10d (0.128x3") 12d (0.128x3.25") 16d (0.131x3.5")	3

¹ Other attachment requirements may be specified by the building designer or truss designer.
² The grade/size and attachment for bracing materials such as wood structural panels, gypsum board sheathing, proprietary metal restraint/bracing products, and metal purlins and straps are provided by the building designer.

Permanent Bracing for the Various Planes of a Truss

Arrioste permanente para varios planos de un truss

Permanent bracing is important because it:

- prevents out-of-plane buckling of truss members,
- helps maintain proper truss spacing, and
- resists and transfers lateral loads from wind and seismic forces.

El arrioste permanente es importante porque:

- impide el torcer fuera-de-plano de los miembros del truss,
- ayuda en mantener espaciamiento apropiado de los trusses, y
- resiste y pasa las cargas laterales de viento y fuerzas sísmicas aplicadas al sistema del truss.

Trusses require permanent bracing within ALL of the following planes:

- Top chord plane
- Bottom chord plane
- Web member plane

Trusses requieren arrioste permanente dentro de TODOS los siguientes planos:

- Plano de la cuerda superior
- Plano de la cuerda inferior
- Plano del miembro secundario

CAUTION The truss, or a portion of its members, will buckle (i.e., fail) at loads far less than design without permanent bracing.

ADVERTENCIA Sin el arrioste permanente, del truss, o un parte de los miembros, torcerán (ej. fallarán) de cargas muchas menos que las cargas que el truss es diseñado a llevar.

Permanent Bracing for the Top Chord Plane

Arrioste permanente para el plano de la cuerda superior

Use plywood, oriented strand board (OSB), or wood or metal structural purlins that are properly braced. Attach to each truss.

Use contrachapado, panel de fibras orientado (OSB), o vigas de soporte de madera o metal que estén arriostros apropiadamente. Sujete a cada truss.

The Truss Design Drawing (TDD) provides information on the assumed support for the top chord.

El Dibujo del Diseño de Truss (TDD) provee información sobre el soporte supuesto para la cuerda superior.

Fastener size and spacing requirements and grade for the sheathing, purlins and bracing are provided in the building code and/or by the building designer.

El tamaño de cierre y requisitos de espaciamiento y grado para el entablado, vigas de soporte y arrioste son provistos en el código del edificio y/o por el diseñador del edificio.

Permanent Bracing for the Bottom Chord Plane

Arrioste permanente para el plano de la cuerda inferior

Use rows of continuous lateral restraint with diagonal bracing, gypsum board sheathing or some other ceiling material capable of functioning as a diaphragm.

Use filas de restricción lateral continua con arrioste diagonal, entablado de yeso o cualquier otro material para techo que pueda funcionar como un diafragma.

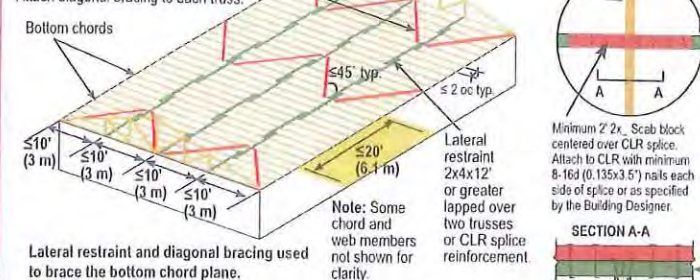
The TDD provides information on the assumed support for the bottom chord.

El TDD provee información sobre el soporte supuesto para la cuerda inferior.

Install bottom chord permanent lateral restraint at the spacing indicated on the TDD and/or by the building designer with a maximum of 10' (3 m) on center (oc).

Instale restricción lateral permanente de la cuerda inferior al espaciamiento indicado en el TDD y/o por el diseñador del edificio con un máximo de 10 pies en el centro.

Diagonal bracing required at each end of the building, between each row of lateral restraint, and at intervals of $\leq 20'$ (6.1 m). Attach diagonal bracing to each truss.



Permanent Bracing for the Web Member Plane

Arrioste permanente para el plano del miembro secundario

Web member permanent bracing collects and transfers buckling restraint forces and/or lateral loads from wind and seismic forces. The same bracing can often be used for both functions.

Arrioste permanente de los miembros secundarios recogen y pasan fuerzas de restricción de torcer y/o cargas laterales de viento y fuerzas sísmicas. A menudo el mismo arrioste puede ser usado para ambas funciones.

Individual Web Member Permanent Restraint & Bracing

Restricción y arrioste permanente de miembros secundarios individuales

Check the TDD to determine which web members (if any) require restraint to resist buckling.

Revisa el TDD para determinar cuáles miembros secundarios (si los hay) requieren restricción para resistir el torcer.

Restrain and brace with:

- Continuous lateral restraint & diagonal bracing, or
- Individual member web reinforcement.

Restrinja y arrioste con:

- Restricción lateral continua y arrioste diagonal, o
- Refuerzo de miembros secundarios individuales.

Continuous Lateral Restraint (CLR) & Diagonal Bracing

Restricción Lateral Continua (CLR) y arrioste diagonal

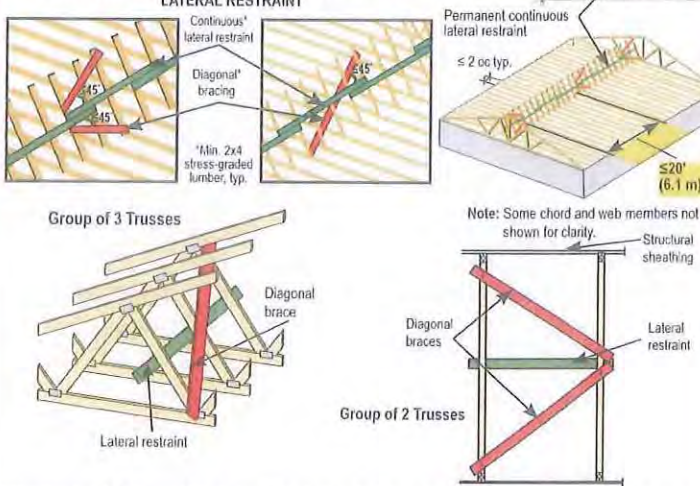
Attach each row of CLR at the locations shown on the TDD.

Sujete cada fila de CLR en las ubicaciones que se muestran en el TDD.

Install the diagonal bracing at an angle of less-than-or-equal-to 45° to the CLR and position so that it crosses the web in close proximity to the CLR. Attach the diagonal brace as close to the top and bottom chords as possible and to each web it crosses. Repeat every 20' (6.1 m) or less.

Instale el arrioste diagonal a un ángulo menos de o igual a 45° al CLR y colóquelo para que cruce la cuerda muy cerca del CLR. Sujete el arrioste diagonal tan cerca de las cuerdas superiores e inferiores como sea posible y a cada cuerda que lo cruza. Repita cada 20 pies (6.1 m) o menos.

EXAMPLES OF DIAGONAL BRACING WITH CONTINUOUS LATERAL RESTRAINT



Lateral restraint & diagonal bracing can also be used with small groups of trusses (i.e., three or less). Attach the lateral restraint and diagonal brace to each web member.

Restricción lateral y arrioste diagonal también puede ser usado con grupos pequeños de trusses (ej. tres o menos). Sujete la restricción lateral y el arrioste diagonal a cada miembro.

ALWAYS DIAGONALLY BRACE THE CONTINUOUS LATERAL RESTRAINT!

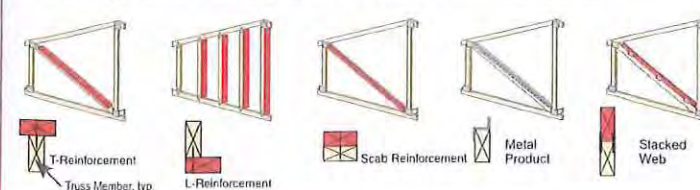
¡SIEMPRE ARRIOSTRE LA RESTRICCIÓN LATERAL CONTINUA DIAGONALMENTE!

Individual Web Member Reinforcement

Refuerzo de miembros secundarios individuales

T-, L-, Scab, I-, U-Reinforcement, proprietary metal reinforcement and stacked web products provide an alternative for resisting web buckling.

T-, L-, cosira, I-, U-Refuerzo, refuerzo de metal patentado y productos de miembros secundarios amontonados proveen una alternativa para resistir el torcer de los miembros secundarios.



The following table may be used unless more specific information is provided.

La siguiente tabla puede ser usada a menos que información más específica está provista.

WEB REINFORCEMENT FOR SINGLE PLY TRUSSES¹								
Specified CLR	Size of Truss Web	Type & Size of Web Reinforcement				Grade of Web Reinforcement¹	Minimum Length of Web Reinforcement	Minimum Connection of Web Reinforcement to Web
		T	L	Scab²	I or U			
1 Row	2x4	2x4	2x4	2x4		Same species and grade or better than web member	90% of Web or extend to within 6" of end of web member, whichever is greater	16d (0.131x3.5") nails @ 6" on-center³
	2x6	2x6	2x6	2x6				
	2x8	2x8	2x8	2x8				
2 Rows	2x4	---	---	---	2-2x4			
	2x6	---	---	---	2-2x6			
	2x8	---	---	---	2-2x8			

¹Maximum allowable web length is 14'.

²For Scab Reinforcement use 2 rows of 10d (0.128x3") nails at 6" on-center to attach reinforcement to web.

Some truss manufacturers provide additional assistance by using tags to mark the web members that require lateral restraint or reinforcement.

Algunos fabricantes de trusses marcan en el truss las ubicaciones de refuerzo o restricción lateral de miembros secundarios con etiquetas similares a las que sigue.

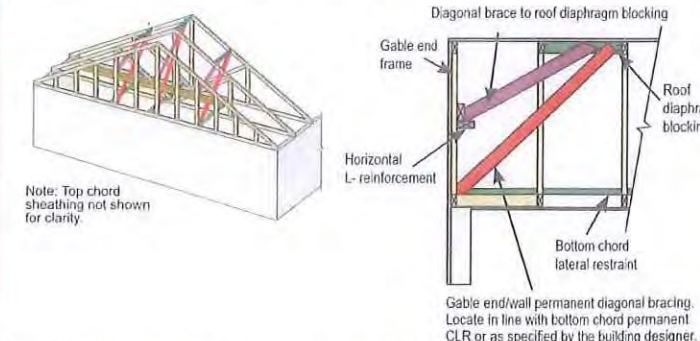


Web Member Plane Permanent Building Stability Bracing to Transfer Wind & Seismic Forces

Arrioste de estabilidad permanente del edificio del plano de miembros secundarios para desplazar fuerzas de viento y fuerzas sísmicas

The web member restraint or reinforcement specified on a TDD is required to resist buckling due to axial forces caused by the in-plane loads applied to the truss. Additional restraint and bracing within the web member plane may also be required to transfer lateral forces due to wind and/or seismic loads applied perpendicular to the plane of the trusses. This restraint and bracing is typically specified by the building designer.

La restricción o refuerzo de miembros secundarios especificada en un TDD es requerido para resistir la deformación bajo fuerzas axiales causadas por cargas verticales aplicadas al truss. Restricción adicional y el aparato ortopédico dentro del plano miembro de banda también puede ser necesaria para transferir fuerzas laterales debidas al viento y/o cargas sísmicas aplicadas perpendicular al plano de las cerchas. Esta restricción y arrioste es típicamente provisto por el diseñador del edificio.



Some truss designers provide general design tables and details to assist the building designer in determining the bracing required to transfer lateral loads due to wind and/or seismic forces from the gable end frame into the roof and/or ceiling diaphragm.

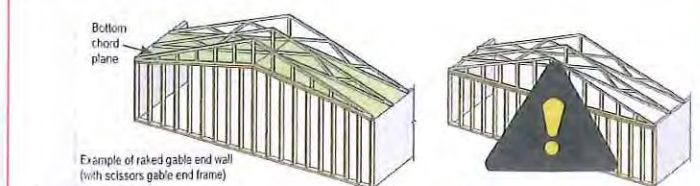
Algunos diseñadores de trusses proveen tablas y detalles de diseño generales para asistir el diseñador del edificio en determinar el arrioste requerido para pasar cargas laterales debidas a fuerzas de viento y/o fuerzas sísmicas del armazón hastial al diafragma del techo.

Gable End Frames and Trusses with Sloped Bottom Chords

Armarzones hastiales y trusses con cuerdas inferiores pendientes

The gable end frame should always match the profile of the adjacent trusses to ensure the top of the end wall aligns with, and can be braced by, the ceiling diaphragm.

El armazón hastial siempre debe encajar el perfil de los trusses contiguos para permitir la instalación de restricción y arrioste apropiada de la cuerda inferior a menos que arrioste especial es diseñado para soportar la pared de extremo.



CAUTION Using a flat bottom chord gable end frame with adjacent trusses that have sloped bottom chords is prohibited by some building codes as adequate bracing of this condition is difficult and sometimes impossible. Special end wall bracing design considerations are required by the building designer if the gable end frame profile does not match the adjacent trusses.

ADVERTENCIA El uso de un armazón hastial de la cuerda inferior con trusses contiguos cuales tienen cuerdas inferiores pendientes es prohibido por algunos códigos de edificios porque arrioste adecuado de esta condición es difícil y a veces imposible. Consideraciones especiales de diseño para el arrioste de la pared de extremo son requeridos por el diseñador del edificio si el perfil del armazón hastial no coincide con los trusses contiguos.

Permanent Bracing for Special Conditions

Arrioste permanente para condiciones especiales

Sway Bracing—Arrioste de "Sway"

"Sway" bracing is installed at the discretion of the building designer to help stabilize the truss system and minimize the lateral movement due to wind and seismic loads.

Arrioste de "sway" está instalado por la discreción del diseñador del edificio para ayudar en estabilizar el sistema de trusses y para minimizar el movimiento lateral debido a cargas de viento y cargas sísmicas.

Sway bracing installed continuously across the building also serves to distribute gravity loads between trusses of varying stiffness.

Arrioste de "sway" que es instalada continuamente a través del edificio también es usado para distribuir las cargas de gravedad entre trusses de rigidez variando.

Permanent Restraint/Bracing for the Top Chord in a Piggyback Assembly

Restricción/Arrioste permanente para la cuerda superior en un ensamble de piggyback

Provide restraint and bracing by:

- using rows of minimum 4x2 stress-graded lumber CLR and diagonal bracing, or
- connecting the CLR into the roof diaphragm, or
- adding structural sheathing or bracing frames, or
- some other equivalent means.

Provee restricción y arrioste por:

- creando filas de 4x2 CLR de madera graduada por esfuerzo y arrioste diagonal, o
- conectando el CLR al diafragma del techo, o
- añadiendo entablado estructural o armazones de arrioste, o
- algunos otros métodos equivalentes.

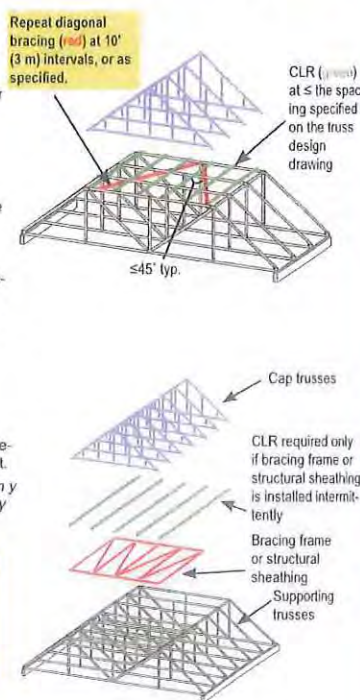
Refer to the TDD for the maximum assumed spacing between rows of lateral restraint (e.g. purlins) attached to the top chord of the supporting truss.

Consulte el TDD para el espaciamiento máximo supuesto para sujetar la restricción lateral (p.ej., vigas) a la cuerda superior del truss soportante.

The TDD provides the assumed thickness of the restraint and minimum connection requirements between the cap and the supporting truss or restraint. El TDD provee el grosor supuesto de la restricción y los requisitos de conexión mínimos entre la capa y el truss soportante o la restricción.

If diagonal bracing is used to restrain the CLR(s), repeat at 10' (3 m) intervals, or as specified in the construction documents.

Si arrioste diagonal se utiliza para restringir el/ los CLR(s), repita en intervalos de 10 pies o como sea especificado en los documentos de construcción.



SBCA

6300 Enterprise Lane • Madison, WI 53719
608-274-4849 • sbcinstitute.com

B3WEB11x17 181217

RESTRICCIÓN/ARRIOSTRE PERMANENTE DE LAS CUERDAS Y LOS MIEMBROS SECUNDARIOS
Tramos sobre 60 pies o más pueden requerir arrioste permanente complejo. Por favor, consulte siempre a un profesional registrado de diseño.

B4 Construction Loading

Cargas de construcción

Construction loads are those loads imposed on the unfinished building as a result of the construction process. Typical construction loads include the weight of the workers, equipment, and building materials, to name a few. For example, a bundle of plywood sheathing or gypsum board stacked on trusses temporarily creates construction loads.



Cargas de construcción son las cargas que están impuestas a los edificios incompletos como resultado del proceso de construcción. Cargas de construcción típicas incluyen el peso de los trabajadores, el equipo y los materiales de construcción, etcétera. Por ejemplo, un paquete de entablado contrachapado o tabla de yeso apilados temporalmente sobre los trusses crean cargas de construcción.

Make sure the truss assembly is properly restrained and braced according to the guidelines in **BCSI-B1**, **BCSI-B2** and **BCSI-B7**, as applicable, before placing any construction loads on them. Construction loads shall only be placed on fully restrained and braced structures.

WARNING Stacking excessive amounts of construction materials on floor or roof trusses is an unsafe practice. Property damage, personal injury and/or death are possible if this warning is not heeded.

NOTICE Trusses that have been over-stressed due to construction overloading will usually show excessive sagging (deflection) and at least a portion of this deflection will remain after the load has been removed. In more severe cases, broken truss members and/or failed truss joints may result.

Asegúrese que el montaje del truss está adecuadamente restringido y arriostrado según las pautas en **BCSI-B1**, **BCSI-B2** y **BCSI-B7** antes de colocar alguna carga de construcción en la estructura. Solamente coloquen cargas de construcción arriba de estructuras cuales son restringidos y arriostrados completamente.

¡ADVERTENCIA! Apilando cantidades excesivas de cargas de construcción sobre trusses de piso o techo es una práctica peligrosa. Daño a la propiedad, herida personal y/o muerte son posibles si no se atiende esta advertencia.

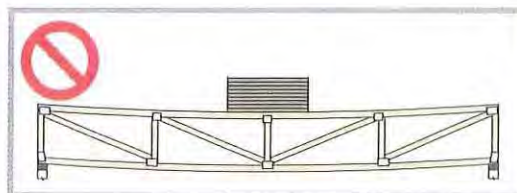
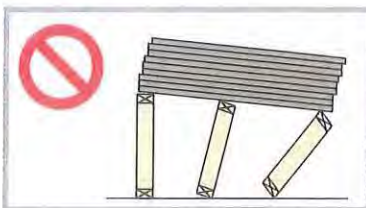
NOTICE Los trusses que han sido sobrecargados debido a cargas de construcción excesivas usualmente demuestran una desviación excesiva, y por lo menos una parte de esta desviación se quedará aún después de que se haya quitado la carga. En casos más severos, miembros quebrados del truss y/o juntas falladas pueden resultar.

Construction Loading DO's and DON'Ts

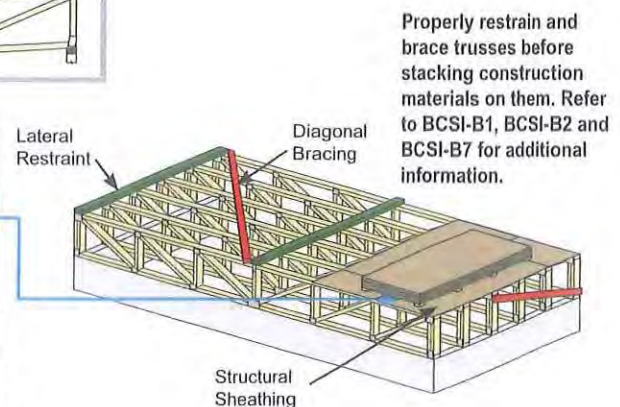
- DON'T** stack materials on unbraced trusses.
- DON'T** overload the trusses.
- DON'T** exceed stack heights listed in the table below.

Que HACER y NO HACER Con Las Cargas De Construcción

- NO** apile materiales sobre trusses que no esten arriostrados.
- NO** sobrecargue los trusses.
- NO** exceda la altura de montón indicada en la tabla que sigue.



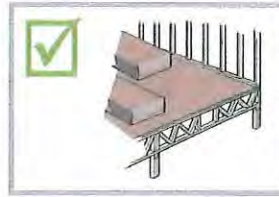
Maximum Stack Height for Material on Trusses ^{1,2} Maximua Altura de Montón para Material encima de los Trusses	
Material – Material	Height – Altura
Gypsum Board – Tabla de Yeso	12" – 12 pulgadas
Plywood or OSB – Madera Contrachapada u OSB	16" – 16 pulgadas
Asphalt Shingles – Teja de Asfalto	2 bundles – 2 paquetes
Concrete Block – Bloque de Hormingón	8" – 8 pulgadas
Clay Tile – Teja de Arcilla	3-4 tiles – 3-4 azulejos



¹ This table is based on trusses designed with a live load of 40 psf or greater. For other loading conditions, contact a Registered Design Professional.

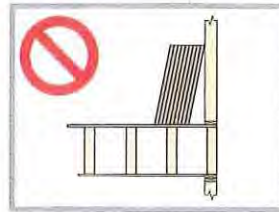
² Limit stacking periods to approximately one week, unless alternative information is provided by the Building Designer, Truss Designer or Truss Manufacturer.

DO distribute loads over as many trusses as possible. Position stacks of materials flat with the longest dimension perpendicular to the trusses, as shown.



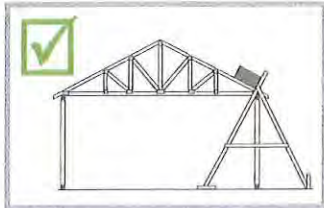
Si distribuye cargas sobre el mayor número de trusses que sea posible. Posicione perpendicular a los trusses los montones de materiales llanos con la dimensión más larga como se indica el dibujo.

DON'T allow the stack to lean against walls, or stack materials so they overload single or small groups of trusses.



NO permite que el montón se incline contra ninguna pared, ni apile materiales para que sobrecarguen uno u grupos pequeños de trusses.

Si amontone materiales al lado de los soportes exteriores o directamente sobre los soportes interiores de estructuras que están restringidas y arriostradas apropiadamente.



DO stack materials along exterior supports or directly over interior supports of properly restrained and braced structures.

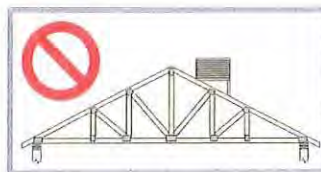
NO amonte los materiales en o cerca de la mitad del braguero. Nunca sobrepase alturas de montón indicadas en la tabla (véase la página 1) a menos que se proporcione información alternativa por el Diseñador del Edificio, el Diseñador del Braguero, o el Fabricante del Braguero.

NO deje caer cargas arriba de los trusses. El impacto puede dañar los trusses aunque si sea pequeña la carga.

Si deje materiales de construcción encima del equipo de levantar hasta el momento de la instalación, si es posible.

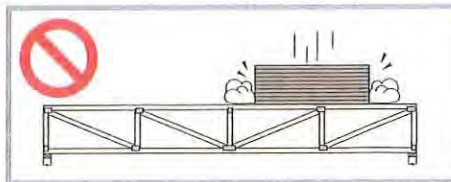
NO amontone materiales en un lugar que puede producir inestabilidad como en voladiza, salientes o cerca de las conexiones de trusses-a-travesaño.

DON'T stack materials at or near the midspan of the truss. **Never** exceed stack heights provided in the table (see page 1) unless alternative information is provided by the Building Designer, Truss Designer or Truss Manufacturer.



NO apile teja de sobra y/o otros residuos de construcción sobre los trusses.

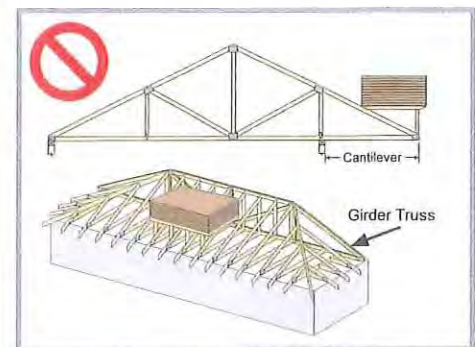
DON'T drop materials on trusses. The impact can damage the trusses even if the weight of the material is light.



DO leave construction materials on lifting equipment until installation, if possible.



DON'T pile cut-off tile and/or other construction waste on trusses.



DON'T stack materials at locations that will produce instability, such as on cantilevers, overhangs or near truss-to-girder connections.

*Contact the component manufacturer to obtain the referenced document or consult a Registered Design Professional for more information on this subject.

This document summarizes the information provided in Section B4 of the 2018 Edition of Building Component Safety Information BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses. Copyright © 2004-2019 Structural Building Components Association. All Rights Reserved. This guide or any part thereof may not be reproduced in any form without the written permission of the publisher. Printed in the United States of America.



6300 Enterprise Lane • Madison, WI 53719
608-274-4849 • sbcindustry.com

B11 Fall Protection & Trusses

Protección de Caída y Trusses

Regulations on fall protection and erection/installation of trusses in residential construction are contained in OSHA's Fall Protection Standard, 29 CFR 1926 Subpart M (the Standard). Section 1926.501(b)(13) of the Standard states in part: "Each employee engaged in residential construction activities 6 feet or more above lower levels shall be protected by guardrail systems, scaffolding, a safety net system or a personal fall arrest system."

Las regulaciones sobre protección contra caídas y levantamiento/installación de entramados en construcción residencial se encuentran en la Regulación de Protección contra Caídas de OSHA, 29 CFR 1926 Subparte M (el Estándar). La sección 1926.501(b)(13) de la regulación establece en parte: "Cada empleado que participe en actividades de construcción residencial a 6 pies o más por encima de niveles inferiores deberán estar protegidos por sistemas de rampas de protección, andamiaje, un sistema de red de seguridad o un sistema de protección personal para detención de caídas."

Group of Trusses

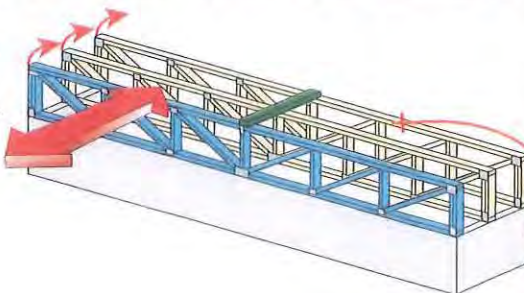
⚠ DANGER Any part of an inadequately braced or sheathed group of roof or floor trusses used as an anchorage point for any type of personal fall arrest system is dangerous and will increase the risk of serious injury or death.

⚠ WARNING Roof and floor trusses that are not properly braced per BCSI or sheathed are not able to resist lateral impact loads associated with falls. A falling worker attached to an inadequately braced group of trusses could cause all the previously set trusses to collapse in a domino effect.

Refer to **BCSI-B1*** and **BCSI-B2*** for recommendations on proper bracing of trusses.



Refer to **BCSI-B1*** for recommendations on proper hoisting of trusses.



Sistemas de Entramama

¡PELIGRO! Cualquier pieza de un sistema de entramado de techo o el piso apuntalado o forrado de forma inadecuada que se utilice como punto de anclaje para cualquier tipo de sistema de protección personal para detención de caídas es peligroso y aumentará el riesgo de lesiones personales de gravedad o la muerte.

¡ADVERTENCIA! Los entramados de techo y piso que no están correctamente apuntalados según BCSI o forrados no pueden resistir cargas de impacto lateral asociadas con caídas. Un trabajador que sufra una caída y que esté acoplado a un conjunto de entramados que no estén apuntalados adecuadamente podría provocar que los entramados fijados previamente se colapsen con un efecto dominó.

Refiera el resumen **BCSI-B1** y **BCSI-B2*** para las recomendaciones sobre la arrioste de trusses.

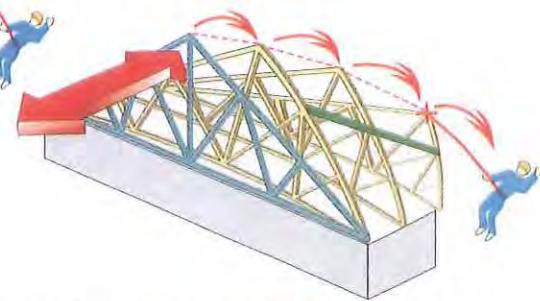
Consulte **BCSI-B1*** sobre recomendaciones para el levantamiento correcto de los entramados.

¡PELIGRO! No camine sobre entramados no apuntalados.

¡PELIGRO! No se pare en voladizos del braguero hasta que el revestimiento estructural se ha aplicado a la armadura y voladizos.

⚠ DANGER Do not walk on unbraced trusses.

⚠ DANGER Do not stand on truss overhangs until structural sheathing has been applied to the truss and overhangs.



⚠ DANGER Do not walk on trusses or gable end framing flat, they do not have the structural strength to support a worker safely while oriented flat.



Site-Specific Job Hazard Assessment

Fall protection and safety measures are jobsite and building specific. The appropriate fall protection must be determined through a site-specific job hazard assessment (JHA) conducted by a qualified person who can design, install, and use fall protection systems and is authorized to correct any problems. The JHA is intended to assist in identifying risks and identify the hazardous way to install trusses for a particular job.

Fall hazards identified in the JHA shall be addressed with conventional methods whenever possible, including guardrails, scaffolding, safety nets, personal fall arrest systems or catch platforms.

Employers must consider whether it is safer to design and install a safe work platform/system around a truss.

⚠ WARNING All fall protection solutions come with their own inherent hazards during use.

⚠ CAUTION Addressing fall protection hazards may be obvious, but other hazards must also be considered when choosing the appropriate site-specific fall protection systems. This includes:

1. electrical hazards, including power lines;
2. projectile hazards while using pneumatic nail guns;
3. tripping hazards from cords and bracing materials, and,
4. lower level hazards, such as wall bracing, which fall protection systems do not protect against.

Instalación de Equipo de Protección Contra Caídas

¡PELIGRO! Los entramados individuales por sí solos NO están diseñados para SOPORTAR equipo de protección contra caídas.

El contratista será responsable de los medios de construcción, los métodos, las técnicas, las secuencias, los procedimientos, los programas y la seguridad en lo que se refiere a recepción, almacenamiento, manejo, instalación, restricción y apuntalamiento de entramados.

Consulte ANSI/ASSE Z359.2-2007, Minimum Requirements for a Comprehensive Managed Fall Protection Program (Requisitos mínimos para un programa completo de protección contra caídas) si desea información para el cumplimiento de los requisitos mínimos para la instalación y uso de equipo de protección contra caídas. Esta norma se refiere a equipo solamente, y no es aplicable a la estructura subyacente a la que esté acoplado el equipo. (2)

¡CAUCIÓN! Aunque el equipo por sí mismo puede resistir las fuerzas generadas por la caída de un trabajador, es responsabilidad de una persona calificada determinar si el sistema estructural del edificio al que se acopla el equipo de protección contra caídas cumple o supera esta regulación también.

Andamiaje

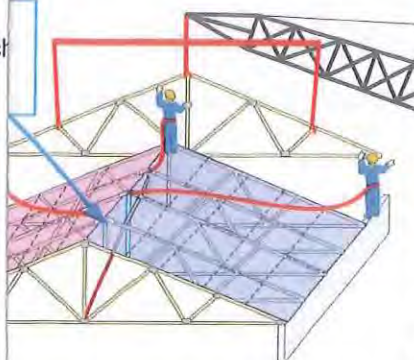
Está permitido el uso de andamiaje interior o exterior como sistema para detención de caídas, pero la instalación y el uso deberá adherirse a los requisitos regulatorios descritos en 29 CFR 1926.500.

Rampas de Protección

Se permite el uso de rampas de protección a lo largo del perímetro del área de trabajo como sistema para detención de caídas, pero la instalación y el uso deberán adherirse a los requisitos de la regulación que se encuentran en 29 CFR 1926.500.

Anclajes de Tejado

¡ADVERTENCIA! Apuntale completamente, según BCSI-B1* y BCSI-B2* o forre los entramados, antes de instalar un anclaje de tejado para su uso como sistema personal de restricción de caídas. La instalación y el uso deberá adherirse a los requisitos regulatorios que se indican en 29 CFR 1926.500.



¡ADVERTENCIA!

Siempre es más seguro forrar una sección (por ejemplo, 3 o más entramados) del sistema de tejado antes de instalar un anclaje de tejado para uso como sistema personal de restricción de caídas. La instalación y el uso deberá adherirse a los requisitos regulatorios que se indican en 29 CFR 1926.500.

Alternative Fall Protection Plans

After conducting a JHA, if the qualified person is able to demonstrate that conventional fall protection measures are infeasible (3) or present a greater hazard (4) to a particular worker or the entire crew, an employer may implement a written alternative fall protection plan in compliance with residential construction fall protection under 29 CFR 1926.501(b)(13).

The fall protection plan's alternative measures must apply to sufficiently trained and experienced workers (5), and the plan must meet the requirements of 29 CFR 1926.502(k) and be site-specific. The use of alternative measures shall be used in conjunction with conventional fall protection systems (6), and the use of alternative methods shall be as limited as possible.

Ground Assembly

Pre-assemble a group of trusses on the ground. Fully laterally restrain and diagonally brace, per **BCSI-B1*** and **BCSI-B2***, the bottom chord and web member planes. Completely brace, per **BCSI-B1*** and **BCSI-B2***, or sheath the top chord plane, for adequate stability. Lift and set in place. This pre-assembled section may then be used as an attachment point for personal fall restraint anchorage.



Definitions

(1) Under 29 CFR 1926.503(a)(2), a qualified person is one who should have knowledge, and be able to provide training to others, in the following areas: "the nature of fall hazards in the work area; the correct procedures for erecting, maintaining, disassembling, and inspecting the fall protection systems to be used; the use and operation of guardrail systems, personal fall arrest systems, safety net systems, warning line systems, safety monitoring systems, controlled access zones, and other protection to be used; the role of each employee in the safety monitoring system when this system is used; the limitations on the use of mechanical equipment during the performance of roofing work on low-sloped roofs; the correct procedures for the handling and storage of equipment and materials and the erection of overhead protection; and, the role of employees in fall protection plans."

(2) Commentary E5.4.2.2 of ANSI/ASSE Z359.2-2007 states, "The impact of fall forces on beams, columns and their supports other than anchorages are not addressed by this standard."

(3) Under 29 CFR 1926.500(b), infeasible means "that it is impossible to perform the construction work using a conventional fall protection system (i.e., guardrail system, safety net system, or personal fall arrest system) or that it is technologically impossible to use any one of these systems to provide fall protection."

(4) 29 CFR 1926.501(b)(2)(i) states, "there is a presumption that it is feasible and will not create a greater hazard to implement at least one of the [listed] fall protection systems. Accordingly, the employer has the burden of establishing that it is appropriate to implement a fall protection plan which complies with 1926.502(k) for a particular workplace situation, in lieu of implementing any of those systems."

(5) 29 CFR 1926.503(a)(1) states, "the employer program shall enable each employee to recognize the hazards of falling and shall train each employee in the procedures to be followed in order to minimize these hazards."

(6) Under 29 CFR 1926.500(b), conventional fall protection systems are: "guardrail system, safety net system, or personal fall arrest system."

Alternativos de Protección Contra Caídas

Después de realizar una evaluación JHA, si la persona calificada es capaz de demostrar que las medidas convencionales de protección contra caídas son irrealizables (3) o presentan un mayor peligro (4) para un trabajador en particular o la cuadrilla entera, un empleador puede implementar un plan de protección contra caídas alternativo por escrito en cumplimiento con 29 CFR 1926.501(b)(13) para protección contra caídas en construcción residencial.

Las medidas alternativas del plan de protección contra caídas deberán aplicarse a trabajadores suficientemente capacitados y experimentados (5), y el plan deberá cumplir los requisitos de 29 CFR 1926.502(k) y ser específicas para cada sitio. El uso de medidas alternativas se utilizará en conjunción con sistemas de protección contra caídas (6), y el uso de métodos alternativos será lo más limitado posible.

Montaje en el terreno

Realice el montaje previo de un sistema de entramado en el terreno. Restrinja lateralmente por completo y apunte diagonalmente la cuerda inferior y los planos de la pieza de enrejado según **BCSI-B1*** y **BCSI-B2***. Apunte completamente, según **BCSI-B1*** y **BCSI-B2***, o forre el plano de la cuerda superior, para conseguir la estabilidad adecuada. Alce y establezca en su lugar. Esta sección previamente montada puede utilizarse entonces como un punto de acoplamiento para anclaje de restricción personal contra caídas.

Definiciones

(1) Bajo 29 CFR 1926.503(a)(2), una persona calificada es aquella que debe tener conocimientos y aptitud para proporcionar capacitación a otros, en las áreas siguientes: "la naturaleza de los peligros de caída en el área de trabajo; los procedimientos correctos para levantar, mantener, desmontar e inspeccionar los sistemas de protección contra caídas a utilizarse; el uso y la operación de sistemas de rampas de protección, sistemas personales para detención de caídas, sistemas de redes de seguridad, sistemas de líneas de advertencias, sistemas de monitoreo de seguridad, zonas de acceso controlado y otra protección a utilizarse; la función de cada empleado en el sistema de monitoreo de seguridad cuando se utilice este sistema; las limitaciones sobre el uso de equipos mecánicos durante la realización de trabajo en tejados de baja pendiente; los procedimientos correctos para el manejo y almacenamiento de equipo y materiales, y la construcción de protección superior; y la función de los empleados en planes de protección contra caídas".

(2) El comentario E5.4.2.2 de ANSI/ASSE Z359.2-2007 establece, "El impacto de las fuerzas de caída sobre vigas, columnas y sus soportes que no sean anclajes no se tratan en esta norma".

(3) Según 29 CFR 1926.500(b), irrealizable significa "que es imposible llevar a cabo el trabajo de construcción usando un sistema convencional de protección contra caídas (por ejemplo, sistemas de rampas de protección, sistema de red de seguridad o sistema de protección personal para detención de caídas), o que es tecnológicamente imposible usar cualquiera de estos sistemas para proporcionar protección contra caídas".

(4) 29 CFR 1926.501(b)(2)(i) establece que, "hay una suposición de que es realizable y que no se creará un peligro mayor al implementar al menos uno de los sistemas de protección contra caídas [indicados]. Por consiguiente, el empleador tiene la responsabilidad de establecer que es apropiado implementar un plan de protección contra caídas que se adhiera a 1926.502(k) para una situación particular en el lugar de trabajo, en lugar de implementar cualquiera de esos sistemas".

(5) 29 CFR 1926.503(a)(1) establece que "el programa del empleador permitirá a cada empleado poder reconocer los peligros de caídas y capacitará a cada empleado en los procedimientos a seguir para minimizar estos peligros".

(6) Según 29 CFR 1926.500(b), los sistemas convencionales de protección contra caídas son: "sistema de rampas de protección, sistema de red de seguridad o sistema de protección personal para detención de caídas".

Contact the component manufacturer for more information or consult a Professional Engineer for assistance.



6300 Enterprise Lane • Madison, WI 53719 • 608-274-4849 • sbcindustry.com

This document summarizes the information provided in Section B11 of the 2018 Edition of Building Component Safety Information BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses. Copyright © 2004-2019 Structural Building Components Association. All Rights Reserved. This guide or any part thereof may not be reproduced in any form without the written permission of the publishers. Printed in the United States of America.

STANDARD ROOF TRUSS DETAILS AND TYPICAL REPAIR DETAILS



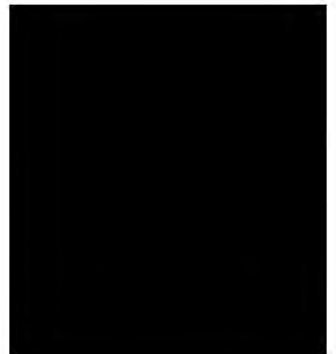
Table of Contents

1. STANDARD ROOF TRUSS DETAILS	4
1.1 Reading an Engineering Drawing 1	5
1.2 Reading an Engineering Drawing 2	6
1.3 Standard Gable End Detail	7
1.4 Standard Gable End Detail	8
1.5 Non-Structural Gable Stud Attachment	9
1.6 California Hip Framing Detail	10
1.7 Hip Ear Nailing Detail	11
1.8 Hip Flat Top Bracing Detail	12
1.9 Open Jack and Corner Hip Rafter Detail	13
1.10 Standard Piggyback Truss Connection Detail	14
1.11 Standard Piggyback Truss Connection Detail ALT	15
1.12 Standard Piggyback Truss Connection Detail (Perpendicular)	16
1.13 Conventional Valley Framing Detail	17
1.14 Trussed Valley Set Detail (Beveled Bottom Chord)	18
1.15 Trussed Valley Set Detail	19
1.16 Support of BC of Standard Open-End Jack Using Pressure Blocks	20
1.17 Standard Cap Truss Connection Detail	21
1.18 Lateral Toe-Nail Detail	22
1.19 Lateral Toe-Nail Detail_SP	23
1.20 Uplift Toe-Nail Detail	24
1.21 Web Bracing Recommendations	25
1.22 L-Brace Detail	26
1.23 T-Brace/I-Brace Detail with 2x Brace Only	27
1.24 T-Brace/I-Brace Detail	28
1.25 T-Brace/I-Brace Detail	29

Table of Contents

2. TYPICAL ROOF TRUSS REPAIR DETAILS	30
2.1 Repair Detail For Broken Chords, Webs, and Damaged or Missing Chord Splice Plates	31
2.2 Repair for Adding a False Bottom Chord	32
2.3 Repair to Replace Broken Overhang	33
2.4 Repair Detail for Overhang Removal	34
2.5 Interior Bearing Offset Detail	35
2.6 Repair Detail for Broken/Missing Studs and Studs Added for Backing.....	36

Standard Roof Truss Details



7.500 s Nov 26 2013 MiTek Industries, Inc. Mon Apr 07 08:50:23 2014 Page 1

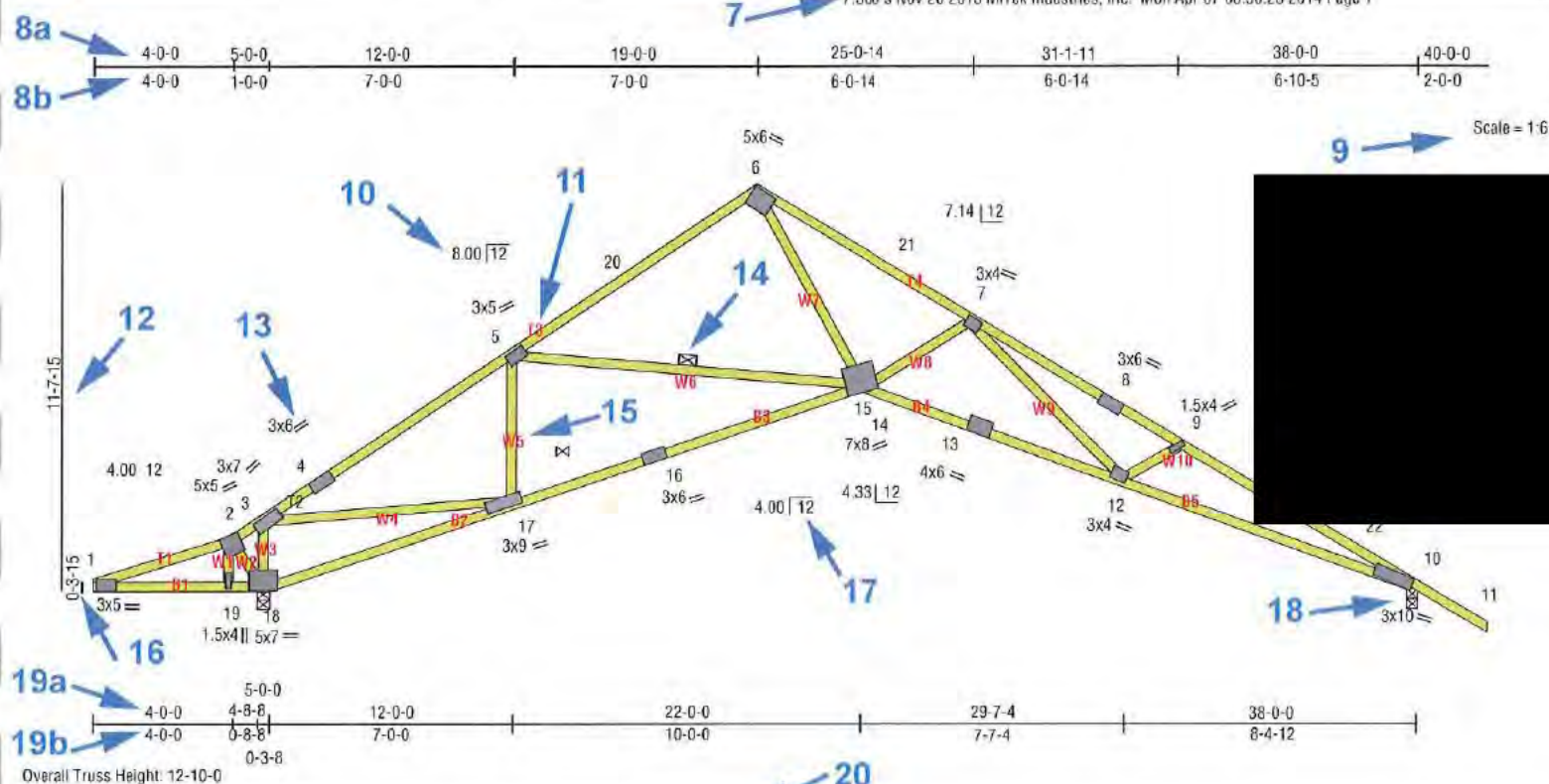


Plate Offsets (X, Y): [6:0-3-7,0-2-8], [10:0-1-2,0-0-5], [13:0-3-0,0-0-0], [17:0-2-12,0-1-3], [18:0-5-4,0-2-3]

LOADING (psf)		22	SPACING	2'-0"-0"	CSI		DEFL	In	(loc)	I/(defl)	L/d	PLATES	GRIP	
TCLL	20.0	21	Plates Increase	1.15	TC	0.84	Vert(L)	-0.40	12-14	>996	240	M120	244/190	28
TCDL	10.0		Lumber Increase	1.15	BC	1.00	Vert(TL)	-1.16	15-17	>341	180			
BCLL	0.0		Rep Stress Incr	YES	WB	0.85	Horz(TL)	0.74	10	n/a	n/a			
BCDL	10.0		Code IBC2006/TPI2002		(Matrix)									
Weight: 193 lb FT = 20%														

LUMBER	
TOP CHORD	2x4 SP No.2 *Except* T5: 2x4 SP No.1
BOT CHORD	2x4 SP No.2 *Except* B5: 2x4 SP No.1
WEBS	2x4 SP No.3 *Except* W7: 2x4 SP No.2

BRACING	
TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins
BOT CHORD	Rigid ceiling directly applied or 1-4-12 oc bracing
WEBS	1 row at midpoint 5-15

MiTeck recommends that Stabilizers and required cross bracing be installed during truss erection in accordance with Stabilizer Installation guide.

REACTIONS (lbs/size) 18=1740/0-3-8 (min. 0-2-1), 10=1417/0-3-8 (min. 0-1-8)
Max Horiz 18=196(LC 7)
Max Uplift 18=63(LC 9), 10=30(LC 9)

FORCES (lb) -	Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=196/456, 2-3=245/545, 3-4=2012/0, 4-5=1896/0, 5-20=1899/0, 6-20=1770/0, 6-21=3060/0, 7-8=4287/0, 8-9=4379/0, 9-22=4595/0, 10-22=4699/0
BOT CHORD	1-19=394/201, 18-19=402/211, 17-18=511/288, 16-17=511/288, 16-17=0/1658, 15-16=0/1693, 14-15=0/2999, 13-14=0/336, 12-13=0/3318, 10-12=0/4180
WEBS	3-18=1603/163, 3-17=23/2049, 5-17=372/127, 6-15=0/2474, 7-14=624/141, 7-12=26/842, 9-12=271/129

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05, 90mph; TCDL=6.0psf, BCDL=6.0psf; h=25ft; B=45ft; L=38ft, eave=5ft; Cal II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-0-0 to 4-0-0, Interior (1) 4-0-0 to 19-0-0, Exterior(2) 19-0-0 to 22-9-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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 20.0 psf 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) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 18 and 30 lb uplift at joint 10.
- 7) This truss is designed to accordance with the 2006 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 8) "Semi-rigid pitchbreaks including heels" Member and fixity model was used in the analysis and design of this truss

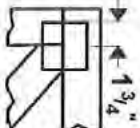
LOAD CASE(S) Standard 35

Reading a MiTek Engineering

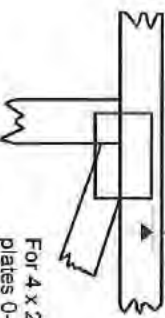
- 1 Job name
- 2 Truss label
- 3 Truss type
- 4 Truss quantity
- 5 Number of plies
- 6 Job description
- 7 Software version
- 8a **Cumulated dimensions of top chord** – panel lengths are added together along the top chord of truss (feet-inches-sixteenths)
- 8b **Panel lengths of the top chord** – each section represents the horizontal distance between the centerline of two consecutive panel points along the top chord (feet-inches-sixteenths)
- 9 **Drawing scale of the truss**
- 10 **Top chord slope** – inches of vertical rise for each 12 inches of horizontal run
- 11 **Top chord member label (if shown)** – identification label used to distinguish pieces
- 12 **Truss height** – the height of the truss from the top of the bearing to the top of the top chord (trusses with multiple levels of top chord will have multiple truss height dimensions) (feet-inches-sixteenths)
- 13 **Plate size, orientation and type** – plate size in inches. The two lines denotes the direction of the plate
- 14 **Continuous lateral bracing location**
- 15 **Web member label (if shown)**
- 16 **Heel height** – the height from the top of bearing to the top of the top chord at the outside edge of the bearing (feet-inches-sixteenths)
- 17 **Bottom chord slope** – inches of vertical rise for each 12 inches of horizontal run
- 18 **Bearing** – a structural support, usually a wall or beam that is designated to carry the truss reaction loads to the foundation
- 19a **Cumulated dimensions of bottom chord** – panel lengths are added together along the bottom chord of truss (feet-inches-sixteenths)
- 19b **Panel lengths of the bottom chord** – each section represents the horizontal distance between the centerline of two consecutive panel points along the bottom chord (feet-inches-sixteenths)
- 20 **Plate offsets (X, Y)** – this section lists any horizontal and/or vertical plate offsets (in inches) and the location they occur
- 21 **Design loading** (PSF–pounds per square foot)
- 22 **Spacing on center** – feet-inches-sixteenths
- 23 **Design code / Design standard**
- 24 **Duration of Load** for plate and lumber design and **Repetitive Use Factor**
- 25 **CSI** – maximum Combined Stress Index for top chords, bottom chords and webs
- 26 **Deflection**- maximum deflection expected in a member (inches), **Location** of maximum deflection, maximum **Span to deflection ratio** expected in a member
- 27 **Span to deflection ratios** – input allowables
- 28 **MiTek plate allowables (PSI) / estimated truss weight / fabrication tolerance**
- 29 **Lumber requirements**
- 30 **Required bracing** for all members
- 31 **Reaction** (pounds), **Bearing size** - input and minimum required (if shown)
- 32 **Maximum Uplift** and/or **Maximum Horizontal Reaction** if applicable and **Maximum Gravity** if shown
- 33 **Maximum member forces** - Tension (+), Compression (-)
- 34 **Notes**
- 35 **Additional loads / load cases**

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

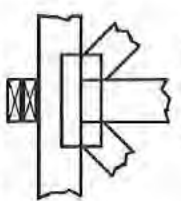
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



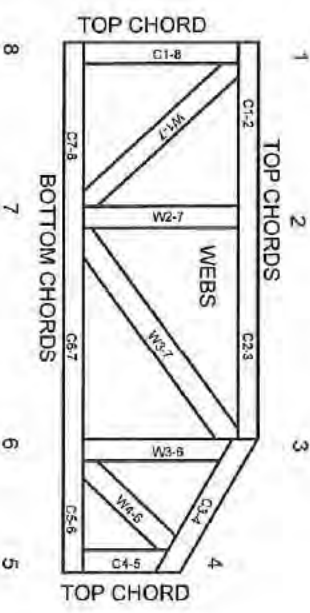
Indicates location where bearing (supports) occur. Icons vary by reaction section indicates join number where bearings occur. Min size shown is for crushing.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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/TP1 section 6.3 These truss designs rely on lumber values established by others.

© 2012 MITek® All Rights Reserved



General Safety Notes

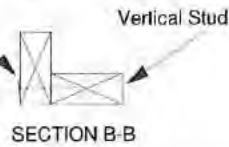
Failure to Follow Could Cause Property Damage or Personal Injury

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 l 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 lightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and warps at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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 purfins 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 otherwise noted.
18. Use of green or treated lumber environmental, health or perfor project engineer before use.
19. Review all portions of this design and pictures) before use. Revisions are not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.

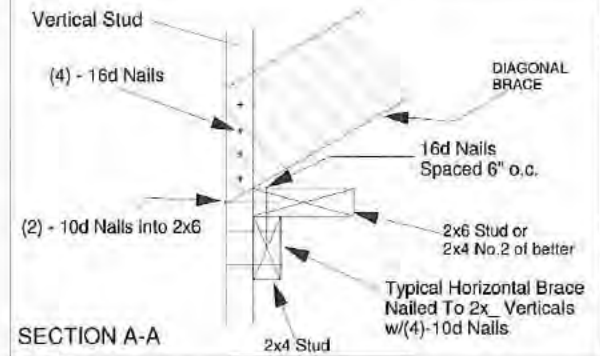
MITek USA, Inc.



Typical $\times 4$ L-Brace Nailed To
2x₆ Verticals w/10d Nails spaced 6" o.c.

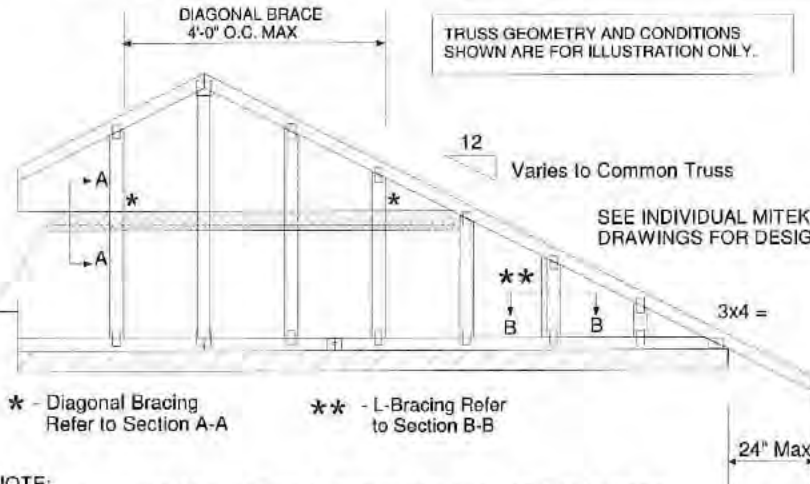


TRUSS GEOMETRY AND CONDITIONS
SHOWN ARE FOR ILLUSTRATION ONLY.

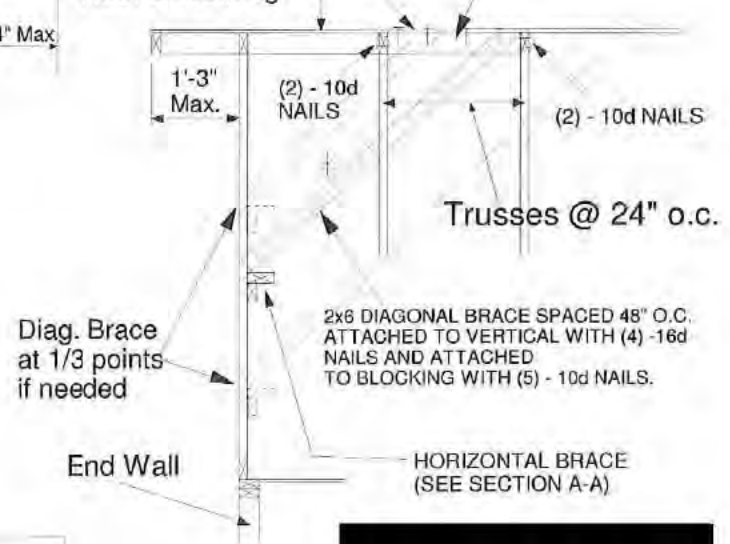


PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD DF/SPF BLOCK



Roof Sheathing



NOTE:

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4, (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS $L/240$.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
2x4 DF/SPF Std/Stud	12" O.C.	4-6-3	5-0-7	7-1-7	9-0-5	13-6-8
2x4 DF/SPF Std/Stud	16" O.C.	4-1-3	4-4-5	6-2-0	8-2-7	12-3-10
2x4 DF/SPF Std/Stud	24" O.C.	3-5-8	3-6-11	5-0-7	6-10-15	10-4-7

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-98, ASCE 7-02, ASCE 7-05 110 MPH
ASCE 7-10, ASCE 7-16 140 MPH
DURATION OF LOAD INCREASE : 1.60

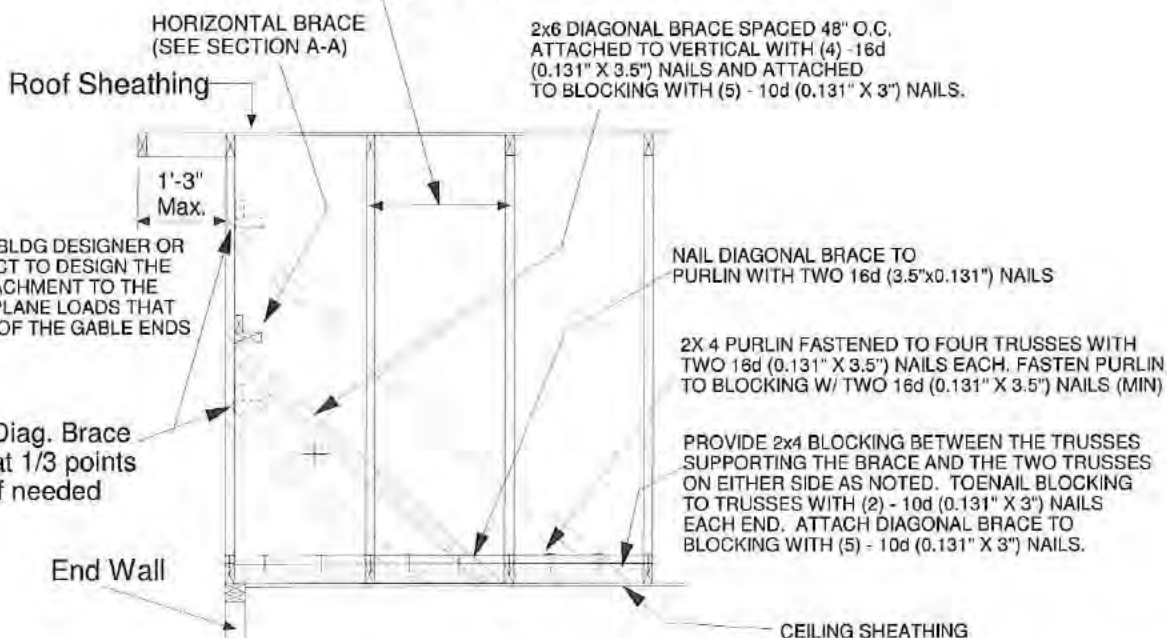
STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
CONNECTION OF BRACING IS BASED ON MWFRS.

MiTek USA, Inc.



ALTERNATE DIAGONAL BRACING TO THE BOTTOM CHORD

Trusses @ 24" o.c.



IT IS THE RESPONSIBILITY OF THE BLDG DESIGNER OR
THE PROJECT ENGINEER/ARCHITECT TO DESIGN THE
CEILING DIAPHRAGM AND ITS ATTACHMENT TO THE
TRUSSES TO RESIST ALL OUT OF PLANE LOADS THAT
MAY RESULT FROM THE BRACING OF THE GABLE ENDS

BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

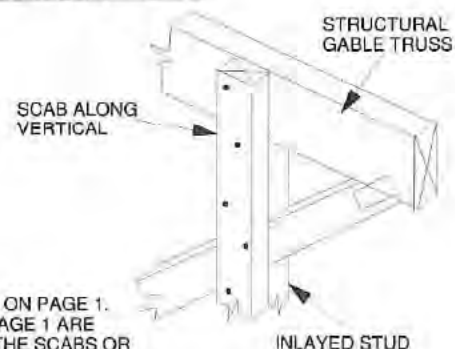
STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED:

METHOD 1 : ATTACH A MATCHING GABLE TRUSS TO THE INSIDE
FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE
FOLLOWING NAILING SCHEDULE.

METHOD 2 : ATTACH 2X SCABS TO THE FACE OF EACH VERTICAL
MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING
NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE
AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

- FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C.
- FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)



MAXIMUM STUD LENGTHS ARE LISTED ON PAGE 1.
ALL BRACING METHODS SHOWN ON PAGE 1 ARE
VALID AND ARE TO BE FASTENED TO THE SCABS OR
VERTICAL STUDS OF THE STANDARD GABLE TRUSS
ON THE INTERIOR SIDE OF THE STRUCTURE.

STRUCTURAL GABLE TRUSS

AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST
BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM
CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN
IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

NOTE : THIS DETAIL IS TO BE USED ONLY FOR
STRUCTURAL GABLES WITH INLAVED STUDS. TRUSSES WITHOUT INLAVED
STUDS ARE NOT ADDRESSED HERE.

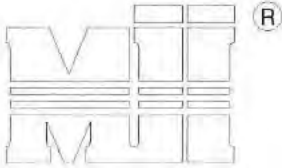
STANDARD GABLE TRUSS

AUGUST 1, 2016

NON-STRUCTURAL GABLE STUD ATTACHMENT

MII- STUD ATTACHMENT

MiTek USA, Inc.

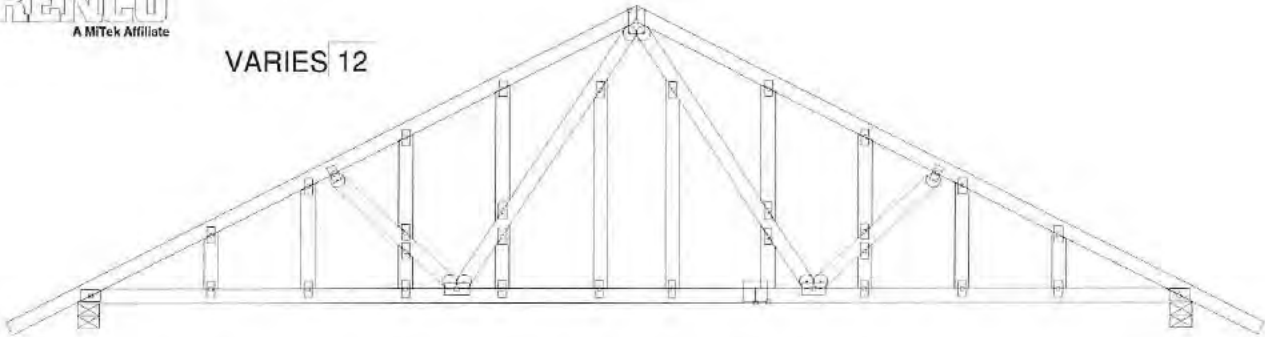


MiTek USA, Inc.

ENGINEERED BY
TRENCO
A MiTek Affiliate

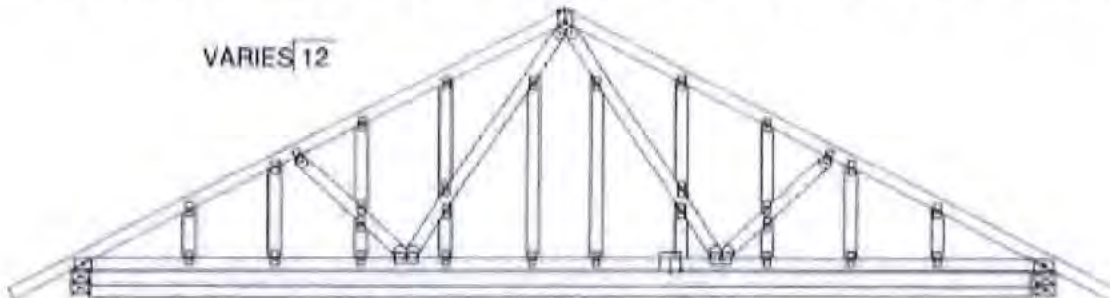
**REFER TO ENGINEERED TRUSS DRAWING
FOR EACH INDIVIDUAL TRUSS.**

VARIES 12



**NOTE: GABLE STUDS MAY BE ATTACHED WITH 1.5X4 OR 2X3
MITEK MT20 PLATES OR WITH (2) 10d (0.131" X 3") TOE-NAILS**

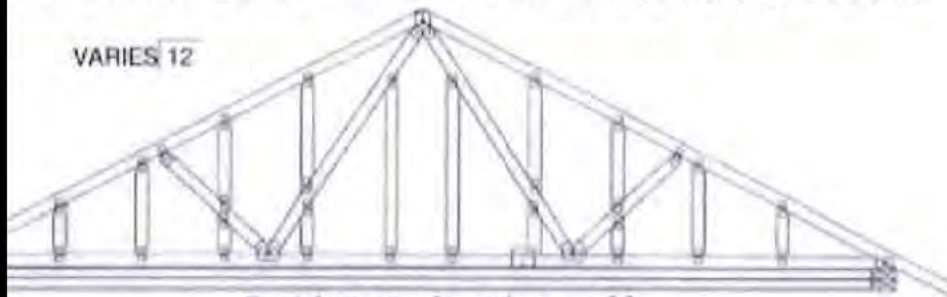
VARIES 12



continuous bearing wall

**NOTE: GABLE STUDS MAY BE ATTACHED WITH 1.5X4 OR 2X3
MITEK MT20 PLATES OR WITH (3) 16d (0.131" X 3-1/2") TOE-NAILS**

VARIES 12



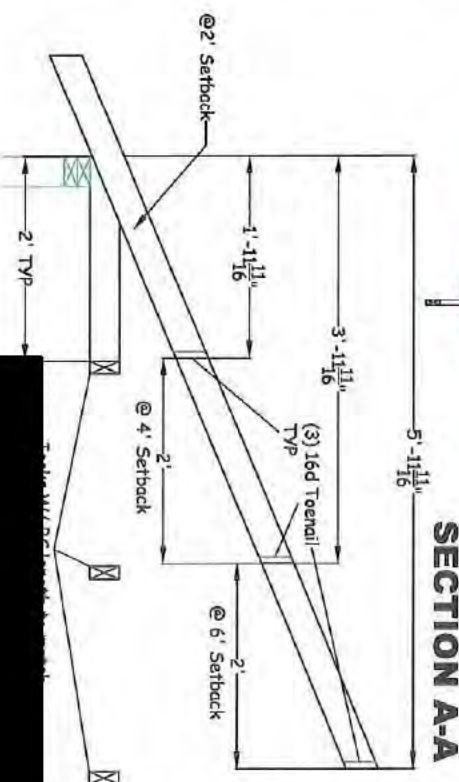
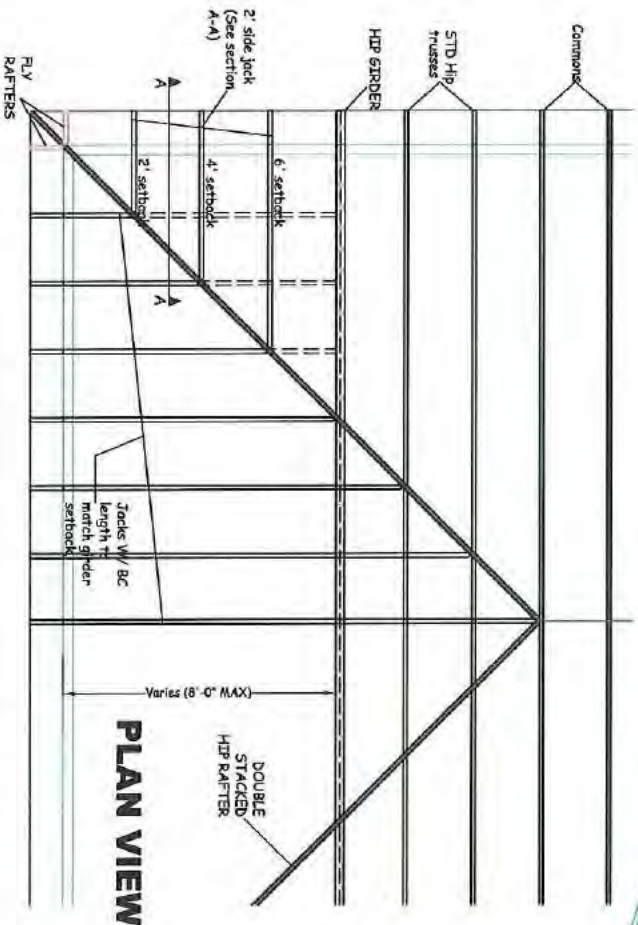
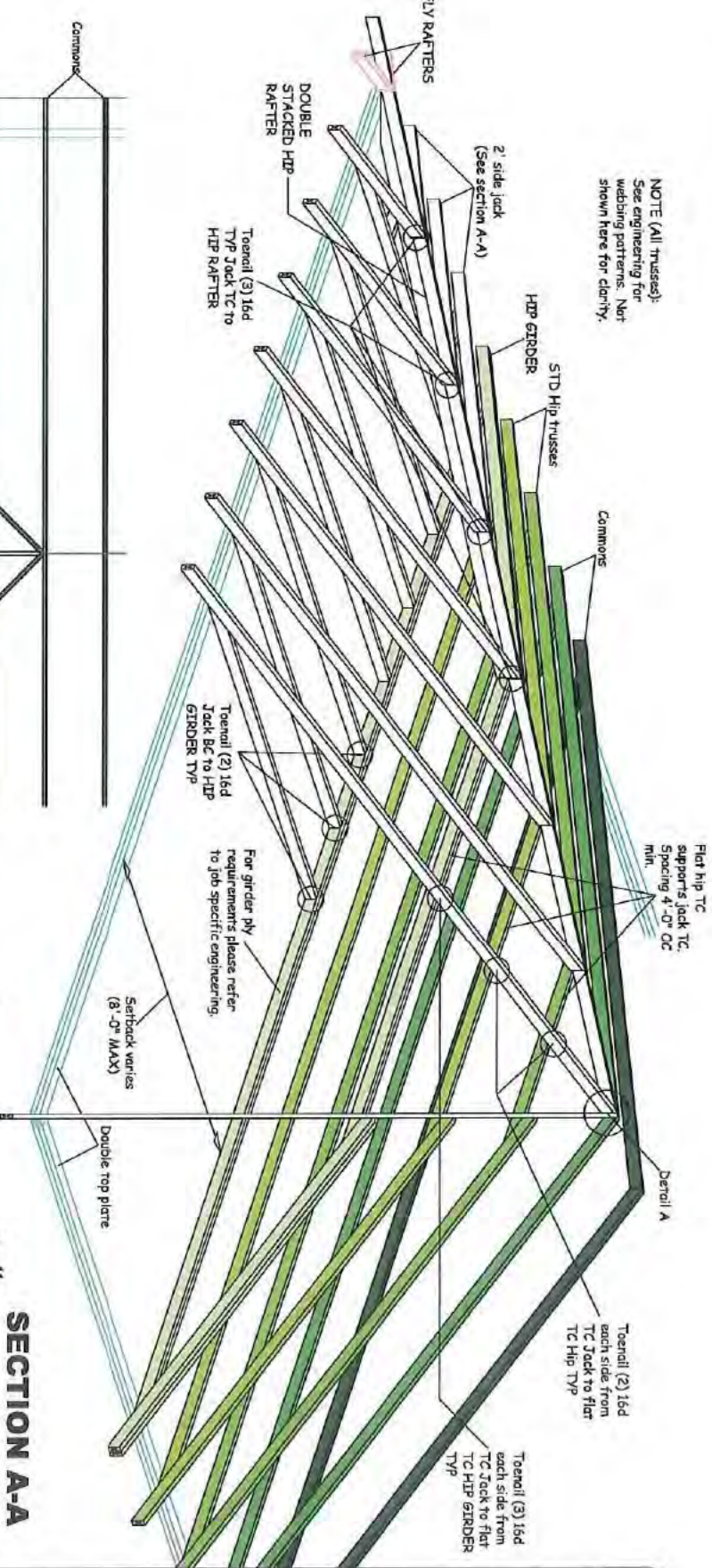
Continuous bearing wall

**NOTE: GABLE STUDS MAY BE ATTACHED WITH 1.5X4 OR 2X3
MITEK MT20 PLATES OR WITH (6) -7/16"x1-3/4" STAPLES ONE SIDE ONLY**

**SEE MITEK STANDARD GABLE END DETAIL FOR
GABLE STUD BRACING REQUIREMENTS.**

TRUSS DESIGNED FOR WIND LOADS
IN THE PLANE OF THE TRUSS ONLY.

NOTE (All trusses):
See engineering for
webbing patterns. Not
shown here for clarity.



CA HIP FRAMING DETAILS

DETAIL IS NOT MEANT TO SUPERCEDE DETAILS OUTLINED IN
STRUCTURAL PLANS. FOR APPROVAL IS REQUIRED PRIOR TO USE.



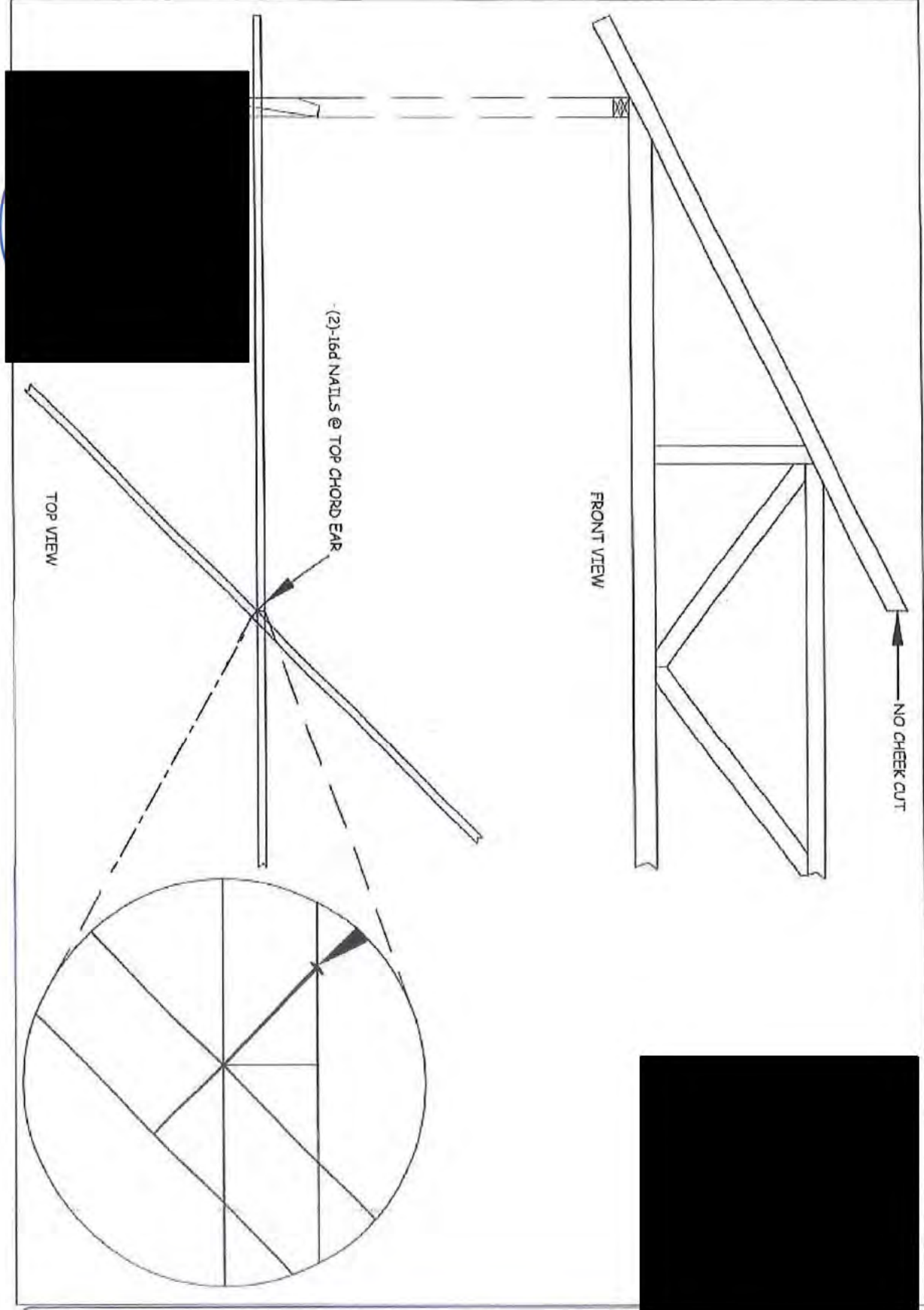
CALIFORNIA
TRUSSFRAMING
23665 Calajco Road
Perris, CA 92570
Ph: 951-657-7491

SHEET

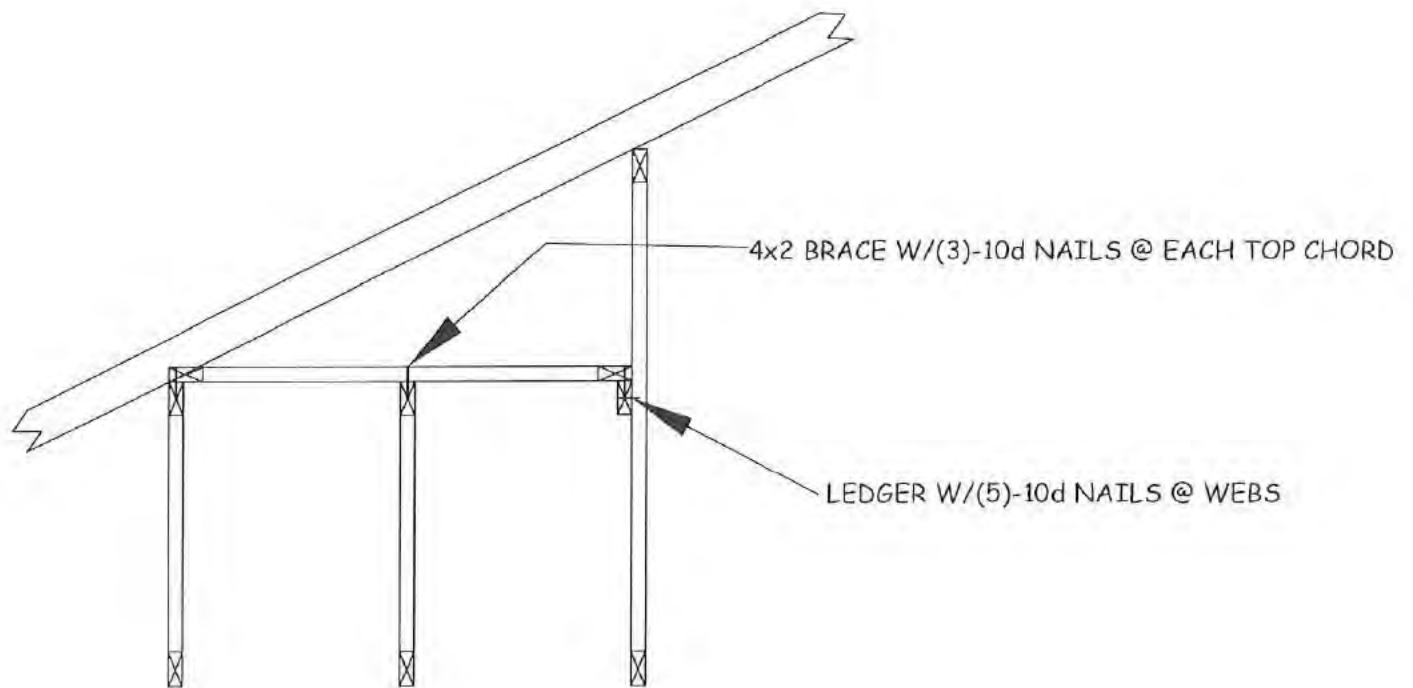
DETAIL A

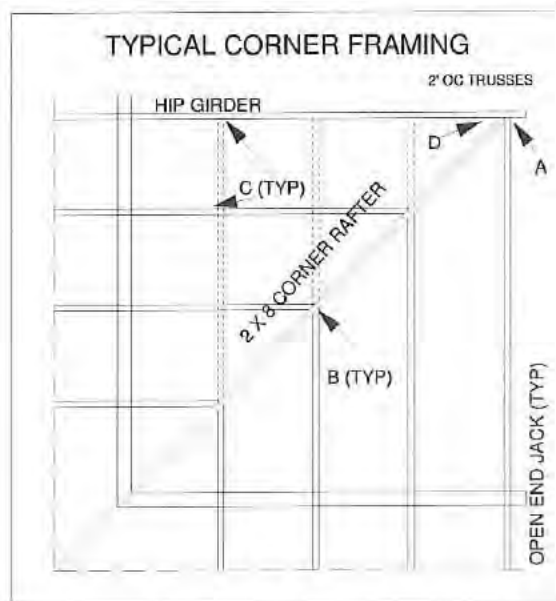
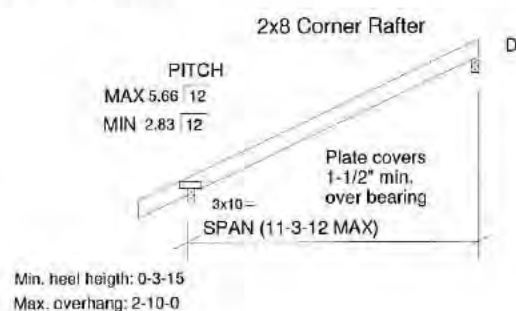
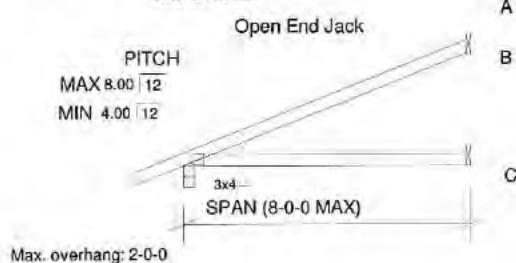
Page 10 of 36

HIP EAR NAILING DETAIL



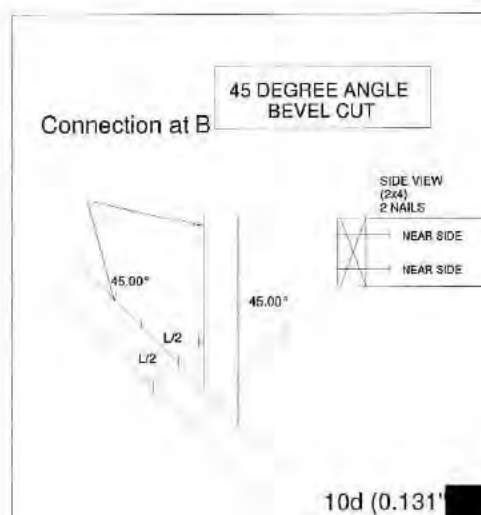
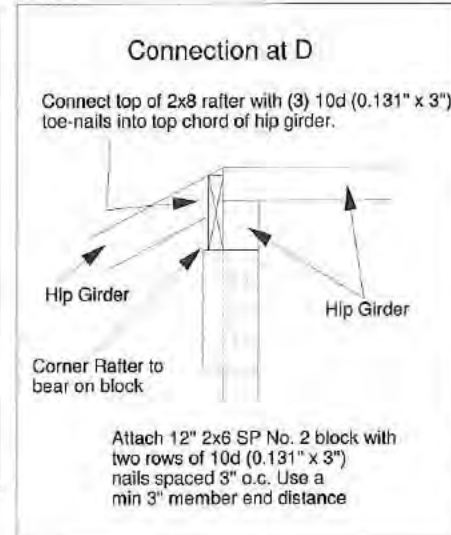
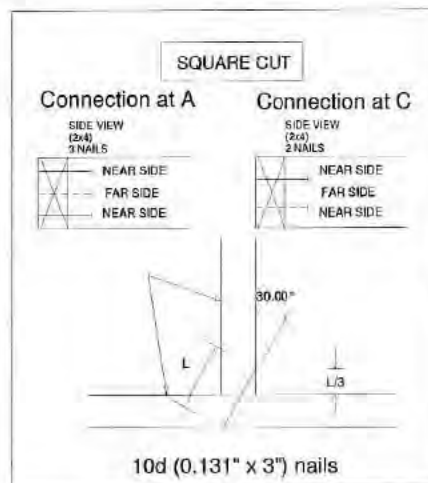
HIP FLAT TOP BRACING DETAIL





Lumber: SPF MSR 2100 1.8E min. top chord required for top chord slopes between 5.01/12 and 8/12.
SPF No. 2 min. top chord slopes between 5/12 and 4/12.
SPF No. 2 min. bottom chord.
SP No. 2 or better for corner rafter.

Plates: All plates are MT20 installed on each face per TPI 1.

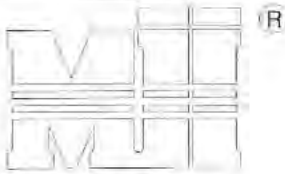


Wind loading: ASCE 7-98, ASCE 7-02, ASCE 7-05 - 90 MPH
ASCE 7-10, ASCE 7-16 - 115 MPH
Exposure category B or C.
Occupancy category II
4.8 psf top chord dead load.
4.2 psf bottom chord dead load.
25' roof height.
MWFRS gable end zone.
Enclosed building (Cond. I)
Duration of load is 1.60

Deflection: Top chord LL- L/180 TL- L/120
Bottom chord LL- L/180 TL- L/120
Truss LL- L/240 TL- L/180

Loading: Duration of load is 1.25
20 psf top chord live load
8 psf top chord dead load
0 psf bottom chord live load
7 psf bottom chord dead load
10 psf non-concurrent bottom chord live load

Conforms to: IRC 2000/2003/2006/2009/2012/2015/2018
IBC 2000/2003/2006/2009/2012/2015/2018



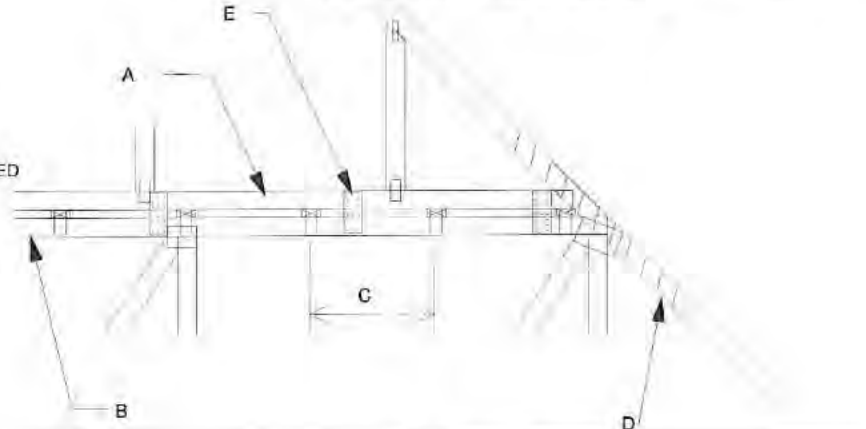
MiTek USA, Inc.



MiTek USA, Inc.

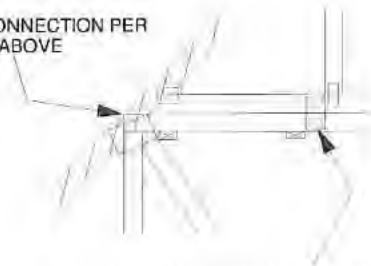
MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E
 MAX MEAN ROOF HEIGHT = 30 FEET
 MAX TRUSS SPACING = 24" O.C.
 CATEGORY II BUILDING
 EXPOSURE B or C
 ENCLOSED BUILDING
 LOADING = 5 PSF TCDL MINIMUM
 ASCE 7-10, ASCE 7-16
 DURATION OF LOAD INCREASE : 1.60
 DETAIL IS NOT APPLICABLE FOR TRUSSES
 TRANSFERRING DRAG LOADS (SHEAR TRUSSES).
 ADDITIONAL CONSIDERATIONS BY BUILDING
 ENGINEER/DESIGNER ARE REQUIRED.

- A - PIGGYBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) (0.131" X 3.5") TOE-NAILED.
- B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
- C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
- D - 2 X X 4'-0" SCAB, SIZE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C. SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR
 2. WIND SPEED OF 116 MPH TO 180 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.
- E - FOR WIND SPEEDS BETWEEN 116 AND 180 MPH, ATTACH MITEK NP37 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72" O.C. W/ (4) (0.131" X 1.5") NAILS PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" NAIL EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)

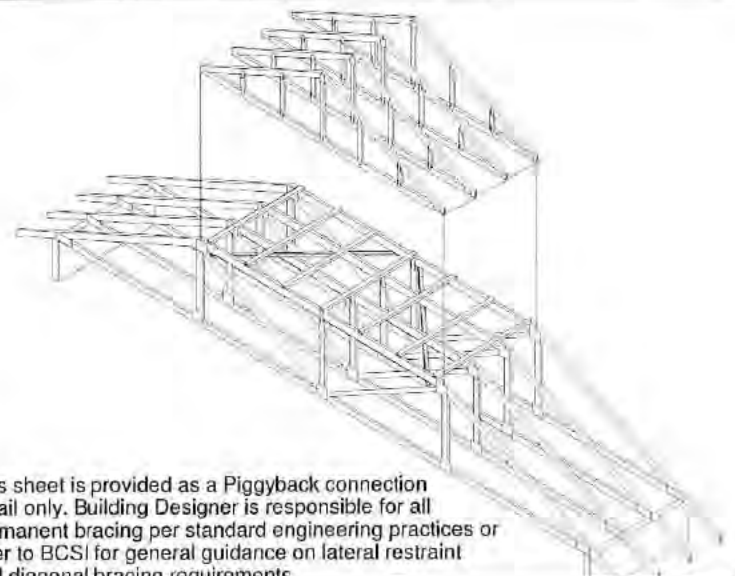


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

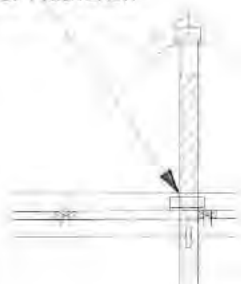
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.

SCAB CONNECTION PER
NOTE D ABOVE

FOR ALL WIND SPEEDS, ATTACH MITEK NP37 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) (0.131" X 1.5") PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" NAIL EDGE DISTANCE.

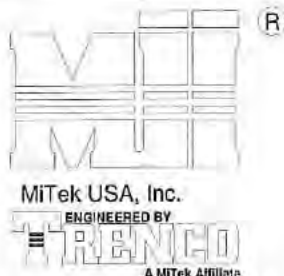


This sheet is provided as a Piggyback connection detail only. Building Designer is responsible for all permanent bracing per standard engineering practices or refer to BCSI for general guidance on lateral restraint and diagonal bracing requirements.

VERTICAL WEB TO
EXTEND THROUGH
BOTTOM CHORD
OF PIGGYBACKFOR LARGE CONCENTRATED LOADS APPLIED
TO CAP TRUSS REQUIRING A VERTICAL WEB:

- 1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.
- 2) ATTACH 2 x x 4'-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)
- 3) THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.
- 4) FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS DESIGN.
- 5) CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN.

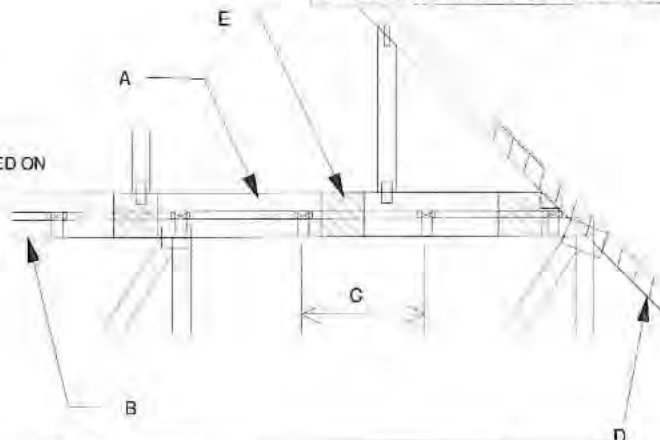
MiTek USA, Inc.



MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E
 MAX MEAN ROOF HEIGHT = 30 FEET
 MAX TRUSS SPACING = 24" O.C.
 CATEGORY II BUILDING
 EXPOSURE B or C
 ENCLOSED BUILDING
 LOADING = 5 PSF TCDL MINIMUM
 ASCE 7-10, ASCE 7-16
 DURATION OF LOAD INCREASE : 1.60

DETAIL IS NOT APPLICABLE FOR TRUSSES
 TRANSFERRING DRAG LOADS (SHEAR TRUSSES).
 ADDITIONAL CONSIDERATIONS BY BUILDING
 ENGINEER/DESIGNER ARE REQUIRED.

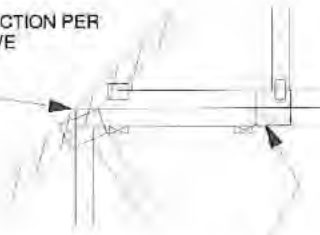
- A - PIGGYBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) 0(0.131" X 3.5") TOE-NAILED.
- B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
- C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
- D - 2 X _____ X 4'-0" SCAB, SIZE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C. SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR
 2. WIND SPEED OF 116 MPH TO 180 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.
- E - FOR WIND SPEED IN THE RANGE 116 MPH - 180 MPH ADD 8" x 8" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 48" O.C. OR LESS. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)



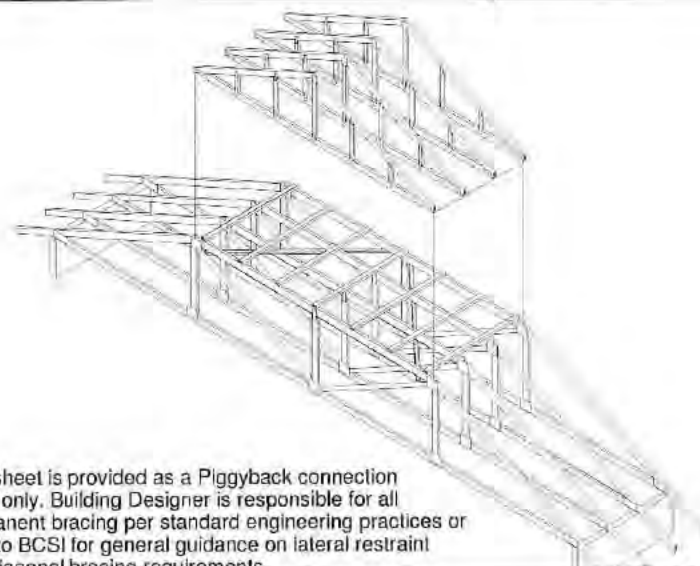
WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.

SCAB CONNECTION PER
NOTE D ABOVE

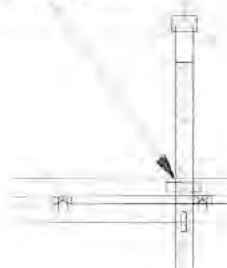


7" x 7" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 24" O.C. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)



This sheet is provided as a Piggyback connection detail only. Building Designer is responsible for all permanent bracing per standard engineering practices or refer to BCSI for general guidance on lateral restraint and diagonal bracing requirements.

VERTICAL WEB TO
EXTEND THROUGH
BOTTOM CHORD
OF PIGGYBACK



FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

- 1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.
- 2) ATTACH 2 x _____ x 4'-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)
- 3) THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.
- 4) FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
- 5) CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN.



MAX MEAN ROOF HEIGHT = 30 FEET
BUILDING CATEGORY II
WIND EXPOSURE B or C
WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 100 MPH (MWFRS)
WIND DESIGN PER ASCE 7-10, ASCE 7-16 125 MPH (MWFRS)
DURATION OF LOAD INCREASE
FOR WIND LOADS: 1.60

DETAIL IS NOT APPLICABLE FOR TRUSSES
TRANSFERING DRAG LOADS (SHEAR TRUSSES).
ADDITIONAL CONSIDERATIONS BY BUILDING
ENGINEER/DESIGNER ARE REQUIRED.

THIS DETAIL SHALL BE ONLY USED FOR RESISTING A VERTICAL WIND UPLIFT
UP TO 140 LBS MAXIMUM AT EACH CONNECTION POINT. BUILDING DESIGNER
IS RESPONSIBLE FOR THE LOAD EXCEEDING THIS LIMITATION AND/OR IN
OTHER DIRECTIONS.

PIGGY-BACK TRUSS
(CROSS-SECTION VIEW)
Refer to actual truss design drawing for
additional piggyback truss information.

ATTACH PIGGYBACK TRUSS
TO BASE TRUSS WITH
(2) - 16d (0.131" X 3.5") NAILS
TOENAILED.

NEAR SIDE

FAR SIDE

NOTES FOR TRUSS:

1. THIS DETAIL IS VALID FOR ONE-PLY PIGGYBACK TRUSS ONLY;
2. THE CHORD MEMBER OF PIGGYBACK AND BASE TRUSSES
MUST BE SOUTHERN PINE OR DOUGLAS FIR-LARCH LUMBER;
3. THE SPACING OF PIGGYBACK TRUSSES AND BASE TRUSSES
IS 2 FT OR LESS;
4. THE PIGGYBACK TRUSSES SHOULD BE PERPENDICULAR TO
BASE TRUSSES.
5. PIGGYBACK TRUSS MAY NOT CANTILEVER OVER BASE TRUSS
OR HAVE AN OVERHANG WHICH WILL CREATE A HIGHER UPLIFT
AT CONNECTING POINT.

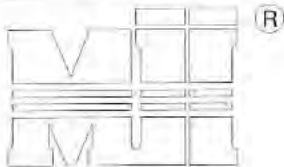
FLAT TOP CHORD
OF BASE TRUSS

BASE TRUSS (SIDE VIEW)
Refer to actual truss design drawing
for additional base truss information.

NOTES FOR TOE-NAIL:

1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES
WITH THE MEMBER AND STARTED 1/3 THE LENGTH OF THE
NAIL FROM THE MEMBER END AS SHOWN.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF
NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING
OF THE WOOD.

MiTek USA, Inc.



MiTek USA, Inc.



TRUSS TYPICAL
(24" O.C.)

VALLEY RAFTERS
(SEE NOTE #2)

POST
(SEE NOTE #8)

VALLEY PLATE
(SEE NOTE #4)

POST SHALL BE LOCATED ON
SHEATHING ABOVE THE TOP
CHORD OF EACH TRUSS.

PLAN DRAWING

POST
(SEE NOTE #8)

TRUSS TYPICAL
(24" O.C.)

GABLE END, COMMON TRUSS
OR GIRDER TRUSS

P 12

PLAN SECTION

TRUSS MUST
BE SHEATHED

NOTE:

48" O.C. MAXIMUM POST SPACING

LIVE LOAD = 30 PSF (MAX)

DEAD LOAD = 15 PSF (MAX)

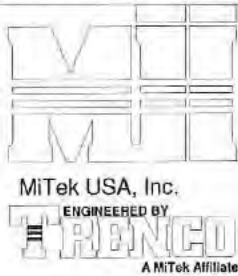
D.O.L. INC = 1.15

ASCE 7-98, ASCE 7-02, ASCE 7-05 90 MPH (MWFRS)

ASCE 7-10, ASCE 7-16 115 MPH (MWFRS)

GENERAL SPECIFICATIONS

1. WITH BASE TRUSSES ERECTED (INSTALLED), APPLY SHEATHING TO TOP CHORD OF SUPPORTING (BASE) TRUSSES.
2. BRACE BOTTOM CHORD AND WEB MEMBERS PER TRUSS DESIGNS.
3. DEFINE VALLEY RIDGE BY RUNNING A LEVEL STRING FROM THE INTERSECTING RIDGE OF THE (a.) GABLE END, (b.) GIRDER TRUSS OR (c.) COMMON TRUSS TO THE ROOF SHEATHING.
4. INSTALL 2 x 4 VALLEY PLATES. FASTEN TO EACH SUPPORTING TRUSS WITH (2) 16d (0.131" X 3.5") NAILS.
5. SET 2 x 6 #2 RIDGE BOARD. SUPPORT WITH 2 x 4 POSTS SPACED 48" O.C.. BEVEL BOTTOM OF POST TO SET EVENLY ON THE SHEATHING. FASTEN POST TO RIDGE WITH (4) 10d (0.131" X 3") NAILS. FASTEN POST TO ROOF SHEATHING WITH (3) 10d (0.131" X 3") TOE-NAILS.
6. FRAME VALLEY RAFTERS FROM VALLEY PLATE TO RIDGE BOARD. MAXIMUM RAFTER SPACING IS 24" O.C.. FASTEN VALLEY RAFTER TO RIDGE BEAM WITH (3) 16d (0.131" X 3.5") TOE-NAILS. FASTEN VALLEY RAFTER TO VALLEY PLATE WITH (3) 16d (0.131" X 3.5") TOE-NAILS.
7. SUPPORT THE VALLEY RAFTERS WITH 2 x 4 POSTS 48" O.C. (OR LESS) ALONG EACH RAFTER. INSTALL POSTS IN A STAGGERED PATTERN AS SHOWN ON PLAN DRAWING. ALIGN POSTS WITH TRUSSES BELOW. FASTEN VALLEY RAFTER TO POST WITH (4) 10d (0.131" X 3") NAILS. FASTEN POST THROUGH SHEATHING TO SUPPORTING TRUSS WITH (2) 16d (0.131" X 3.5") NAILS.
8. POSTS SHALL BE 2 x 4 #2 OR BETTER SPRUCE PINE FIR, DOUG FIR LARCH OR SOUTHERN PINE. POSTS EXCEEDING 75' SHALL BE INCREASED TO 4 x 4 OR BE PRE-ASSEMBLED (2) PLY 2 x 4's FASTENED TOGETHER WITH 2 ROWS OF 10d (0.131" X 3") NAILS 6" O.C..

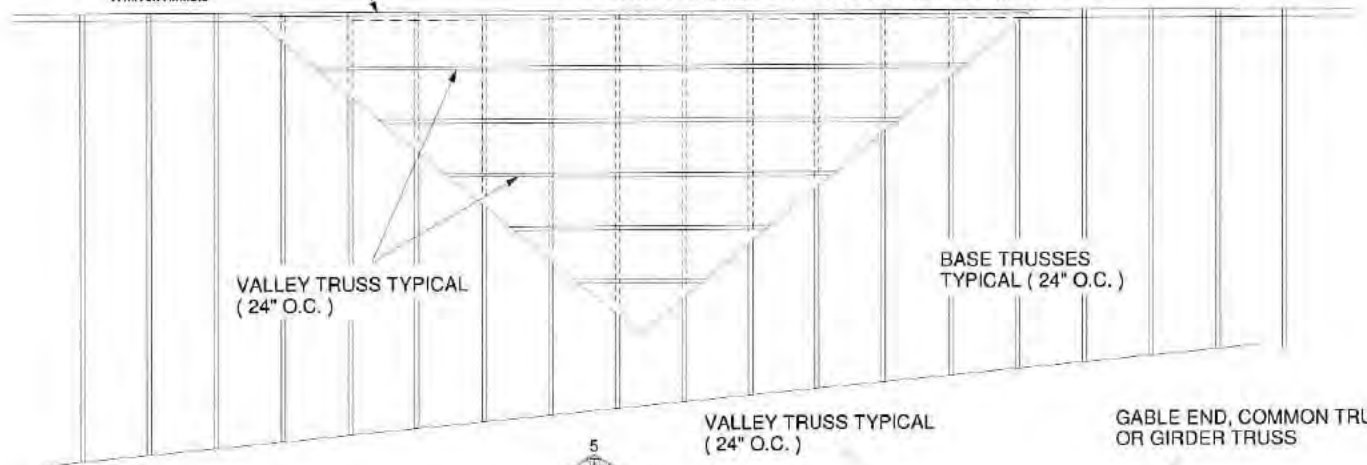


GABLE END, COMMON TRUSS
OR GIRDER TRUSS

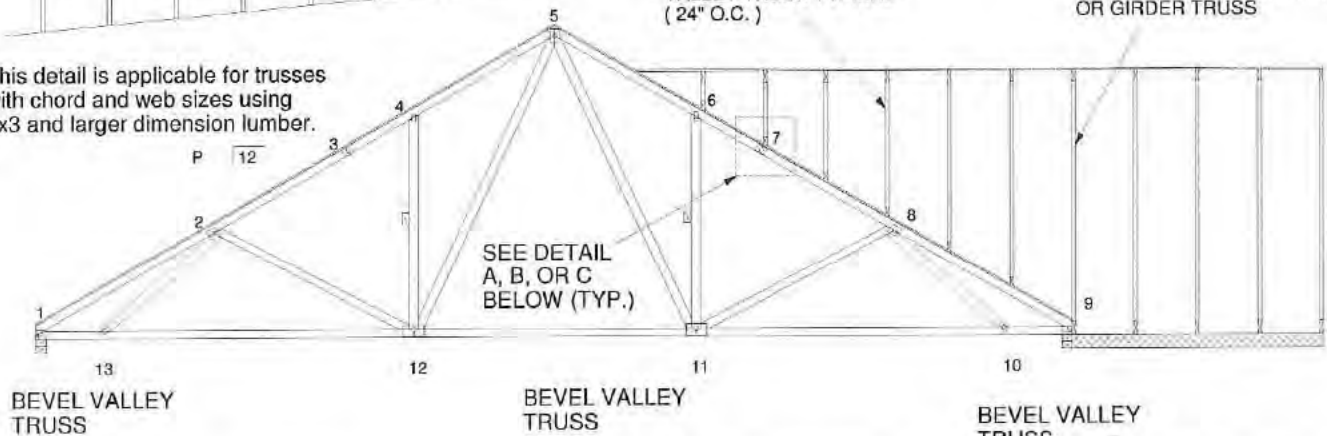
TOTAL TOP CHORD LOAD = 65 PSF (MAX)
D.O.L. INC = 1.15

ASCE 7-98, ASCE 7-02, ASCE 7-05 (MWFRS) 110 MPH WIND
ASCE 7-10, ASCE 7-16 (MWFRS) 140 MPH WIND

NOTE: VALLEY STUD SPACING NOT
TO EXCEED 48" O.C. SPACING



This detail is applicable for trusses with chord and web sizes using 2x3 and larger dimension lumber.



TOE - NAIL VALLEY TO
BASE TRUSS W/
(2) 16d TOE-NAILS

TOE - NAIL VALLEY TO
BASE TRUSS W/
(2) 16d TOE-NAILS

SECURE VALLEY TRUSS
W/ USP RT7 OR
EQUIVALENT

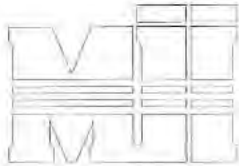
DETAIL A
(BASE TRUSSES SHEATHED)

DETAIL B
(NO SHEATHING)

DETAIL C
(NO SHEATHING)

1. INSTALL BASE TRUSSES.
2. DETAIL A, APPLY SHEATHING TO TOP CHORD OF SUPPORTING TRUSSES. DETAILS B & C, VALLEY TRUSSES MAY PROVIDE BRACING. BASE TRUSSES MUST BE DESIGNED FOR PURLIN SPACING EQUIVALENT TO VALLEY TRUSS SPACING (NOT TO EXCEED 24" O.C.).
3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE TO BASE TRUSSES AS PER DETAIL A, B, OR C ABOVE.
4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWING.
5. ALL NAILS TO BE (0.131" X 3.5")

NOTE:
FOR VALLEY TRUSSES BUILT WITH 2x3 LUMBER, BASE TRUSSES ARE NOT TO EXCEED AN 8/12 PITCH AND VALLEY TRUSSES BUILT WITH 2x4 LUMBER OR LARGER, BASE TRUSSES ARE NOT TO EXCEED AN 12/12 PITCH.



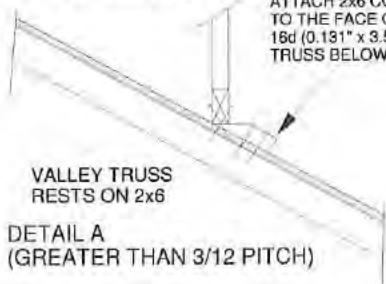
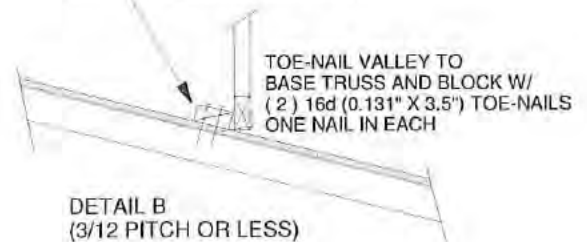
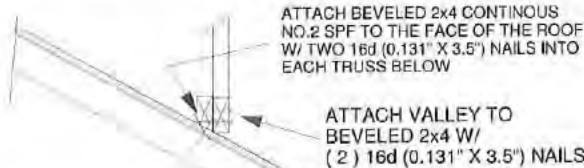
MiTek USA, Inc.



R

GABLE END, COMMON TRUSS
OR GIRDER TRUSSLIVE LOAD = 30 PSF (MAX)
DEAD LOAD = 15 PSF (MAX)
D.O.L. INC = 1.15NOTE: VALLEY STUD SPACING NOT
TO EXCEED 48" O.C. SPACINGASCE 7-98, ASCE 7-02, ASCE 7-05 (MWFRS) 100 MPH
ASCE 7-10, ASCE 7-16 (MWFRS) 125 MPHVALLEY TRUSS TYPICAL
(24" O.C.)BASE TRUSSES
TYPICAL (24" O.C.)VALLEY TRUSS TYPICAL
(24" O.C.)GABLE END, COMMON TRUSS
OR GIRDER TRUSS

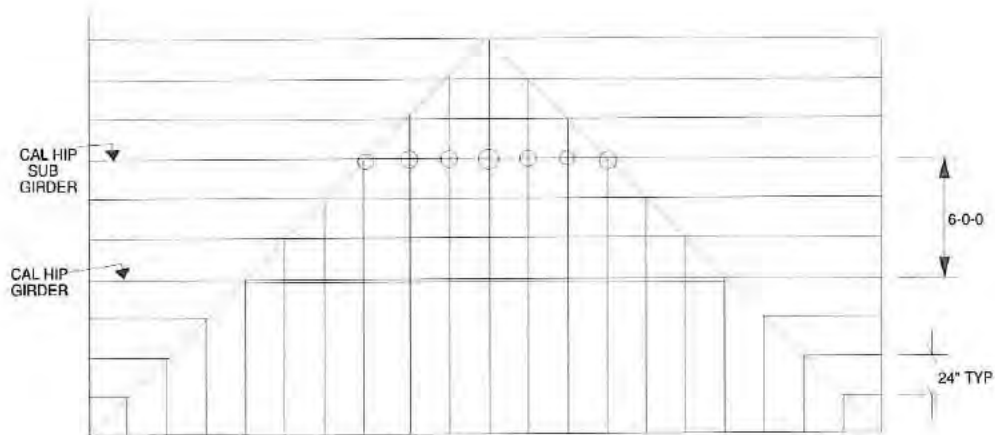
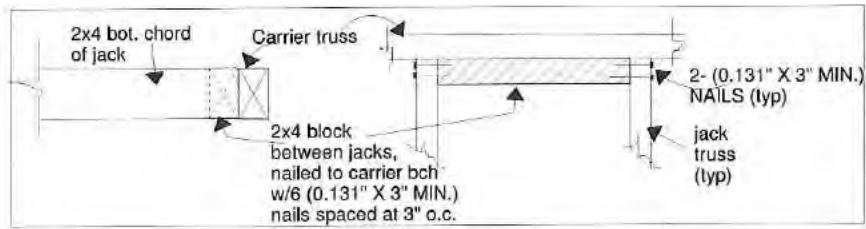
1. INSTALL BASE TRUSSES.
2. APPLY SHEATHING TO TOP CHORD OF SUPPORTING TRUSSES. VALLEY TRUSSES MAY PROVIDE BRACING IF SHEATHING IS NOT APPLIED. BASE TRUSSES MUST BE DESIGNED FOR PURLIN SPACING EQUIVALENT TO VALLEY TRUSS SPACING (NOT TO EXCEED 24" O.C.).
3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE TO BASE TRUSSES AS PER DETAIL A, B, OR C BELOW.
4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.

SEE DETAIL
A, B, OR C
BELOW (TYP.)TOE-NAIL VALLEY TO
BASE TRUSS W/
(2) 16d (0.131" X 3.5") TOE-NAILSVALLEY TRUSS
RESTS ON 2x6
DETAIL A
(GREATER THAN 3/12 PITCH)ATTACH 2x6 CONTINUOUS NO.2 SPF
TO THE FACE OF THE ROOF W/ TWO
16d (0.131" X 3.5") NAILS INTO EACH
TRUSS BELOWATTACH 2x4 CONTINUOUS NO.2 SPF
BLOCK TO THE FACE OF THE ROOF W/
TWO 16d (0.131" X 3.5") NAILS INTO EACH
TRUSS BELOW. EACH TRUSS BELOW
MUST HAVE A BLOCK ATTACHED TO IT.DETAIL B
(3/12 PITCH OR LESS)TOE-NAIL VALLEY TO
BASE TRUSS AND BLOCK W/
(2) 16d (0.131" X 3.5") TOE-NAILS
ONE NAIL IN EACHDETAIL C
(GREATER THAN 3/12 PITCH
LESS THAN 12/12 PITCH)ATTACH BEVELED 2x4 CONTINUOUS
NO.2 SPF TO THE FACE OF THE ROOF
W/ TWO 16d (0.131" X 3.5") NAILS INTO
EACH TRUSS BELOWATTACH VALLEY TO
BEVELED 2x4 W/
(2) 16d (0.131" X 3.5") NAILSTOE-NAIL VALLEY TO
BASE TRUSS W/
(2) 16d (0.131" X 3.5")

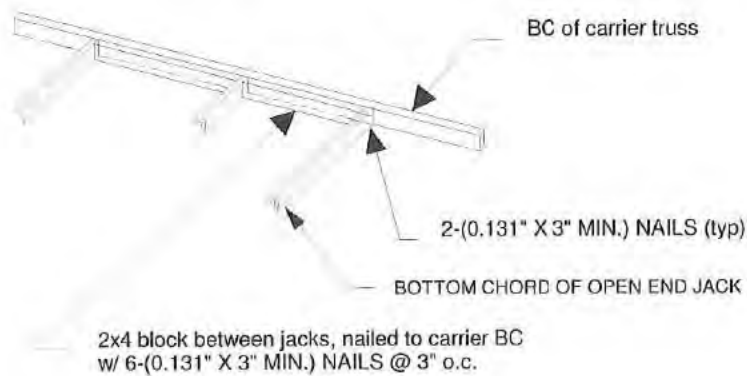


Loading (PSF):

BCDL 10.0 PSF MAX



**PARTIAL FRAMING PLAN OF
CALIFORNIA HIP SET WITH
SUB GIRDER**





DESIGN CRITERIA

LOADING (PSF)
TCLL= 30.0
TCDL= 10.0
TOTAL= 40.0

SPACING 2-0-0
PLATE INCR: 1.15
LUMBER INCR: 1.15
MIN L/DEFL= 240

MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
ENCLOSED BUILDING
ASCE 7-98, ASCE 7-02, ASCE 7-05 90 MPH
ASCE 7-10, ASCE 7-16 115 MPH
DURATION OF LOAD INCREASE : 1.60

2 x x 4'-0" SIZE TO MATCH
TOP CHORD OF PIGGYBACK.
ATTACHED TO EACH FACE OF TOP
CHORD WITH 2 ROWS OF 10d (0.131" X 3")
NAILS SPACED 6" O.C. AND STAGGERED

MAX. SPAN PIGGYBACK TRUSS 10'-0"
WITH SP 2X4 NO. 2 LUMBER
SLOPE MAY VARY FROM
3/12 TO 12/12

CAP TRUSS

BASE TRUSS

SPACE PURLINS ACCORDING TO THE MAXIMUM
SPACING ON THE TOP CHORD OF THE BASE
TRUSS (SPACING NOT TO EXCEED 24" O.C.).
ATTACH EACH PURLIN TO TOP CHORD OF
BASE TRUSS WITH 2 - 16d (0.131" X 3.5") NAILS.

FOR PIGGY BACK TRUSSES WITH SPANS 4' OR LESS
SCAB MAY BE OMITTED PROVIDED THAT:
ROOF SHEATHING TO BE CONTINUOUS OVER JOINT
(SHEATHING TO OVERLAP MINIMUM 12" OVER JOINT)

NOTE:

A PURLIN TO BE LOCATED
AT EACH BASE TRUSS JOINT.

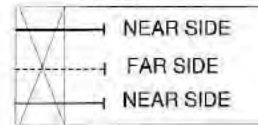
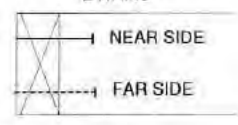
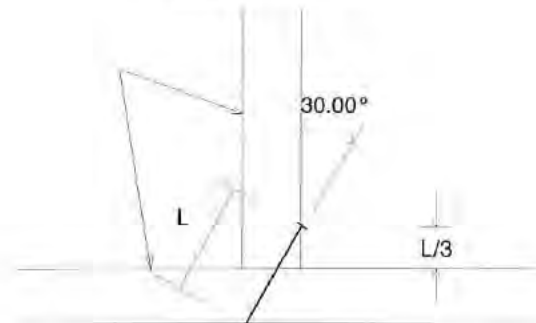
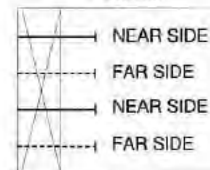
MiTek USA, Inc.



NOTES:

1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES WITH THE MEMBER AND STARTED 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END AS SHOWN.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE BOTTOM CHORD SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

SQUARE CUT

SIDE VIEW
(2x4)
3 NAILSSIDE VIEW
(2x3)
2 NAILSSIDE VIEW
(2x6)
4 NAILS

TOE-NAIL SINGLE SHEAR VALUES PER NDS 2018 (lb/nail)

	DIAM.	SP	DF	HF	SPF	SPF-S
3.5" LONG	.131	88.1	80.6	69.9	68.4	59.7
	.135	93.5	85.6	74.2	72.6	63.4
	.162	118.3	108.3	93.9	91.9	80.2
3.25" LONG	.128	84.1	76.9	66.7	65.3	57.0
	.131	88.1	80.6	69.9	68.4	59.7
	.148	106.6	97.6	84.7	82.8	72.3
3.0" LONG	.120	73.9	67.6	58.7	57.4	50.1
	.128	84.1	76.9	66.7	65.3	57.0
	.131	88.1	80.6	69.9	68.4	59.7
	.148	106.6	97.6	84.7	82.8	72.3

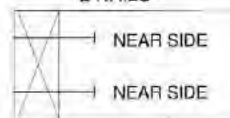
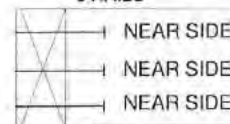
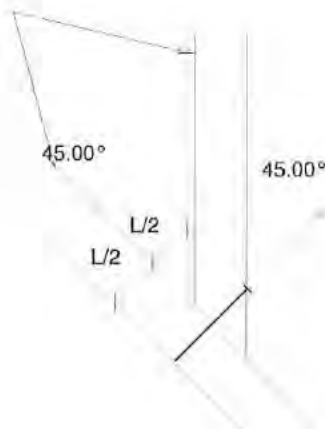
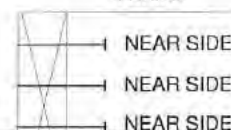
VALUES SHOWN ARE CAPACITY PER TOE-NAIL.
APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

EXAMPLE:

(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD

For load duration increase of 1.15:

3 (nails) X 91.9 (lb/nail) X 1.15 (DOL) = 317.0 lb Maximum Capacity

45 DEGREE ANGLE
BEVEL CUTSIDE VIEW
(2x3)
2 NAILSSIDE VIEW
(2x4)
3 NAILSSIDE VIEW
(2x6)
4 NAILS

VIEWS SHOWN ARE FOR
ILLUSTRATION PURPOSES ONLY

MiTek USA, Inc.



NOTES:

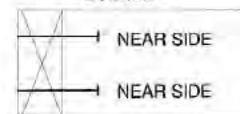
1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.)
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE TWO SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

THIS DETAIL APPLICABLE TO THE
THREE END DETAILS SHOWN BELOW

TOE-NAIL SINGLE SHEAR VALUES PER NDS 2018 (lb/nail)

	DIAM.	SP	DF	HF	SPF	SPF-S
3.5" LONG	.131	88.0	80.6	69.9	68.4	59.7
	.135	93.5	85.6	74.2	72.6	63.4
	.162	108.8	99.6	86.4	84.5	73.8
3.25" LONG	.128	74.2	67.9	58.9	57.6	50.3
	.131	75.9	69.5	60.3	59.0	51.1
	.148	81.4	74.5	64.6	63.2	52.5

VIEWS SHOWN ARE FOR
ILLUSTRATION PURPOSES ONLY

SIDE VIEW
(2x3)
2 NAILS

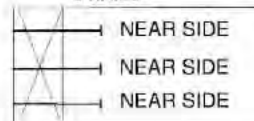
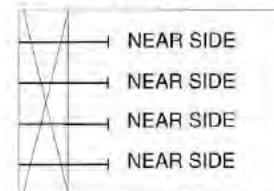
VALUES SHOWN ARE CAPACITY PER TOE-NAIL.
APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

EXAMPLE:

(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD

For load duration increase of 1.15:

3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

SIDE VIEW
(2x4)
3 NAILSSIDE VIEW
(2x6)
4 NAILS

ANGLE MAY
VARY FROM
30° TO 60°

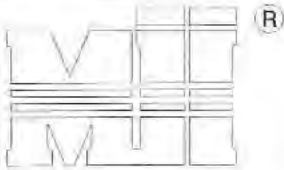
45.00°

ANGLE MAY
VARY FROM
30° TO 60°

45.00°

ANGLE MAY
VARY FROM
30° TO 60°

45.00°



MiTek USA, Inc.



SIDE VIEW

NEAR SIDE

NEAR SIDE

FAR SIDE

THIS DETAIL SHALL BE USED FOR A CONNECTION RESISTING UPLIFT FORCES ONLY. BUILDING DESIGNER IS RESPONSIBLE FOR LOADS IN OTHER DIRECTIONS.

END VIEW

TOP PLATE
OF WALL

L

30.00°

1" FOR 3" NAIL
1-1/16" FOR 3.25" NAIL
1-3/16" FOR 3.5" NAIL

VIEWS SHOWN ARE FOR
ILLUSTRATION PURPOSES ONLY

TOE-NAIL WITHDRAWAL VALUES PER NDS 2018 (lb/nail)

		DIAM.	SP	DF	HF	SPF	SPF-S
NAIL LENGTH, L	3.5" LONG	.131	59	46	32	30	20
		.135	60	48	33	30	20
		.162	72	58	39	37	25
	3.25" LONG	.128	54	42	28	27	19
		.131	55	43	29	28	19
		.148	62	48	34	31	21
	3.0" LONG	.120	46	36	25	24	16
		.128	49	38	26	25	17
		.131	51	39	27	26	17
		.148	57	44	31	28	20

NOTES:

1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES WITH THE MEMBER AND STARTED 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END AS SHOWN.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. ALLOWABLE VALUE SHALL BE BASED ON THE SPECIE WITH LOWER NAIL CAPACITY BETWEEN THE TWO MEMBERS IN THE CONNECTION.

VALUES SHOWN ARE CAPACITY PER TOE-NAIL.
APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

EXAMPLE:

(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES TOP PLATE

For Wind DOL of 1.33:

3 (nails) X 37 (lb/nail) X 1.33 (DOL for wind) = 148 lb Maximum Allowable Uplift Reaction Due To Wind

For Wind DOL of 1.60:

3 (nails) X 37 (lb/nail) X 1.60 (DOL for wind) = 177 lb Maximum Allowable Uplift Reaction Due To Wind

If the uplift reaction specified on the Truss Design Drawing exceeds 147 lbs (177 lbs) Building Designer is responsible to specify a different connection.

*** USE (3) TOE-NAILS ON 2x4 BEARING WALL

*** USE (4) TOE-NAILS ON 2x6 BEARING WALL



(R)

MiTek USA, Inc.

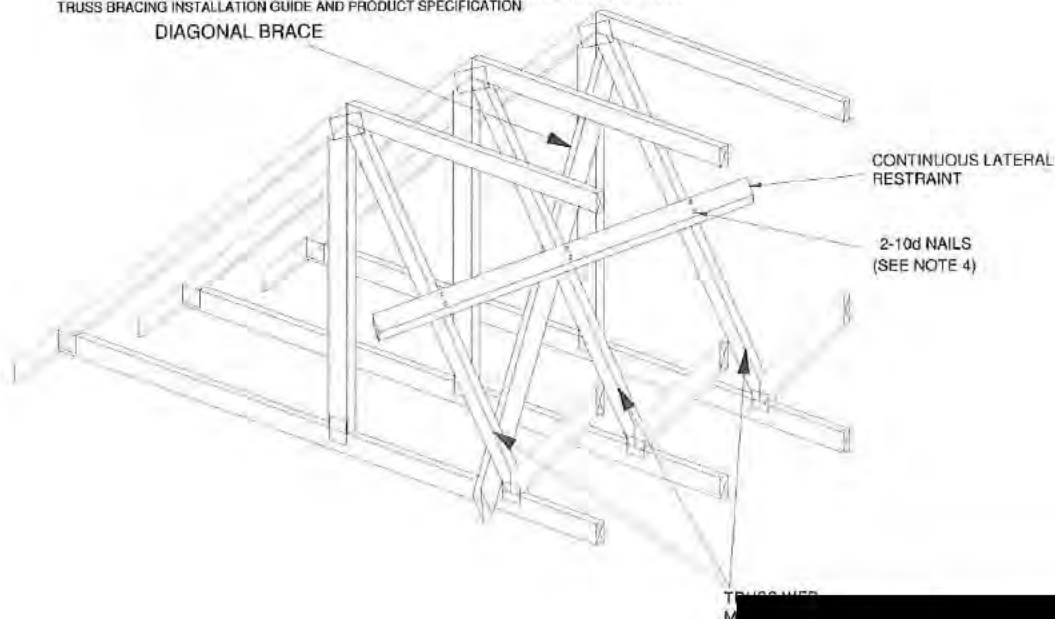
BRACE BAY SIZE	MAXIMUM TRUSS WEB FORCE (lbs.)(See note 7)									
	24"O.C.				48"O.C.				72" O.C.	
	BRACING MATERIAL TYPE				BRACING MATERIAL TYPE				BRACING MATERIAL TYPE	
	A	B	C	D	A	B	C	D	C	D
10'-0"	1610	1886	1886	2829						
12'-0"	1342	1572	1572	2358	3143	3143	4715		4715	7074
14'-0"	1150	1347	1347	2021						
16'-0"	1006	1179	1179	1768	2358	2358	3536			
18'-0"	894	1048	1048	1572					3143	4715
20'-0"	805	943	943	1414	1886	1886	2829			

*Bay size shall be measured in between the centers of pairs of diagonals.

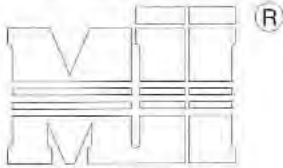
TYPE	BRACING MATERIALS	GENERAL NOTES
A	1 X 4 IND. 4S SP -OR- 1 X 4 #2 SRB (DF, HF, SPF)	1. DIAGONAL BRACING IS REQUIRED TO TRANSFER THE CUMULATIVE LATERAL BRACE FORCE INTO THE ROOF AND/OR CEILING DIAPHRAGM. THE DIAPHRAGM IS TO BE DESIGNED BY A QUALIFIED PROFESSIONAL. 2. THESE CALCULATIONS ARE BASED ON LATERAL BRACE CARRYING 2% OF THE WEB FORCE. 3. DIAGONAL BRACING MATERIAL MUST BE SAME SIZE AND GRADE OR BETTER, AS THE LATERAL BRACE MATERIAL, AND SHALL BE INSTALLED IN SUCH A MANNER THAT IT INTERSECTS WEB MEMBERS AT APPROX. 45 DEGREES AND SHALL BE NAILED AT EACH END AND EACH INTERMEDIATE TRUSS WITH 2-8d (0.131"x2.5") FOR 1x4 BRACES, 2-10d (0.131"x3") FOR 2x3 and 2x4 BRACES, AND 3-10d (0.131"x3") FOR 2x6 BRACES. 4. CONNECT LATERAL BRACE TO EACH TRUSS WITH 2-8d (0.131"x2.5") NAILS FOR 1x4 LATERAL BRACES, 2-10d (0.131"x3") NAILS FOR 2x3 and 2x4 LATERAL BRACES, AND 3-10d (0.131"x3") FOR 2x6 LATERAL BRACES. 5. LATERAL BRACE SHOULD BE CONTINUOUS AND SHOULD OVERLAP AT LEAST ONE TRUSS SPACE FOR CONTINUITY. 6. FOR ADDITIONAL GUIDANCE REGARDING DESIGN AND INSTALLATION OF BRACING, CONSULT DSB-89 TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES AND BCSI 1 GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES, JOINTLY PRODUCED BY WOOD TRUSS COUNCIL OF AMERICA AND TRUSS PLATE INSTITUTE. www.stcindustry.com and www.tpinst.org 7. REFER TO SPECIFIC TRUSS DESIGN DRAWING FOR WEB MEMBER FORCE. 8. TABULATED VALUES ARE BASED ON A DOL. = 1.15
B	2 X 3 #3, STD, CONST (SPF, DF, HF, OR SP)	
C	2 X 4 #3, STD, CONST (SPF, DF, HF, OR SP)	
D	2 X 6 #3 OR BETTER (SPF, DF, HF, OR SP)	

FOR STABILIZERS:

FOR A SPACING OF 24" O.C. ONLY, MITEK "STABILIZER" TRUSS BRACING SYSTEMS CAN BE SUBSTITUTED FOR TYPE A, B, C AND D BRACING MATERIAL. DIAGONAL BRACING FOR STABILIZERS ARE TO BE PROVIDED AT BAY SIZE INDICATED ABOVE. WHERE DIAPHRAGM BRACING IS REQUIRED AT PITCH BREAKS, STABILIZERS MAY BE REPLACED WITH WOOD BLOCKING. SEE "STABILIZER" TRUSS BRACING INSTALLATION GUIDE AND PRODUCT SPECIFICATION.

DIAGONAL BRACE

This information is provided as a recommendation to assist in the requirement for permanent bracing of the individual truss web members. Additional bracing may still be required for the stability of the overall roof system. The method shown here is just one method that can be used to provide stability against web buckling.



MiTek USA, Inc.

 ENGINEERED BY
TRENCO
 A MiTek Affiliate

Nailing Pattern

L-Brace size	Nail Size	Nail Spacing
1x4 or 6	10d (0.131" X 3")	8" o.c.
2x4, 6, or 8	16d (0.131" X 3.5")	8" o.c.

Note: Nail along entire length of L-Brace
 (On Two-Ply's Nail to Both Plies)

Note: L-Bracing to be used when continuous lateral bracing is impractical. L-brace must cover 90% of web length.

L-Brace Size
for One-Ply TrussSpecified Continuous
Rows of Lateral Bracing

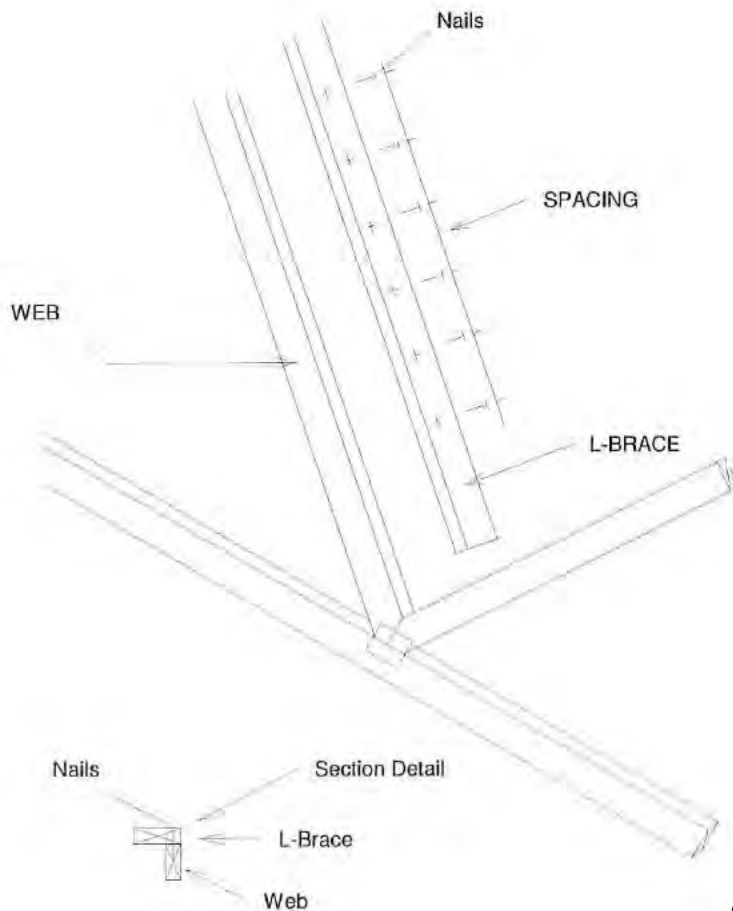
Web Size	1	2
2x3 or 2x4	1x4	***
2x6	1x6	***
2x8	2x8	***

*** DIRECT SUBSTITUTION NOT APPLICABLE.

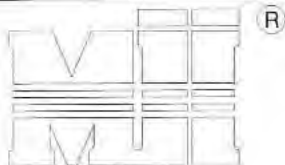
L-Brace Size
for Two-Ply TrussSpecified Continuous
Rows of Lateral Bracing

Web Size	1	2
2x3 or 2x4	2x4	***
2x6	2x6	***
2x8	2x8	***

*** DIRECT SUBSTITUTION NOT APPLICABLE.



L-Brace must be same species grade (or better) as web member.



MiTek USA, Inc.

ENGINEERED BY
TRENCO
A MiTek Affiliate

MiTek USA, Inc.

Note: T-Bracing / I-Bracing to be used when continuous lateral bracing is impractical. T-Brace / I-Brace must cover 90% of web length.

Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

Nailing Pattern

T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d (0.131" X 3")	6" o.c.

Note: Nail along entire length of T-Brace / I-Brace
(On Two-Ply's Nail to Both Plies)

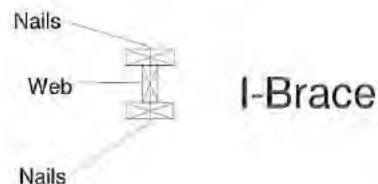
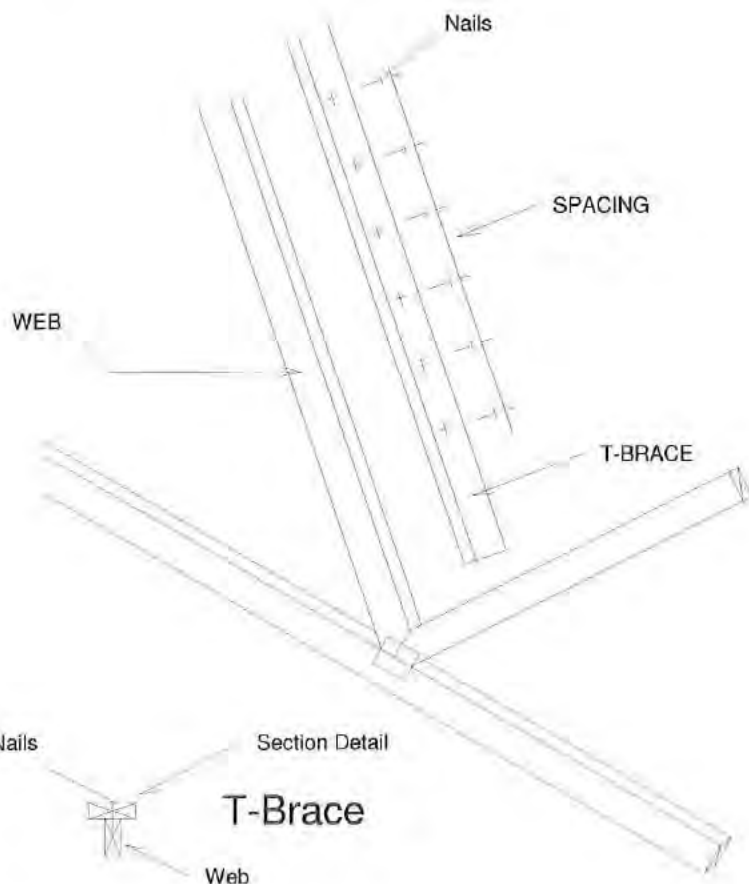
Brace Size
for One-Ply TrussSpecified Continuous
Rows of Lateral Bracing

Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

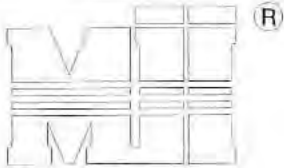
Brace Size
for Two-Ply TrussSpecified Continuous
Rows of Lateral Bracing

Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

T-Brace / I-Brace must be same species
and grade (or better) as web member.



MiTek USA, Inc.



MiTek USA, Inc.



Note: T-Bracing / I-Bracing to be used when continuous lateral bracing is impractical. T-Brace / I-Brace must cover 90% of web length.

Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

Nailing Pattern

T-Brace size	Nail Size	Nail Spacing
1x4 or 1x6	10d (0.131" X 3")	8" o.c.
2x4 or 2x6 or 2x8	16d (0.131" X 3.5")	8" o.c.

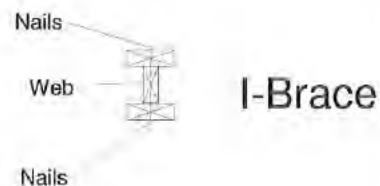
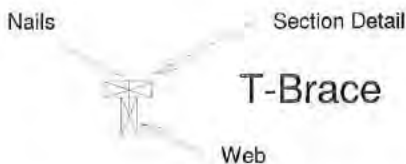
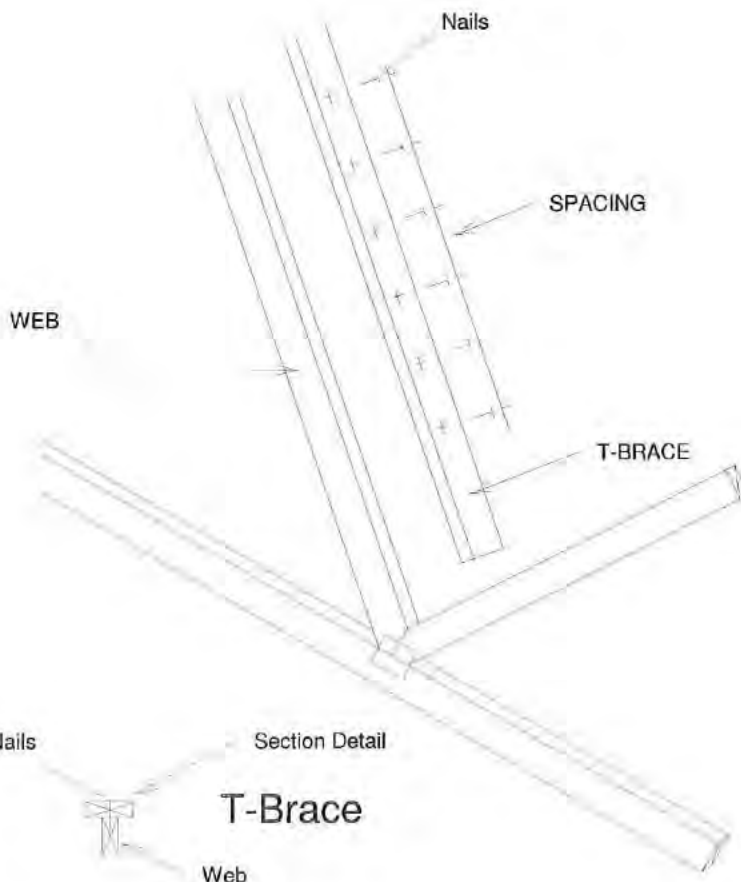
Note: Nail along entire length of T-Brace / I-Brace
(On Two-Ply's Nail to Both Plies)

Brace Size
for One-Ply TrussSpecified Continuous
Rows of Lateral Bracing

Web Size	1	2
2x3 or 2x4	1x4 (*) T-Brace	1x4 (*) I-Brace
2x6	1x6 (*) T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

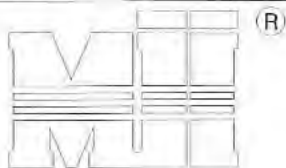
Brace Size
for Two-Ply TrussSpecified Continuous
Rows of Lateral Bracing

Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace



T-Brace / I-Brace must be same species and grade (or better)
(*) NOTE: If SP webs are used in the truss, 1x4 or 1x6 SP braced boards with design values that are equal to (or better) design values.

For SP truss lumber grades up to #2 with 1X_ bracing material
For SP truss lumber grades up to #1 with 1X_ bracing material



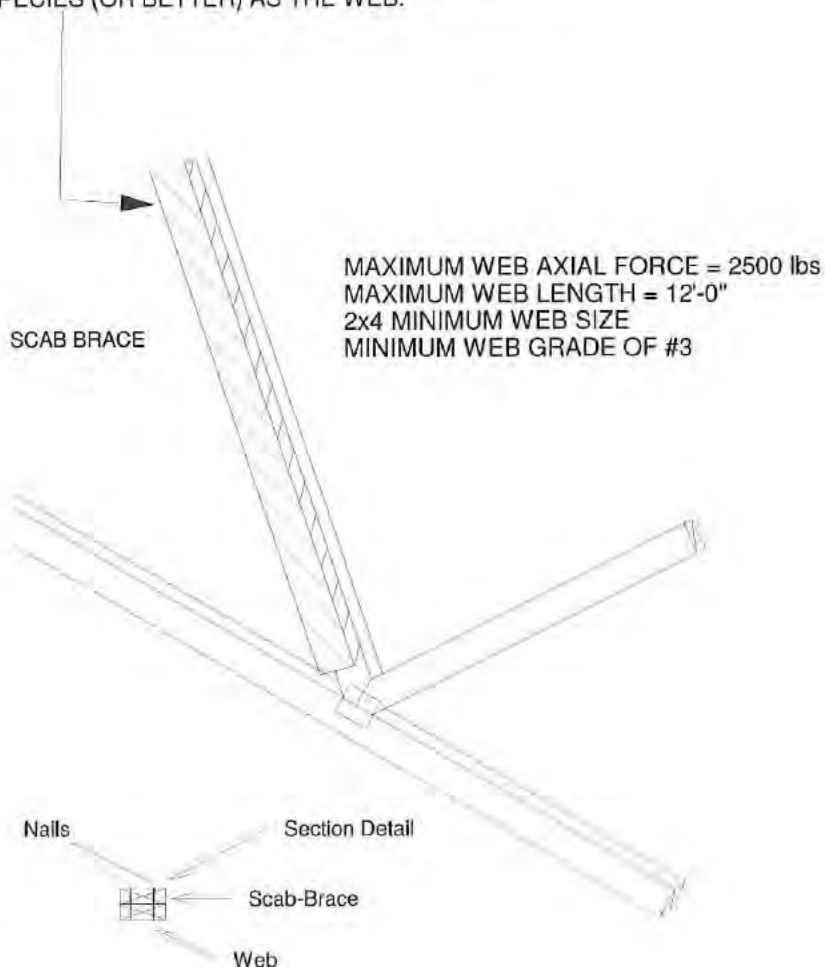
MiTek USA, Inc.

MiTek USA, Inc.
ENGINEERED BY
TRENCO
A MiTek Affiliate

Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.
Scab must cover full length of web +/- 6".

*** THIS DETAIL IS NOT APPLICABLE WHEN BRACING IS ***
REQUIRED AT 1/3 POINTS OR I-BRACE IS SPECIFIED.

APPLY 2x SCAB TO ONE FACE OF WEB WITH
2 ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C.
SCAB MUST BE THE SAME GRADE, SIZE AND
SPECIES (OR BETTER) AS THE WEB.



Scab-Brace must be same species grade (or better) as web member.

Typical Roof Truss Repair Details

MITek USA, Inc.



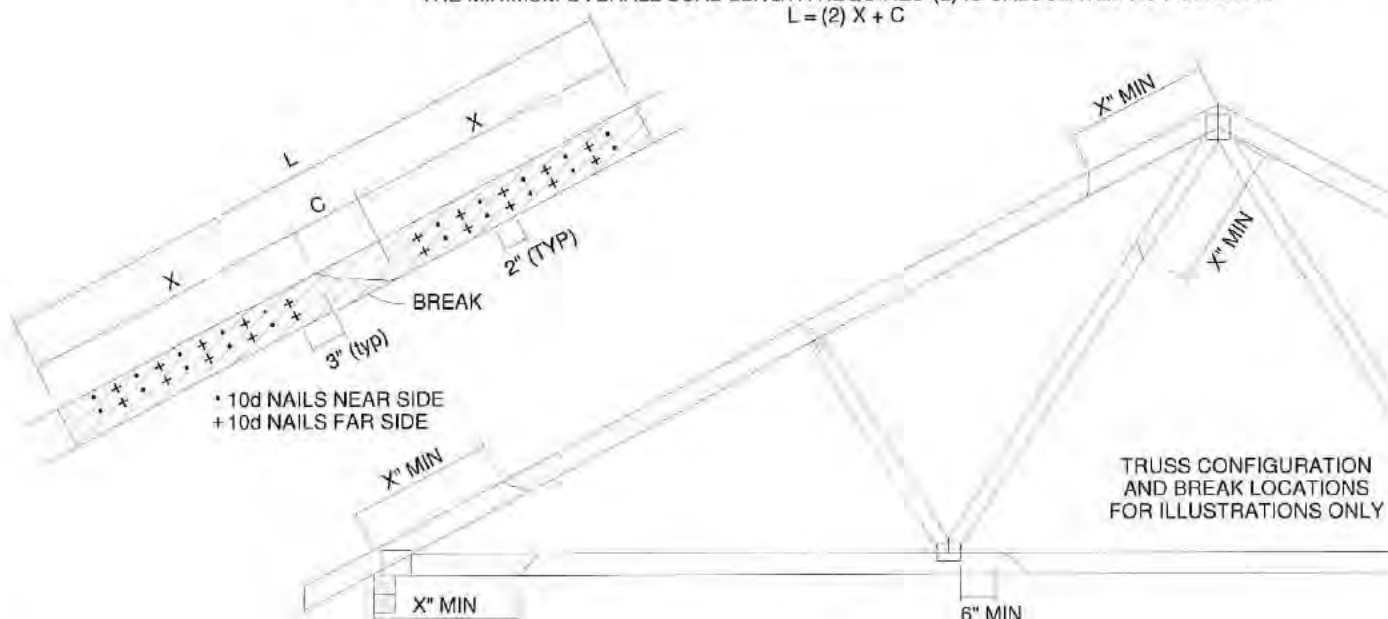
TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *		X INCHES	MAXIMUM FORCE (lbs) 15% LOAD DURATION							
			SP		DF		SPF		HF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187
38	57	42"	3169	4754	2900	4350	2451	3677	2511	3767
44	66	48"	3657	5485	3346	5019	2829	4243	2898	4347

* DIVIDE EQUALLY FRONT AND BACK

ATTACH 2x SCAB OF THE SAME SIZE AND GRADE AS THE BROKEN MEMBER TO EACH FACE OF THE TRUSS (CENTER ON BREAK OR SPLICE) WITH 10d (0.131" X 3") NAILS (TWO ROWS FOR 2x4, THREE ROWS FOR 2x6) SPACED 4" O.C. AS SHOWN. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 0-2-0 O.C. SPACING IN THE MAIN MEMBER. USE A MIN. 0-3-0 MEMBER END DISTANCE.

THE LENGTH OF THE BREAK (C) SHALL NOT EXCEED 12". (C=PLATE LENGTH FOR SPLICE REPAIRS)
THE MINIMUM OVERALL SCAB LENGTH REQUIRED (L) IS CALCULATED AS FOLLOWS:

$$L = (2) X + C$$

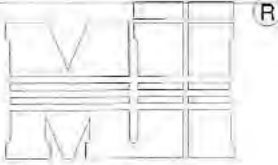


THE LOCATION OF THE BREAK MUST BE GREATER THAN OR EQUAL TO THE REQUIRED X DIMENSION FROM ANY PERIMETER BREAK OR HEEL JOINT AND A MINIMUM OF 6" FROM ANY INTERIOR JOINT (SEE SKETCH ABOVE)

DO NOT USE REPAIR FOR JOINT SPLICES

NOTES:

1. THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.
3. THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
4. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.
5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x ORIENTATION OF THE TRUSS.
6. THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.



MiTek USA, Inc.



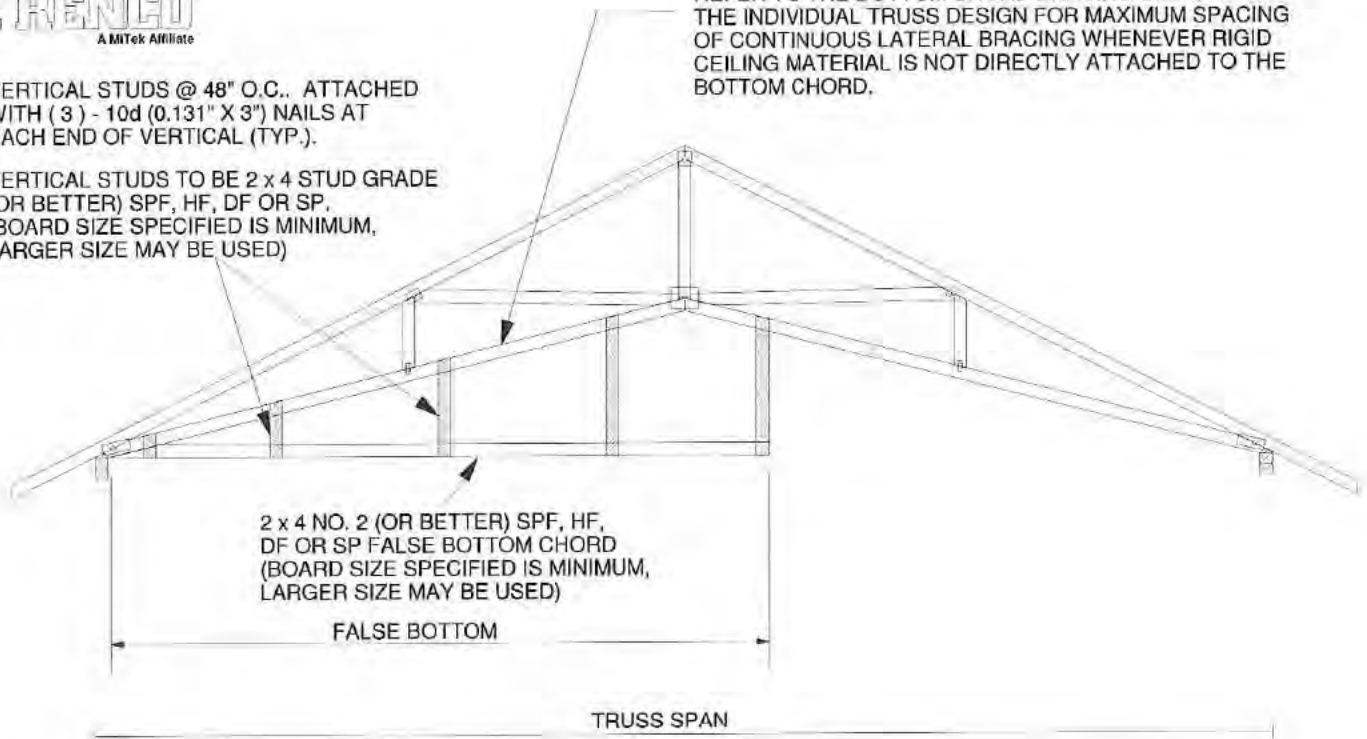
VERTICAL STUDS @ 48" O.C.. ATTACHED
WITH (3) - 10d (0.131" X 3") NAILS AT
EACH END OF VERTICAL (TYP.).

VERTICAL STUDS TO BE 2 x 4 STUD GRADE
(OR BETTER) SPF, HF, DF OR SP,
(BOARD SIZE SPECIFIED IS MINIMUM,
LARGER SIZE MAY BE USED)

MAIN TRUSS MANUFACTURED WITHOUT
FALSE BOTTOM CHORD.

MAIN TRUSS (SPACING = 24" O.C.)

REFER TO THE BOTTOM CHORD BRACING SECTION OF
THE INDIVIDUAL TRUSS DESIGN FOR MAXIMUM SPACING
OF CONTINUOUS LATERAL BRACING WHENEVER RIGID
CEILING MATERIAL IS NOT DIRECTLY ATTACHED TO THE
BOTTOM CHORD.



NOTES:

1. LOADING: TOP CHORD: (REFER TO THE MAIN TRUSS DESIGN FOR TOP CHORD LOADING).
BOTTOM CHORD: LL = 0 PSF, DL = 10 PSF.
2. REFER TO THE MAIN TRUSS DESIGN FOR LUMBER AND PLATING REQUIREMENTS.
3. MAXIMUM BOTTOM CHORD PITCH = 6/12.
4. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.
5. FALSE BOTTOM CHORD ONLY DESIGNED TO CARRY VERTICAL LOAD. NO LATERAL (SHEAR) LOAD ALLOWED.
6. FILLER MAY EXTEND FOR FULL LENGTH OF TRUSS.



MiTek USA, Inc.

 ENGINEERED BY
TRENGO
 A MiTek Affiliate

MiTek USA, Inc.

TRUSS CRITERIA:

LOADING: 40-10-0-10

DURATION FACTOR: 1.15

SPACING: 24" O.C.

TOP CHORD: 2x4 OR 2x6

PITCH: 4/12 - 12/12

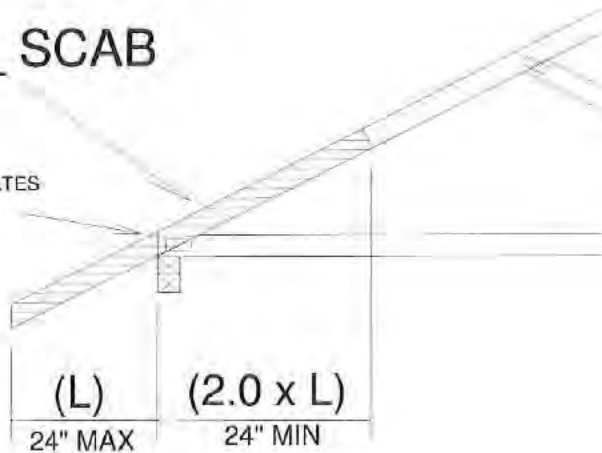
HEEL HEIGHT: STANDARD HEEL UP TO 12" ENERGY HEEL

END BEARING CONDITION

NOTES:

1. ATTACH 2x SCAB (MINIMUM NO.2 GRADE SPF, HF, SP, DF) TO ONE FACE OF TRUSS WITH TWO ROWS OF 10d (0.131" X 3") SPACED 6" O.C.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.

2x SCAB

 CONNECTOR PLATES
 MUST BE FULLY
 IMBEDDED AND
 UNDISTURBED


IMPORTANT

This detail to be used only with trusses (spans less than 40') spaced 24" o.c. maximum and having pitches between 4/12 and 12/12 and total top chord loads not exceeding 50 psf.

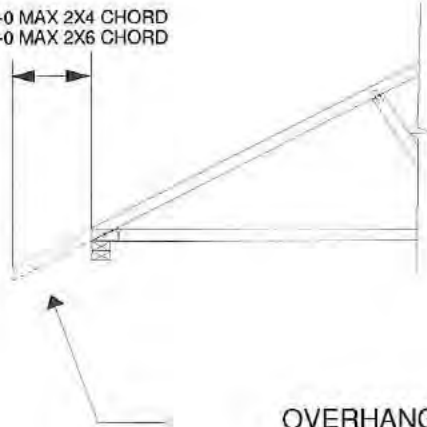
Trusses not fitting these criteria should be examined individually.

 REFER TO INDIVIDUAL TRUSS DESIGN
 FOR PLATE SIZES AND LUMBER GRADES

MiTek USA, Inc.

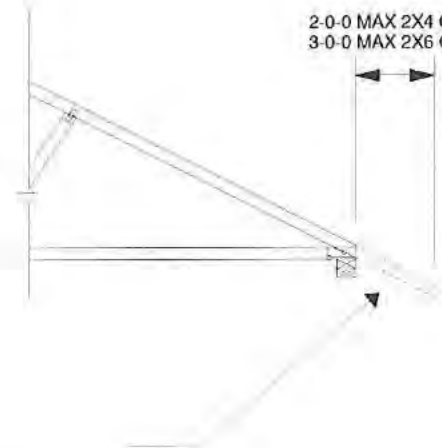


2-0-0 MAX 2X4 CHORD
3-0-0 MAX 2X6 CHORD



MAIN BODY OF TRUSS

2-0-0 MAX 2X4 CHORD
3-0-0 MAX 2X6 CHORD

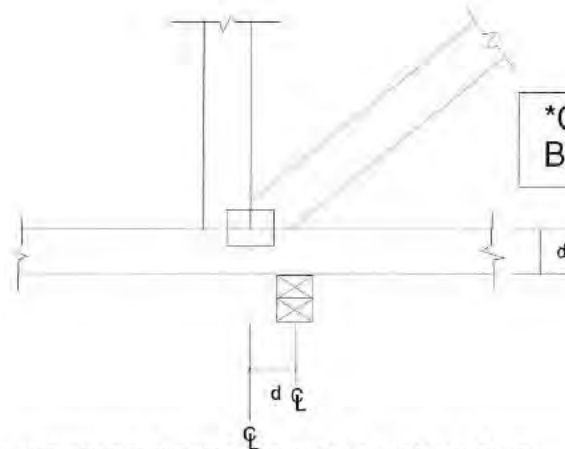


OVERHANG MAY BE REMOVED
PROVIDED PLATES ARE NOT DAMAGED.

NOTES:

- 1) FOR LUMBER SIZE AND GRADE, AND FOR PLATES TYPE AND SIZE AT EACH JOINT REFER TO MAIN TRUSS ENGINEERING DESIGN.
- 2) LOADING: SEE MAIN TRUSS ENGINEERING DESIGN.

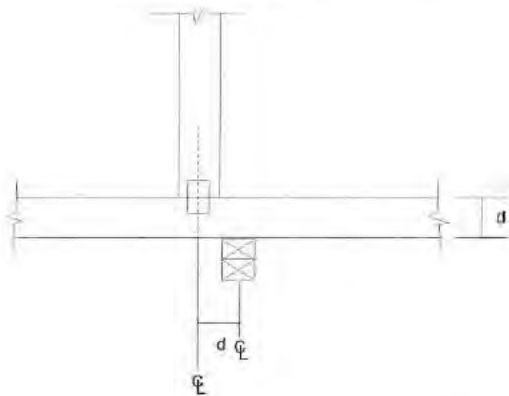
MiTek USA, Inc.



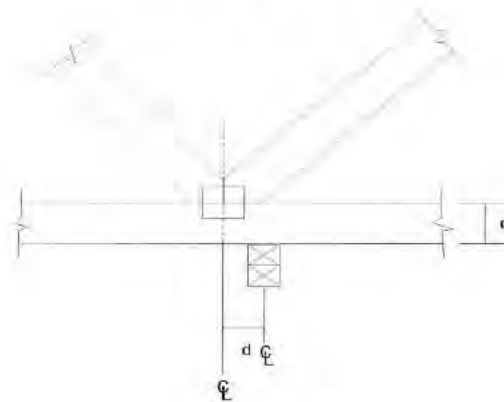
*OFFSET ASSUMES A MINIMUM
BEARING WIDTH OF 3-1/2"

NOTE: INTERIOR BEARINGS MAY SHIFT TO THE
LEFT OR RIGHT A DISTANCE EQUAL TO THE DEPTH
OF THE BOTTOM (d). (7 1/2" MAX)
BOTTOM CHORD PITCH MAY VARY
NOTE: THIS DETAIL MAY BE USED FOR ROOF OR
FLOOR TRUSS DESIGNS

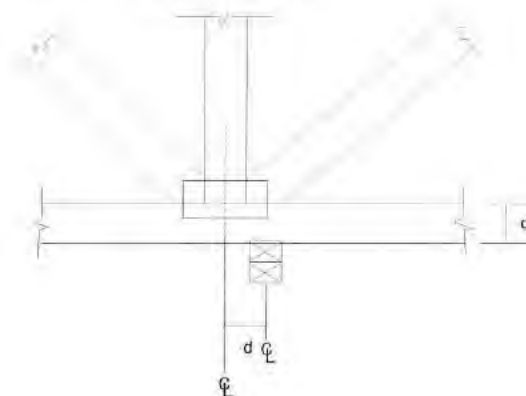
SINGLE WEB JOINT



DOUBLE WEB JOINT

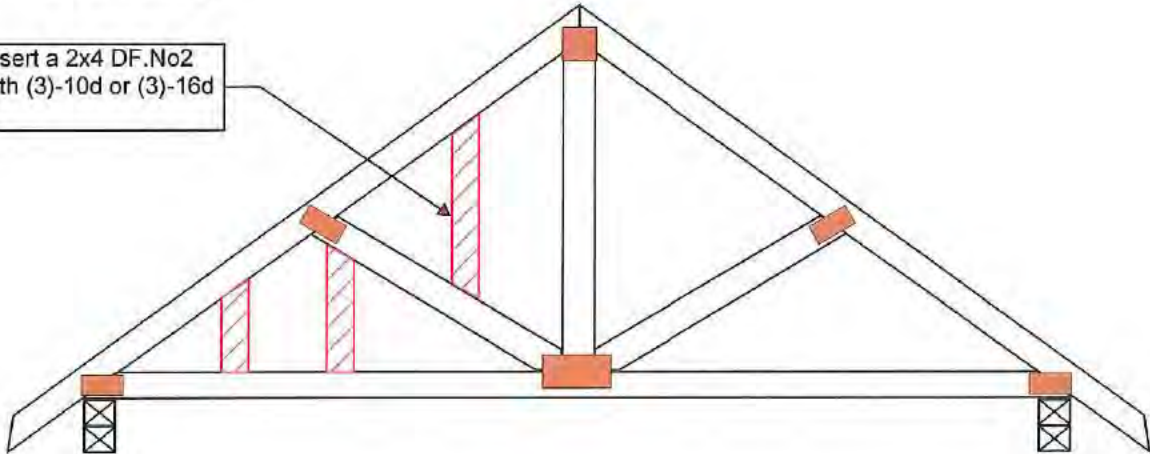


TRIPLE WEB JOINT



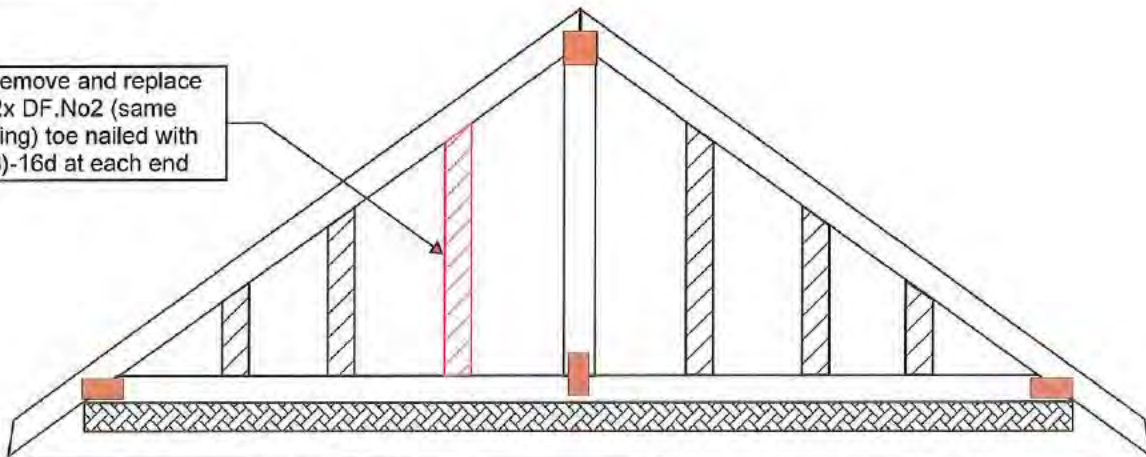
Studs Added for Backing

TYPICAL: Insert a 2x4 DF.No2 toe nailed with (3)-10d or (3)-16d at each end



Broken/Missing Stud

TYPICAL: Remove and replace stud with a 2x DF.No2 (same size as existing) toe nailed with (3)-10d or (3)-16d at each end



NOTE:

1. This a typical repair to be used on full bearing and non full bearing trusses.