



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

RE: 2718981 - DETAILS

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: DETAILS Project Name: N/A Model: N/A
Lot/Block: N/A Subdivision: N/A
Address: N/A, N/A
City: N/A State: N/A

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

Name: License #:
Address: State:
City:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 20 individual, General Truss Details and 0 Additional Drawings.

With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Detail Name	Date	No.	Seal#	Detail Name	Date
1	T23399806	MII-REP10	4/2/21	15	T23399820	MII-VALLEY HIGH WIND2	4/2/21
2	T23399807	MII-T-BRACE 2	4/2/21	16	T23399821	MII-VALLEY SP	4/2/21
3	T23399808	MII-SCAB-BRACE	4/2/21	17	T23399822	MII-VALLEY SP	4/2/21
4	T23399809	MII-REP05	4/2/21	18	T23399823	MII-GE146-001	4/2/21
5	T23399810	MII-GE130-D-SP	4/2/21	19	T23399824	MII-REP13B	4/2/21
6	T23399811	MII-GE130-SP	4/2/21	20	T23399825	MII-STRGBCK	4/2/21
7	T23399812	MII-GE140-001	4/2/21				
8	T23399813	MII-GE170-D-SP	4/2/21				
9	T23399814	MII-GE180-D-SP	4/2/21				
10	T23399815	MII-GE180-D-SP	4/2/21				
11	T23399816	MII-PIGGY-ALT-7-16	4/2/21				
12	T23399817	MII-REP01A1	4/2/21				
13	T23399818	MII-TOENAIL SP	4/2/21				
14	T23399819	MII-VALLEY HIGH WIND1	4/2/21				

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature.

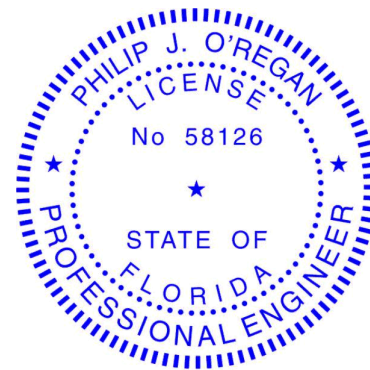
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The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision based on the parameters
provided by Builders FirstSource-Jacksonville.

Truss Design Engineer's Name: ORegan, Philip

My license renewal date for the state of Florida is February 28, 2023.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

April 2, 2021

ORegan, Philip

1 of 1



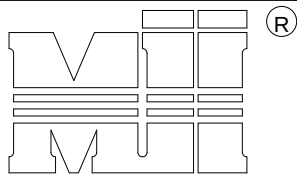
RE: \$JOBNAME - \$JOBDESC

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Tampa, FL 33610-4115

Site Information:

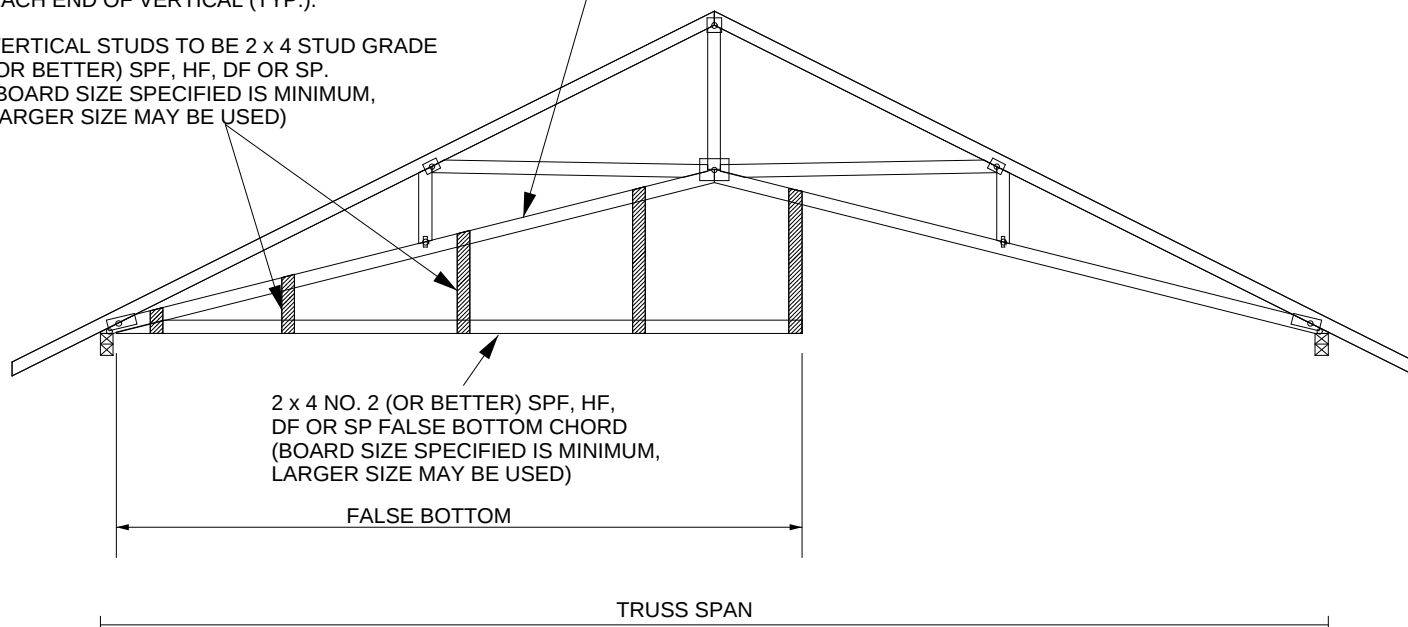
Customer Info: \$SI_CUSTOMER Project Name: \$SI_JOBNAME Model: \$SI_MODEL
Lot/Block: \$SI_LOTNUM Subdivision: \$SI_SUBDIV
Address: \$SI_SITEADDR
City: \$SI_SITECITY State: \$SI_SITESTATE



MiTek USA, Inc.

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.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)

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.

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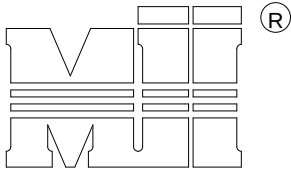
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



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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)		

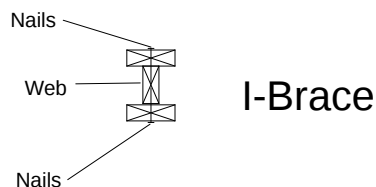
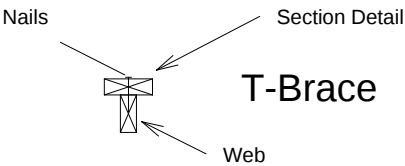
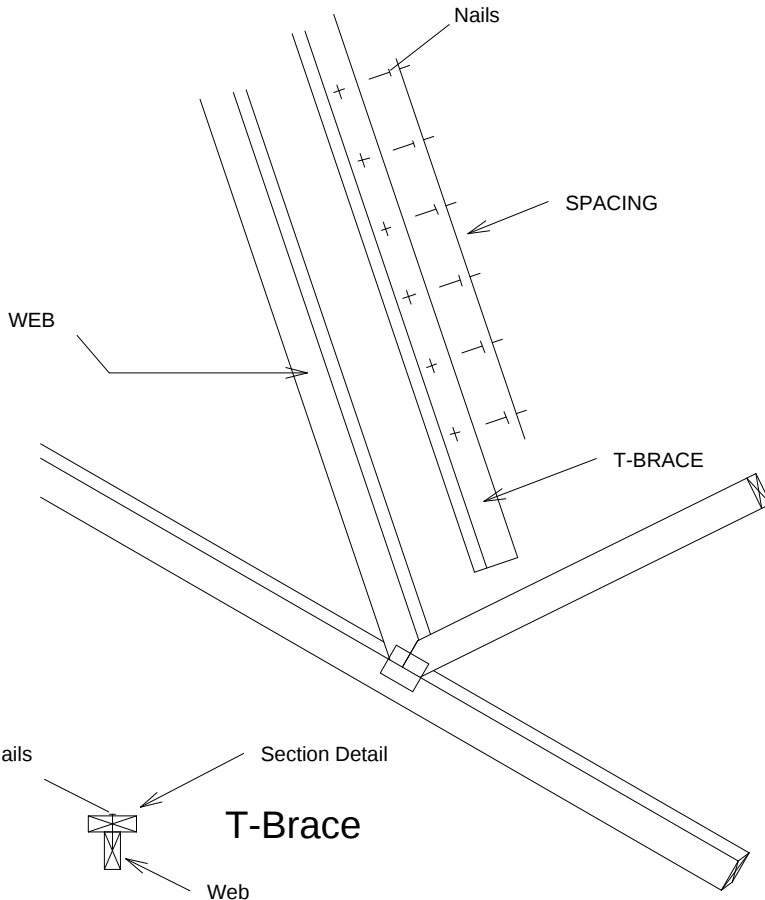
Brace Size
for One-Ply TrussSpecified Continuous
Rows of Lateral Bracing

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.



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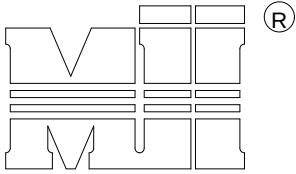
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



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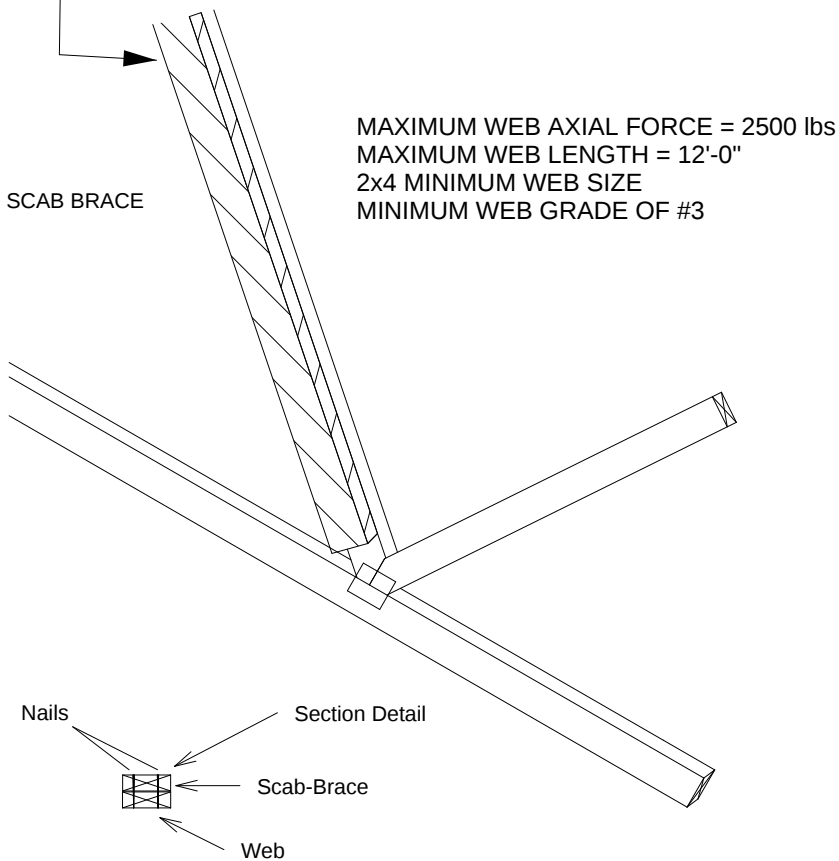
MiTek USA, Inc.

Page 1 of 1

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.

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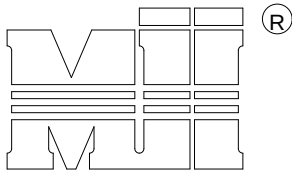
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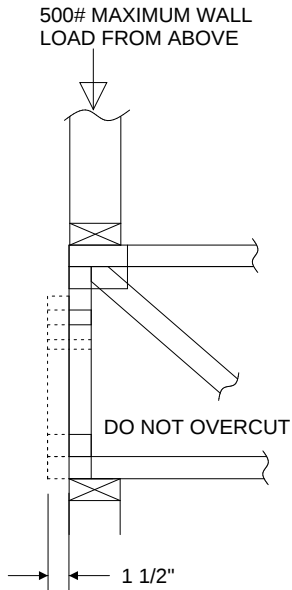


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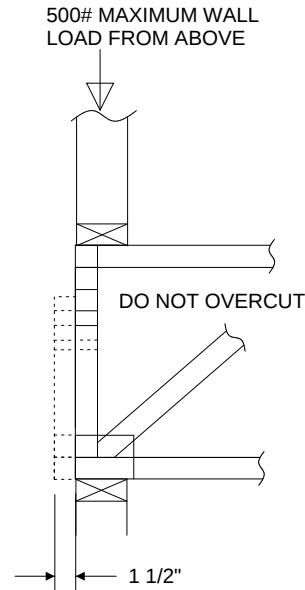


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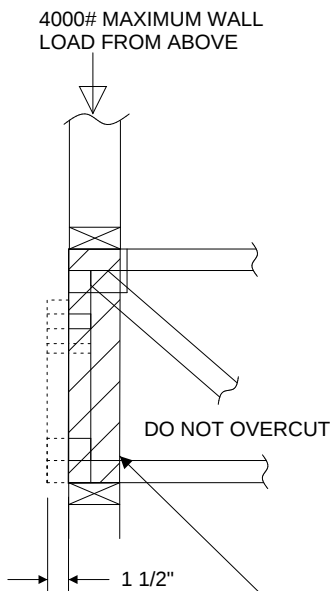
1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS 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 SPLITTING OF THE WOOD.
4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.
5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 4X₂ ORIENTATION ONLY.
6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.



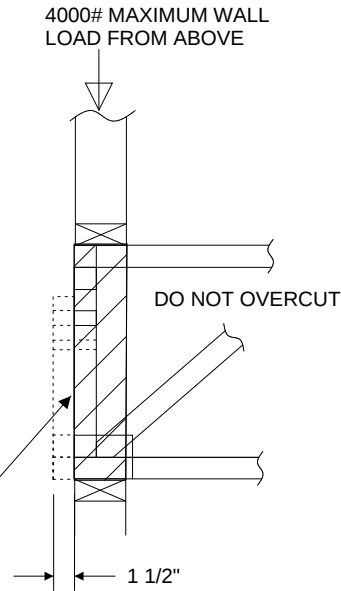
REFER TO INDIVIDUAL
TRUSS DESIGN FOR
PLATE SIZES AND
LUMBER GRADES



TRUSSES BUILT
WITH 4x2 MEMBERS



REFER TO INDIVIDUAL
TRUSS DESIGN FOR
PLATE SIZES AND
LUMBER GRADES



TRUSSES BUILT
WITH 4x2 MEMBERS

ATTACH 2x4 SQUASH BLOCK (CUT TO FIT TIGHTLY)
TO BOTH SIDES OF THE TRUSS AS SHOWN WITH
10d (0.131" X 3") NAILS SPACED 3" O.C.

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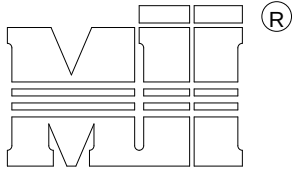
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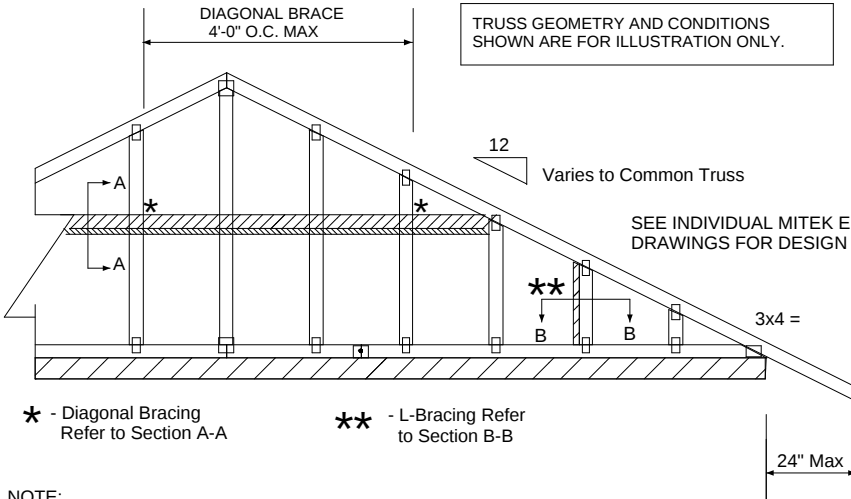
MiTek USA, Inc.

Typical 1x4 L-Brace Nailed To
2x Verticals w/10d Nails spaced 6" o.c.

Vertical Stud

SECTION B-B

TRUSS GEOMETRY AND CONDITIONS
SHOWN ARE FOR ILLUSTRATION ONLY.

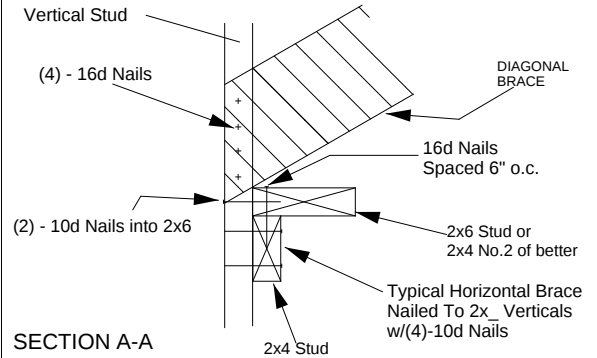


* - Diagonal Bracing
Refer to Section A-A

** - L-Bracing Refer
to Section B-B

NOTE:

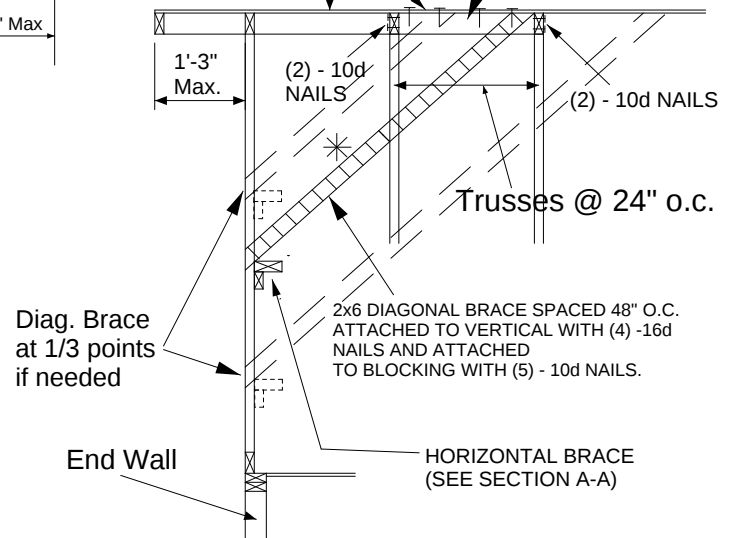
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF 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. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")



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 SPF BLOCK

Roof Sheathing



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 SP No. 3 / Stud	12" O.C.	3-9-13	4-1-1	5-9-6	7-1-3	11-5-7
2x4 SP No. 3 / Stud	16" O.C.	3-5-4	3-6-8	5-0-2	6-10-8	10-3-13
2x4 SP No. 3 / Stud	24" O.C.	2-9-11	2-10-11	4-1-1	5-7-6	8-5-1

- * 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 diagonal brace 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 D
ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH
ASCE 7-10, ASCE 7-16 160 MPH
DURATION OF LOAD INCREASE 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
CONNECTION OF BRACING IS BASED ON MWFRS.

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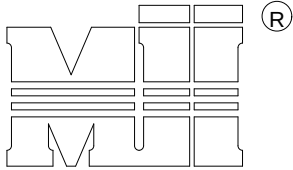
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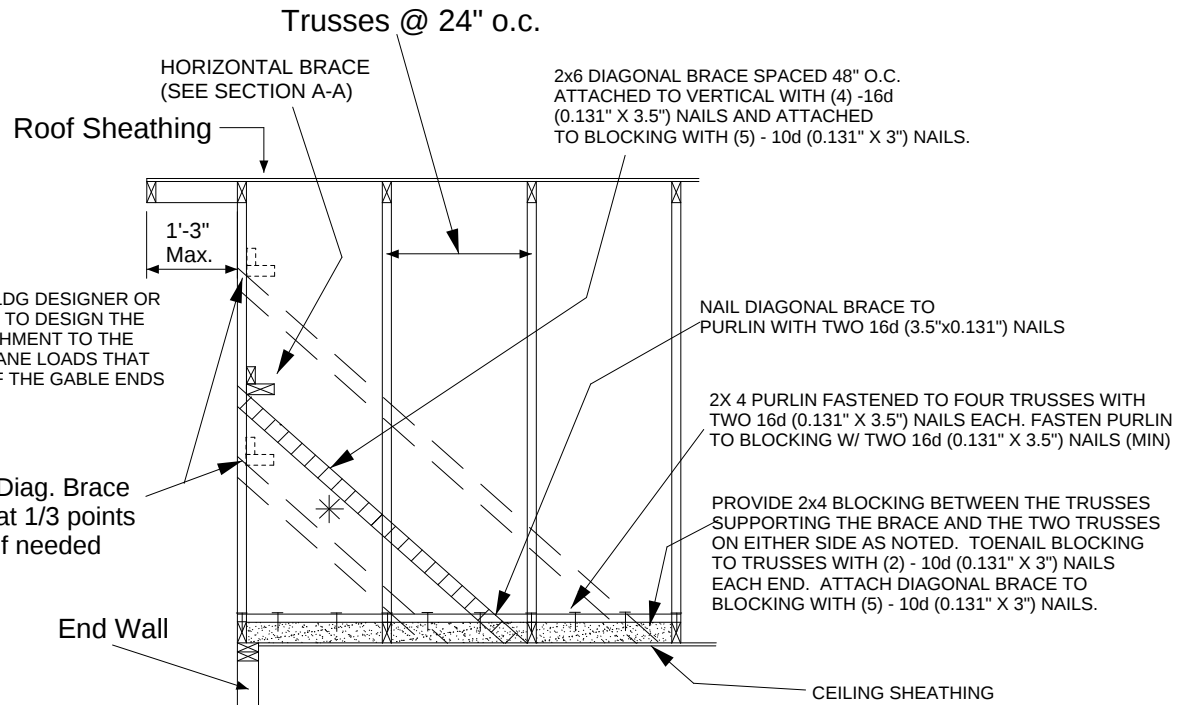


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MiTek USA, Inc.

ALTERNATE DIAGONAL BRACING TO THE BOTTOM CHORD



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

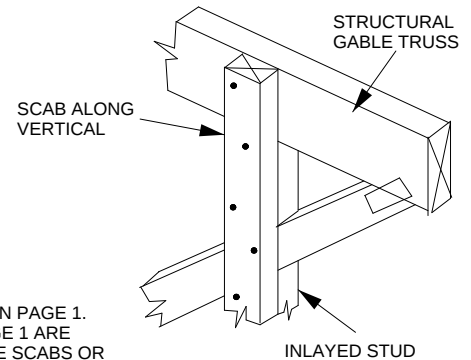
STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED:

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:

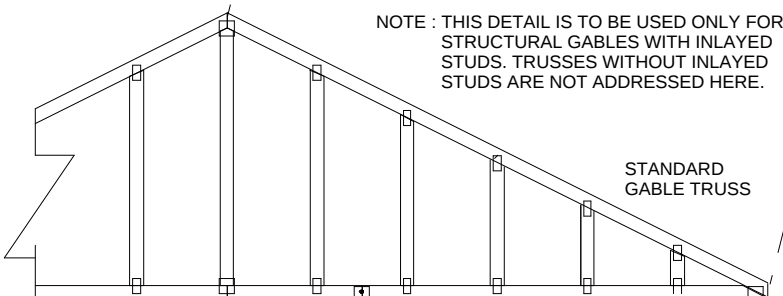
- FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C.
- FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (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.



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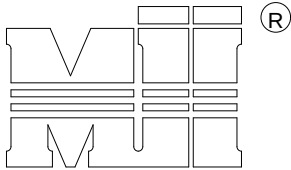
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

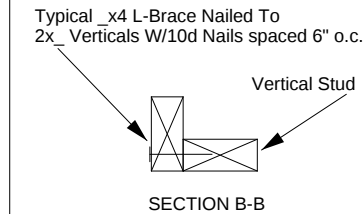
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



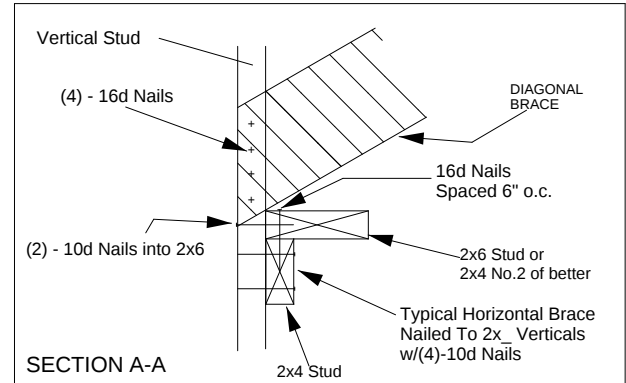
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Tampa, FL 36610



MiTek USA, Inc.



SECTION B-B



SECTION A-A

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.

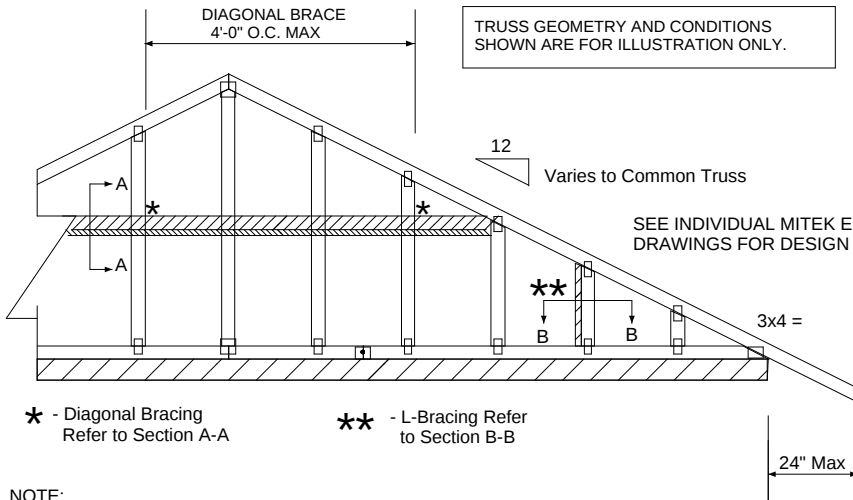
(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing

Diag. Brace at 1/3 points if needed

End Wall

HORIZONTAL BRACE (SEE SECTION A-A)



* - Diagonal Bracing Refer to Section A-A

** - L-Bracing Refer to Section B-B

- 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. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
 11. 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
		Maximum Stud Length				
2x4 SP No. 3 / Stud	12" O.C.	4-0-7	4-5-6	6-3-8	8-0-15	12-1-6
2x4 SP No. 3 / Stud	16" O.C.	3-8-0	3-10-4	5-5-6	7-4-1	11-0-1
2x4 SP No. 3 / Stud	24" O.C.	3-0-10	3-1-12	4-5-6	6-1-5	9-1-15

- * 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 diagonal brace 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 7-05 130 MPH
ASCE 7-10, ASCE 7-16 160 MPH
DURATION OF LOAD INCREASE = 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
CONNECTION OF BRACING IS BASED ON MWPRS.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

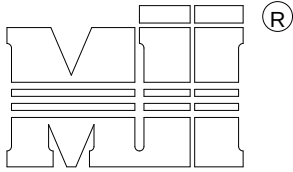
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April 2, 2021

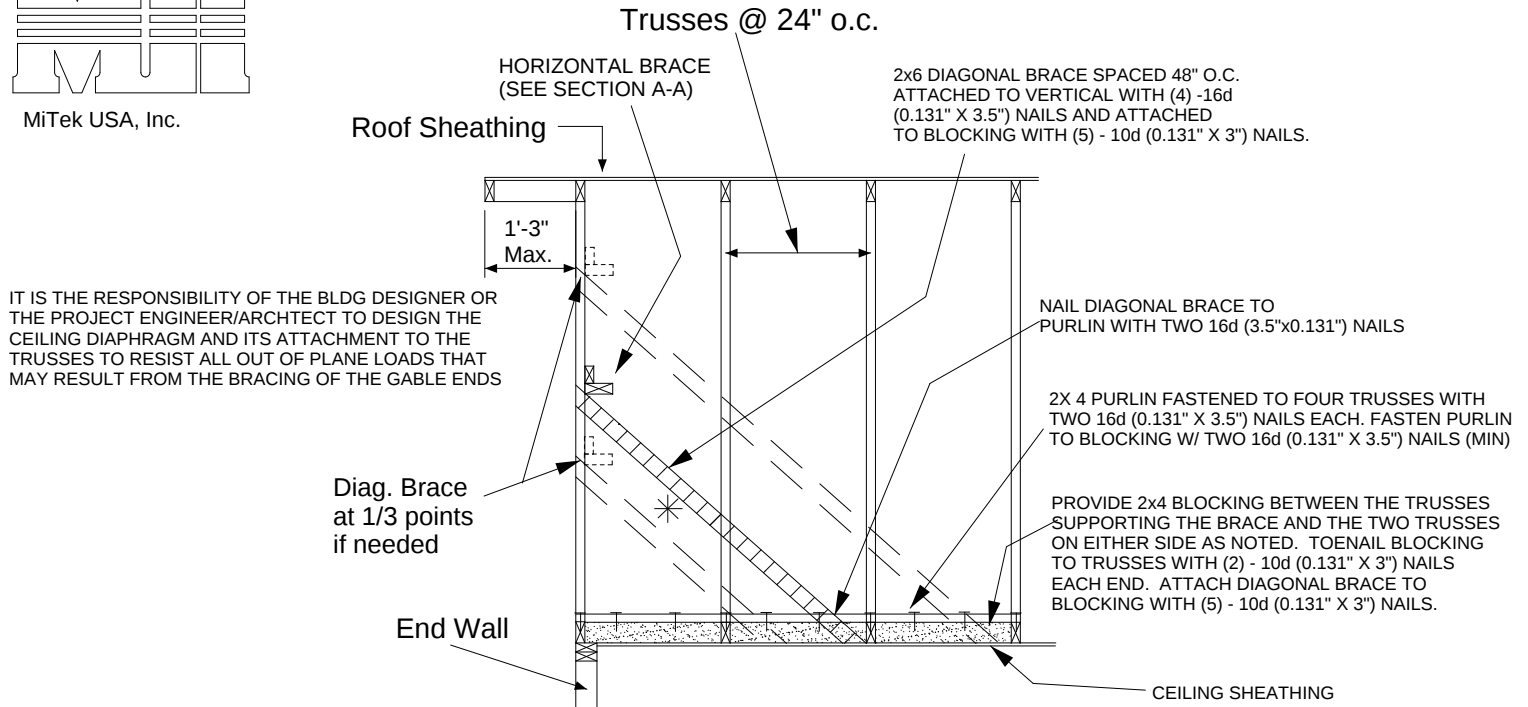


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MiTek USA, Inc.

ALTERNATE DIAGONAL BRACING TO THE BOTTOM CHORD



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

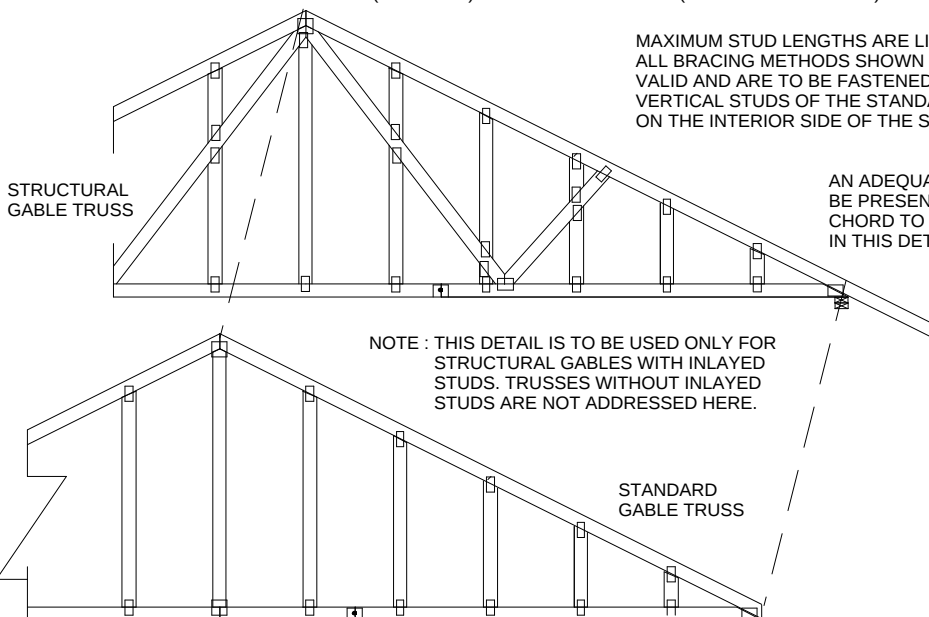
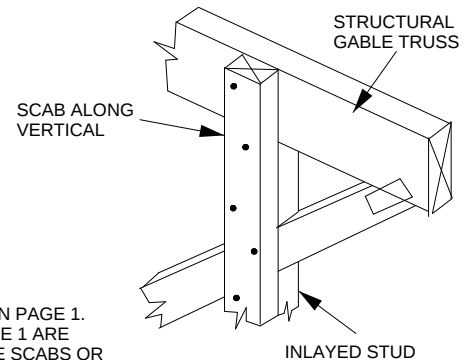
STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED:

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.

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 INLAYED STUDS. TRUSSES WITHOUT INLAYED STUDS ARE NOT ADDRESSED HERE.

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Date:

April 2, 2021

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



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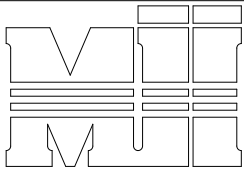
JANUARY 6, 2017

Standard Gable End Detail

MII-GE140-001
T23399812

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Page 1 of 2



MiTek USA, Inc.

Typical 1x4 L-Brace Nailed To
2x Verticals W/10d Nails spaced 6" o.c.

Vertical Stud

SECTION B-B

TRUSS GEOMETRY AND CONDITIONS
SHOWN ARE FOR ILLUSTRATION ONLY.DIAGONAL BRACE
4'-0" O.C. MAX12
Varies to Common TrussSEE INDIVIDUAL MITTEK ENGINEERING
DRAWINGS FOR DESIGN CRITERIA

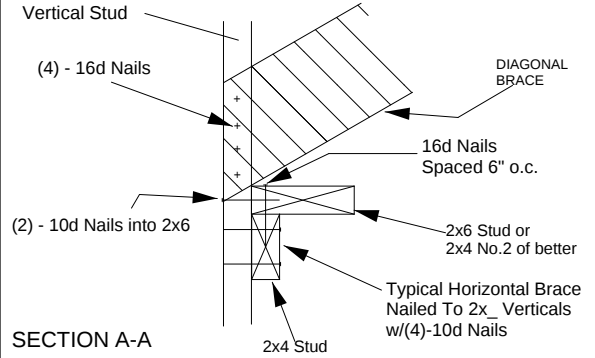
3x4 =

24" Max

* - Diagonal Bracing
Refer to Section A-A** - L-Bracing Refer
to Section B-B

NOTE:

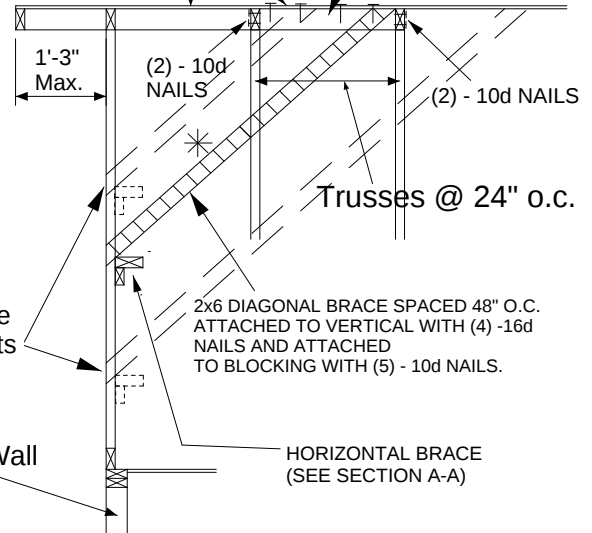
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF 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")



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



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Date:

April 2, 2021

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
		Maximum Stud Length				
2x4 DF/SPF Std/Stud	12" O.C.	3-10-1	3-11-7	5-7-2	7-8-2	11-6-4
2x4 DF/SPF Std/Stud	16" O.C.	3-3-14	3-5-1	4-10-2	6-7-13	9-11-11
2x4 DF/SPF Std/Stud	24" O.C.	2-8-9	2-9-8	3-11-7	5-5-2	8-1-12

- * 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.

MAXIMUM WIND SPEED = 140 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C

ASCE 7-98, ASCE 7-02, ASCE 7-05

DURATION OF LOAD INCREASE = 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.

CONNECTION OF BRACING IS BASED ON MWPRS 473 rev. 5/19/2020 BEFORE USE.

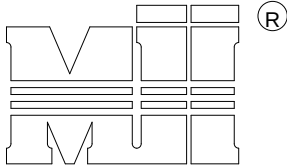
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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

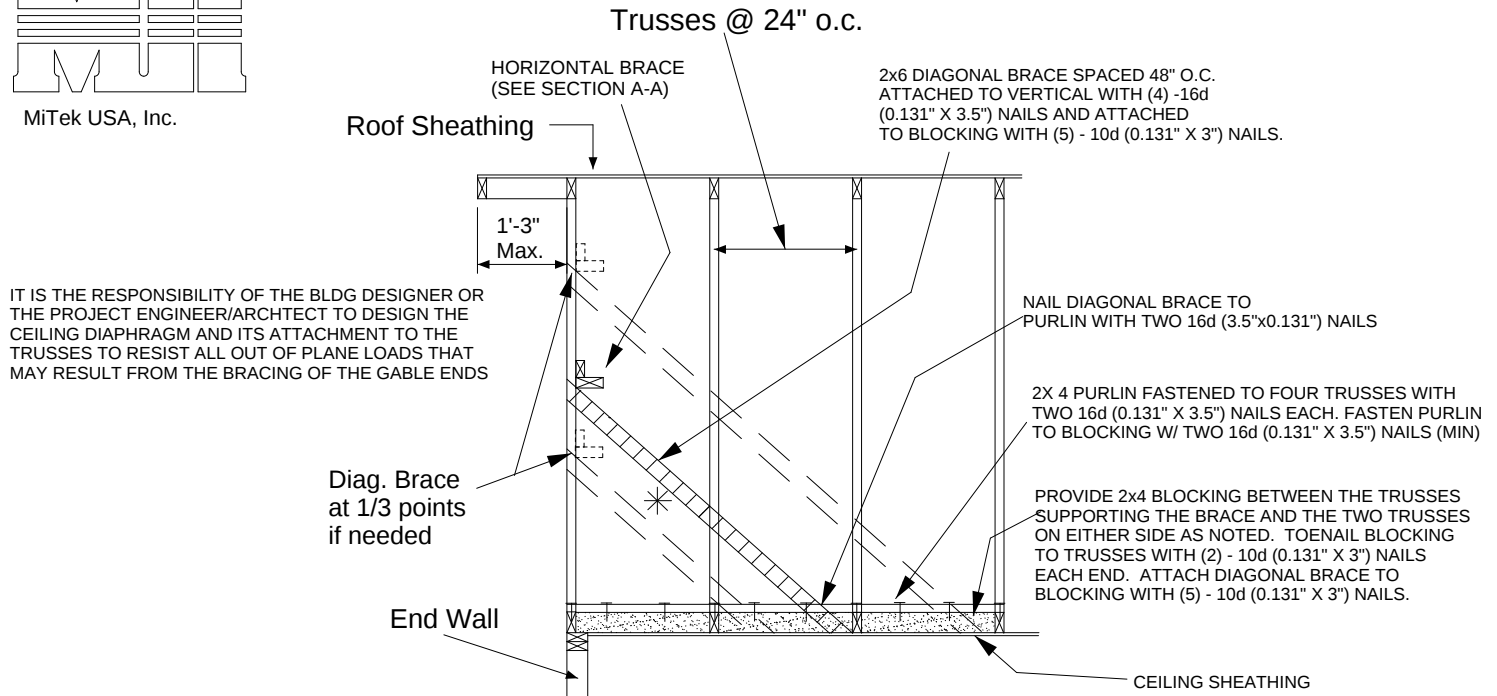


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MiTek USA, Inc.

ALTERNATE DIAGONAL BRACING TO THE BOTTOM CHORD



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

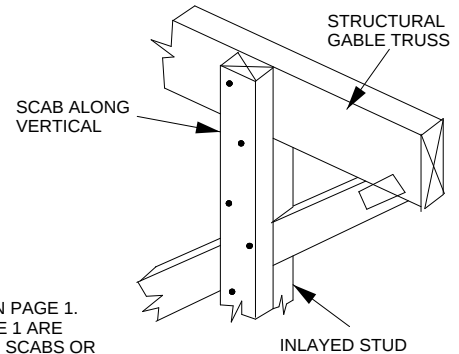
STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED:

METHOD 1 : ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE FOLLOWING NAILING SCHEDULE.

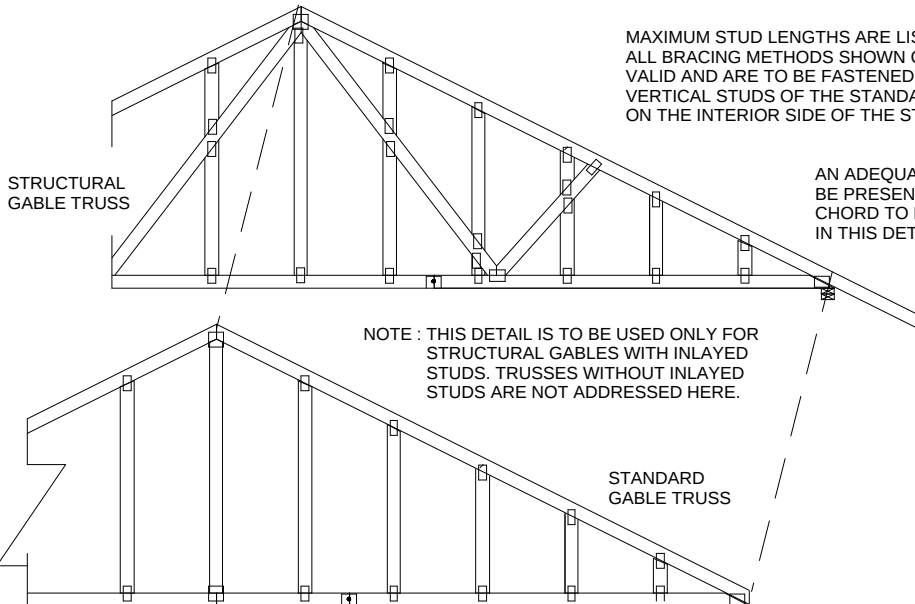
METHOD 2 : ATTACH 2X 4 SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

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.



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.

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April 2, 2021

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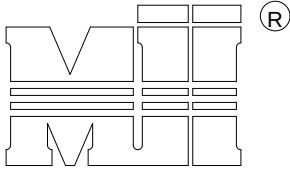
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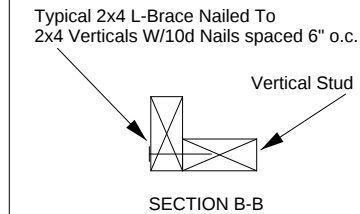
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



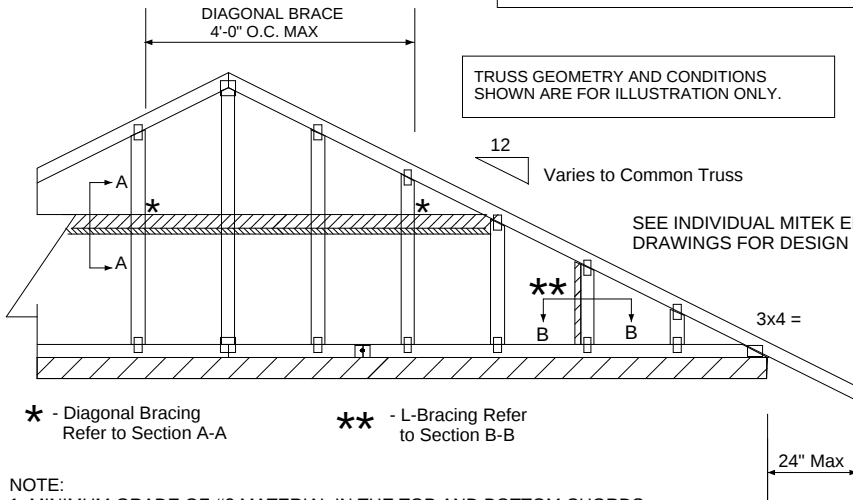
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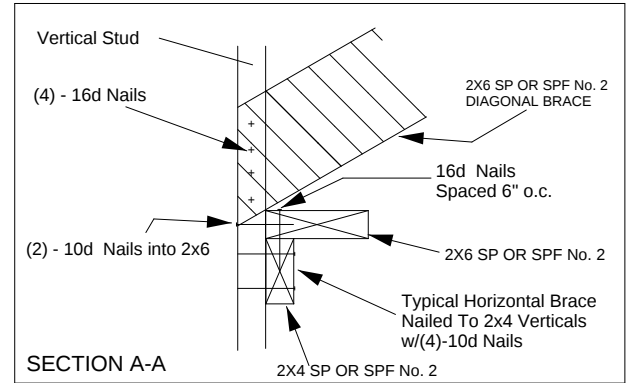


SECTION B-B

TRUSS GEOMETRY AND CONDITIONS
SHOWN ARE FOR ILLUSTRATION ONLY.12
Varies to Common TrussSEE INDIVIDUAL MITEK ENGINEERING
DRAWINGS FOR DESIGN CRITERIA* - Diagonal Bracing
Refer to Section A-A** - L-Bracing Refer
to Section B-B

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, SPF or SP No.3 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 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE 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. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")



SECTION A-A

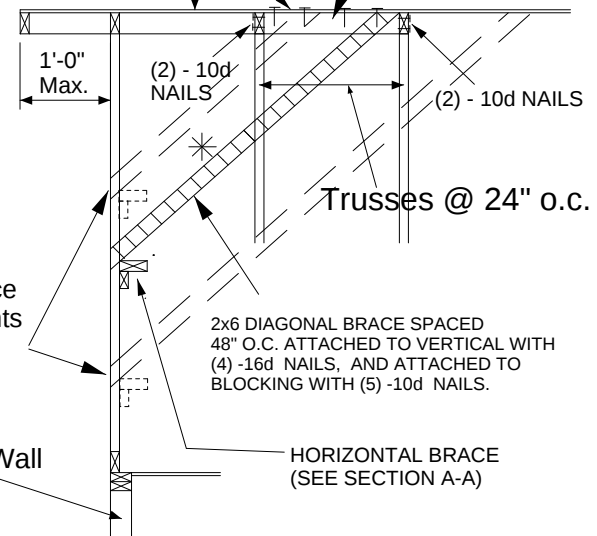
PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing

Diag. Brace
at 1/3 points
if needed

End Wall



Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length			
2x4 SP No. 3 / Stud	12" O.C.	3-9-7	5-8-8	6-11-1	11-4-4
2x4 SP No. 3 / Stud	16" O.C.	3-4-12	4-11-15	6-9-8	10-2-3
2x4 SP No. 3 / Stud	24" O.C.	2-9-4	4-0-7	5-6-8	8-3-13
2x4 SP No. 2	12" O.C.	3-11-13	5-8-8	6-11-1	11-11-7
2x4 SP No. 2	16" O.C.	3-7-7	4-11-5	6-11-1	10-10-5
2x4 SP No. 2	24" O.C.	3-1-15	4-0-7	6-3-14	9-5-14

- * 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 diagonal brace with 10d nails 6" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

MAX MEAN ROOF HEIGHT = 30 FEET
EXPOSURE DASCE 7-10, ASCE 7-16 170 MPH
DURATION OF LOAD INCREASE : 1.60STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
CONNECTION OF BRACING IS BASED ON MWFRS.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIP-743 rev. 5/19/2020 BEFORE USE.

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

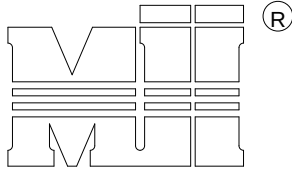
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Date:

April 2, 2021

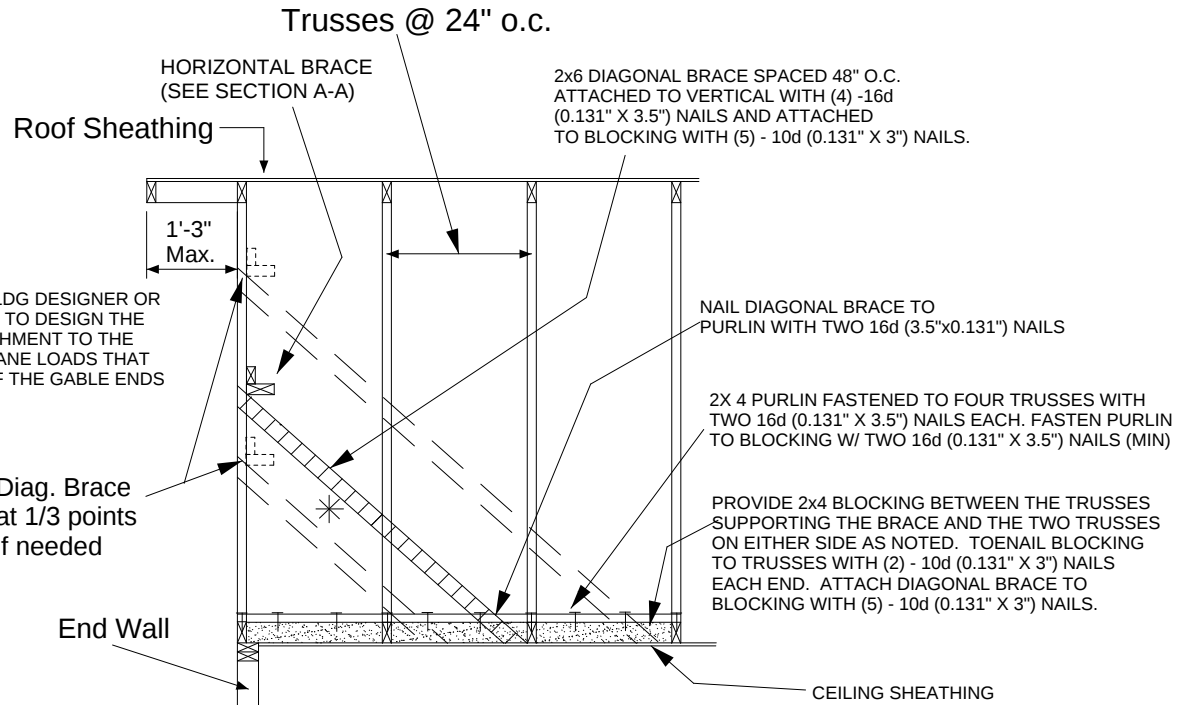


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MiTek USA, Inc.

ALTERNATE DIAGONAL BRACING TO THE BOTTOM CHORD



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

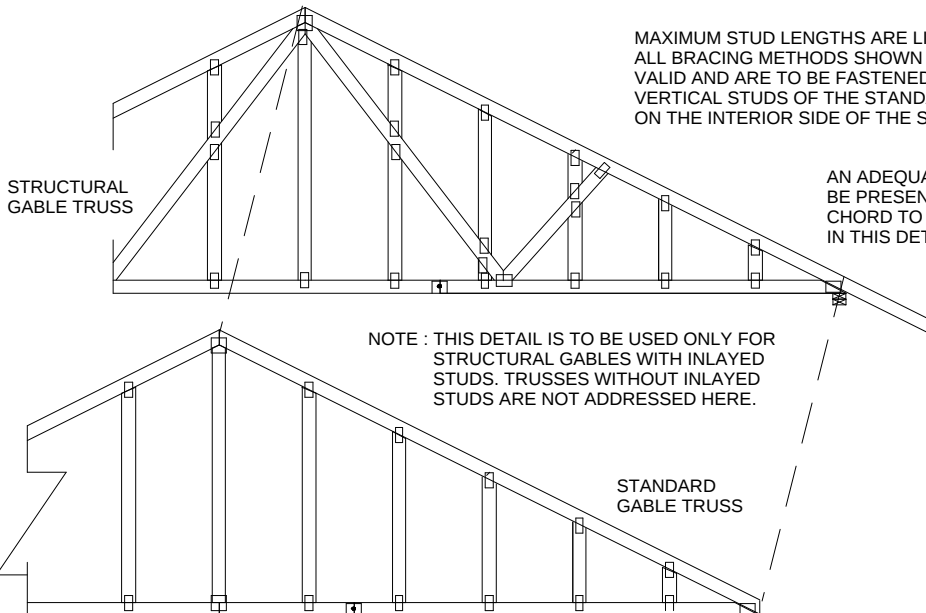
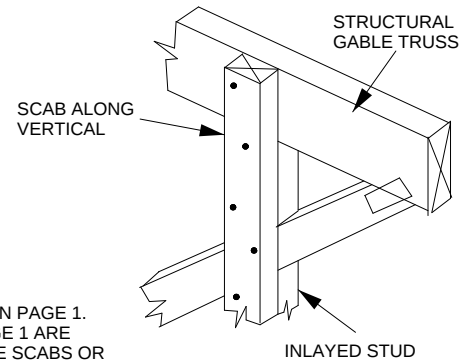
STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED:

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.

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.

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Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
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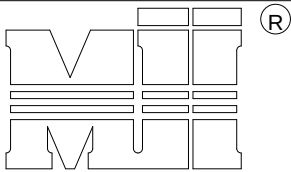
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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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



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MiTek USA, Inc.

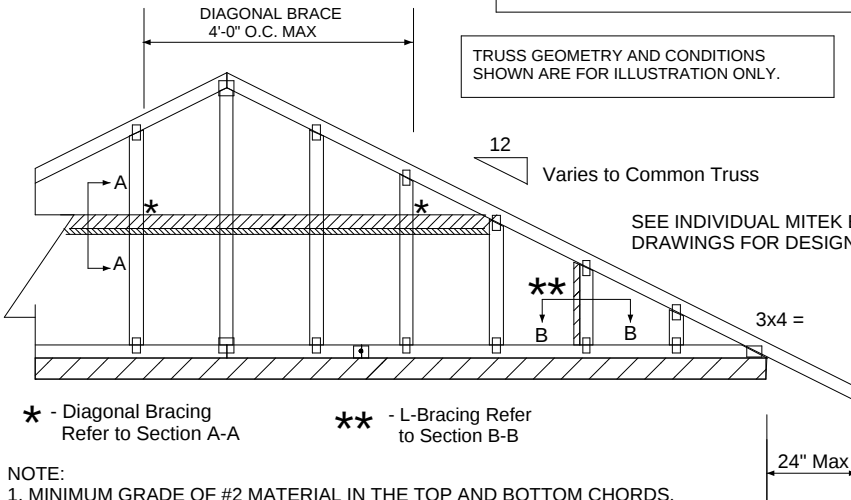
Typical 2x4 L-Brace Nailed To
2x4 Verticals w/10d Nails spaced 6" o.c.

Vertical Stud

SECTION B-B

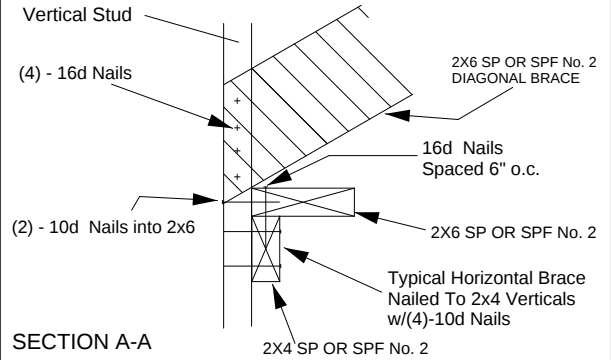
TRUSS GEOMETRY AND CONDITIONS
SHOWN ARE FOR ILLUSTRATION ONLY.

Varies to Common Truss

SEE INDIVIDUAL MITTEK ENGINEERING
DRAWINGS FOR DESIGN CRITERIA* - Diagonal Bracing
Refer to Section A-A** - L-Bracing Refer
to Section B-B

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, SPF or SP No.3 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 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE 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. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")



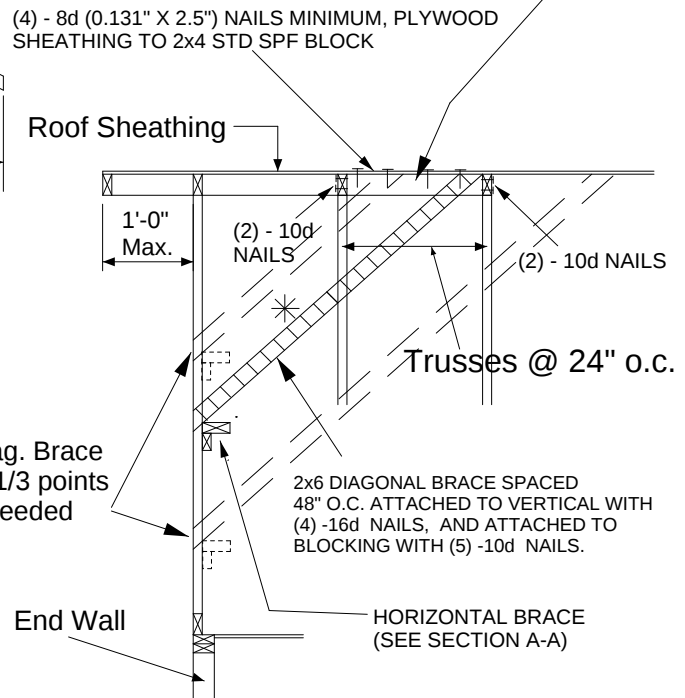
PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing

Diag. Brace
at 1/3 points
if needed

End Wall



Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
2x4 SP No. 3 / Stud	12" O.C.	3-7-12	5-4-11	6-2-1	10-11-3
2x4 SP No. 3 / Stud	16" O.C.	3-2-8	4-8-1	6-2-1	9-7-7
2x4 SP No. 3 / Stud	24" O.C.	2-7-7	3-9-12	5-2-13	7-10-4
2x4 SP No. 2	12" O.C.	3-10-0	5-4-11	6-2-1	11-6-1
2x4 SP No. 2	16" O.C.	3-5-13	4-8-1	6-2-1	10-5-7
2x4 SP No. 2	24" O.C.	3-0-8	3-9-12	6-1-1	9-1-9

- * 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 diagonal brace with 10d nails 6in o.c., with 3in minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

MAX MEAN ROOF HEIGHT = 30 FEET
EXPOSURE D

ASCE 7-10, ASCE 7-16 180 MPH
DURATION OF LOAD INCREASE = 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
CONNECTION OF BRACING IS BASED ON MWFRS.

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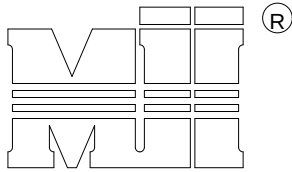
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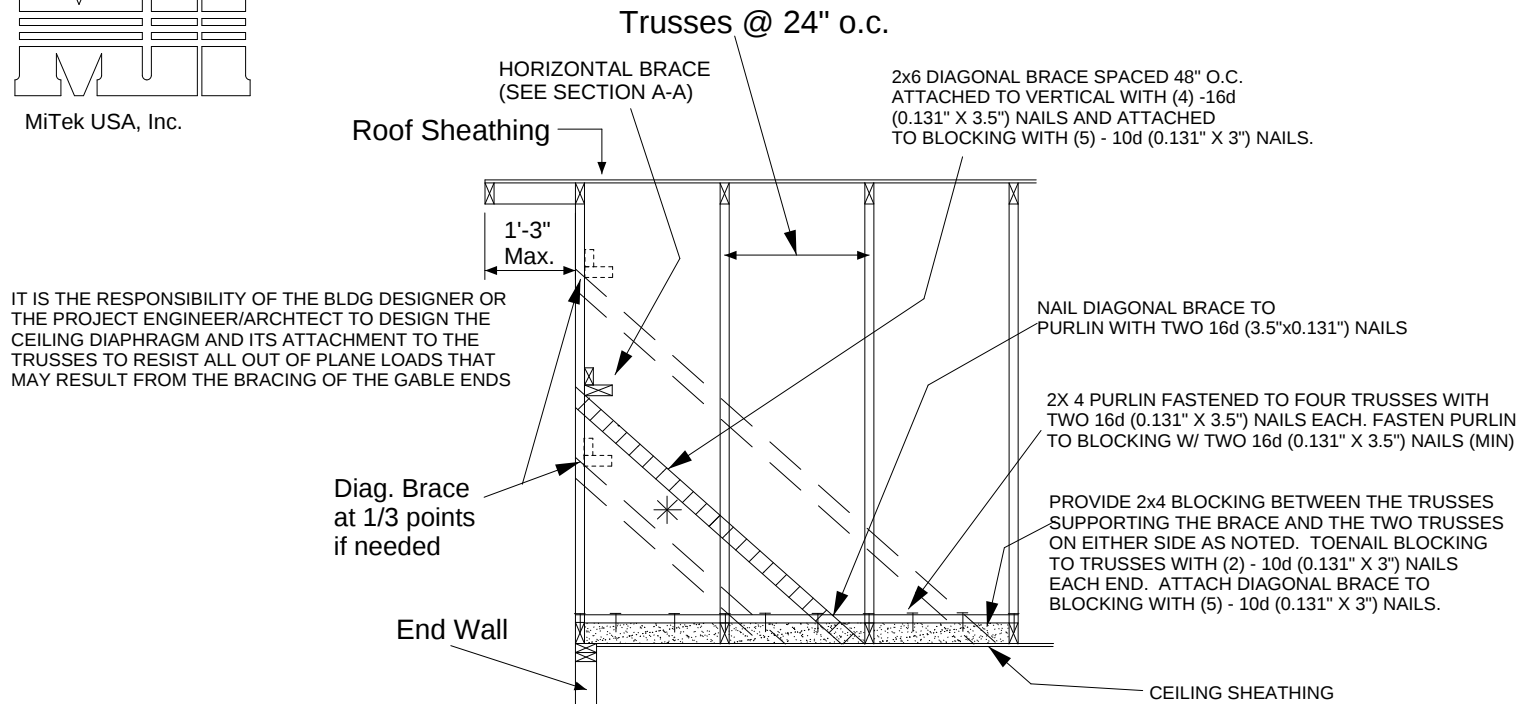


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ALTERNATE DIAGONAL BRACING TO THE BOTTOM CHORD



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

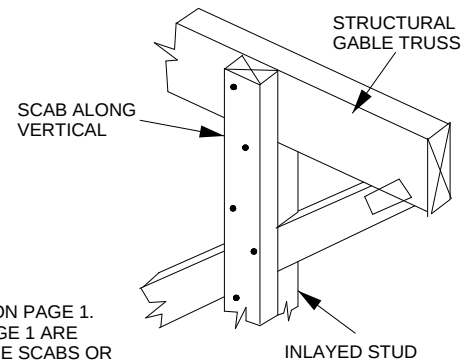
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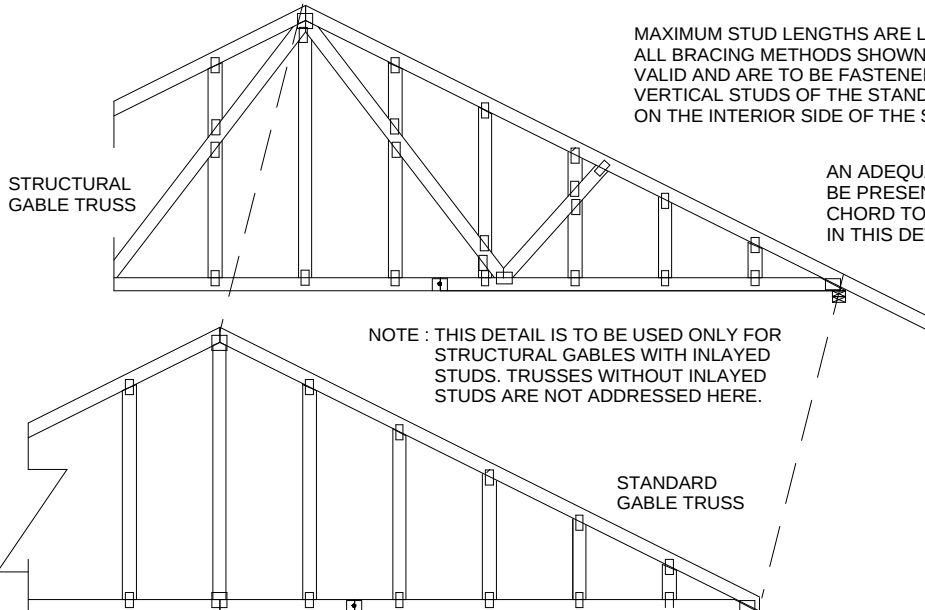
METHOD 2 : ATTACH 2X _ SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

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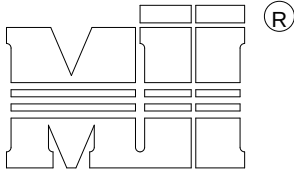
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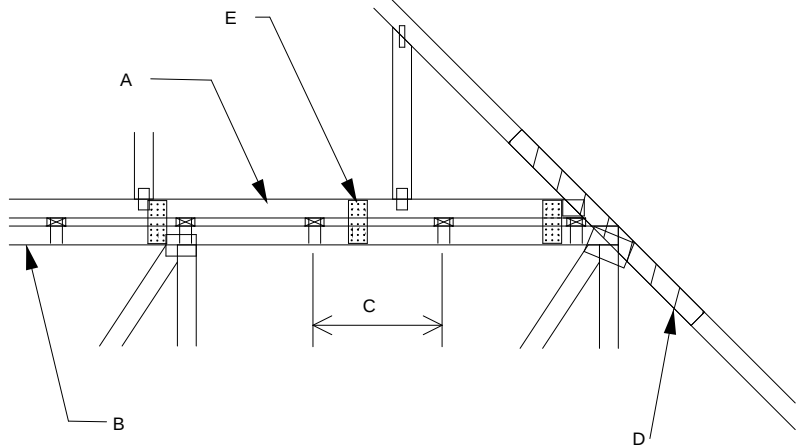


MiTek USA, Inc.

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
 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.

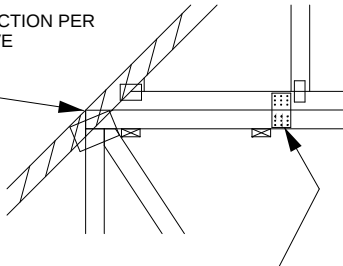
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- B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
- C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
- D - 2 X ____ X 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)



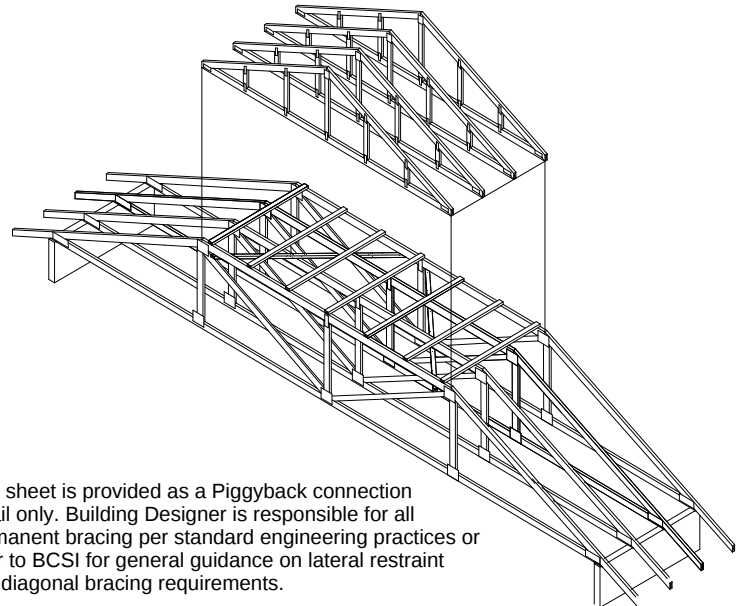
WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

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

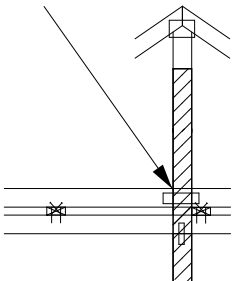


FOR ALL WIND SPEEDS, ATTACH MITEK NP37 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) (0.131" X 1.5") PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" NAIL EDGE DISTANCE.



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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.

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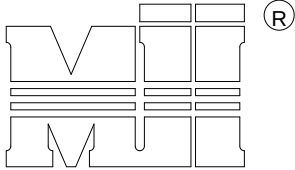
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JANUARY 8, 2019

STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-ALT-7-16
T23399816

MiTek USA, Inc. Page 1 of 1

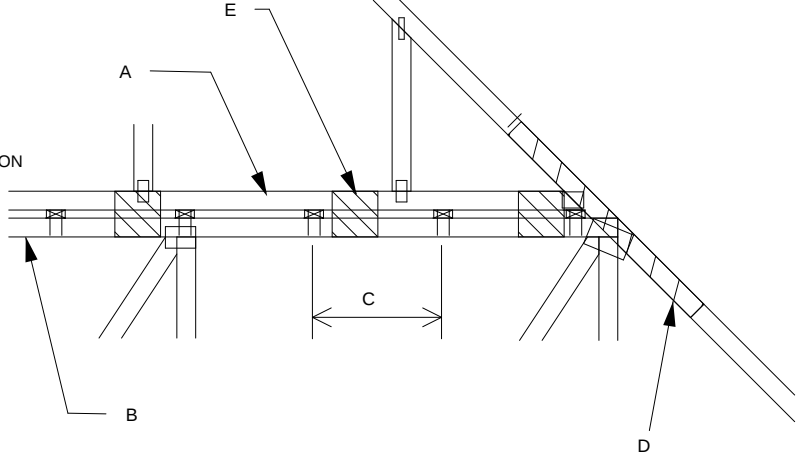


MiTek USA, Inc.

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

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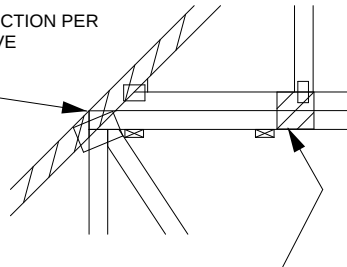
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1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR
 2. WIND SPEED OF 116 MPH TO 180 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.
- E - FOR WIND SPEED IN THE RANGE 116 MPH - 180 MPH ADD 9' x 9' x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 48" O.C. OR LESS. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)



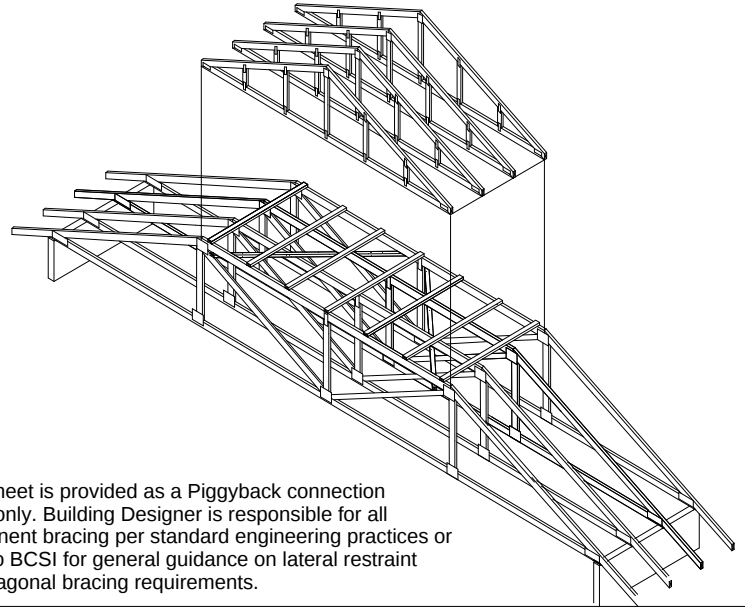
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SCAB CONNECTION PER
NOTE D ABOVE

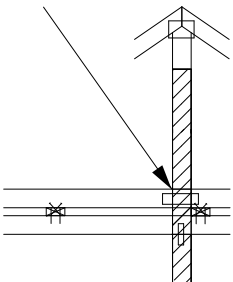


7" x 7" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 24" O.C. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)



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VERTICAL WEB TO
EXTEND THROUGH
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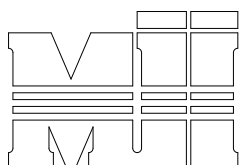
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Tampa, FL 36610



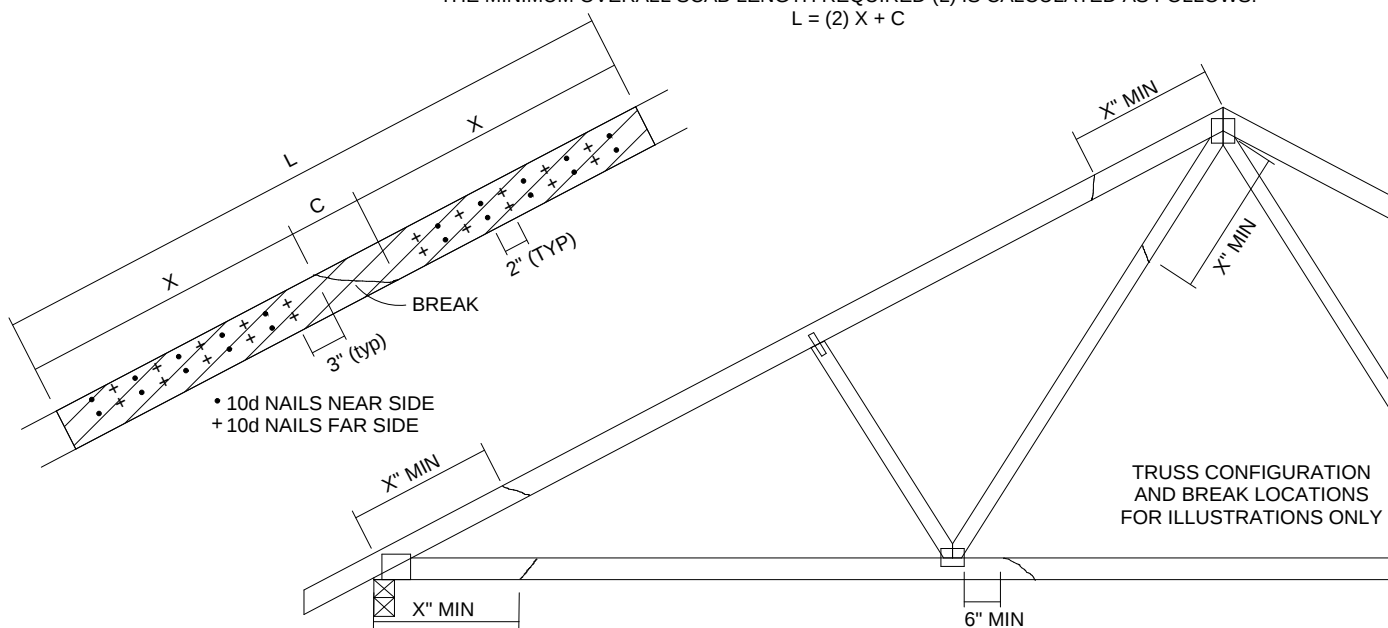
MiTek USA, Inc.

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 ONLY.
6. THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.

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April 2, 2021

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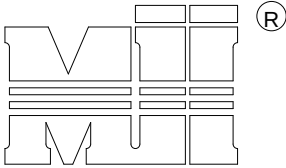
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



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MiTek USA, Inc.

NOTES:

- 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.)
- THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
- 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

VIEWS SHOWN ARE FOR
ILLUSTRATION PURPOSES ONLY

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

VALUES SHOWN ARE CAPACITY PER TOE-NAIL.
APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

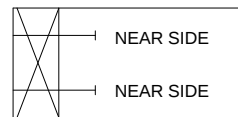
EXAMPLE:

(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD

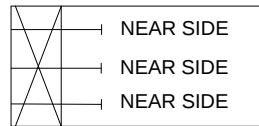
For load duration increase of 1.15:

3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

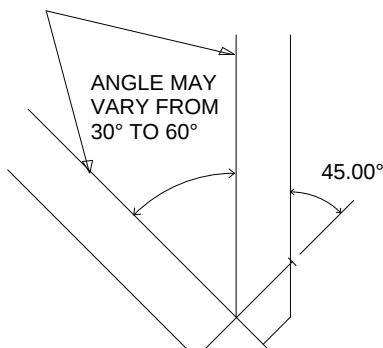
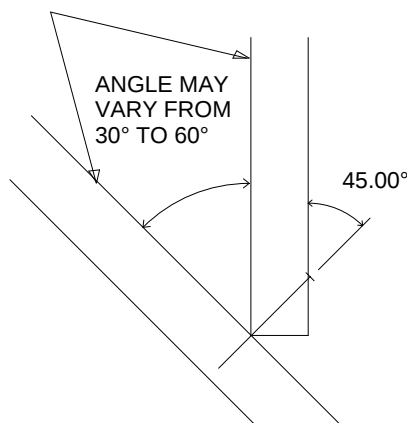
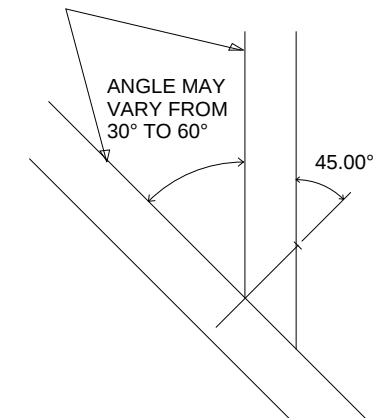
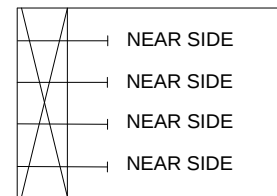
SIDE VIEW
(2x3)
2 NAILS



SIDE VIEW
(2x4)
3 NAILS



SIDE VIEW
(2x6)
4 NAILS



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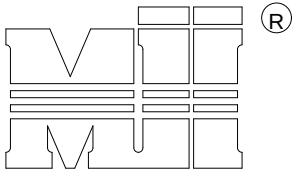
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



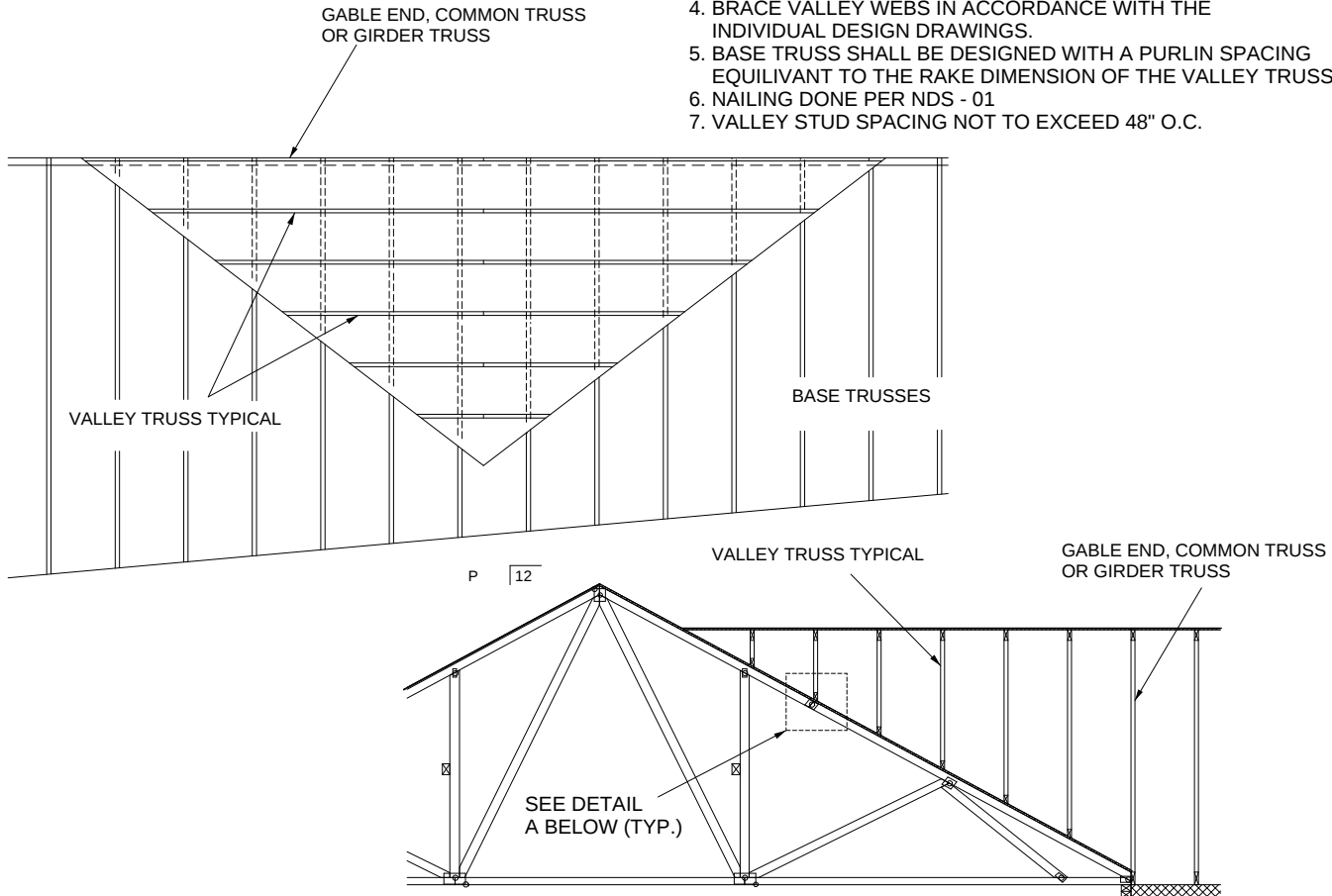
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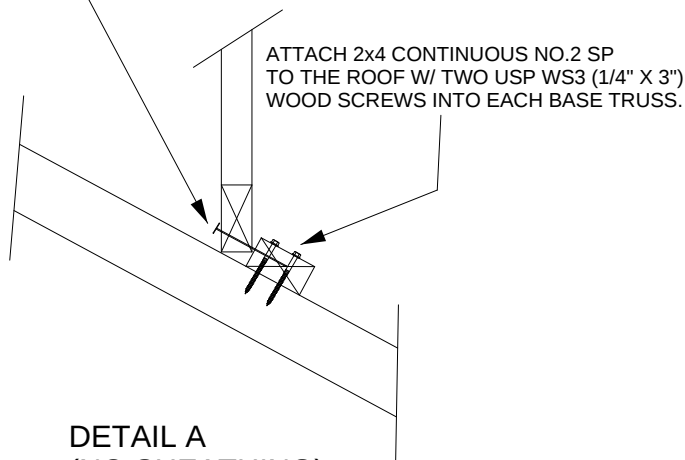
MiTek USA, Inc.

GENERAL SPECIFICATIONS

1. NAIL SIZE 10d (0.131" X 3")
2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT
DO NOT USE DRYWALL OR DECKING TYPE SCREW
3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
6. NAILING DONE PER NDS - 01
7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



SECURE VALLEY TRUSS
W/ ONE ROW OF 10d
NAILS 6" O.C.



DETAIL A
(NO SHEATHING)
N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH
WIND DESIGN PER ASCE 7-10, ASCE 7-16 160 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12
CATEGORY II BUILDING
EXPOSURE C
WIND DURATION OF LOAD INCREASE : 1.60
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 6 PSF
ON THE TRUSSES

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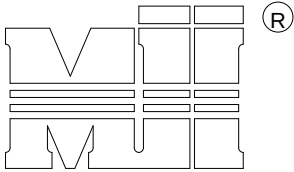
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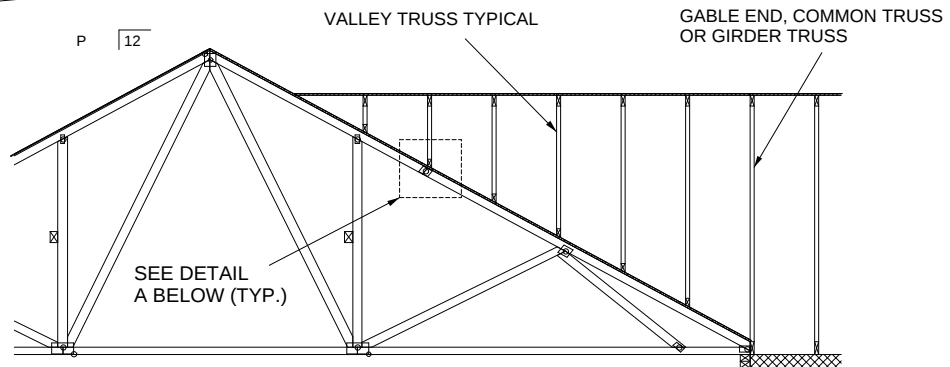
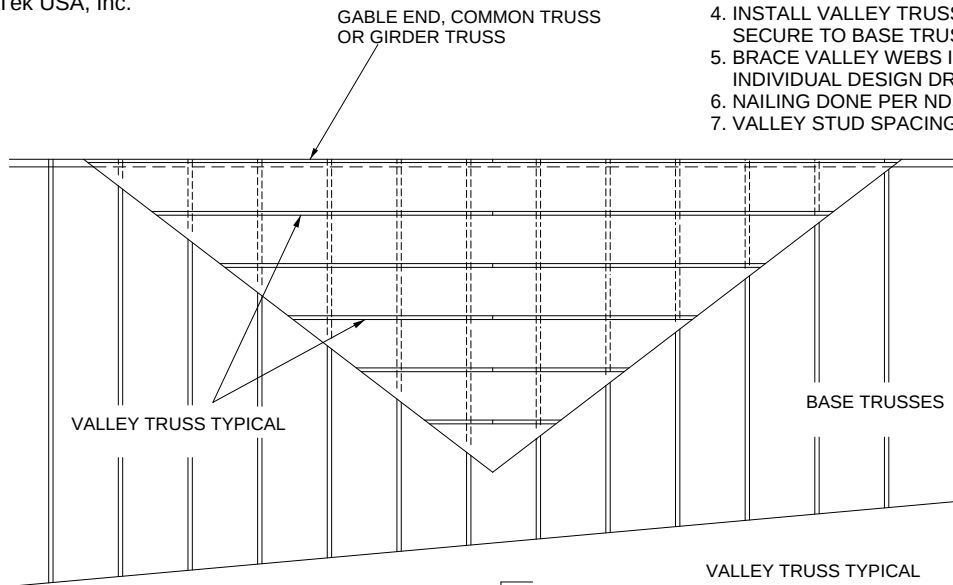
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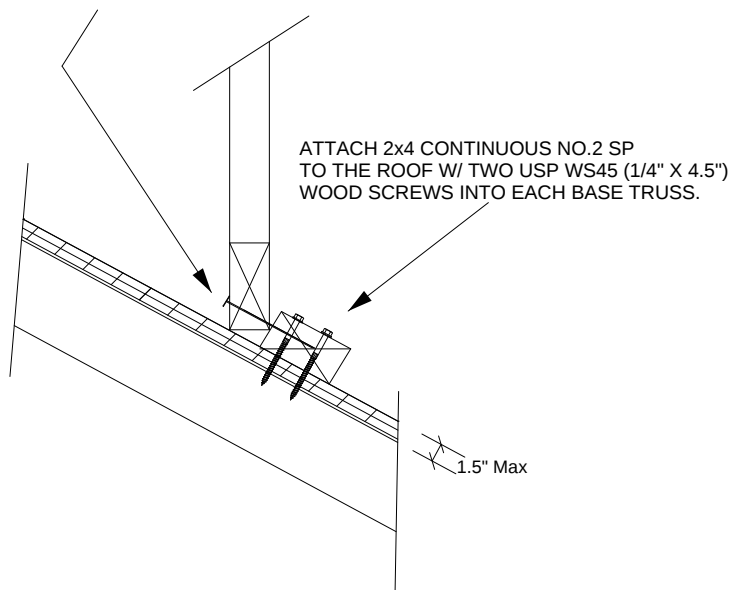
MiTek USA, Inc.

GENERAL SPECIFICATIONS

1. NAIL SIZE 10d (0.131" X 3")
2. WOOD SCREW = 4.5" WS45 USP OR EQUIVANT
3. INSTALL SHEATHING TO TOP CHORD OF BASE TRUSSES.
4. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE TO BASE TRUSSES AS PER DETAIL A
5. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
6. NAILING DONE PER NDS-01
7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



SECURE VALLEY TRUSS
W/ ONE ROW OF 10d
NAILS 6" O.C.



WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH
WIND DESIGN PER ASCE 7-10, ASCE 7-16 160 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12
CATEGORY II BUILDING
EXPOSURE C
WIND DURATION OF LOAD INCREASE : 1.60
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 6 PSF
ON THE TRUSSES

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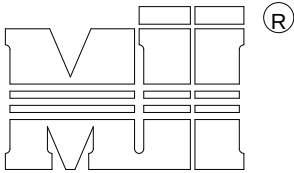
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



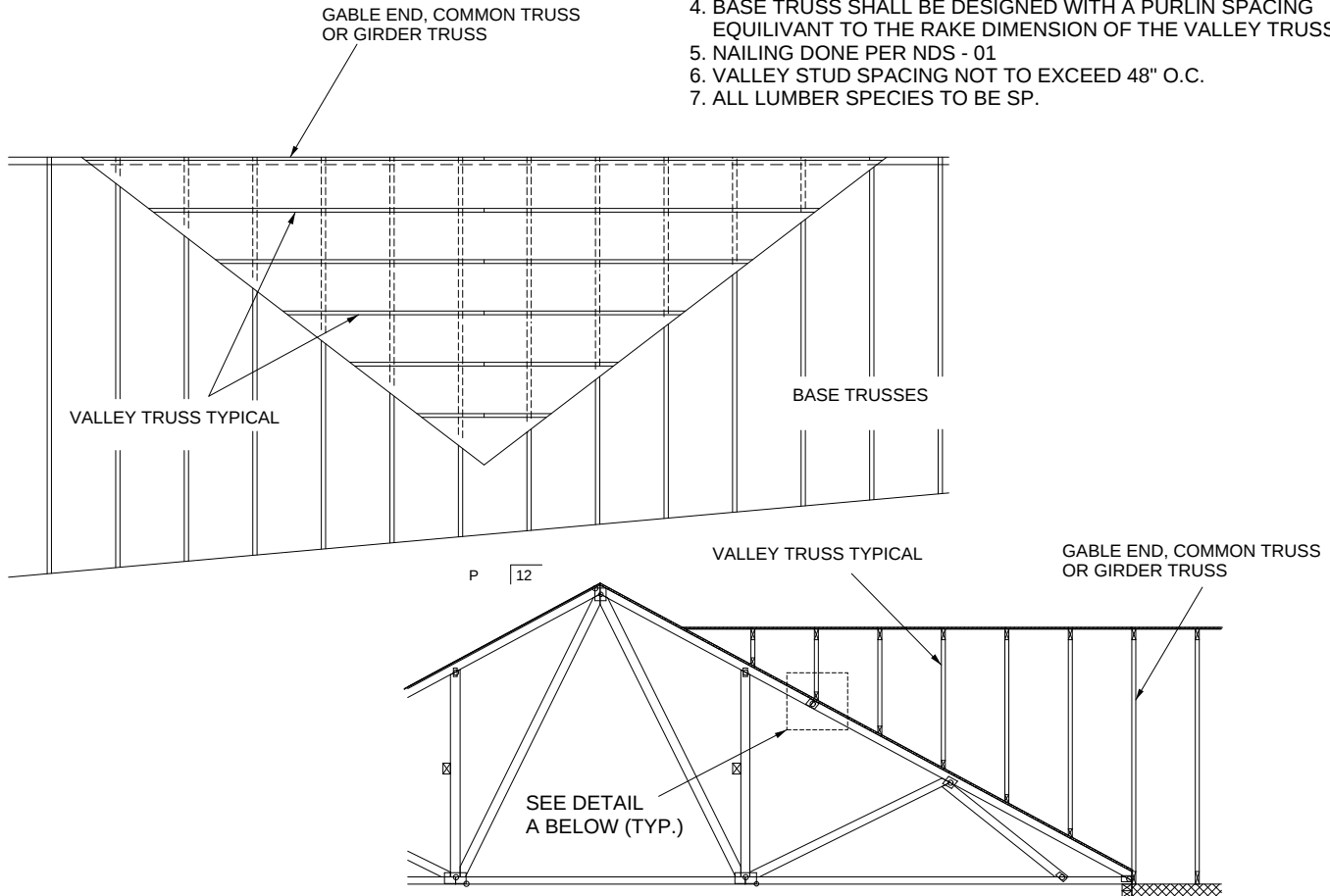
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Tampa, FL 36610



MiTek USA, Inc.

GENERAL SPECIFICATIONS

1. NAIL SIZE 16d (0.131" X 3.5")
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3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUIVARIANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
5. NAILING DONE PER NDS - 01
6. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.
7. ALL LUMBER SPECIES TO BE SP.



SECURE VALLEY TRUSS
W/ ONE ROW OF 16d
NAILS 6" O.C.

ATTACH 2x4 CONTINUOUS NO.2 SP
TO THE ROOF W/ TWO 16d NAILS
INTO EACH BASE TRUSS.

DETAIL A
(MAXIMUM 1" SHEATHING)
N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH
WIND DESIGN PER ASCE 7-10, ASCE 7-16 150 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12
CATEGORY II BUILDING
EXPOSURE C OR B
WIND DURATION OF LOAD INCREASE : 1.60
MAX TOP CHORD TOTAL LOAD = 60 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 4.2 PSF
ON THE TRUSSES

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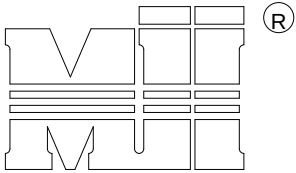
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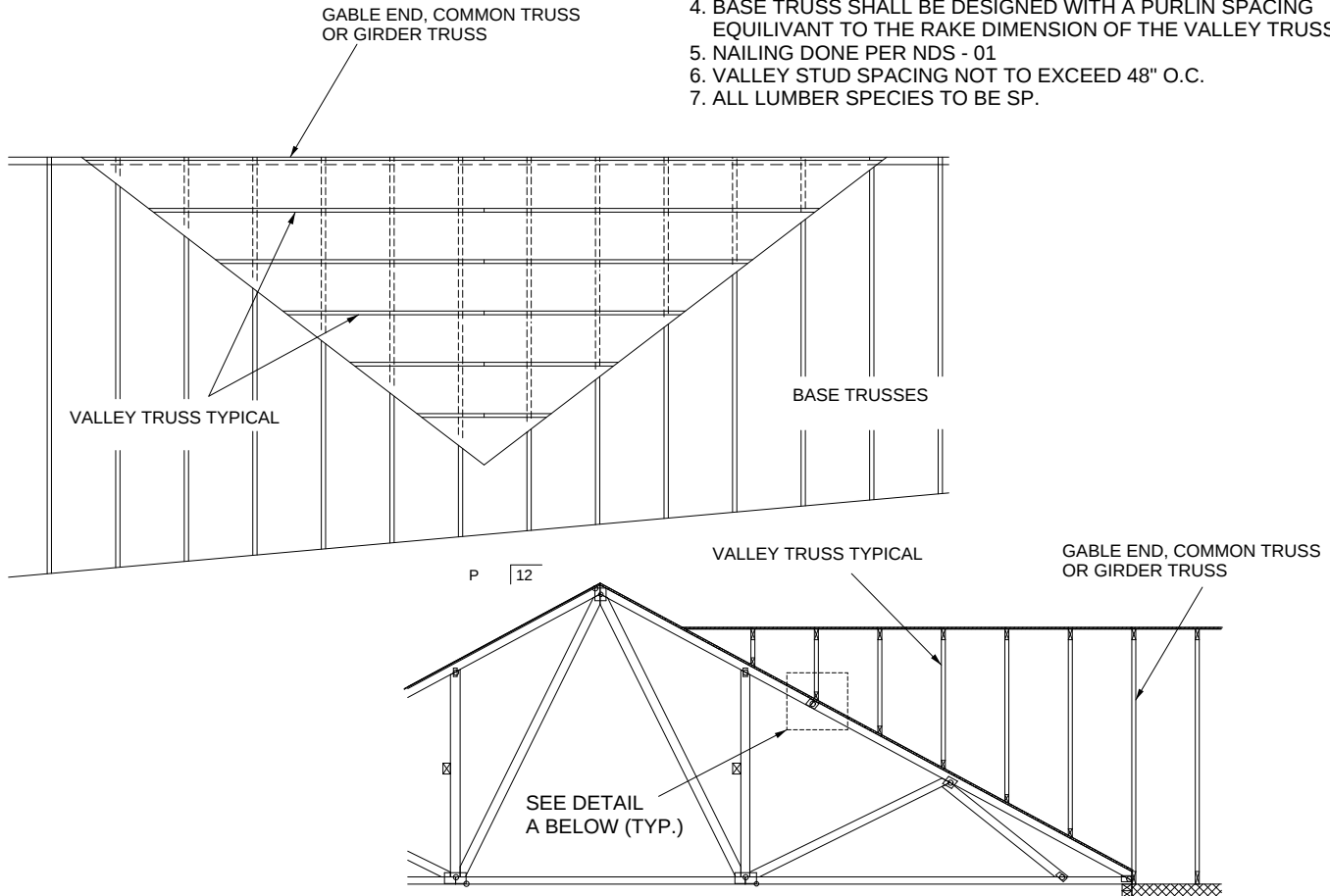
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MiTek USA, Inc.

GENERAL SPECIFICATIONS

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2. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUIVARIANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
5. NAILING DONE PER NDS - 01
6. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.
7. ALL LUMBER SPECIES TO BE SP.



SECURE VALLEY TRUSS
W/ ONE ROW OF 16d
NAILS 6" O.C.

ATTACH 2x4 CONTINUOUS NO.2 SP
TO THE ROOF W/ TWO 16d NAILS
INTO EACH BASE TRUSS.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH
WIND DESIGN PER ASCE 7-10, ASCE 7-16 150 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12
CATEGORY II BUILDING
EXPOSURE C OR B
WIND DURATION OF LOAD INCREASE : 1.60
MAX TOP CHORD TOTAL LOAD = 60 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 4.2 PSF
ON THE TRUSSES

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DETAIL A
(MAXIMUM 1" SHEATHING)
N.T.S.

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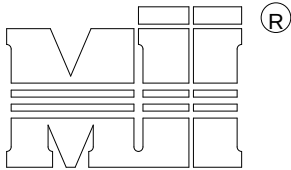
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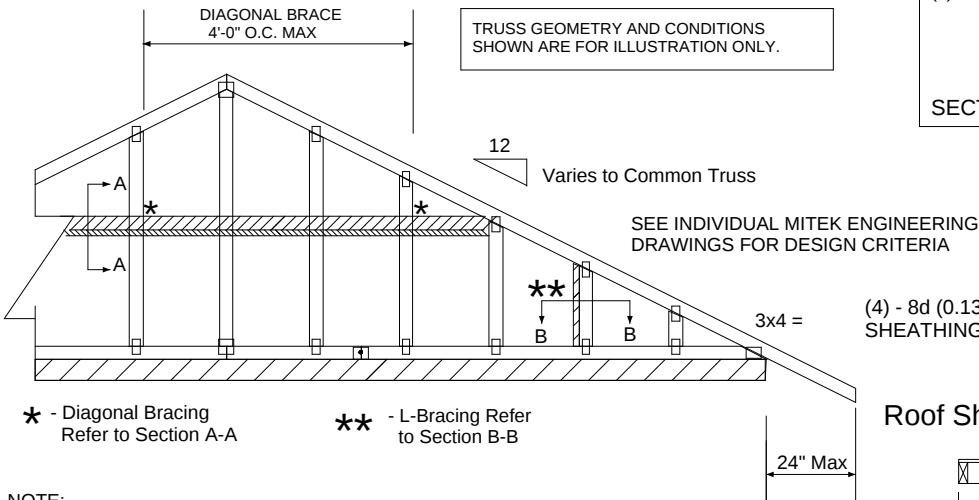
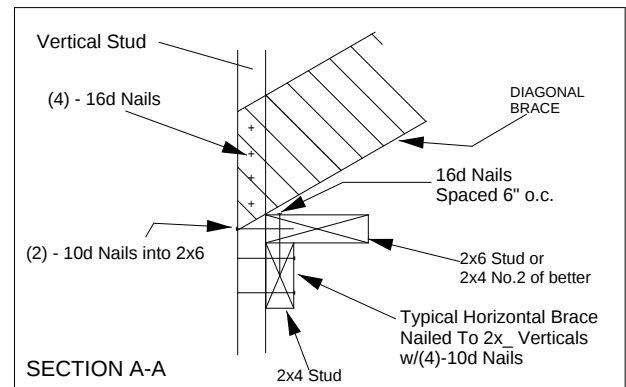
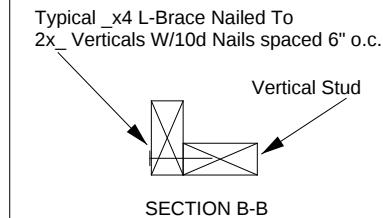
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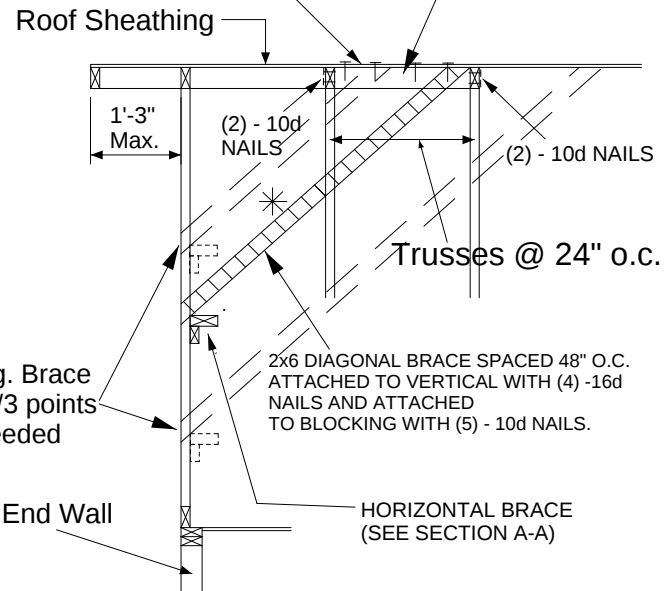


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PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SP BLOCK



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: 2x4 No 3/STUD SP 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	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length			
2x4 SP No 3/Stud	12" O.C.	3-11-3	6-8-0	7-2-14	11-9-10
2x4 SP No 3/Stud	16" O.C.	3-6-14	5-9-5	7-1-13	10-8-11
2x4 SP No 3/Stud	24" O.C.	3-1-8	4-8-9	6-2-15	9-4-7

- * 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.

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Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

April 2, 2021

MAXIMUM WIND SPEED = 146 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C

ASCE 7-98, ASCE 7-02, ASCE 7-05
DURATION OF LOAD INCREASE = 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.

CONNECTION OF BRACING IS BASED ON MWPRS 473 rev. 5/19/2020 BEFORE USE.

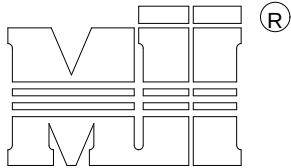
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

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

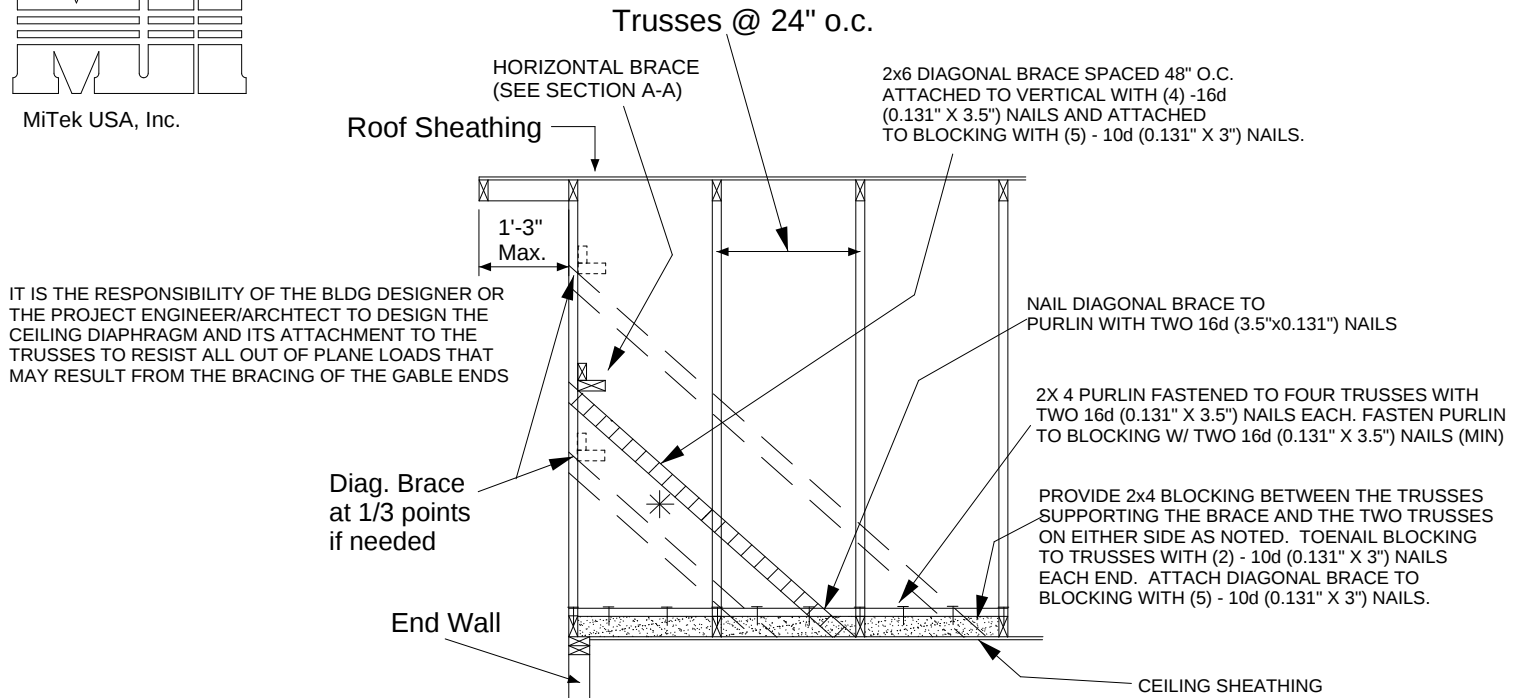


6904 Parke East Blvd.
Tampa, FL 36610



MiTek USA, Inc.

ALTERNATE DIAGONAL BRACING TO THE BOTTOM CHORD



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

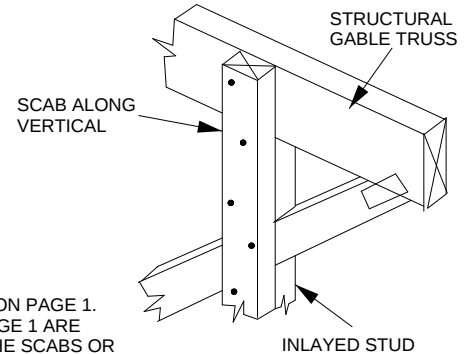
STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED:

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:

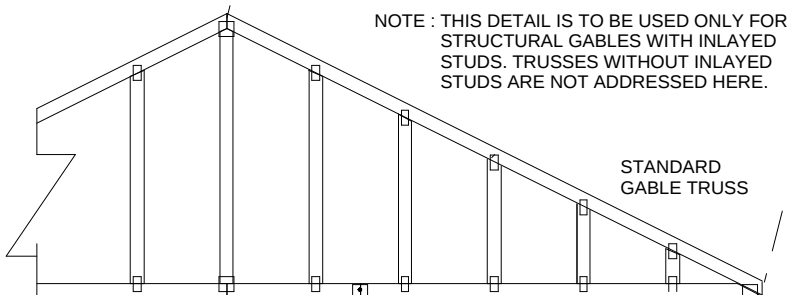
- FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C.
- FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (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.



This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

April 2, 2021

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

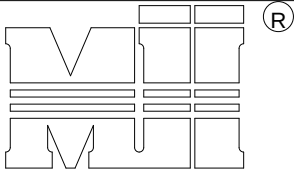
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

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



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Tampa, FL 36610



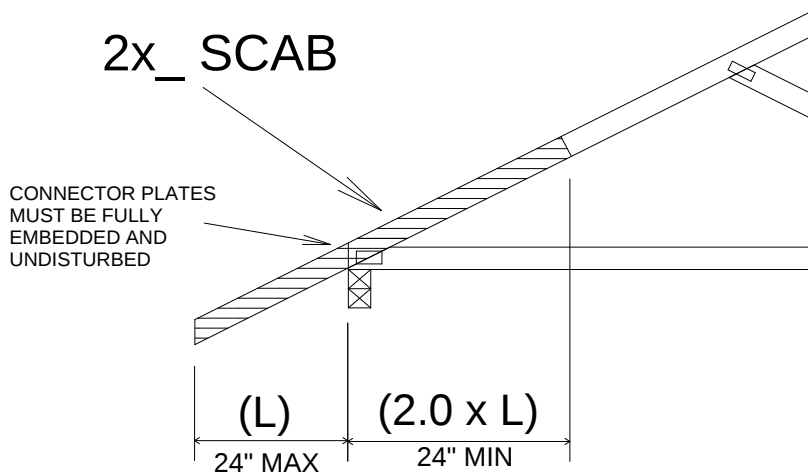
MiTek USA, Inc.

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.



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

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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April 2, 2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

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



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Date:

April 2,2021

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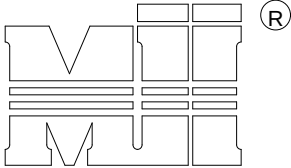
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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Tampa, FL 36610

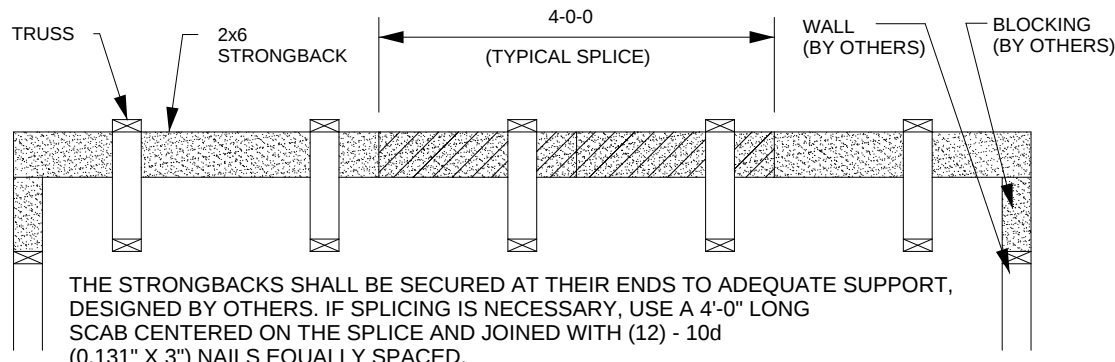
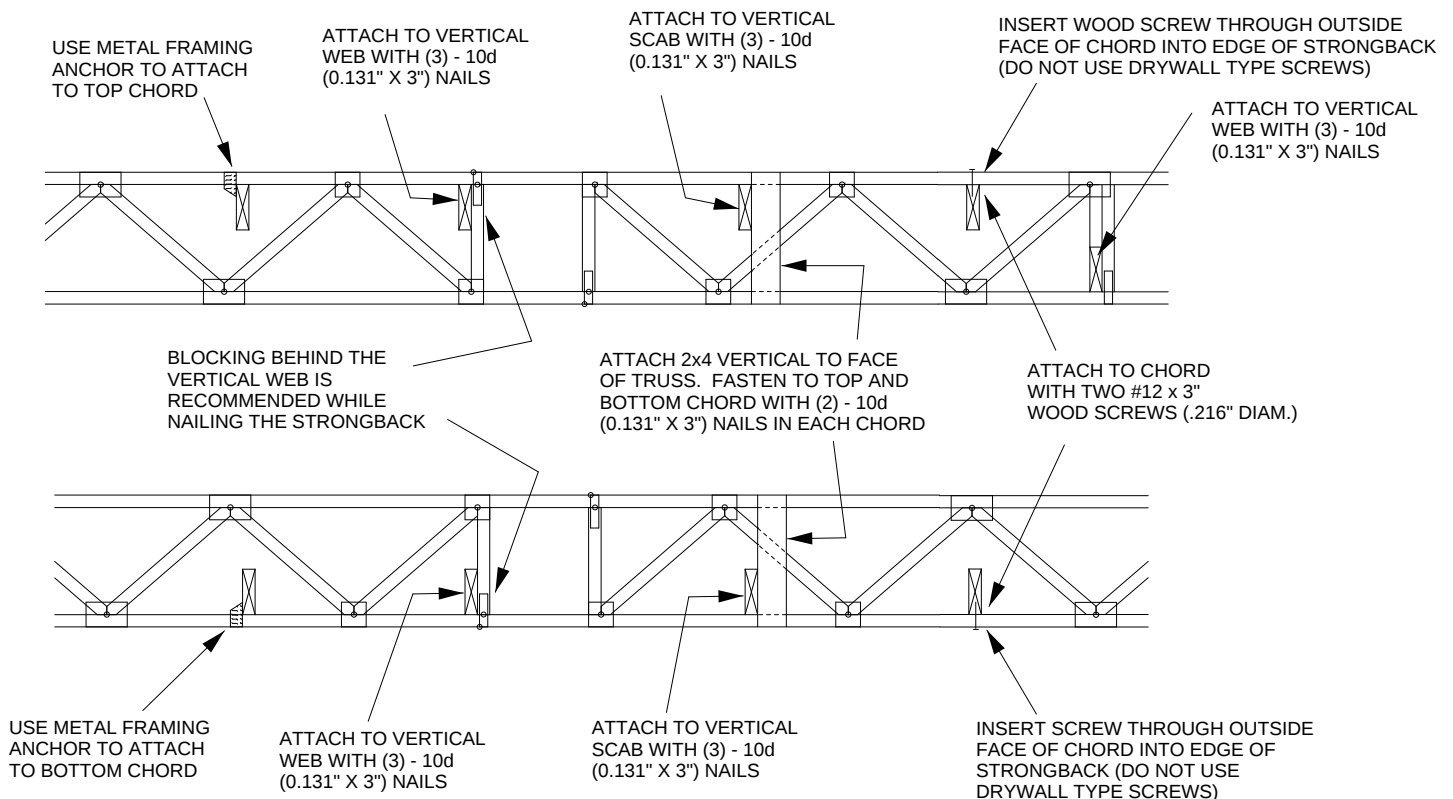


MiTek USA, Inc.

TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

NOTE 1: 2X6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.

NOTE 2: STRONGBACK BRACING ALSO SATISFIES THE LATERAL BRACING REQUIREMENTS FOR THE BOTTOM CHORD OF THE TRUSS WHEN IT IS PLACED ON TOP OF THE BOTTOM CHORD, IS CONTINUOUS FROM END TO END, CONNECTED WITH A METHOD OTHER THAN METAL FRAMING ANCHOR, AND PROPERLY CONNECTED, BY OTHERS, AT THE ENDS.



ALTERNATE METHOD OF SPLICING:
OVERLAP STRONGBACK MEMBERS A MINIMUM OF 4'-0" AND FASTEN WITH (12) - 10d (0.131" X 3") NAILS STAGGERED AND EQUALLY SPACED.
(TO BE USED ONLY WHEN STRONGBACK IS NOT ALIGNED WITH A VERTICAL)

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. 58126
MiTek USA, Inc. FL Cert 6634
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Date:

April 2, 2021

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

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

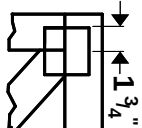
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



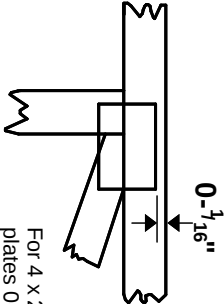
6904 Parke East Blvd.
Tampa, FL 36610

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- $\frac{3}{16}$ " from outside edge of truss.

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

*** Plate location details available in MiTek 2012 software or upon request.**

PLATE SIZE

4 X 4

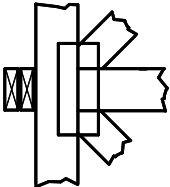
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



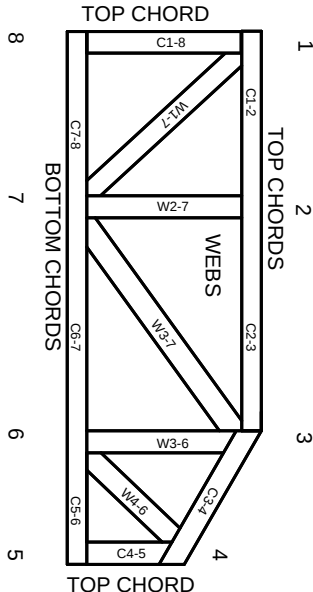
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: 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 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

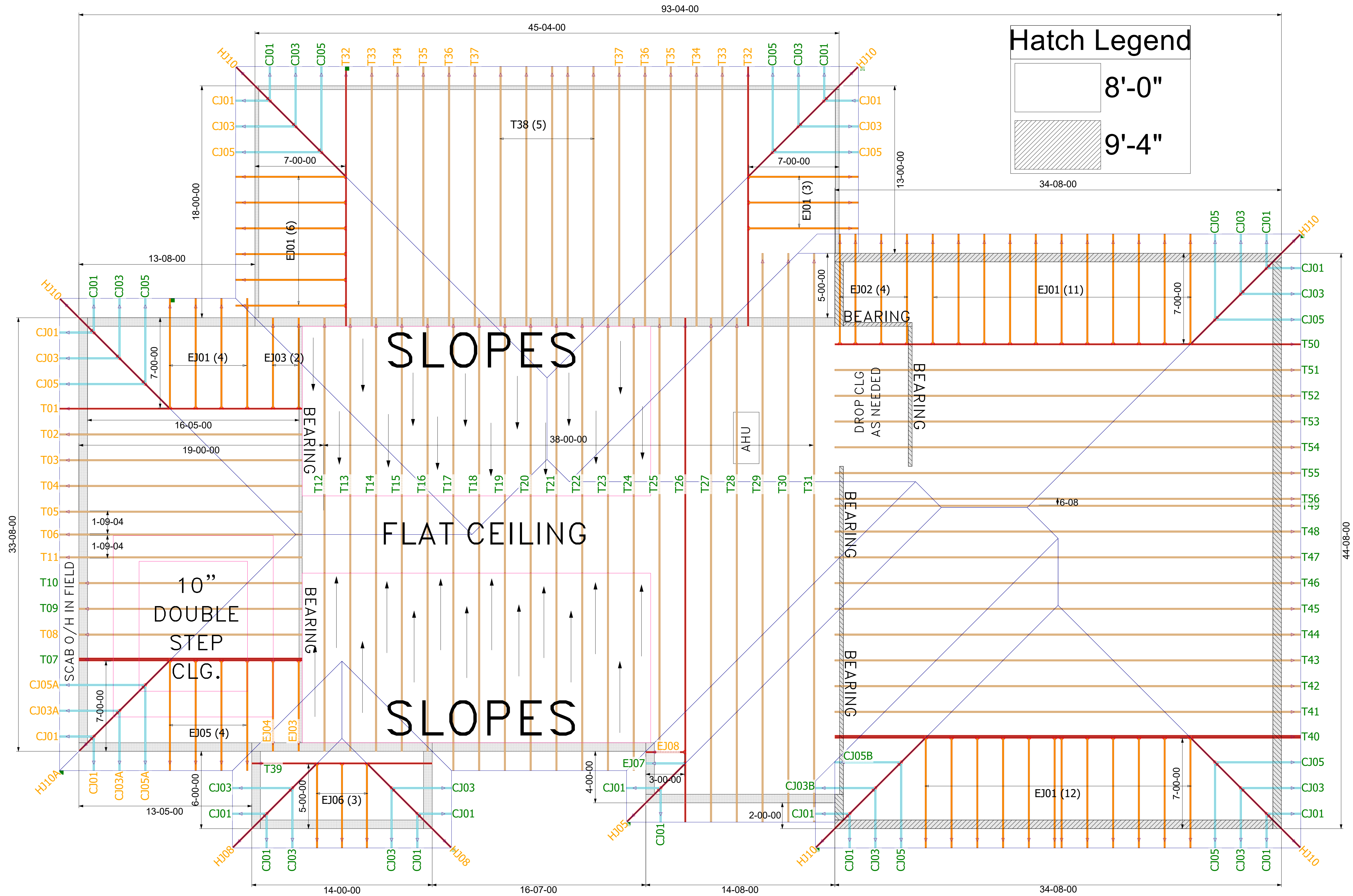


General Safety Notes

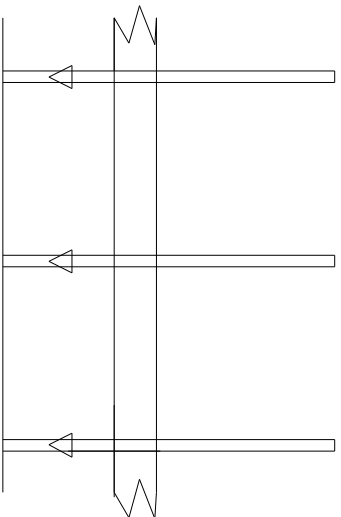
Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/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 purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

5/12 PITCH – 18” O/H



THE ARROW HEAD AT THE END OF THE TRUSS ON THE TRUSS PLACEMENT PLAN (LAYOUT) CORRESPONDS WITH THE LEFT SIDE OF THE INDIVIDUAL TRUSS DRAWING. USE THIS AS AN ORIENTATION GUIDE WHEN SETTING THE TRUSSES ON THE STRUCTURE.



General Notes:

- Per ANSI/TPI 1-2002 all " Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.
- Use Manufacturer's specifications for all hanger connections unless noted otherwise.
- Trusses are to be 24" o.c. U.N.O.
- All hangers are to be Simpson or equivalent U.N.O.:- Use 10d x 1 1/2" Nails in hanger connections to single ply girder trusses.
- Trusses are not designed to support brick U.N.O.
- Dimensions are Feet-Inches- Sixteenths

Notes:

No back charges will be accepted by Builders FirstSource unless approved in writing first.
850-835-4541

ACQ lumber is corrosive to truss plates. Any ACQ lumber that comes in contact with truss plates (i.e. scabbed on tails) must have an approved barrier applied first.

Refer to BCSI-B1 Summary Sheet-Guide for handling, Installing and Bracing of Metal Plate Connected Wood Truss prior to and during truss installation.

It is the responsibility of the Contractor to ensure of the proper orientation of the truss placement plans as to the construction documents and field conditions of the structure orientation. If a reversed or flipped layout is required, it will be supplied at no extra cost by Builders FirstSource.

It is the responsibility of the Contractor to make sure the placement of trusses are adjusted for plumbing drops, can lights, ect.... so the trusses do not interfere with these type of items.

All common framed roof or floor systems must be designed as to NOT impose any loads on the floor trusses below. The floor trusses have not been designed to carry any additional loads from above.

This truss placement plan was not created by an engineer, but rather by the Builders FirstSource staff and is solely to be used as an installation guide and does not require a seal. Complete truss engineering and analysis can be found on the truss design drawings which may be sealed by the truss design engineer.

Gable end trusses require continuous bottom chord bearing. Refer to local codes for wall framing requirements.

Although all attempts have been made to do so, trusses may not be designed symmetrically. Please refer to the individual truss drawings and truss placement plans for proper orientation and placement.



Lake City
PHONE: 386-755-6894
FAX: 386-755-7973

Jacksonville
PHONE: 904-772-6100
FAX: 904-772-1973

Tallahassee
PHONE: 850-576-5177

Builder:

BLAKE CONST.

Legal Address:

Shuman Res.

Model:

Custom

Date:
8-17-21

Drawn By:
KLH

Original Ref #:
2902489

Floor 1 Job#
N/A

Floor 2 Job#:
N/A

Roof Job #:
2902489



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

RE: 2902489 - BLAKE CONST. - SHUMAN RES.

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: Blake Const. Project Name: Shuman Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 205 SW Madison Court, N/A
City: Columbia Cty State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 75 individual, Truss Design Drawings and 0 Additional Drawings.

With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T25055034	CJ01	8/18/21	23	T25055056	T04	8/18/21
2	T25055035	CJ03	8/18/21	24	T25055057	T05	8/18/21
3	T25055036	CJ03A	8/18/21	25	T25055058	T06	8/18/21
4	T25055037	CJ03B	8/18/21	26	T25055059	T07	8/18/21
5	T25055038	CJ05	8/18/21	27	T25055060	T08	8/18/21
6	T25055039	CJ05A	8/18/21	28	T25055061	T09	8/18/21
7	T25055040	CJ05B	8/18/21	29	T25055062	T10	8/18/21
8	T25055041	EJ01	8/18/21	30	T25055063	T11	8/18/21
9	T25055042	EJ02	8/18/21	31	T25055064	T12	8/18/21
10	T25055043	EJ03	8/18/21	32	T25055065	T13	8/18/21
11	T25055044	EJ04	8/18/21	33	T25055066	T14	8/18/21
12	T25055045	EJ05	8/18/21	34	T25055067	T15	8/18/21
13	T25055046	EJ06	8/18/21	35	T25055068	T16	8/18/21
14	T25055047	EJ07	8/18/21	36	T25055069	T17	8/18/21
15	T25055048	EJ08	8/18/21	37	T25055070	T18	8/18/21
16	T25055049	HJ05	8/18/21	38	T25055071	T19	8/18/21
17	T25055050	HJ08	8/18/21	39	T25055072	T20	8/18/21
18	T25055051	HJ10	8/18/21	40	T25055073	T21	8/18/21
19	T25055052	HJ10A	8/18/21	41	T25055074	T22	8/18/21
20	T25055053	T01	8/18/21	42	T25055075	T23	8/18/21
21	T25055054	T02	8/18/21	43	T25055076	T24	8/18/21
22	T25055055	T03	8/18/21	44	T25055077	T25	8/18/21

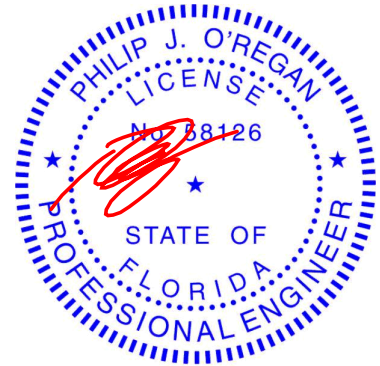


The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: O'Regan, Philip

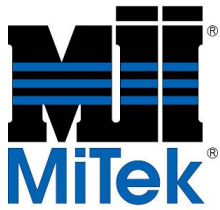
My license renewal date for the state of Florida is February 28, 2023.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 18, 2021



RE: 2902489 - BLAKE CONST. - SHUMAN RES.

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

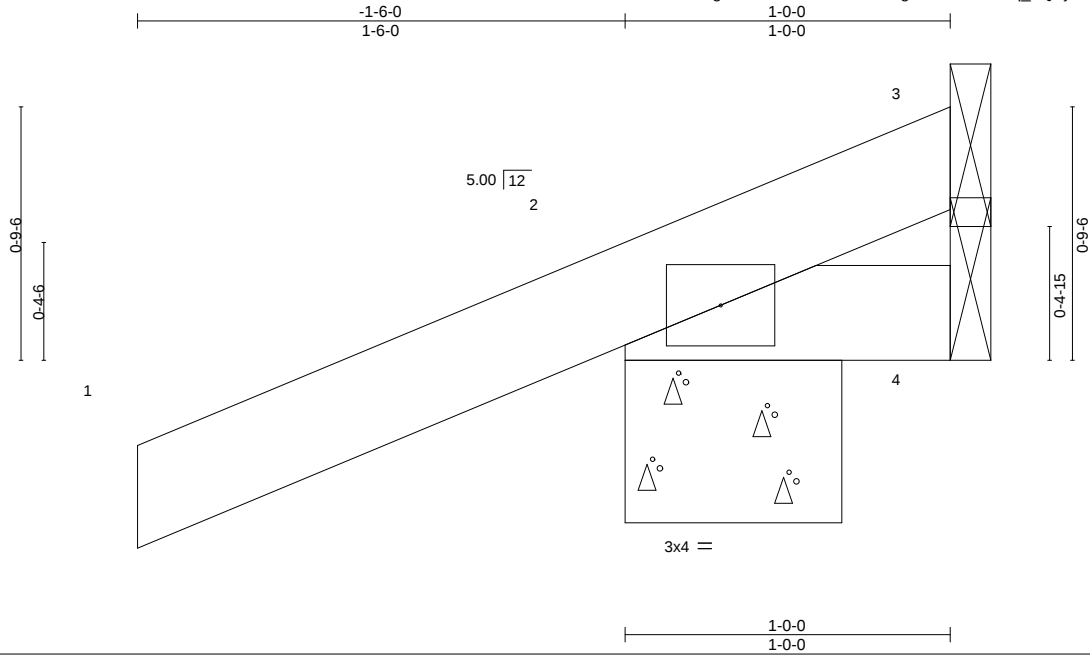
Customer Info: Blake Const. Project Name: Shuman Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 205 SW Madison Court, N/A
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
45	T25055078	T26	8/18/21
46	T25055079	T27	8/18/21
47	T25055080	T28	8/18/21
48	T25055081	T29	8/18/21
49	T25055082	T30	8/18/21
50	T25055083	T31	8/18/21
51	T25055084	T32	8/18/21
52	T25055085	T33	8/18/21
53	T25055086	T34	8/18/21
54	T25055087	T35	8/18/21
55	T25055088	T36	8/18/21
56	T25055089	T37	8/18/21
57	T25055090	T38	8/18/21
58	T25055091	T39	8/18/21
59	T25055092	T40	8/18/21
60	T25055093	T41	8/18/21
61	T25055094	T42	8/18/21
62	T25055095	T43	8/18/21
63	T25055096	T44	8/18/21
64	T25055097	T45	8/18/21
65	T25055098	T46	8/18/21
66	T25055099	T47	8/18/21
67	T25055100	T48	8/18/21
68	T25055101	T49	8/18/21
69	T25055102	T50	8/18/21
70	T25055103	T51	8/18/21
71	T25055104	T52	8/18/21
72	T25055105	T53	8/18/21
73	T25055106	T54	8/18/21
74	T25055107	T55	8/18/21
75	T25055108	T56	8/18/21

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055034
2902489	CJ01	Jack-Open	20	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:25 2021 Page 1
ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-c8gmJerOLZ6tLuq_nQXjHvrcr0lIxbktUWMYUymy5i



Scale = 1:7.1

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 0.13	Vert(LL)	0.00	5	>999	240	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.02	Vert(CT)	0.00	5	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP						
								Weight: 6 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

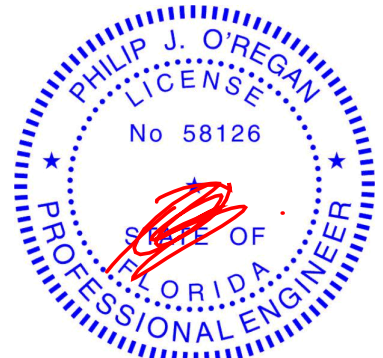
REACTIONS.

(size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=33(LC 8)
Max Uplift 3=-6(LC 1), 2=-82(LC 8), 4=-19(LC 1)
Max Grav 3=10(LC 8), 2=179(LC 1), 4=19(LC 8)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.



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Date:

August 18,2021

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

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

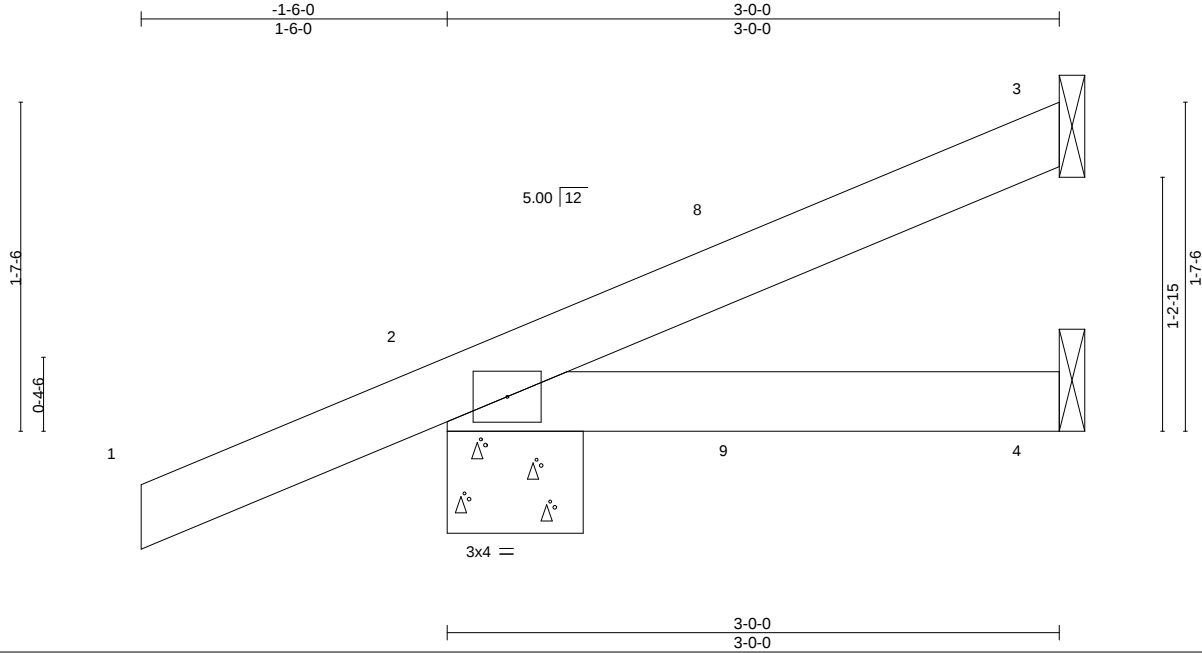


6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055035
2902489	CJ03	Jack-Open	15	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:25 2021 Page 1
ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-c8gmJerOLZ6tLuq_nQXjHvrcr0HBxbktUWMYUymy5i



Scale = 1:11.3

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL)	0.01	4-7	>999	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.09	Vert(CT)	-0.01	4-7	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP						
	Code FBC2020/TPI2014						Weight: 12 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

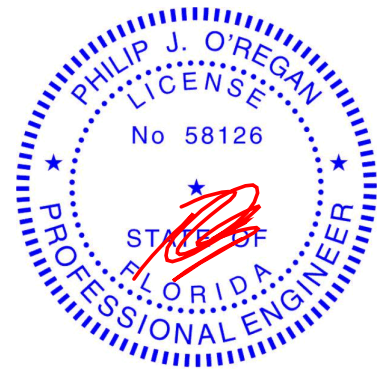
REACTIONS.

(size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=61(LC 12)
Max Uplift 3=-32(LC 12), 2=-87(LC 8), 4=-16(LC 9)
Max Grav 3=59(LC 1), 2=210(LC 1), 4=49(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.



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August 18, 2021

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



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055036
2902489	CJ03A	Jack-Open	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:26 2021 Page 1
ID:PCDxLFEFgc78hVLoJl8fL1zZ5Cf-5LE9W_s06tFiy2PBK72yqjOndPcig2_1iA556wymy5h

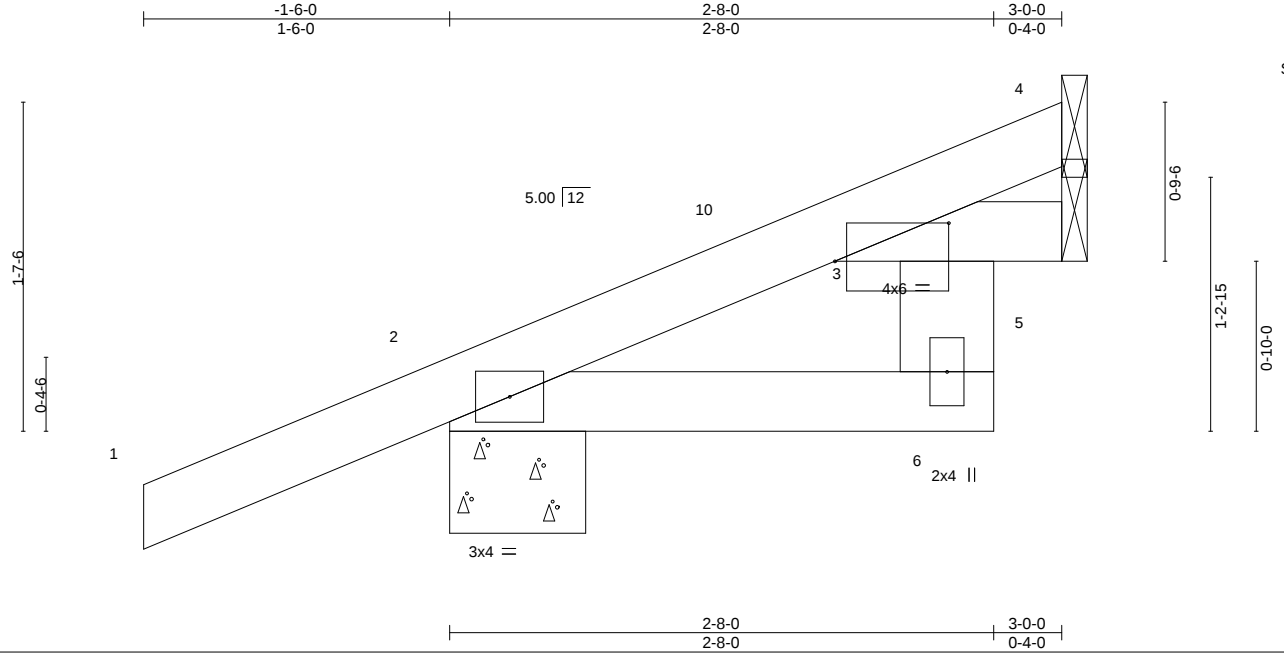


Plate Offsets (X,Y)-- [3:0-6-11,0-2-4]

LOADING (psf)	SPACING-		CSL.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.13	Vert(LL)	-0.00	6	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	-0.01	6	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MR						Weight: 14 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-6: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

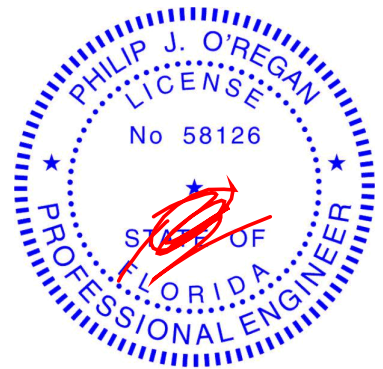
REACTIONS.

(size) 4=Mechanical, 2=0-8-0, 5=Mechanical
Max Horz 2=61(LC 12)
Max Uplift 4=-19(LC 12), 2=-62(LC 8), 5=-9(LC 12)
Max Grav 4=49(LC 1), 2=211(LC 1), 5=45(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.



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

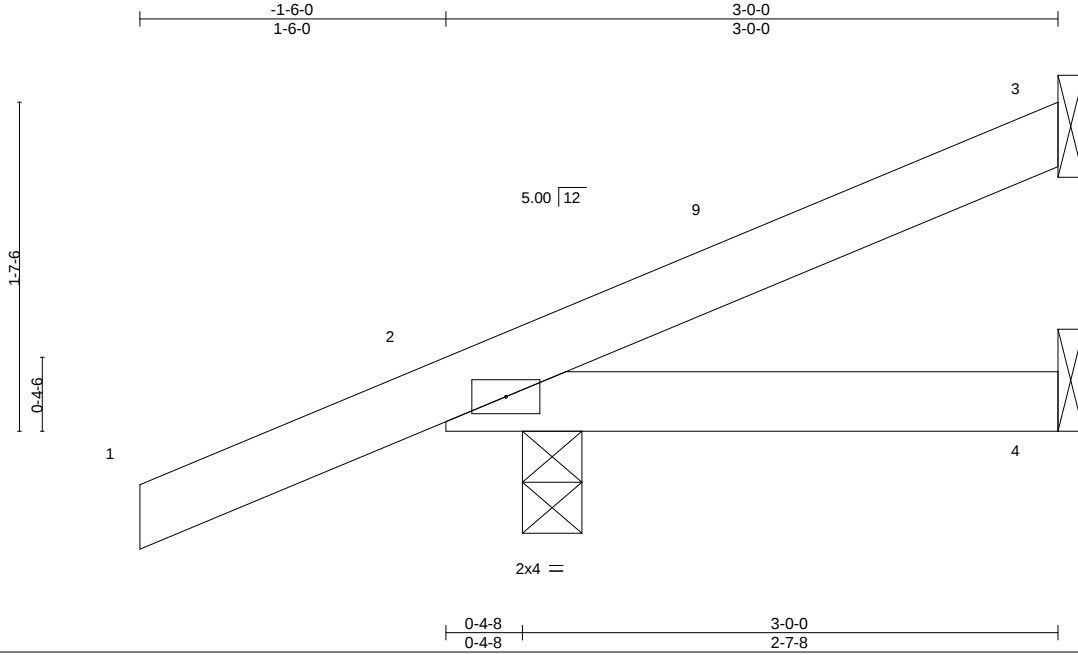


6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055037
2902489	CJ03B	Jack-Open	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:26 2021 Page 1
ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-5LE9W_s06tFjy2PBK72yqjOmLPcJg2_1iA556wymy5h



Scale = 1:11.3

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.14	Vert(LL)	-0.00	5	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.10	Vert(CT)	-0.00	5	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP						Weight: 12 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

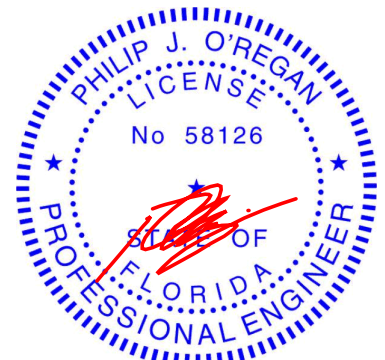
REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=61(LC 12)
Max Uplift 3=-27(LC 12), 2=-76(LC 8)
Max Grav 3=40(LC 1), 2=256(LC 1), 4=38(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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Date:

August 18, 2021

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

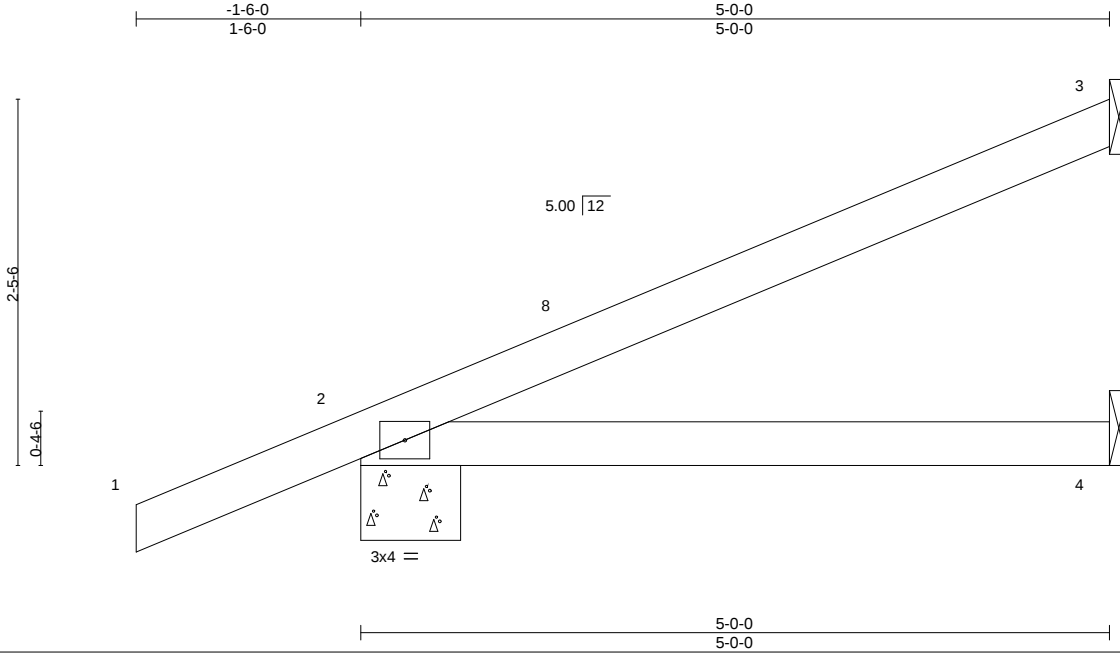


6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055038
2902489	CJ05	Jack-Open	11	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:27 2021 Page 1
ID:PCDxLFEFgc?8hVLoJl8fl1zZ5Cf-ZXoXkKtetBNaaC_NurZBMwvx2pwUPVEAxqrefNymy5g



Scale = 1:15.4

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.28	Vert(LL)	0.03	4-7	>999	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.23	Vert(CT)	-0.05	4-7	>999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP					Weight: 18 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

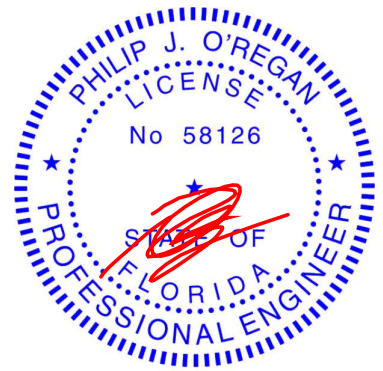
REACTIONS.

(size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=89(LC 12)
Max Uplift 3=-61(LC 12), 2=-71(LC 12)
Max Grav 3=112(LC 1), 2=276(LC 1), 4=87(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-4 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:28 2021 Page 1
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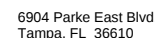
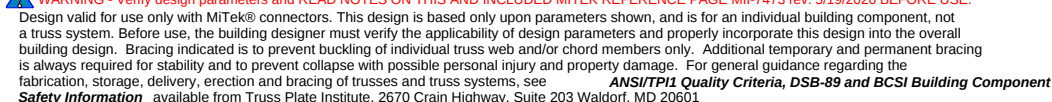
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD	2x4 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
	3-8, 4-7: 2x6 SP No.2		

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1.6-0 to 1.6-0, Interior(1) 1.6-0 to 4-11.4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.



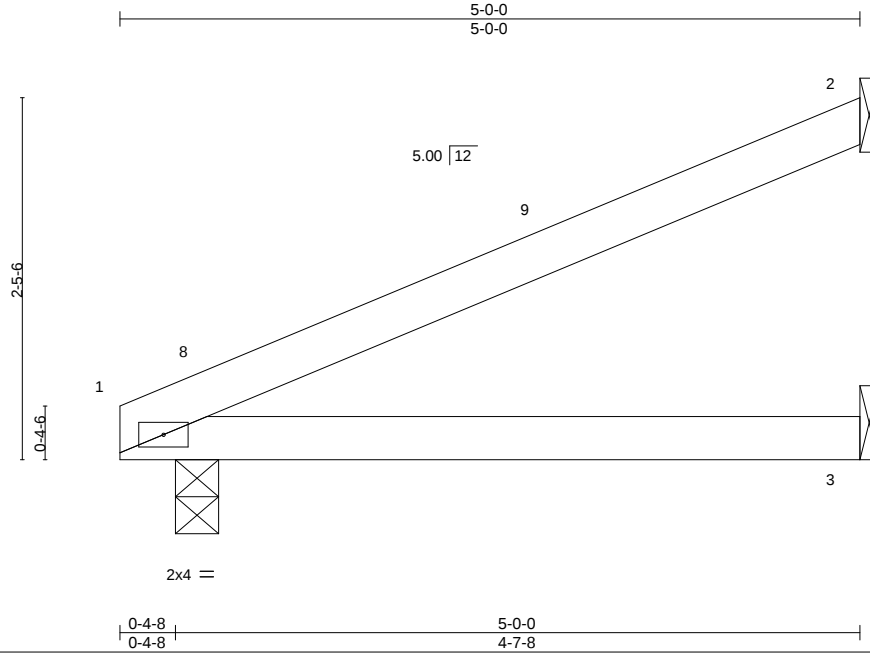
August 18, 2021



Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055040
2902489	CJ05B	Jack-Open	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:29 2021 Page 1
ID:PCDxLFEFGc?8hVLoJl8fL1zZ5Cf-VwwH90uvOodlpV8m0GcfRL0FidcQtPjTO8KljFymy5e



Scale = 1:15.6

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	Vert(LL)	-0.02	3-7	>999	MT20	244/190
TCDL 7.0	1.25	BC 0.20	Vert(CT)	-0.04	3-7	>999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.01	2	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP					Weight: 16 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

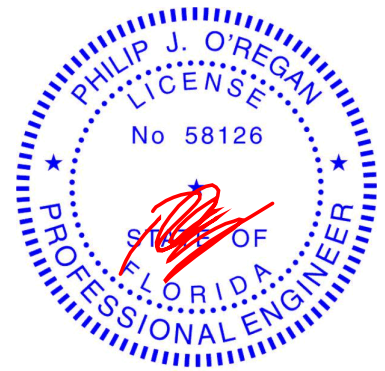
REACTIONS.

(size) 1=0-3-8, 2=Mechanical, 3=Mechanical
Max Horz 1=71(LC 12)
Max Uplift 1=-38(LC 12), 2=-63(LC 12)
Max Grav 1=204(LC 1), 2=110(LC 1), 3=82(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 18, 2021

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



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055041
2902489	EJ01	Jack-Partial	36	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:29 2021 Page 1
ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-VwwH90uvOodlpV8m0GcfRL09mdV9tPJTO8KljFymy5e

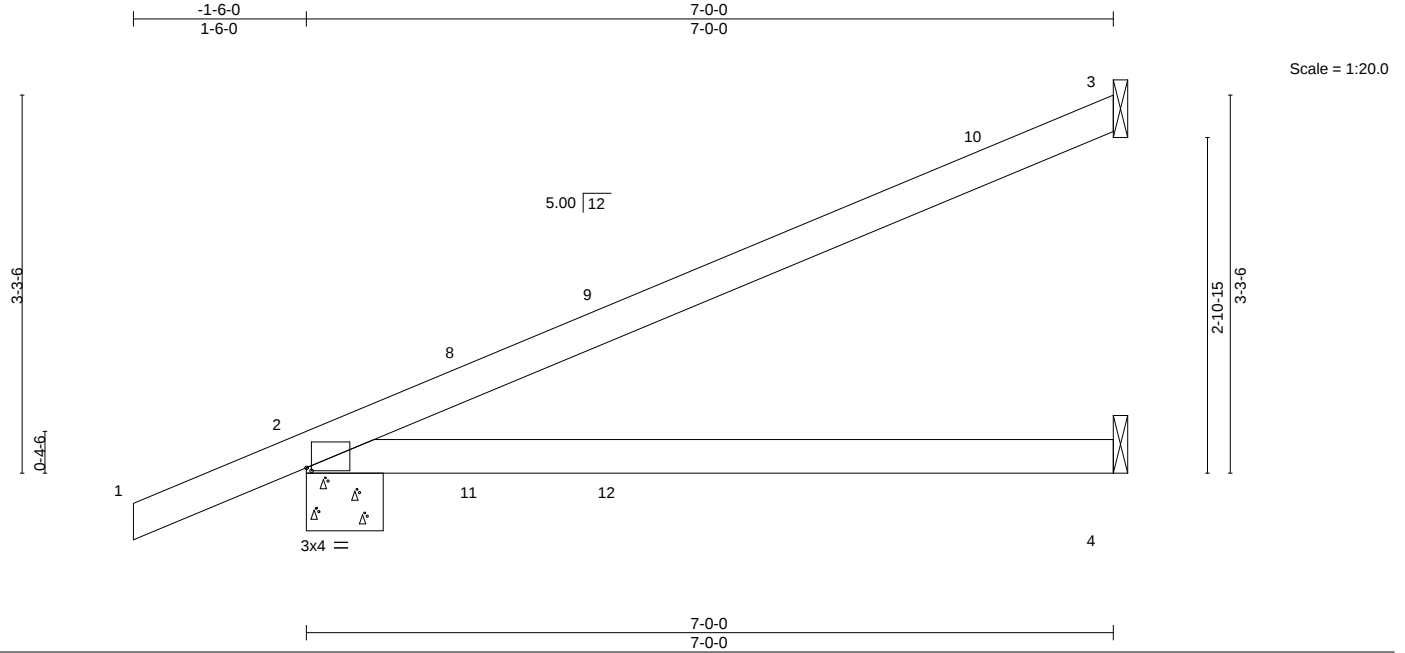


Plate Offsets (X,Y)--		[2:0-0-8,0-0-5]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.64	Vert(LL) 0.29 4-7 >283 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.67	Vert(CT) 0.25 4-7 >335 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.01 3 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 24 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

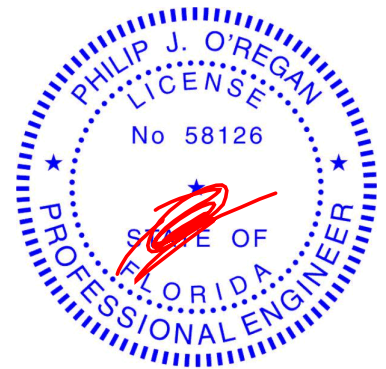
REACTIONS.

(size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=114(LC 12)
Max Uplift 3=-78(LC 12), 2=-124(LC 8), 4=-40(LC 9)
Max Grav 3=163(LC 1), 2=346(LC 1), 4=125(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=124.



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August 18,2021

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

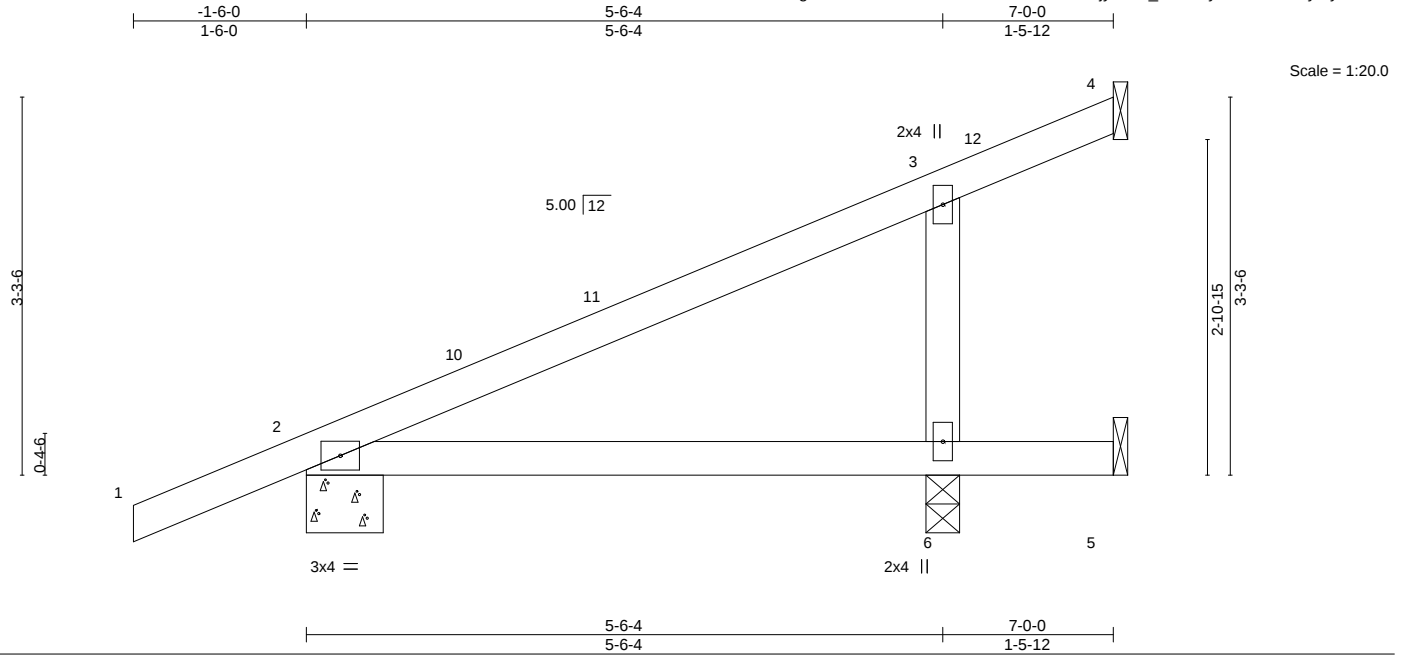


6904 Parke East Blvd.
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Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055042
2902489	EJ02	Jack-Partial	4	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:30 2021 Page 1
ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-z6UfMMvX96l9RfjyZz7u_ZZRc1ybcrncdo3JFiyMy5d



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.25	Vert(LL) -0.02	6-9	>999	240		MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.21	Vert(CT) -0.04	6-9	>999	180			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT) 0.00	4	n/a	n/a			
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						Weight: 27 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings Mechanical except (jt=length) 2=0-8-0, 6=0-3-8.
(lb) - Max Horz 2=114(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 4, 2, 5 except 6=144(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 4, 5 except 2=260(LC 1), 6=425(LC 1)

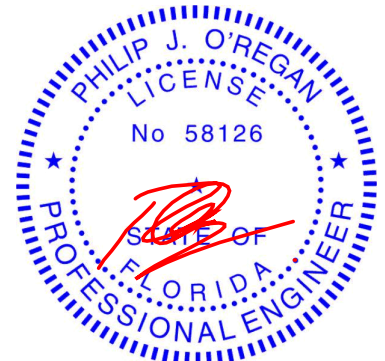
FORCES.

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

WEBS 3-6=279/256

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone; 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Gable studs spaced at 2-0-0 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5 except (jt=lb) 6=144.



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Date:

August 18, 2021

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



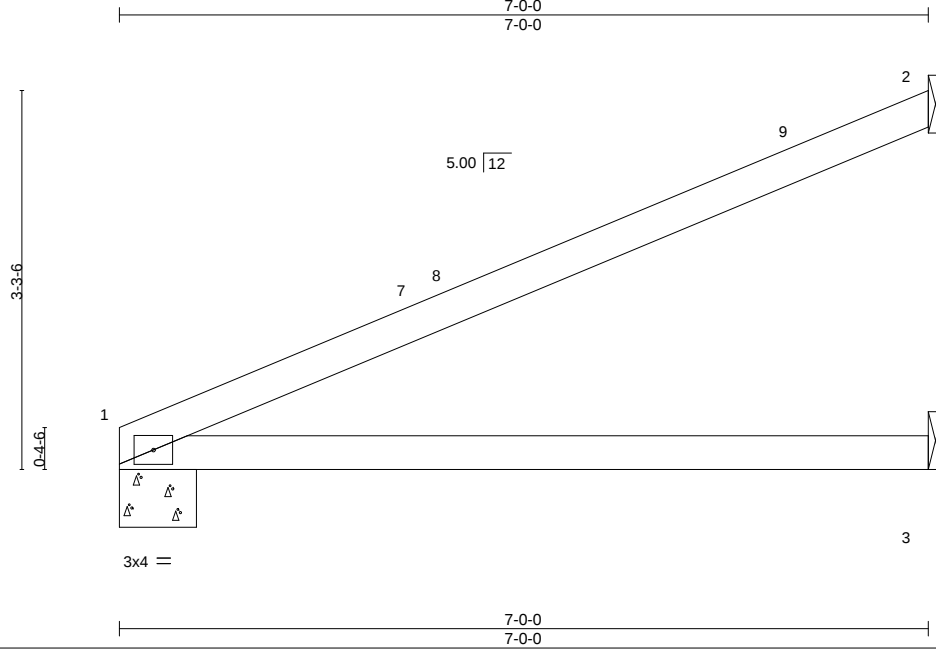
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055043
2902489	EJ03	JACK	3	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:31 2021 Page 1

ID:PCDxLFEFgc78hVLoJl8fL1zZ5Cf-Rl22ahw9wPt03pH87he7Xm5U7QD0LJDmsSps08ymy5c



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 0.65	Vert(LL) 0.11 3-6	>752	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.51	Vert(CT) -0.23 3-6	>359	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01 1	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS				Weight: 22 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

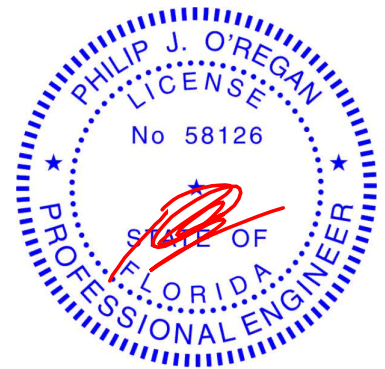
REACTIONS.

(size) 1=0-8-0, 2=Mechanical, 3=Mechanical
Max Horz 1=95(LC 12)
Max Uplift 1=-49(LC 12), 2=-80(LC 12)
Max Grav 1=257(LC 1), 2=168(LC 1), 3=126(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2.



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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 18,2021

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



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055044
2902489	EJ04	Jack-Partial	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:32 2021 Page 1
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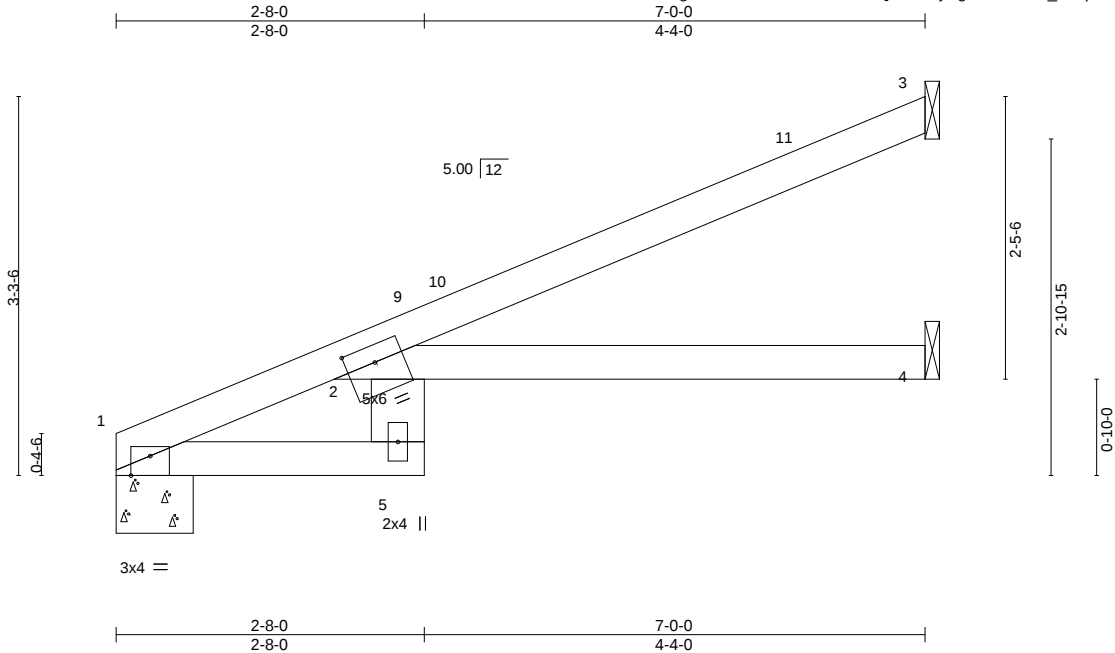


Plate Offsets (X,Y)--		[1:0-2-0,Edge], [2:0-3-0,0-1-12]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.79		Vert(LL)	0.16 5	>523	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.63		Vert(CT)	-0.29 2-4	>288	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.00		Horz(CT)	0.12 4	n/a	n/a		
BCDL 10.0		Code	FBC2020/TPI2014	Matrix-MR						Weight: 24 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-5: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

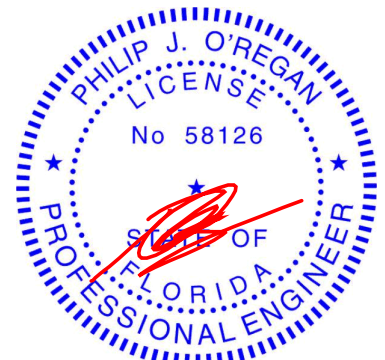
REACTIONS.

(size) 1=0-8-0, 3=Mechanical, 4=Mechanical
Max Horz 1=95(LC 12)
Max Uplift 1=-48(LC 12), 3=-68(LC 12), 4=-12(LC 12)
Max Grav 1=260(LC 1), 3=157(LC 1), 4=120(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



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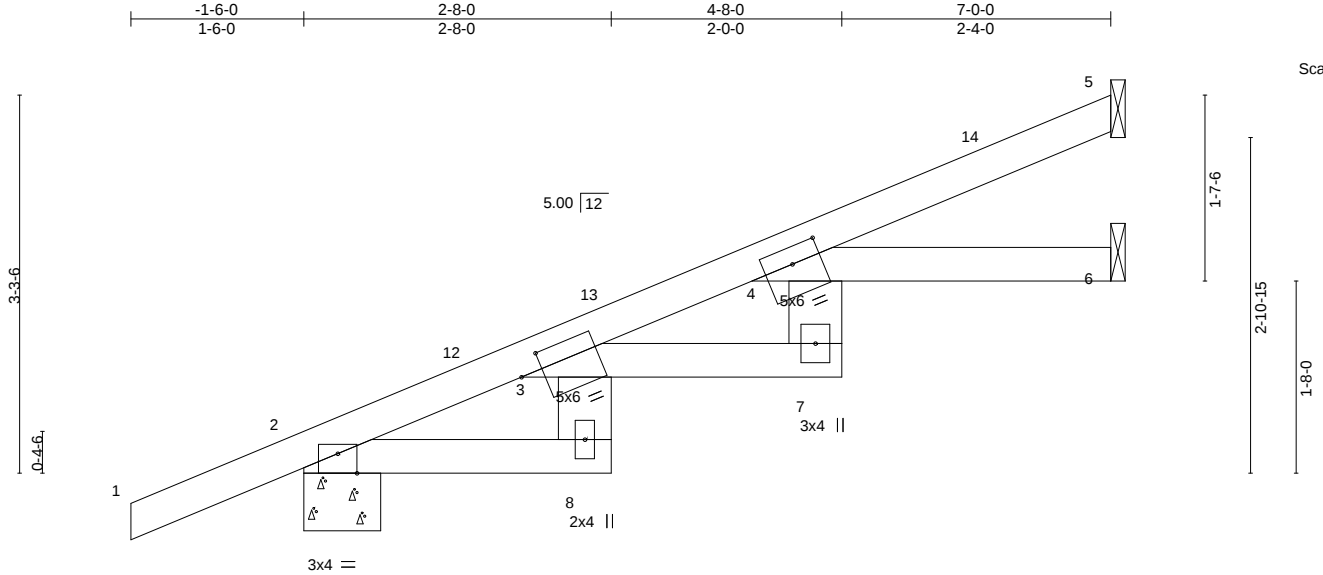


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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055045
2902489	EJ05	Jack-Partial	4	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:34 2021 Page 1
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		2-8-0		4-8-0		7-0-0					
		2-8-0		2-0-0		2-4-0					
Plate Offsets (X,Y)--		[2:0-2-0,Edge], [3:0-2-5,0-1-12], [4:0-3-0,0-1-12]									
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	0.85	Vert(LL)	0.17 7	>485	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.31 7	>273	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.15 6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR						Weight: 29 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-8,4-7: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 4-6.

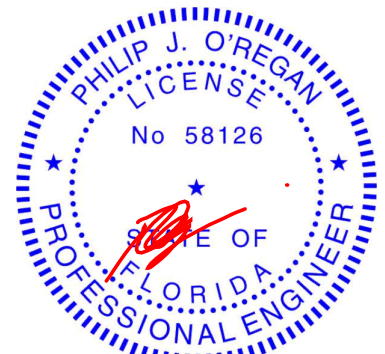
REACTIONS.

(size) 5=Mechanical, 2=0-8-0, 6=Mechanical
Max Horz 2=114(LC 12)
Max Uplift 5=-51(LC 12), 2=-83(LC 12), 6=-23(LC 12)
Max Grav 5=140(LC 1), 2=351(LC 1), 6=113(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.



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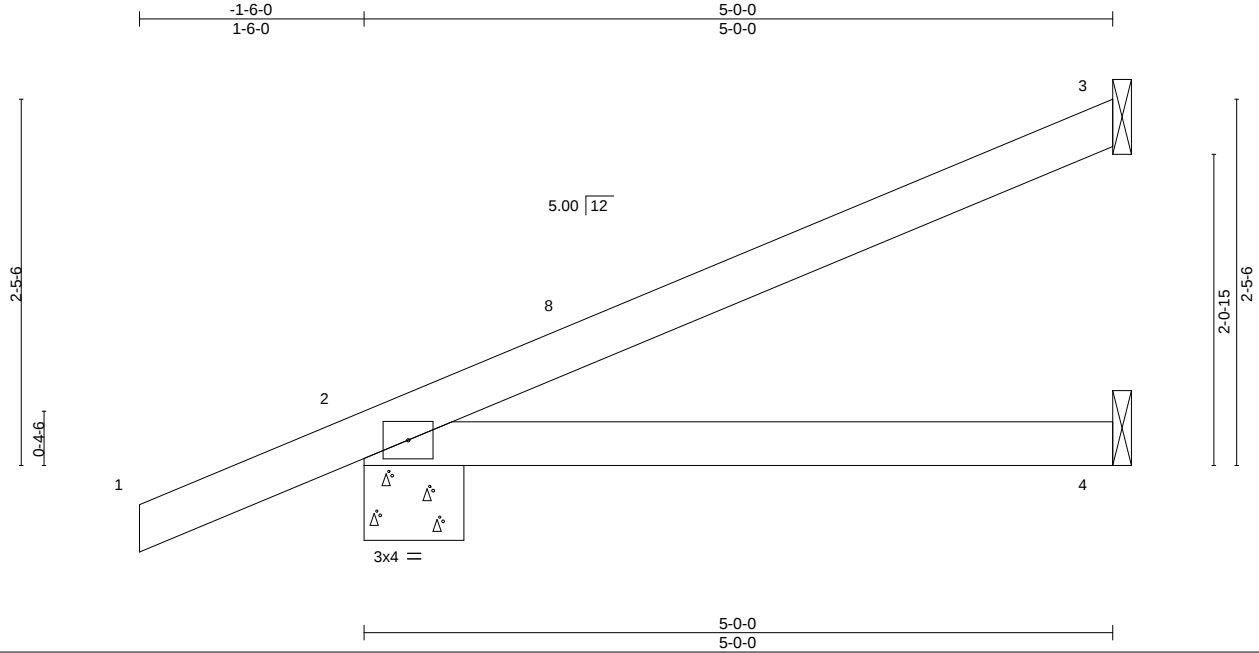


6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055046
2902489	EJ06	Jack-Partial	3	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:35 2021 Page 1
ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-K4HYP3zg_eNSXQbvMWi3hcGG02fMH6DMn4n3xvymy5Y



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.28	Vert(LL)	0.03	4-7	>999	MT20	244/190
TCDL 7.0	1.25	BC 0.23	Vert(CT)	-0.05	4-7	>999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP					Weight: 18 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

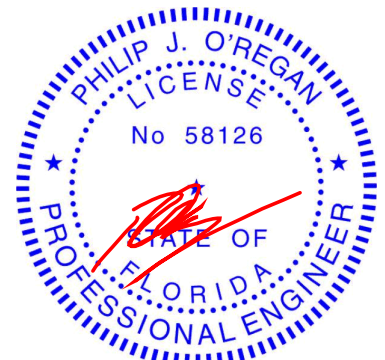
REACTIONS.

(size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=89(LC 12)
Max Uplift 3=-61(LC 12), 2=-71(LC 12)
Max Grav 3=112(LC 1), 2=276(LC 1), 4=87(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-4 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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Date:

August 18, 2021

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

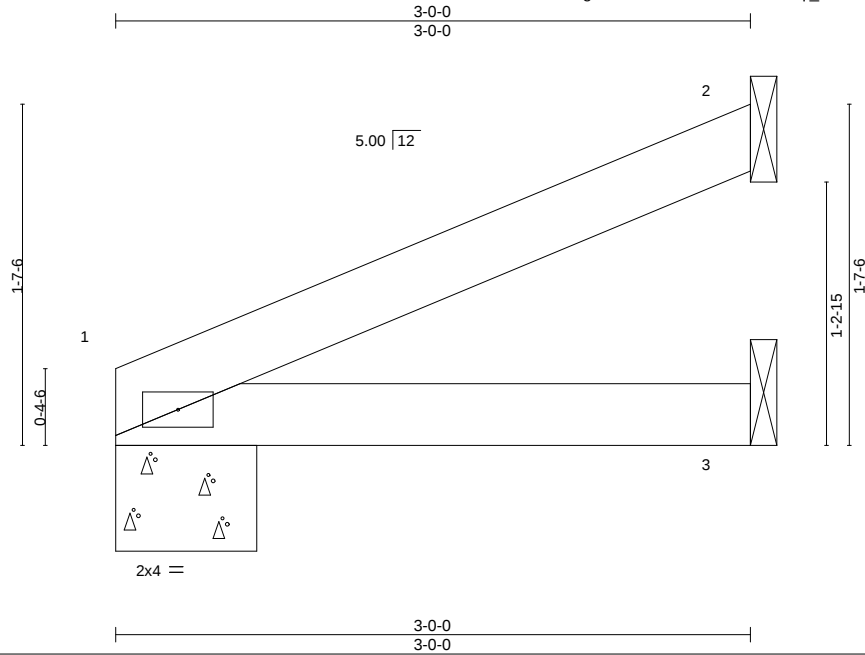


6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055047
2902489	EJ07	Jack-Open	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:37 2021 Page 1
ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-GSPJql_wWFdAnklUxlXm1LfMrN5l0ieEOGA?oymy5W



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.09	Vert(LL) -0.00	3-6	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.09	Vert(CT) -0.01	3-6	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	1	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP					Weight: 9 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

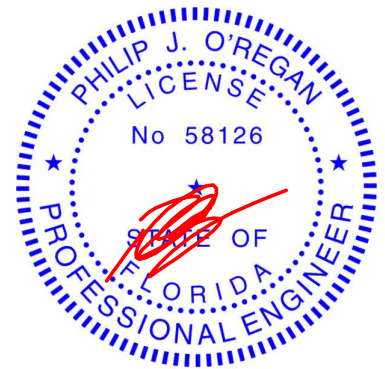
REACTIONS.

(size) 1=0-8-0, 2=Mechanical, 3=Mechanical
Max Horz 1=42(LC 12)
Max Uplift 1=-20(LC 12), 2=-36(LC 12), 3=-3(LC 12)
Max Grav 1=109(LC 1), 2=69(LC 1), 3=52(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2, 3.



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Date:

August 18,2021

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



6904 Parke East Blvd.
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Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055048
2902489	EJ08	Jack-Open Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:38 2021 Page 1

ID:PCDxLFEFGc?8hVLoJl8f1zZ5Cf-kfzh25?YHZl1OuKU1fGmJFumfFZaUTaoT2?kXEymy5V

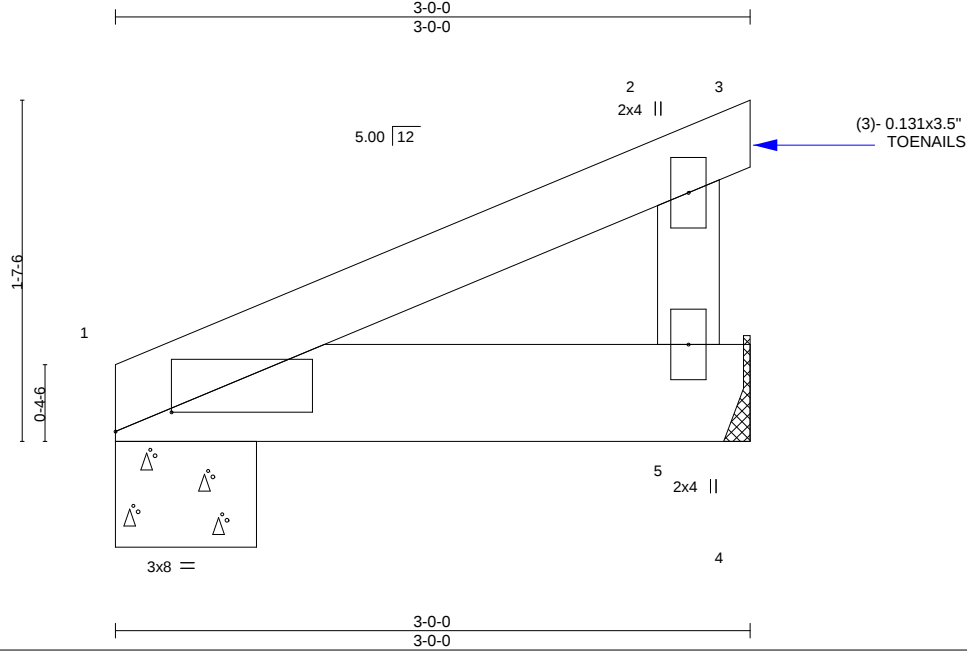


Plate Offsets (X,Y)-- [1:0-3-3,0-1-1]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.38	Vert(LL)	-0.02	7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.71	Vert(CT)	-0.03	5-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP						Weight: 13 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3'-0" oc purlins.
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS.

(size) 1=0-8-0, 5=Mechanical
Max Horz 1=42(LC 8)
Max Uplift 1=-199(LC 8), 5=-146(LC 8)
Max Grav 1=932(LC 2), 5=582(LC 2)

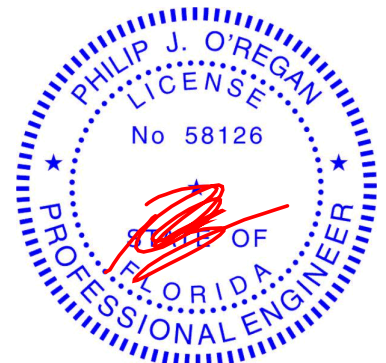
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=199, 5=146.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1331 lb down and 300 lb up at 1'-0" on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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: 1-2=-54, 2-3=-14, 1-4=-20
Concentrated Loads (lb)
Vert: 7=-1220(B)



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August 18, 2021

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

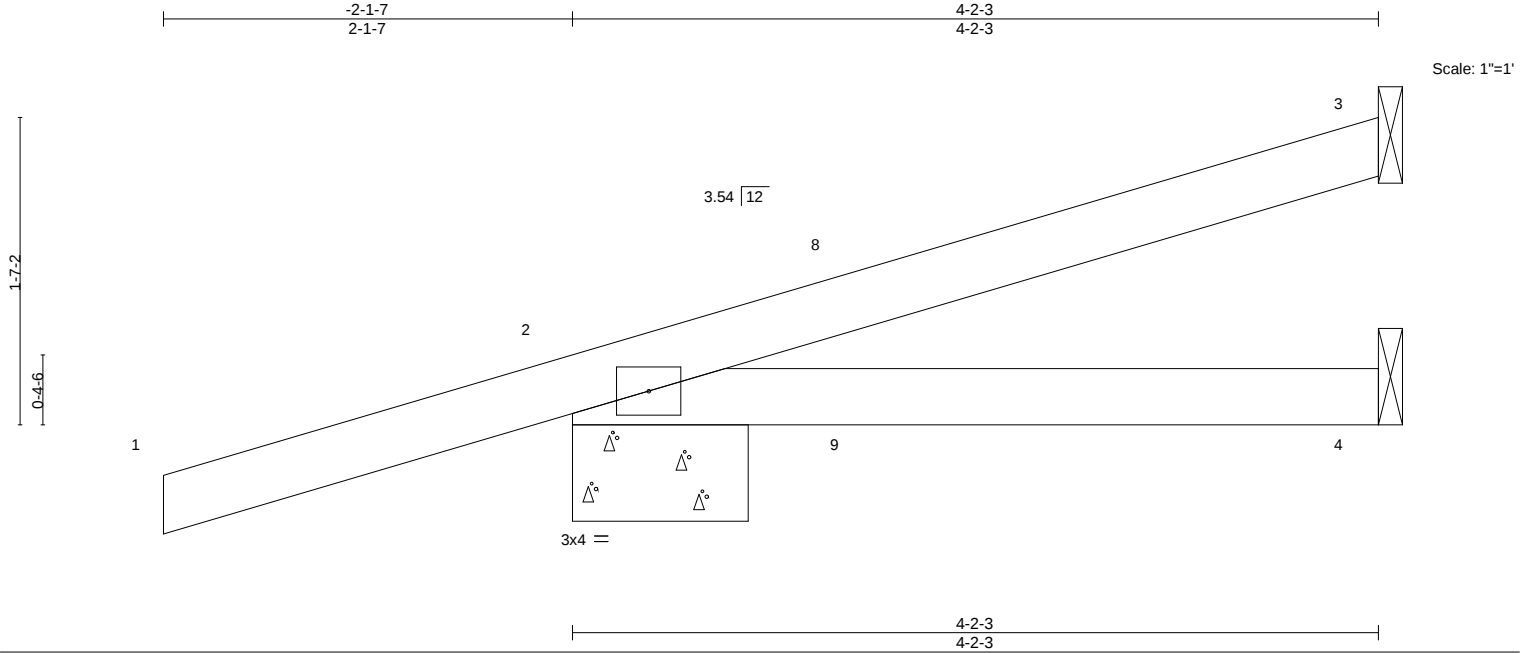


6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055049
2902489	HJ05	Diagonal Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:40 2021 Page 1
ID:PCDxLFEFGc?8hVLoJl8fL1zZ5Cf-g14RTm1opA?keBUt94IEOgz7Q3NQyNS5wMUqc7ymy5T



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.30	Vert(LL) 0.02	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.18	Vert(CT) -0.03	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP					Weight: 16 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-2-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-10-15, 4=Mechanical
Max Horz 2=70(LC 4)
Max Uplift 3=-28(LC 8), 2=-104(LC 4)
Max Grav 3=83(LC 1), 2=296(LC 1), 4=70(LC 3)

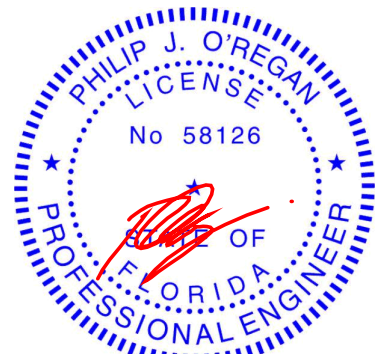
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=104.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 63 lb up at 1-6-1, and 63 lb down and 63 lb up at 1-6-1 on top chord, and 24 lb down and 37 lb up at 1-6-1, and 24 lb down and 37 lb up at 1-6-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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: 1-3=-54, 4-5=-20



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Date:

August 18, 2021

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

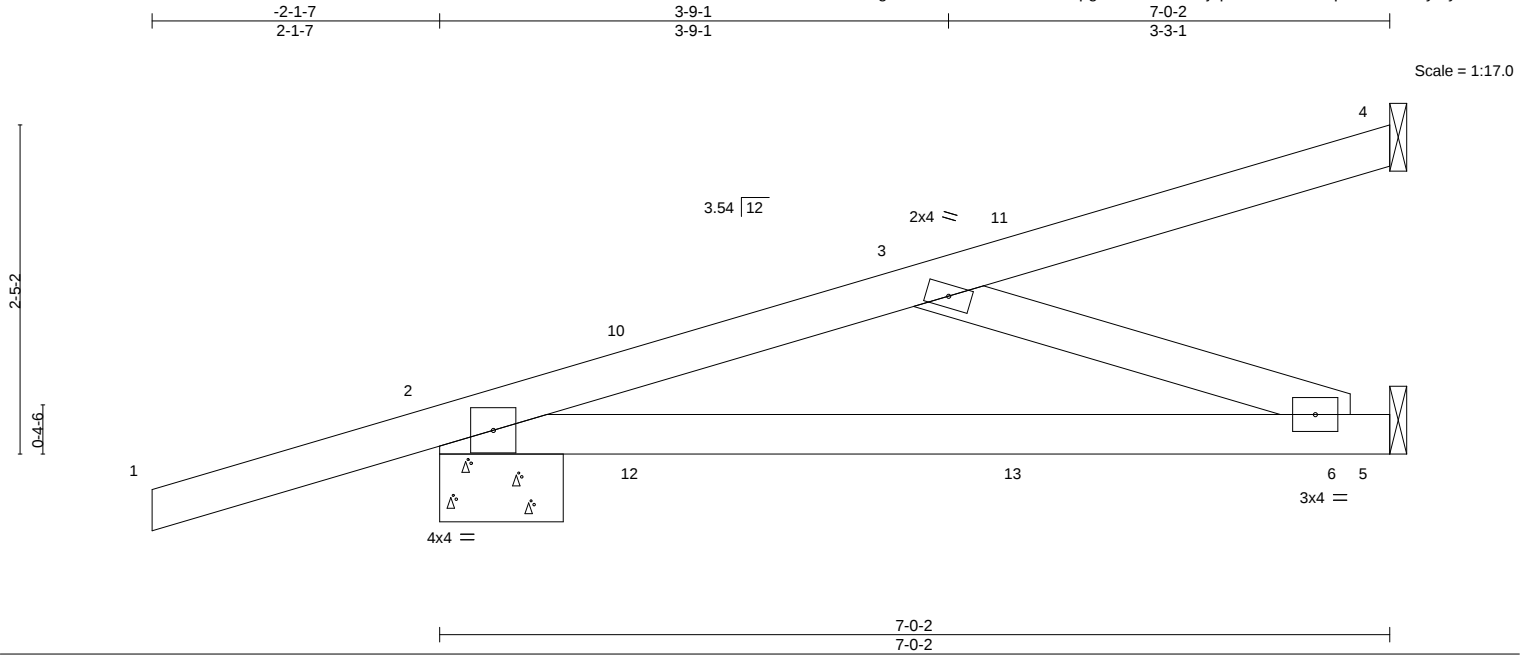


6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055050
2902489	HJ08	Diagonal Hip Girder	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:41 2021 Page 1
ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-8Depg61RaU7bFL23jnpTtWGxSeChp7E90EO8Zymy5S



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.40	Vert(LL)	-0.06	6-9	>999	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.46	Vert(CT)	-0.13	6-9	>648		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.10	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 30 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-10-15, 5=Mechanical
Max Horz 2=99(LC 4)
Max Uplift 4=-49(LC 26), 2=-134(LC 4), 5=-63(LC 5)
Max Grav 4=85(LC 19), 2=392(LC 1), 5=181(LC 3)

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

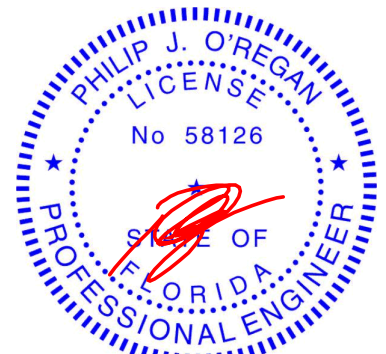
TOP CHORD 2-3=-376/101
BOT CHORD 2-6=-131/356
WEBS 3-6=-376/138

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=134.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 63 lb up at 1-6-1, 63 lb down and 63 lb up at 1-6-1, and 21 lb down and 34 lb up at 4-4-0, and 21 lb down and 34 lb up at 4-4-0 on top chord, and 47 lb down and 37 lb up at 1-6-1, 47 lb down and 37 lb up at 1-6-1, and 19 lb down and 24 lb up at 4-4-0, and 19 lb down and 24 lb up at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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: 1-4=-54, 5-7=-20
Concentrated Loads (lb)
Vert: 13=-7(F=-4, B=-4)



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

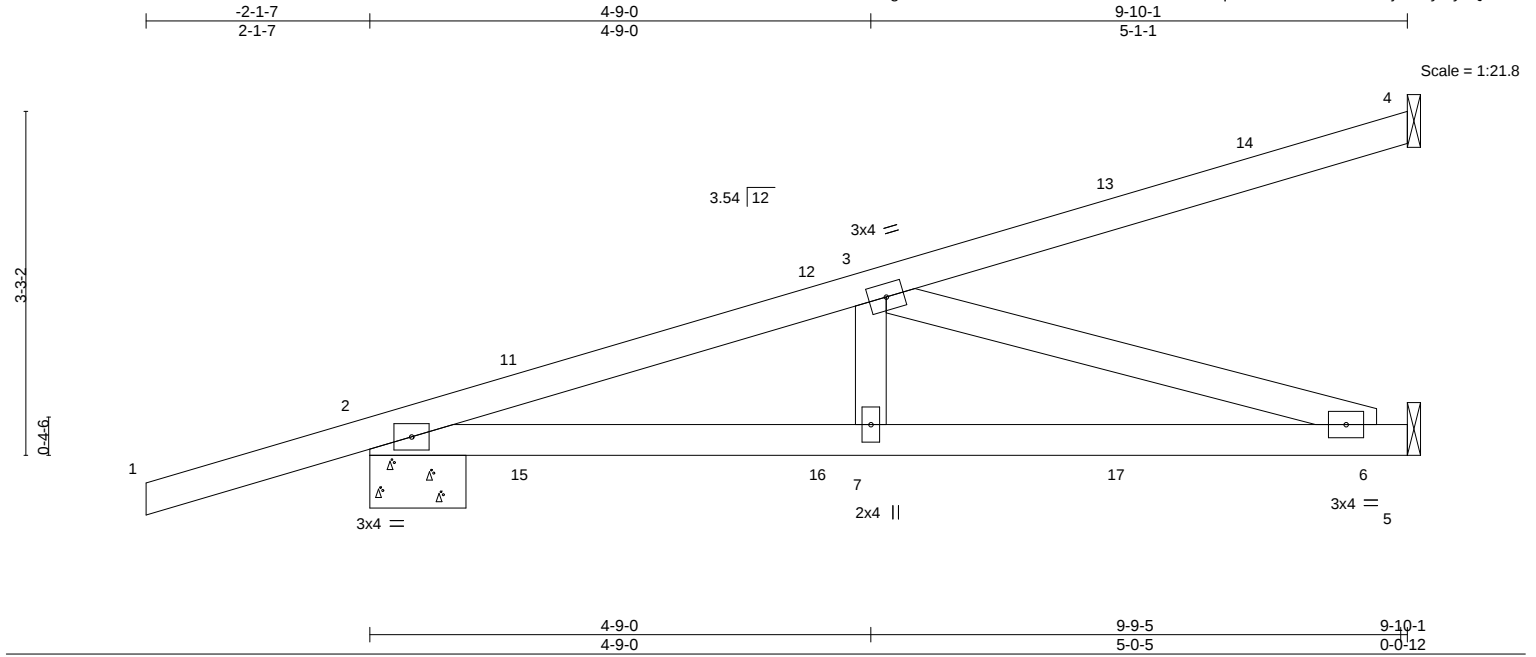


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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055051
2902489	HJ10	Diagonal Hip Girder	6	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:43 2021 Page 1
ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-5cma5o3h55OJVfCSqCsx0lbbKGJ39eVXdKjVDRymy5Q



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.51	Vert(LL)	-0.05	6-7	>999	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.56	Vert(CT)	-0.10	6-7	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.43	Horz(CT)	0.01	5	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS					Weight: 42 lb	FT = 20%
	Code FBC2020/TPI2014							

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-10-15, 5=Mechanical
Max Horz 2=124(LC 4)
Max Uplift 4=-71(LC 4), 2=-182(LC 4), 5=-114(LC 4)
Max Grav 4=141(LC 1), 2=518(LC 1), 5=295(LC 1)

FORCES.

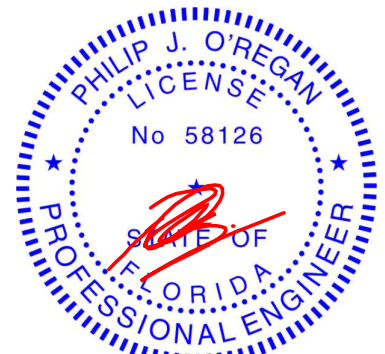
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-853/275
BOT CHORD 2-7=-318/795, 6-7=-318/795
WEBS 3-7=-35/273, 3-6=-832/333

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=182, 5=114.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 63 lb up at 1-6-1, 63 lb down and 63 lb up at 1-6-1, 14 lb down and 26 lb up at 4-4-0, 21 lb down and 34 lb up at 4-4-0, and 38 lb down and 73 lb up at 7-1-15, and 42 lb down and 72 lb up at 7-1-15 on top chord, and 47 lb down and 37 lb up at 1-6-1, 47 lb down and 37 lb up at 1-6-1, 45 lb down and 10 lb up at 4-4-0, 19 lb down and 24 lb up at 4-4-0, and 36 lb down at 7-1-15, and 40 lb down at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 13=-69(F=-36, B=-33) 16=6(F=-4, B=10) 17=-53(F=-30, B=-23)



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 18,2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



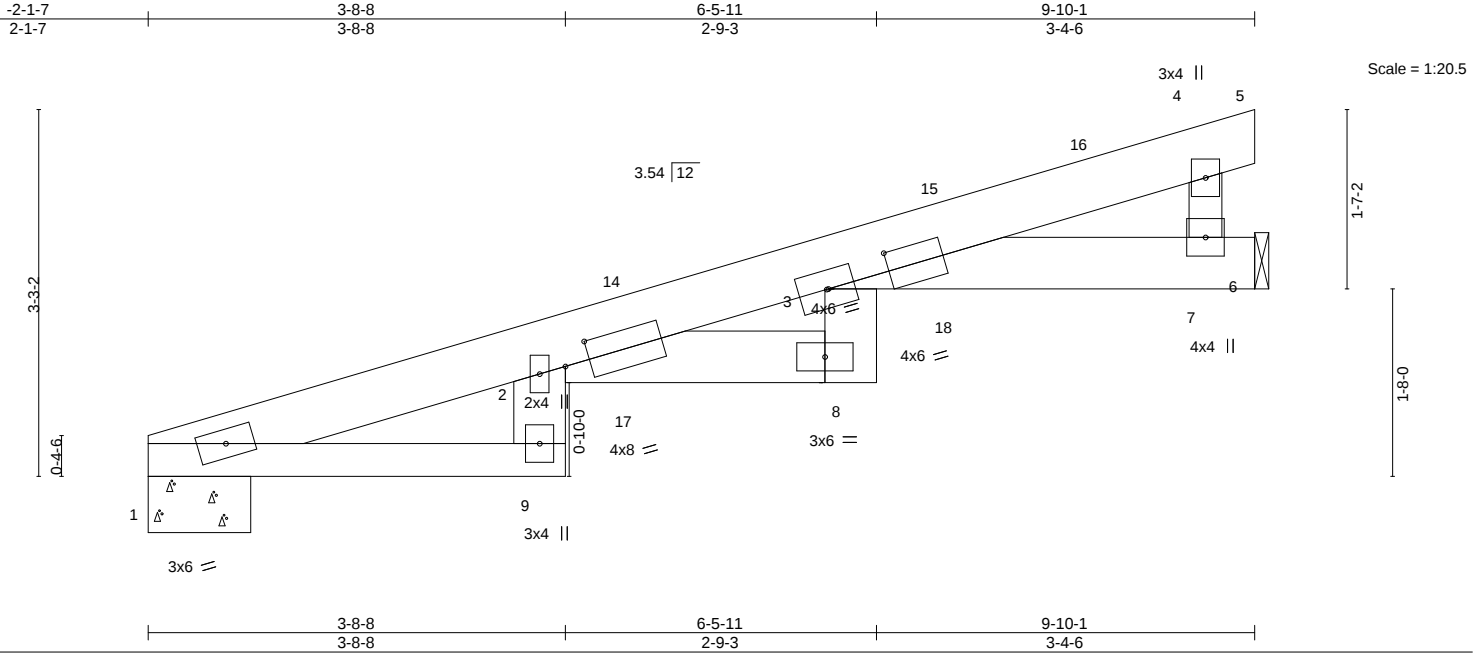
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055052
2902489	HJ10A	Diagonal Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

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ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-ZoKyl84JsPWA6pneOvNAYW8kBggtuBRgrzS2luymy5P



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	-0.15	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.27				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.09				
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MR							
								Weight: 48 lb		FT = 20%	

LUMBER-

TOP CHORD 2x6 SP M 26
 BOT CHORD 2x6 SP No.2 *Except*
 WEBS 2x4 SP No.3

REACTIONS.

(size) 1=0-10-15, 6=Mechanical
 Max Horz 1=90(LC 4)
 Max Uplift 1=-77(LC 4), 6=-146(LC 4)
 Max Grav 1=423(LC 1), 6=481(LC 1)

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

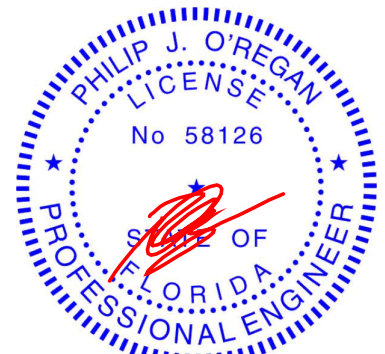
TOP CHORD 3-4=-285/69, 4-7=-281/95
 BOT CHORD 3-8=-102/328, 3-7=-101/307

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 6=146.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 57 lb down and 57 lb up at 1-6-1, 57 lb down and 57 lb up at 1-6-1, 23 lb down and 21 lb up at 4-4-0, 23 lb down and 21 lb up at 4-4-0, and 46 lb down and 43 lb up at 7-1-15, and 46 lb down and 43 lb up at 7-1-15 on top chord, and 24 lb down and 37 lb up at 1-6-1, 24 lb down and 37 lb up at 1-6-1, 17 lb down and 19 lb up at 4-4-0, 17 lb down and 19 lb up at 4-4-0, and 58 lb down and 42 lb up at 7-1-15, and 58 lb down and 42 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 2-12=-54, 2-3=-54, 3-4=-54, 4-5=-54, 1-9=-20, 2-8=-20, 3-6=-20
 Concentrated Loads (lb)
 Vert: 14=-6(F=-3, B=-3) 15=-43(F=-22, B=-22) 17=-34(F=-17, B=-17) 18=-116(F=-58, B=-58)



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

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



6904 Parke East Blvd.
 Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055053
2902489	T01	Half Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:45 2021 Page 1
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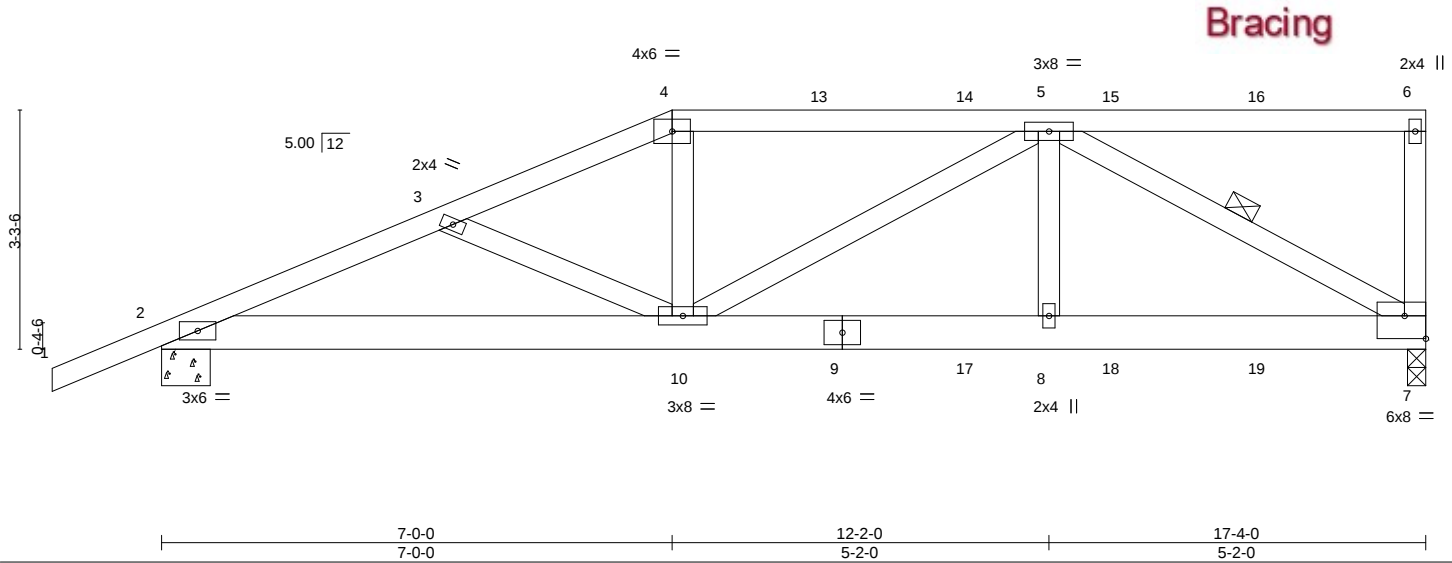


Plate Offsets (X,Y)-- [7:Edge,0-3-12]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.69	Vert(LL)	0.08	8-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.54	Vert(CT)	-0.13	8-10	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.49	Horz(CT)	0.04	7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 102 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

REACTIONS.

(size) 7=0-3-0, 2=0-8-0
Max Horz 2=119(LC 23)
Max Uplift 7=-570(LC 4), 2=-435(LC 8)
Max Grav 7=1527(LC 1), 2=1187(LC 1)

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

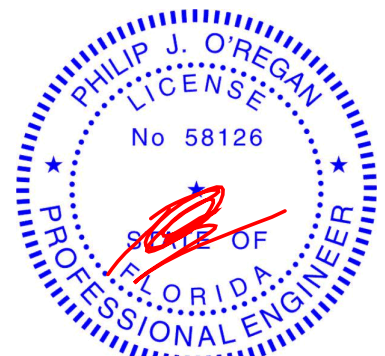
TOP CHORD 2-3=-2434/953, 3-4=-2247/898, 4-5=-2078/858, 6-7=-314/152
BOT CHORD 2-10=-940/2227, 8-10=-741/1836, 7-8=-741/1836
WEBS 4-10=-151/533, 5-10=-136/279, 5-8=-74/437, 5-7=-2071/840

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=570, 2=435.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 109 lb down and 82 lb up at 7-0-0, 109 lb down and 82 lb up at 9-0-12, 109 lb down and 82 lb up at 11-0-12, 109 lb down and 82 lb up at 13-0-12, and 114 lb down and 84 lb up at 15-0-12, and 137 lb down and 83 lb up at 17-2-4 on top chord, and 332 lb down and 207 lb up at 7-0-0, 85 lb down and 60 lb up at 9-0-12, 85 lb down and 60 lb up at 11-0-12, 85 lb down and 60 lb up at 13-0-12, and 86 lb down and 20 lb up at 15-0-12, and 104 lb down and 11 lb up at 17-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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: 1-4=-54, 4-6=-54, 2-7=-20



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Date:

August 18,2021

Continued on page 2

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



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055053
2902489	T01	Half Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:45 2021 Page 2
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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 4=-109(B) 6=-137(B) 7=-78(B) 9=-65(B) 10=-332(B) 13=-109(B) 14=-109(B) 15=-109(B) 16=-114(B) 17=-65(B) 18=-65(B) 19=-69(B)

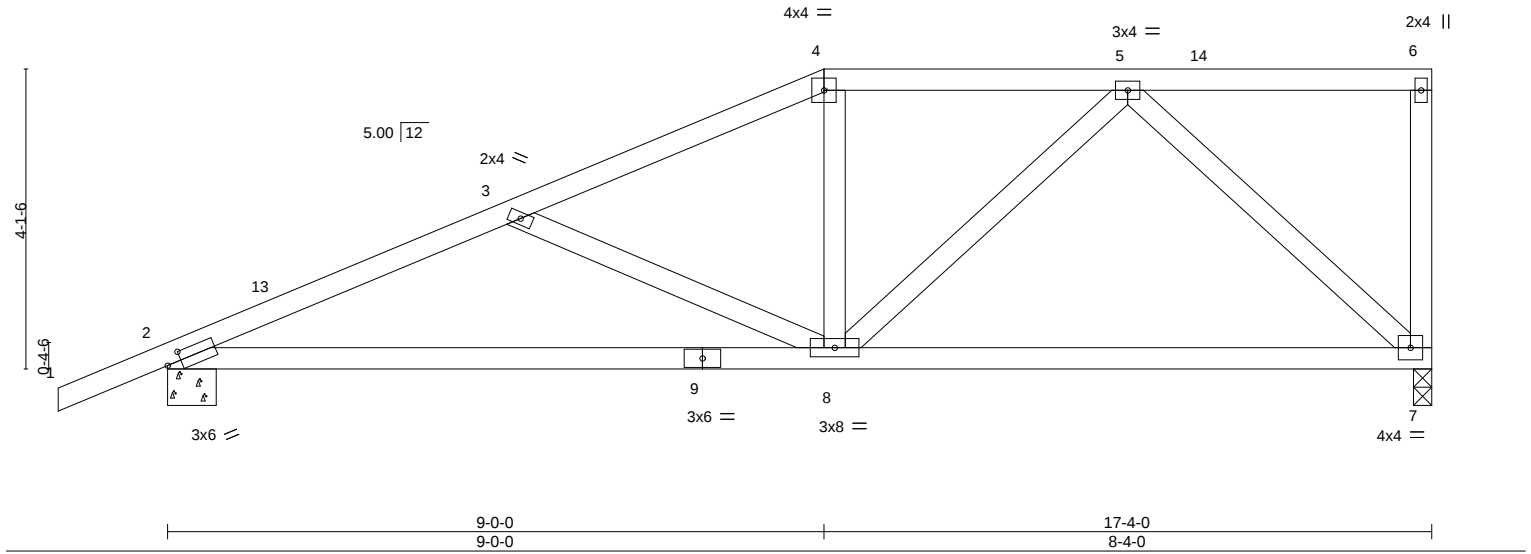
Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055054
2902489	T02	Half Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:46 2021 Page 1
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Scale = 1:31.6



LOADING (psf)		SPACING-		CSL		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.11 8-12 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.23 8-12 >893 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.02 7 n/a n/a				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
								Weight: 88 lb		FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-2-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-9-7 oc bracing.

REACTIONS.

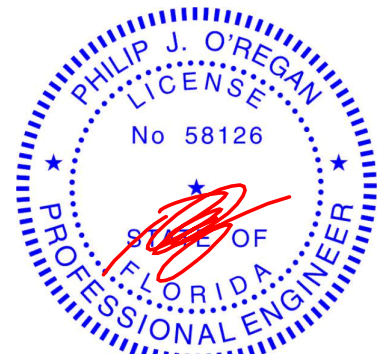
(size) 2=0-8-0, 7=0-3-0
Max Horz 2=148(LC 12)
Max Uplift 2=-184(LC 12), 7=-158(LC 8)
Max Grav 2=720(LC 1), 7=632(LC 1)

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

TOP CHORD 2-3=-1177/297, 3-4=-858/190, 4-5=-749/197
BOT CHORD 2-8=-360/1068, 7-8=-150/514
WEBS 3-8=-354/177, 5-8=-75/348, 5-7=-687/206

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-1-15, Interior(1) 13-1-15 to 17-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=184, 7=158.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
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Date:

August 18, 2021

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



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055056
2902489	T04	Half Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:47 2021 Page 1
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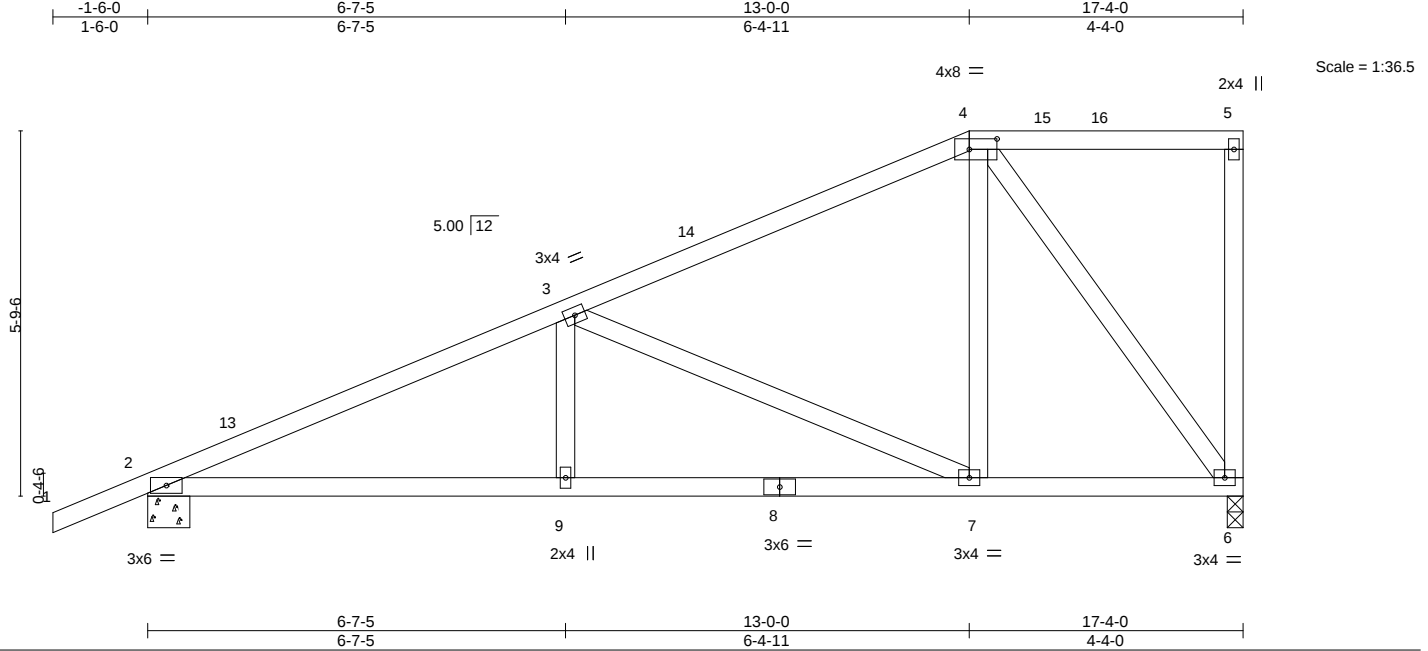


Plate Offsets (X,Y)-- [4:0-5-4,0-2-0]

LOADING (psf)	SPACING-		CSL.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.42	Vert(LL)	-0.05	9-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.46	Vert(CT)	-0.10	9-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.66	Horz(CT)	0.02	6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 95 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-2-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-10-10 oc bracing.

REACTIONS.

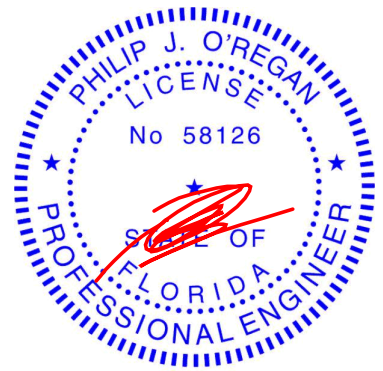
(size) 2=0-8-0, 6=0-3-0
Max Horz 2=205(LC 12)
Max Uplift 2=-173(LC 12), 6=-171(LC 12)
Max Grav 2=720(LC 1), 6=632(LC 1)

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

TOP CHORD 2-3=-1150/235, 3-4=-486/94
BOT CHORD 2-9=-348/1014, 7-9=-348/1014, 6-7=-121/390
WEBS 3-9=0/281, 3-7=-691/250, 4-7=-61/429, 4-6=-633/197

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 13-0-0, Exterior(2E) 13-0-0 to 17-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=173, 6=171.



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



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055057
2902489	T05	Half Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:48 2021 Page 1
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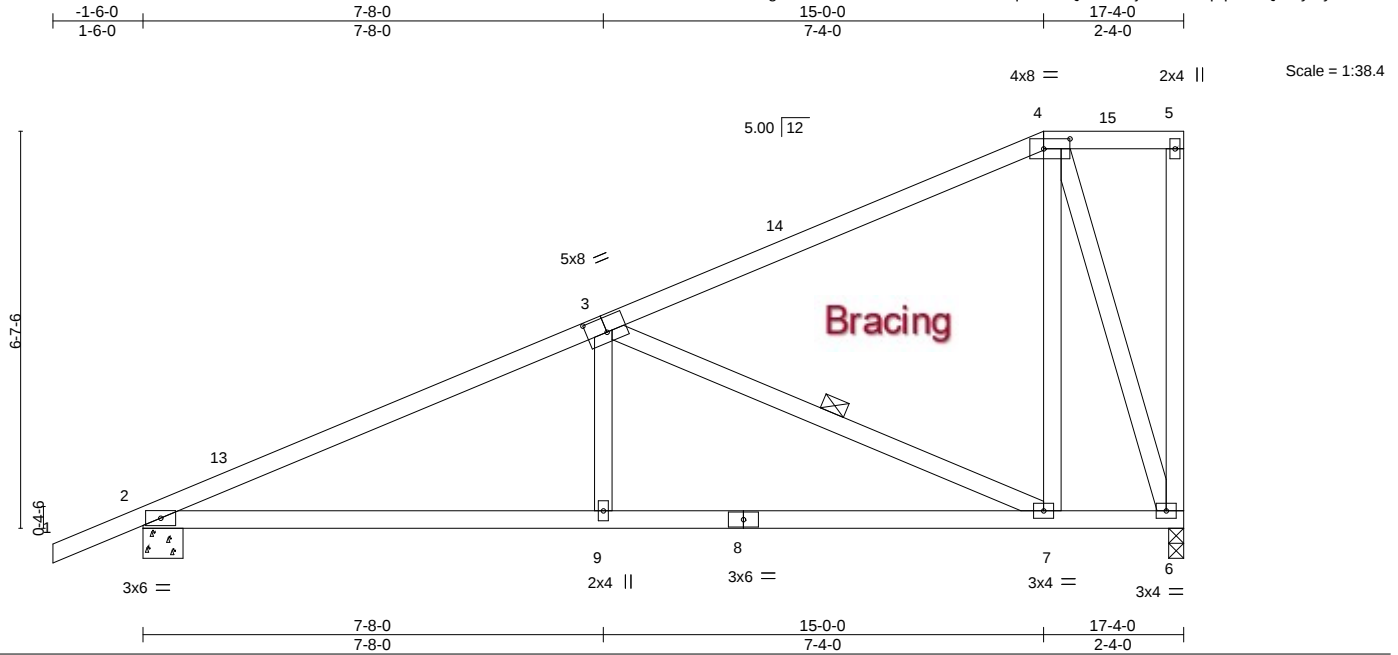


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [4:0-5-4,0-2-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.59	Vert(LL)	0.08	9-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.59	Vert(CT)	-0.17	9-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.55	Horz(CT)	0.02	6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 99 lb	FT = 20%

LUMBER-

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

REACTIONS.

(size) 6=0-3-0, 2=0-8-0
Max Horz 2=234(LC 12)
Max Uplift 6=-195(LC 12), 2=-165(LC 12)
Max Grav 6=632(LC 1), 2=720(LC 1)

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

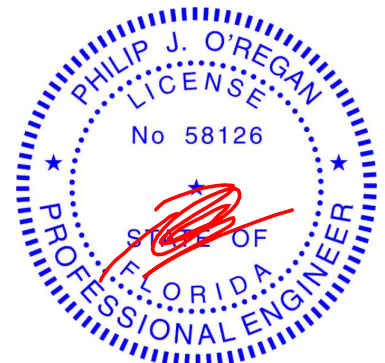
TOP CHORD 2-3=-1092/199, 3-4=-310/33
BOT CHORD 2-9=-335/953, 7-9=-335/952
WEBS 3-9=0/330, 3-7=-814/292, 4-7=-71/481, 4-6=-657/208

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 15-0-0, Exterior(2E) 15-0-0 to 17-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=195, 2=165.

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-11-9 oc bracing.
WEBS 1 Row at midpt 3-7



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Date:

August 18, 2021

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



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055058
2902489	T06	Half Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:49 2021 Page 1
ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-vm7rLr8Shx8TDagcBTzLFZreHhJTZHUP?FApQ5ymy5K

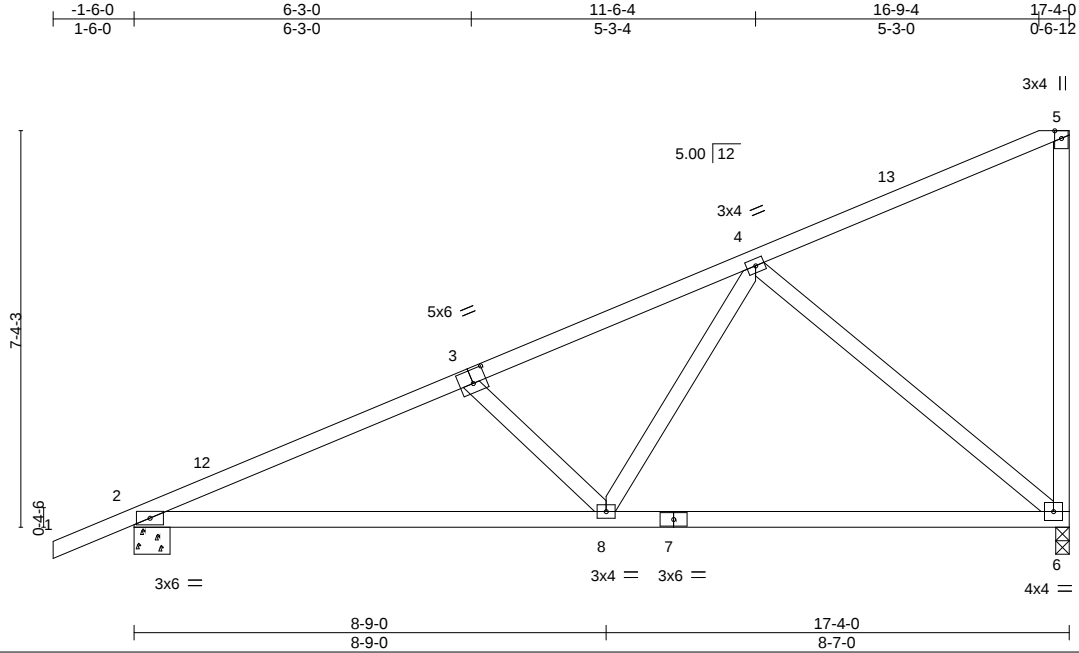


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSL.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.35	Vert(LL)	-0.12	6-8	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.76	Vert(CT)	-0.25	6-8	>821	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.72	Horz(CT)	0.02	6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						Weight: 90 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-1-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-8-7 oc bracing.

REACTIONS.

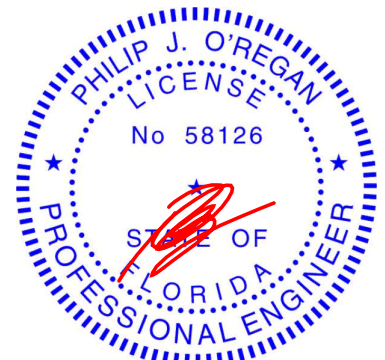
(size) 6=0-3-0, 2=0-8-0
Max Horz 2=265(LC 12)
Max Uplift 6=-223(LC 12), 2=-153(LC 12)
Max Grav 6=632(LC 1), 2=720(LC 1)

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

TOP CHORD 2-3=-1102/185, 3-4=-882/139
BOT CHORD 2-8=-362/983, 6-8=-197/516
WEBS 3-8=-319/176, 4-8=-88/545, 4-6=-666/257

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 17-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=223, 2=153.



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August 18, 2021

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



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055059
2902489	T07	Half Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:51 2021 Page 1
ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-s9FbmX9iDZOASup_it?pk_wuUuzB1EYiSZfwV_ymy5l

-1-6-0	2-8-0	4-8-0	7-0-0	10-0-8	13-1-0	15-1-0	17-4-0
1-6-0	2-8-0	2-0-0	2-4-0	3-0-8	3-0-8	2-0-0	2-3-0

Scale = 1:29.3

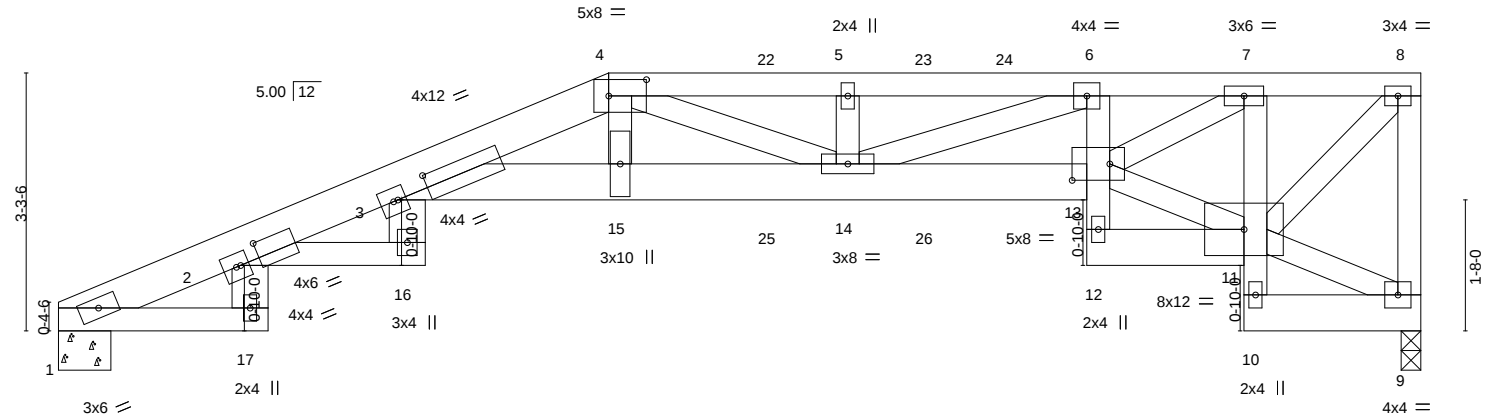


Plate Offsets (X,Y)--	[2:0-3-1,0-2-6], [3:0-4-14,0-2-0], [4:0-5-12,0-2-8], [13:0-5-12,0-2-8]
-----------------------	--

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.76	Vert(LL) -0.32	16	>652	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.87	Vert(CT) -0.59	16	>352	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.55	Horz(CT) 0.39	9	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014	Matrix-MS					Weight: 213 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP M 26 *Except*
4-8: 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
1-17,2-16: 2x4 SP No.2, 3-13: 2x6 SP M 26, 6-12,7-10: 2x4 SP No.3
WEBS 2x4 SP No.3

REACTIONS.

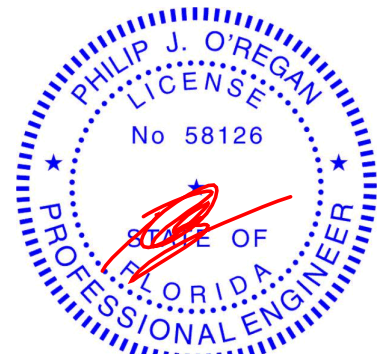
(size) 1=0-8-0, 9=0-3-0
Max Horz 1=99(LC 27)
Max Uplift 1=-340(LC 8), 9=-475(LC 4)
Max Grav 1=1230(LC 1), 9=1599(LC 1)

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

TOP CHORD 2-21=-543/90, 2-3=-668/145, 3-4=-5602/1703, 4-5=-4760/1425, 5-6=-4760/1425,
6-7=-3785/1116, 7-8=-1201/355, 8-9=-1459/465
BOT CHORD 3-16=-105/370, 3-15=-1658/5365, 14-15=-1718/5565, 13-14=-1204/4082, 6-13=-478/168,
11-12=-102/339, 7-11=-1660/521
WEBS 4-15=-512/1708, 4-14=-869/317, 5-14=-254/108, 6-14=-258/738, 11-13=-296/1010,
7-13=-854/2901, 8-11=-511/1729

NOTES-

- 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, 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 2 rows staggered at 0-2-0 oc, Except member 14-4 2x4 - 1 row at 0-9-0 oc, member 5-14 2x4 - 1 row at 0-9-0 oc, member 14-6 2x4 - 1 row at 0-9-0 oc, member 11-13 2x4 - 1 row at 0-9-0 oc, member 13-7 2x4 - 1 row at 0-9-0 oc, member 9-11 2x4 - 1 row at 0-9-0 oc, member 11-8 2x4 - 1 row at 0-9-0 oc.
- 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=340, 9=475.



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MiTek USA, Inc. FL Cert 6634
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Date:

August 18,2021

Continued on page 2

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.
2902489	T07	Half Hip Girder	1	2	T25055059

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:51 2021 Page 2
ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-s9FbmX9iDZOASup_it?pK_wuUUzB1EYiSZfwV_ymy5l

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 105 lb down and 56 lb up at 7-0-0, 86 lb down and 56 lb up at 9-0-12, 86 lb down and 56 lb up at 11-0-12, 86 lb down and 56 lb up at 13-0-12, and 103 lb down and 72 lb up at 15-0-12, and 137 lb down and 83 lb up at 17-2-4 on top chord, and 545 lb down and 218 lb up at 7-0-0, 92 lb down and 43 lb up at 9-0-12, 92 lb down and 43 lb up at 11-0-12, 92 lb down and 43 lb up at 13-2-12, and 82 lb down and 32 lb up at 15-2-12, and 104 lb down and 11 lb up at 17-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

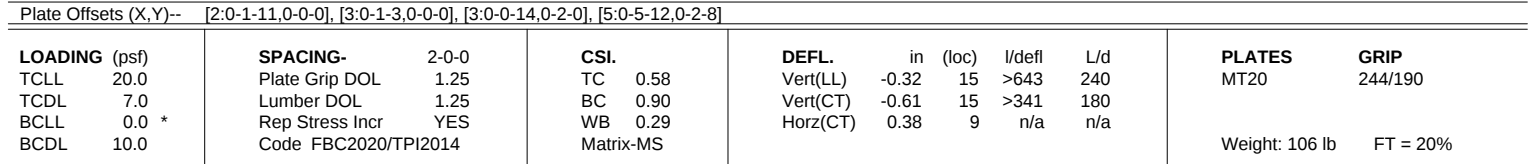
Uniform Loads (plf)

Vert: 2-20=-54, 2-3=-54, 3-4=-54, 4-8=-54, 1-17=-20, 2-16=-20, 3-13=-20, 11-12=-20, 9-10=-20

Concentrated Loads (lb)

Vert: 4=-86(F) 9=-78(F) 6=-86(F) 7=-103(F) 15=-545(F) 13=-92(F) 11=-82(F) 8=-137(F) 22=-86(F) 23=-86(F) 25=-92(F) 26=-92(F)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:52 2021 Page 1
 ID:PCDXLFEFGc?8hVLoJ8fLzZ5Cf-KLp_tAK_sW142OBsbW2tCt5_uHumlxshDOT1Qymy5H
 6-0 2-8-0 4-8-0 7-0-0 9-0-0 13-1-0 15-1-0 17-4-0
 6-0 2-8-0 2-0-0 2-4-0 2-0-0 4-1-0 2-0-0 2-3-0



REACTIONS. (size) 1=0-8-0, 9=0-3-0
 Max Horz 1=128(LC 12)
 Max Uplift 1=-141(LC 12), 9=-157(LC 8)
 Max Grav 1=642(LC 1), 9=626(LC 1)

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

TOP CHORD	2-20=-268/0, 2-3=-259/0, 3-4=-2224/626, 4-5=-1407/377, 5-6=-914/251, 6-7=-879/239, 7-8=-356/97, 8-9=-595/175
BOT CHORD	3-14=-700/2266, 13-14=-364/1284, 7-11=-637/195
WEBS	5-14=-148/628, 5-13=-416/144, 11-13=-82/320, 7-13=-217/755, 8-11=-174/641, 4-14=-1125/382

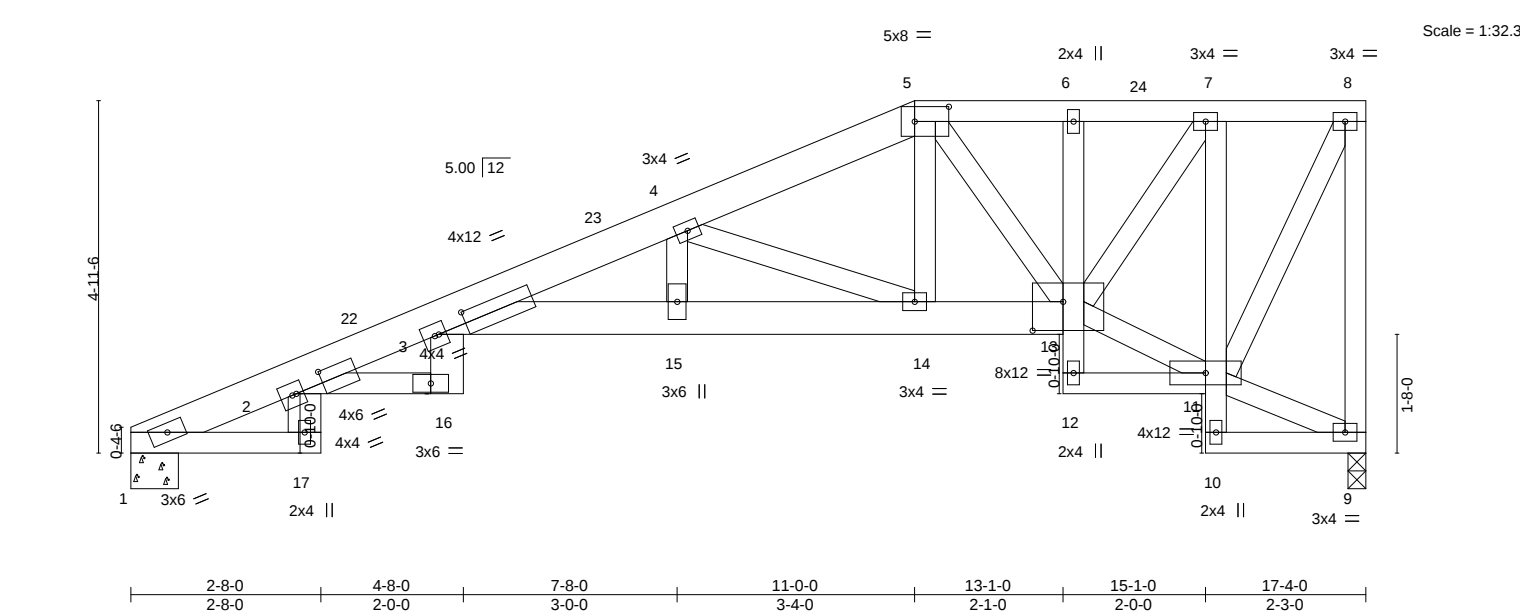
Figure 1. The effect of the number of nodes on the number of iterations required to reach the optimal solution for the 1000 nodes problem.

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-12, Interior(1) 13-2-12 to 17-2-4 zone; C/C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) Provide adequate drainage to prevent water ponding.
 - 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=141, 9=157.
- 



August 18, 2021

Builders FirstSource (Lake City, FL) Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:53 2021 Page 1
 ID:PCDxLFEEgc?8hVLoJ8f1zZ5Cf-cxNMbDBYIAeuiBzNQ1lHQpOGTlggVau?w80Zsmy5G
 1-6-0 2-8-0 4-8-0 7-8-0 11-0-0 13-1-0 15-1-0 17-4-0
 1-6-0 2-8-0 2-0-0 3-0-0 3-4-0 2-1-0 2-0-0 2-3-0



LUMBER-		BRACING-	
TOP CHORD	2x6 SP M 26 *Except* 5-8: 2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2 *Except* 2-17,3-16: 2x6 SP No.2, 3-13: 2x6 SP M 26, 6-12,7-10: 2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 1-17.
WEBS	2x4 SP No.3		

REACTIONS. (size) 1=0-8-0, 9=0-3-0
 Max Horz 1=156(LC 12)
 Max Uplift 1=-138(LC 12), 9=-152(LC 8)
 Max Grav 1=639(LC 1), 9=625(LC 1)

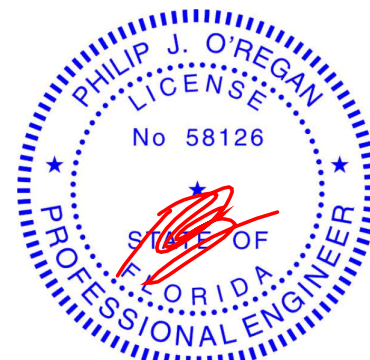
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-21=-267/0, 2-3=-304/0, 3-4=-2071/585, 4-5=-950/258, 5-6=-650/188, 6-7=-641/186, 7-8=-280/83, 8-9=-594/188
BOT CHORD	3-15=-647/1987, 14-15=-647/1987, 13-14=-257/847, 7-11=-622/209
WEBS	4-15=-94/417, 4-14=-1257/428, 5-14=-132/506, 5-13=-323/112, 11-13=-76/254, 7-13=-195/624, 8-11=-179/606

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-12, Interior(1) 15-2-12 to 17-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=138, 9=152.





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Date:

August 18, 2021



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6904 Parke East Blvd
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055062
2902489	T10	Half Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:55 2021 Page 1
ID:PCDxLFEFGc?8hVLoJl8fL1zZ5Cf-kwU6cvCDHnucxV7mXj3lVq5cy6M8z1AINBd7elymy5E

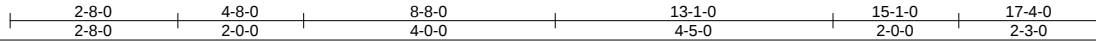
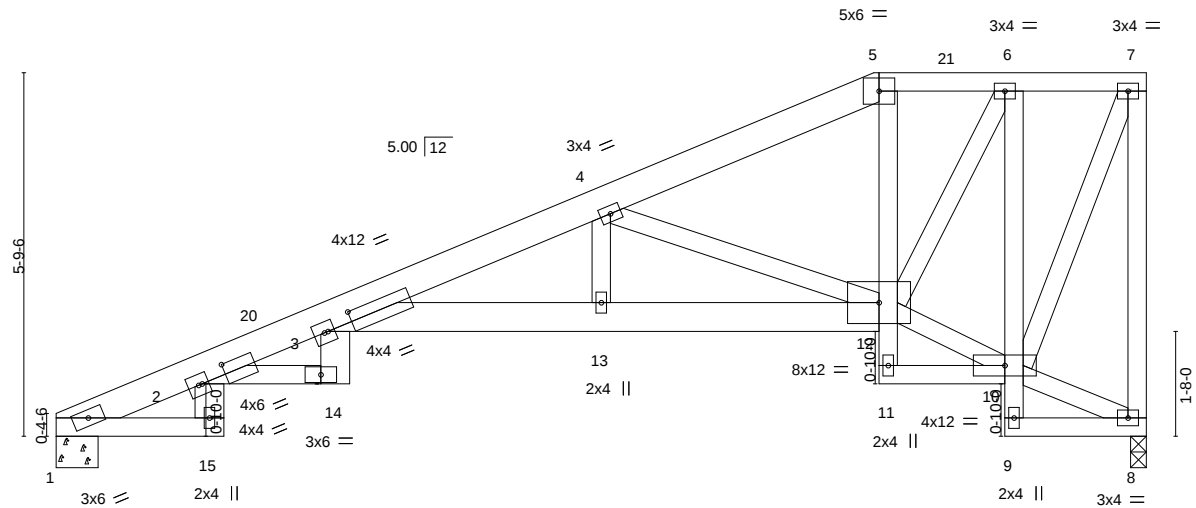


Plate Offsets (X,Y)-- [2:0-4-13,0-2-0], [3:0-4-14,0-2-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.60	Vert(LL)	-0.30	14	>686	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.74	Vert(CT)	-0.56	14	>367	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.35	8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 125 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP M 26 *Except*
5-7: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-15,3-14: 2x6 SP No.2, 3-12: 2x6 SP M 26, 5-11,6-9: 2x4 SP No.3
WEBS 2x4 SP No.3

REACTIONS.

(size) 1=0-8-0, 8=0-3-0
Max Horz 1=185(LC 12)
Max Uplift 1=-126(LC 12), 8=-145(LC 12)
Max Grav 1=639(LC 1), 8=625(LC 1)

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

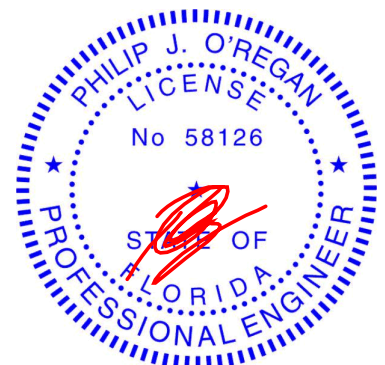
TOP CHORD 2-19=-267/0, 2-3=-304/0, 3-4=-1749/452, 4-5=-613/152, 5-6=-502/161, 7-8=-594/202
BOT CHORD 3-13=-538/1663, 12-13=-538/1663, 6-10=-598/216
WEBS 4-13=-72/421, 4-12=-1249/426, 6-12=-181/564, 7-10=-188/584

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 13-1-0, Exterior(2E) 13-1-0 to 17-2-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=126, 8=145.

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: 1-15.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 18,2021

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



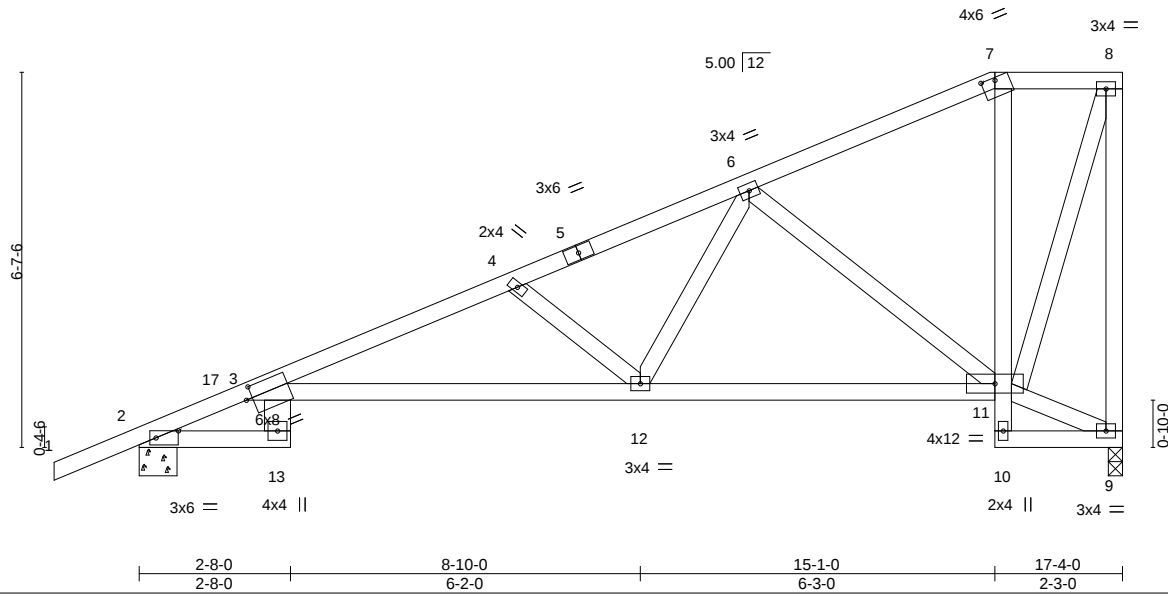
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055063
2902489	T11	Half Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:56 2021 Page 1

ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-C62UpFDr150TZfiy5Rb_12eijVhWiWeRcrMhABymy5D



Scale = 1:40.6

Plate Offsets (X,Y)-- [2:0-4-12,Edge], [3:0-1-6,0-2-8], [7:0-3-0,0-0-9]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.92	Vert(LL)	0.40	3-12	>510	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.79	Vert(CT)	-0.77	3-12	>267	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.43	Horz(CT)	0.34	9	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS						Weight: 105 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
1-5: 2x4 SP M 31
BOT CHORD 2x4 SP No.2 *Except*
3-13: 2x6 SP No.2, 3-11: 2x4 SP M 31, 7-10: 2x4 SP No.3
WEBS 2x4 SP No.3

REACTIONS.

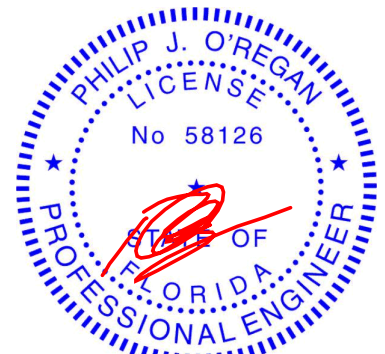
(size) 9=0-3-0, 2=0-8-0
Max Horz 2=234(LC 12)
Max Uplift 9=181(LC 12), 2=162(LC 12)
Max Grav 9=633(LC 1), 2=724(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-15=-399/0, 3-4=-1484/357, 4-6=-1159/266, 6-7=-269/45, 8-9=-597/200
BOT CHORD 3-13=-84/269, 3-12=-501/1405, 11-12=-253/715
WEBS 4-12=-515/231, 6-12=-158/646, 6-11=-659/245, 8-11=-188/586

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 15-1-0, Exterior(2E) 15-1-0 to 17-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=181, 2=162.



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August 18,2021

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



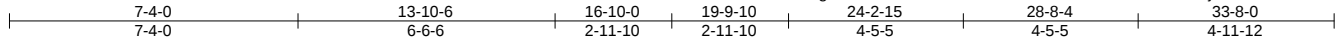
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055065
2902489	T13	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:58 2021 Page 1

ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-9VAFewF5ZiHBozskCsdS7Tj3uJPkAlnk39mF4ymy5B



Scale = 1:58.6

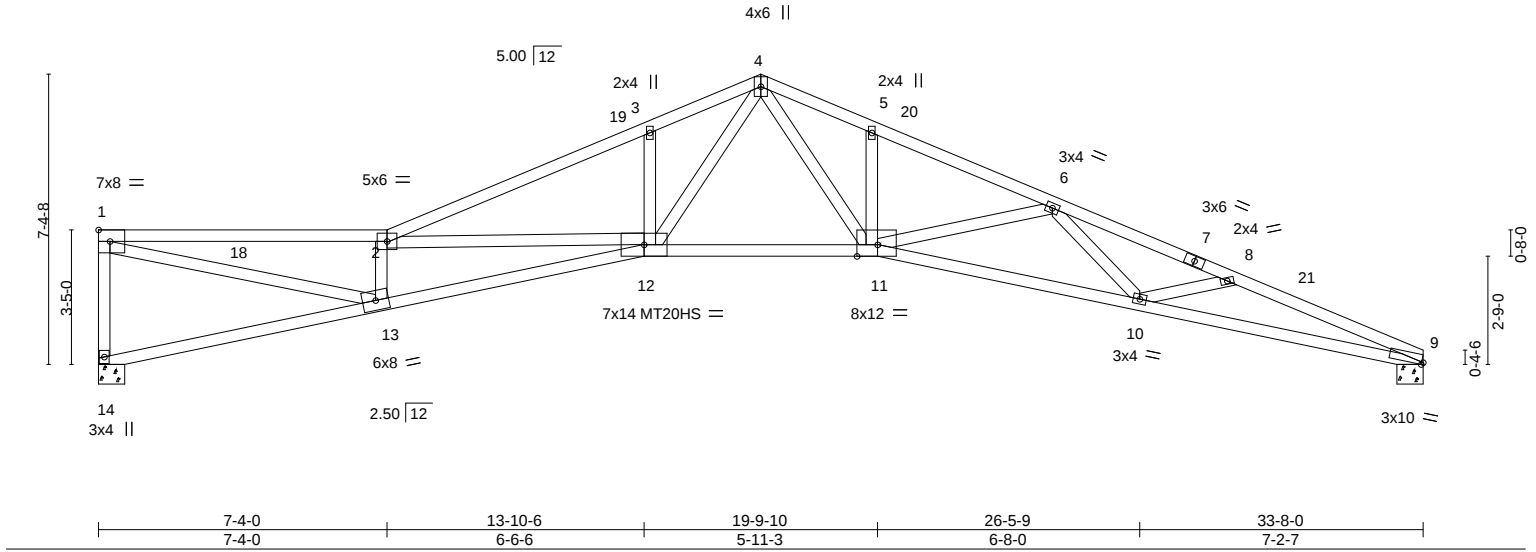


Plate Offsets (X,Y)--		[9:0-0-8,Edge], [11:0-6-5,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.87	Vert(LL)	-0.48 10-11	>830	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.92 10-11	>438	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.47 9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS						Weight: 170 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP M 31 *Except*
4-7,7-9: 2x4 SP No.2
BOT CHORD 2x4 SP M 31 *Except*
11-12: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
1-13: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-6-4 oc bracing.

REACTIONS.

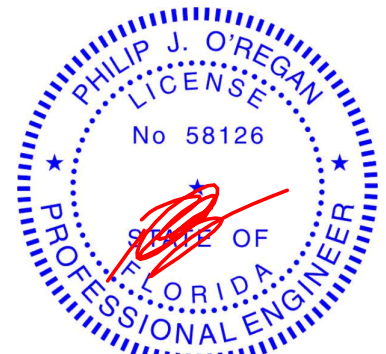
(size) 14=0-8-0, 9=0-8-0
Max Horz 14=-164(LC 13)
Max Uplift 14=-267(LC 12), 9=-259(LC 13)
Max Grav 14=1240(LC 1), 9=1240(LC 1)

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

TOP CHORD 1-14=-1173/283, 1-2=-3947/781, 2-3=-3647/667, 3-4=-3646/757, 4-5=-3595/725,
5-6=-3614/673, 6-8=-4370/811, 8-9=-4561/929
BOT CHORD 12-13=-837/4189, 11-12=-324/2399, 10-11=-668/3990, 9-10=-825/4220
WEBS 1-13=-788/4007, 2-13=-1695/415, 2-12=-841/259, 3-12=-327/198, 4-12=-425/1632,
4-11=-358/1578, 6-11=-655/273, 6-10=-32/336

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-6-2, Interior(1) 3-6-2 to 16-10-0, Exterior(2R) 16-10-0 to 20-2-6, Interior(1) 20-2-6 to 33-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- 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.
- Bearing at joint(s) 14, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=267, 9=259.



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Date:

August 18,2021

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

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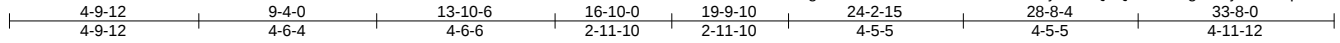
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.
2902489	T14	Roof Special	1	1	T25055066

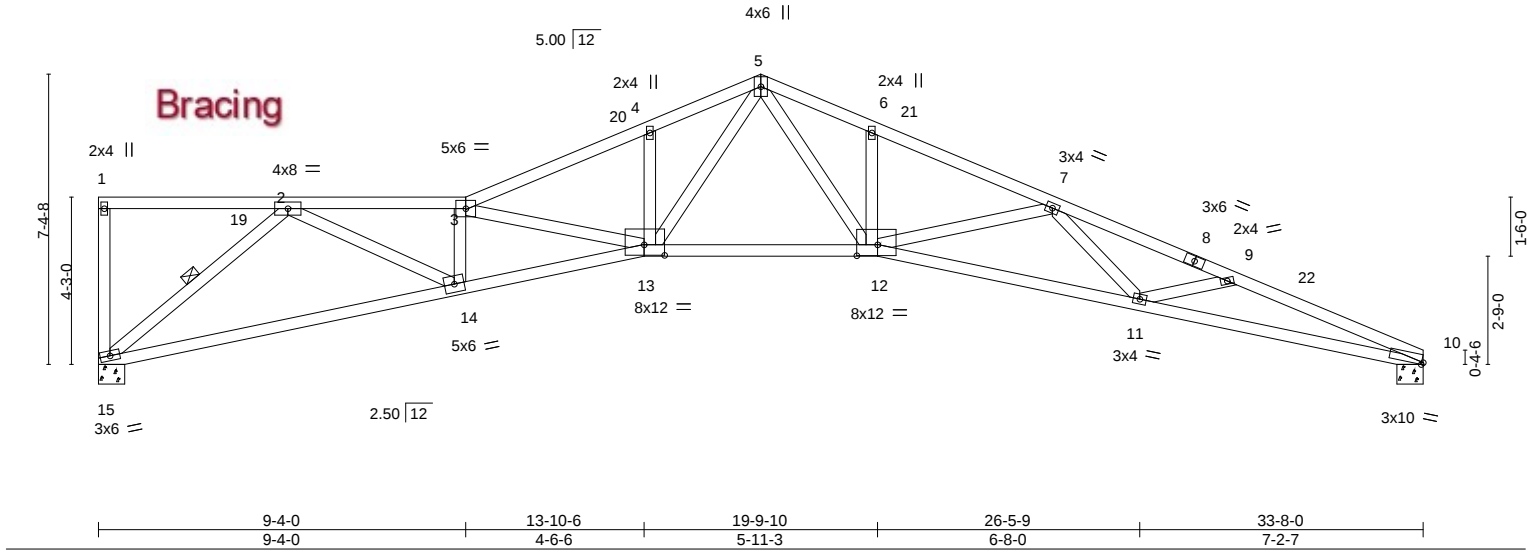
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:59 2021 Page 1

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Scale = 1:58.6



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.87	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.66	Vert(LL) -0.46 11-12 >870 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.93	Vert(CT) -0.88 11-12 >459 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.46 10 n/a n/a		
	Code FBC2020/TPI2014			Weight: 174 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP M 31 *Except*
WEBS 2x4 SP No.3

REACTIONS.

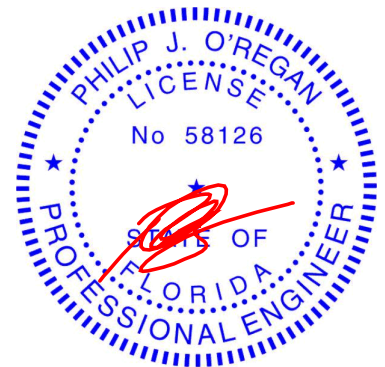
(size) 15=0-8-0, 10=0-8-0
Max Horz 15=-181(LC 13)
Max Uplift 15=-270(LC 12), 10=-258(LC 13)
Max Grav 15=1240(LC 1), 10=1240(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3796/701, 3-4=-3587/648, 4-5=-3588/712, 5-6=-3595/713, 6-7=-3615/660,
7-9=-4370/803, 9-10=-4560/921
BOT CHORD 14-15=-337/1659, 13-14=-711/3980, 12-13=-314/2399, 11-12=-657/3990,
10-11=-818/4220
WEBS 2-15=-2095/470, 2-14=-387/2448, 3-14=-1415/304, 3-13=-673/177, 5-13=-377/1562,
5-12=-355/1580, 7-12=-654/274, 7-11=-33/334

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-6-2, Interior(1) 3-6-2 to 16-10-0, Exterior(2R) 16-10-0 to 20-2-6, Interior(1) 20-2-6 to 33-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 15, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=270, 10=258.



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



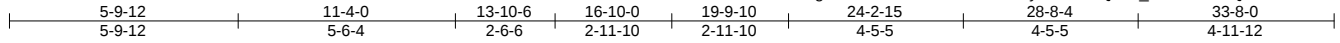
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055067
2902489	T15	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:01 2021 Page 1

ID:PCDXLFEFGc?8hVLoJl8fL1zZ5Cf-Z4sNtyHzsdfmfQavu_A9k5La8WQ1Nh9AI74RrPymy58



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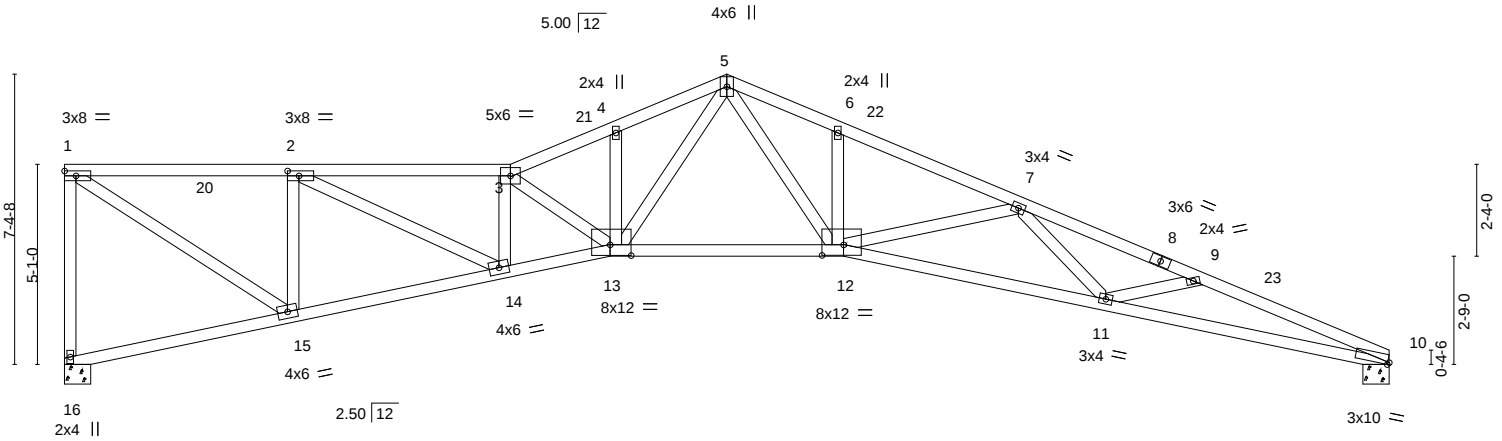


Plate Offsets (X,Y)--	[2:0-3-8,0-1-8], [10:0-0-8,Edge], [12:0-6-9,0-3-4], [13:0-6-6,0-3-4]
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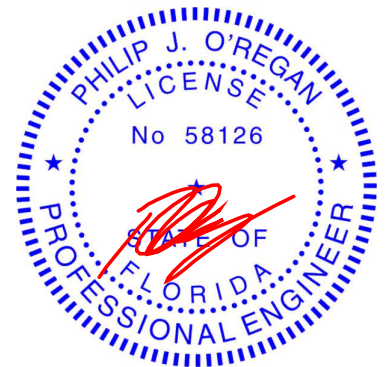
LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.87	Vert(LL)	-0.45 11-12	>887	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.64	Vert(CT)	-0.86 11-12	>468	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.80	Horz(CT)	0.43 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 180 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-10 oc purlins, except end verticals.
BOT CHORD 2x4 SP M 31 *Except*	BOT CHORD Rigid ceiling directly applied or 8-8-0 oc bracing.
12-13: 2x4 SP No.2	
WEBS 2x4 SP No.3	

REACTIONS. (size) 16=0-8-0, 10=0-8-0
Max Horz 16=-197(LC 13)
Max Uplift 16=-274(LC 12), 10=-255(LC 13)
Max Grav 16=1240(LC 1), 10=1240(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-1193/275, 1-2=-1637/330, 2-3=-3527/639, 3-4=-3553/629, 4-5=-3548/677,
5-6=-3592/697, 6-7=-3614/646, 7-9=-4370/794, 9-10=-4560/912
BOT CHORD 14-15=-281/1677, 13-14=-608/3684, 12-13=-300/2401, 11-12=-644/3990,
10-11=-809/4220
WEBS 1-15=-390/1941, 2-15=-1269/320, 2-14=-363/2100, 3-14=-1272/255, 3-13=-464/139,
5-13=-335/1518, 5-12=-352/1573, 7-12=-654/274, 7-11=-34/335

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-6-2, Interior(1) 3-6-2 to 16-10-0, Exterior(2R) 16-10-0 to 20-2-6, Interior(1) 20-2-6 to 33-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 16, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=274, 10=255.



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Date:

August 18,2021

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



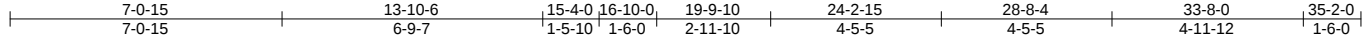
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055069
2902489	T17	Roof Special	1	1	Job Reference (optional)	

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8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:03 2021 Page 1

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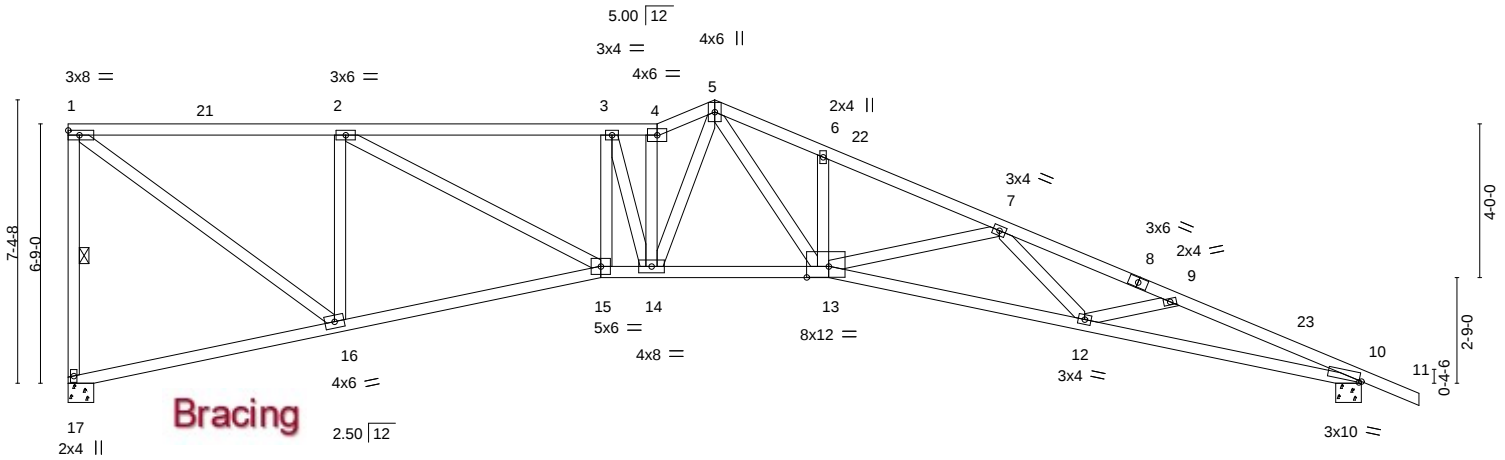


Plate Offsets (X,Y)--	[10:0-0-12,0-0-7], [13:0-6-14,0-3-6]
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LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.92	Vert(LL)	-0.42 12-13	>955	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.59	Vert(CT)	-0.80 12-13	>501	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.66	Horz(CT)	0.37 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 195 lb	FT = 20%

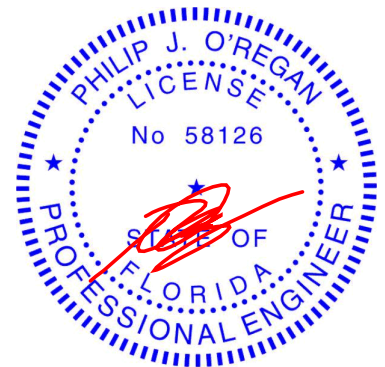
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 1-9-15 oc purlins, except end verticals.
BOT CHORD 2x4 SP M 31 *Except* 13-15: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-1-3 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 1-17

REACTIONS. (size) 17=0-8-0, 10=0-8-0
Max Horz 17=-248(LC 13)
Max Uplift 17=-293(LC 8), 10=-282(LC 13)
Max Grav 17=1238(LC 1), 10=1323(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-1182/277, 1-2=-1400/277, 2-3=-2740/470, 3-4=-2751/463, 4-5=-2994/510, 5-6=-3574/644, 6-7=-3598/587, 7-9=-4335/736, 9-10=-4513/852
BOT CHORD 16-17=-95/257, 15-16=-155/1438, 14-15=-336/2755, 13-14=-242/2403, 12-13=-574/3968, 10-12=-733/4171
WEBS 1-16=-339/1722, 2-16=-1152/308, 2-15=-248/1528, 3-15=-371/138, 4-14=-952/150, 5-14=-207/1083, 5-13=-340/1543, 7-13=-648/271, 7-12=-28/336

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-6-2, Interior(1) 3-6-2 to 16-10-0, Exterior(2R) 16-10-0 to 20-2-6, Interior(1) 20-2-6 to 35-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 17, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=293, 10=282.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 18, 2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



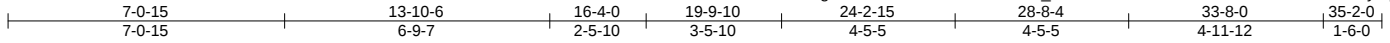
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055070
2902489	T18	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

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ID:PCDxLFEFgc78hVLoJl8fL1zZ5Cf-zfXWV_Js9Y1KWuJUz6ksMkz3hkRPa2MdS5l6Skymy55



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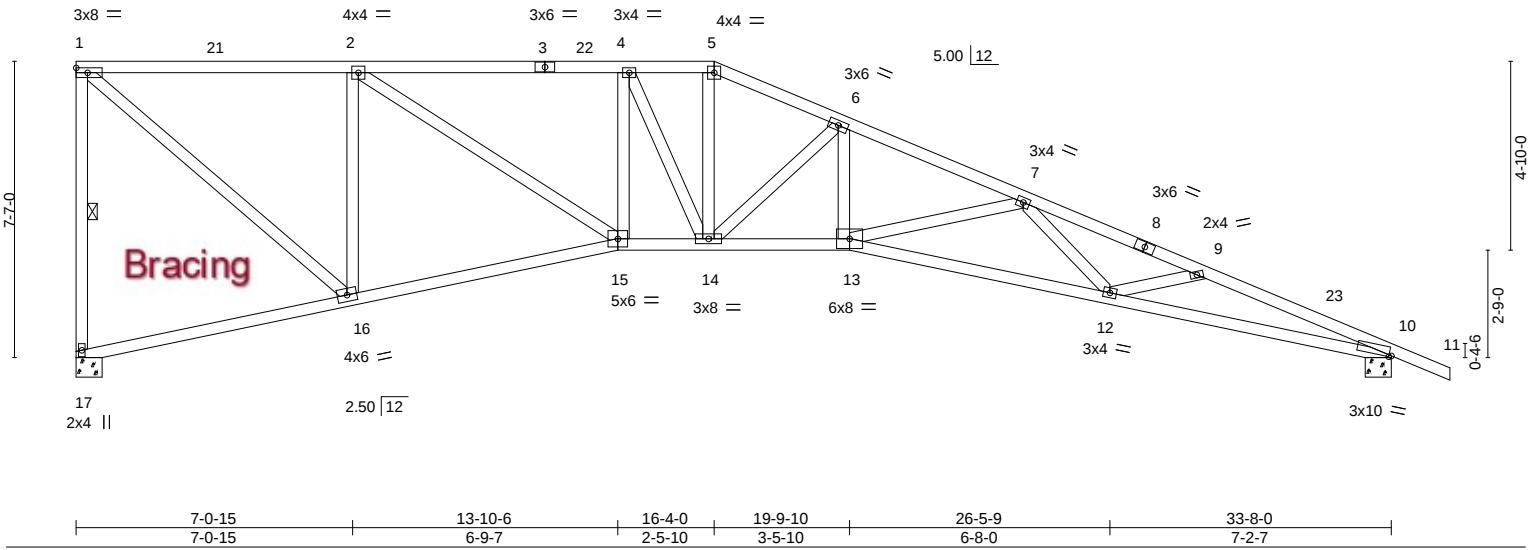


Plate Offsets (X,Y)--		[10:0-0-12,0-0-7]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.92	Vert(LL)	-0.40 12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.77 12-13	>524	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.35 10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS						Weight: 195 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP M 31 *Except*
13-15: 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-9-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-1-5 oc bracing.
WEBS 1 Row at midpt 1-17

REACTIONS.

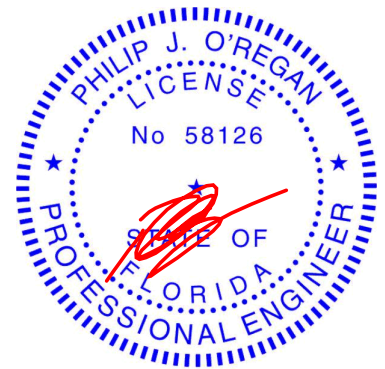
(size) 17=0-8-0, 10=0-8-0
Max Horz 17=-267(LC 13)
Max Uplift 17=-312(LC 9), 10=-282(LC 13)
Max Grav 17=1238(LC 1), 10=1323(LC 1)

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

TOP CHORD 1-17=-1181/286, 1-2=-1205/249, 2-4=-2233/410, 4-5=-2281/406, 5-6=-2483/423,
6-7=-3603/562, 7-9=-4334/733, 9-10=-4515/851
BOT CHORD 16-17=-107/277, 15-16=-74/1240, 14-15=-224/2245, 13-14=-360/3225, 12-13=-552/3964,
10-12=-732/4174
WEBS 1-16=-324/1573, 2-16=-1114/312, 2-15=-201/1237, 4-15=-354/150, 5-14=-139/852,
6-14=-1311/296, 6-13=-159/1095, 7-13=-611/266, 7-12=-29/340

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-6-2, Interior(1) 3-6-2 to 16-4-0, Exterior(2R) 16-4-0 to 19-7-14, Interior(1) 19-7-14 to 35-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 17, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=312, 10=282.



Philip J. O'Regan PE No.58126
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Date:

August 18, 2021

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

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



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055071
2902489	T19	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:05 2021 Page 1
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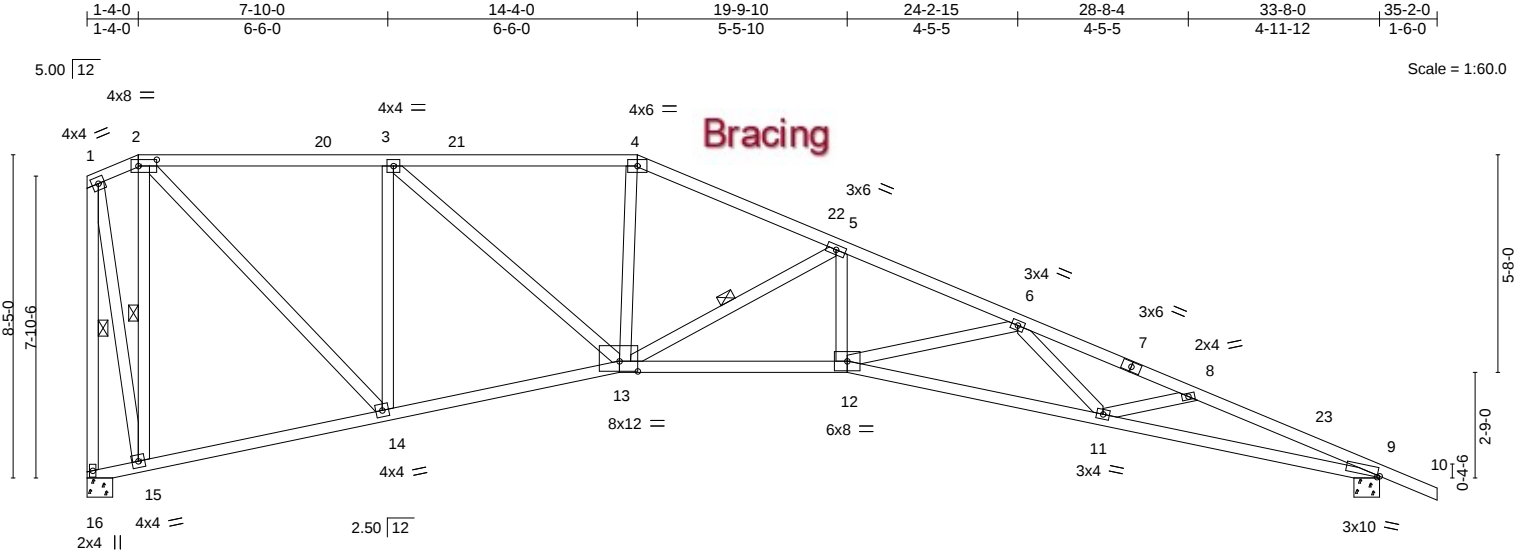


Plate Offsets (X,Y)--	[2:0-5-12,0-2-0], [9:0-0-12,0-0-7], [13:0-5-11,0-3-2]
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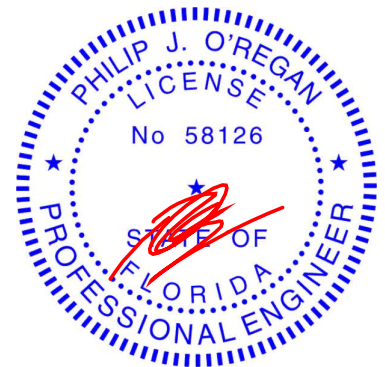
LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.92	Vert(LL)	-0.41 11-12	>987	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.80	Vert(CT)	-0.77 11-12	>519	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.89	Horz(CT)	0.36 9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 210 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 1-9-15 oc purlins, except end verticals.
BOT CHORD 2x4 SP M 31 *Except* 12-13: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-3-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 2-15, 5-13, 1-16

REACTIONS. (size) 16=0-8-0, 9=0-8-0
Max Horz 16=-286(LC 13)
Max Uplift 16=-292(LC 9), 9=-322(LC 13)
Max Grav 16=1238(LC 1), 9=1323(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1154/237, 3-4=-1874/396, 4-5=-2043/398, 5-6=-3616/715, 6-8=-4331/912, 8-9=-4517/1023, 1-16=-1218/231
BOT CHORD 15-16=-104/296, 14-15=0/312, 13-14=-39/1189, 12-13=-459/3241, 11-12=-728/3959, 9-11=-892/4176
WEBS 2-15=-1108/277, 2-14=-282/1380, 3-14=-1044/281, 3-13=-216/965, 4-13=-9/481, 5-13=-1602/409, 5-12=-184/1107, 6-12=-589/249, 6-11=-18/335, 1-15=-228/1146

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 1-4-0, Exterior(2R) 1-4-0 to 6-1-2, Interior(1) 6-1-2 to 14-4-0, Exterior(2R) 14-4-0 to 19-1-2, Interior(1) 19-1-2 to 35-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 16, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=292, 9=322.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 18,2021

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



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055072
2902489	T20	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:06 2021 Page 1

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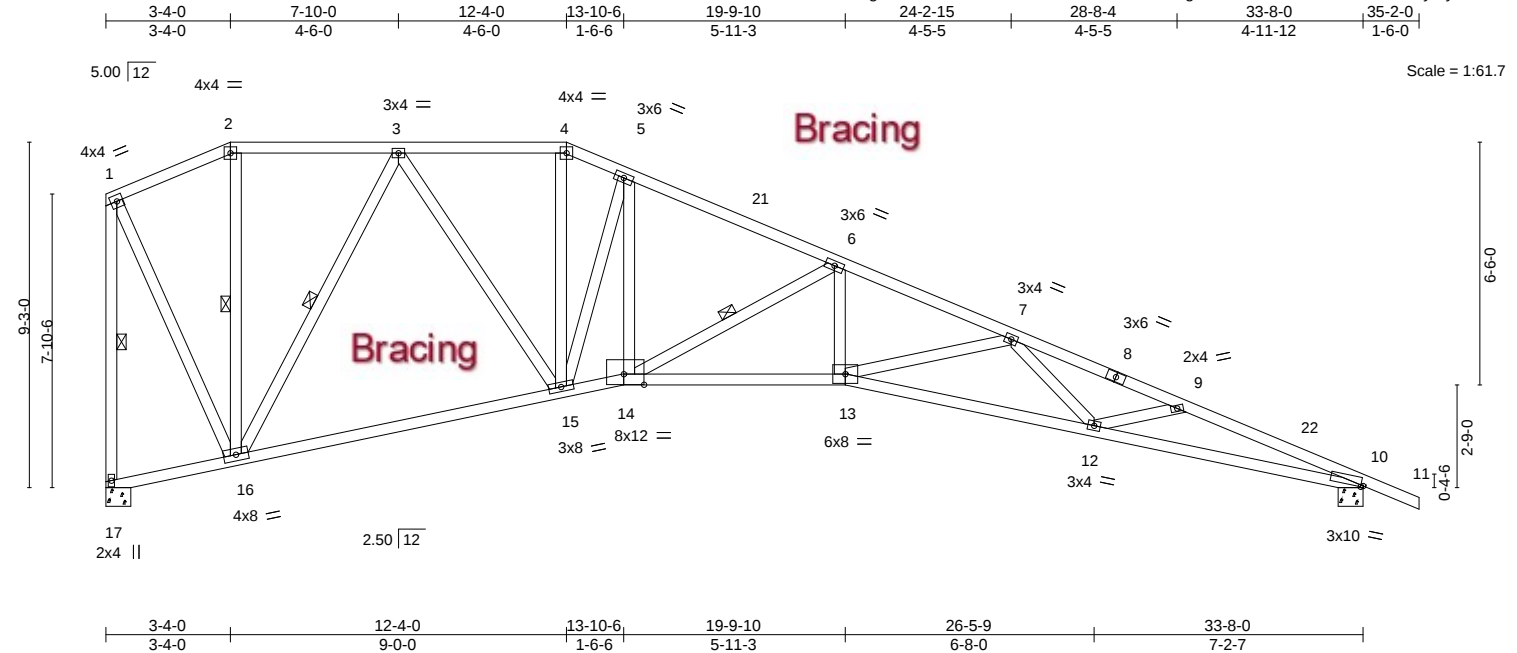


Plate Offsets (X,Y)-- [10:0-0-12,0-0-7], [14:0-6-8,0-3-6]													
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.91	Vert(LL)	-0.41	12-13	>989	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.77	12-13	>520	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.36	10	n/a	n/a			
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 220 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP M 31 *Except*
13-14: 2x4 SP No.2
WEBS 2x4 SP No.3

REACTIONS.

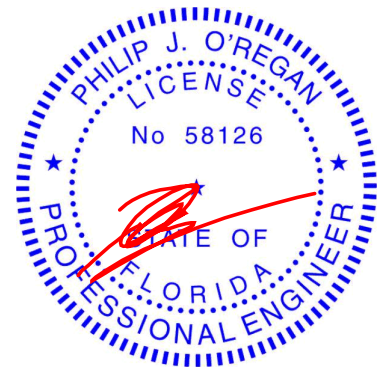
(size) 17=0-8-0, 10=0-8-0
Max Horz 17=-299(LC 13)
Max Uplift 17=-269(LC 13), 10=-319(LC 13)
Max Grav 17=1238(LC 1), 10=1323(LC 1)

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

TOP CHORD 1-2=-526/113, 2-3=-458/122, 3-4=-1480/322, 4-5=-1629/348, 5-6=-2039/386,
6-7=-3619/701, 7-9=-4330/898, 9-10=-4517/1010, 1-17=-1229/240
BOT CHORD 16-17=-107/308, 15-16=0/1027, 14-15=-104/1885, 13-14=-446/3244, 12-13=-714/3958,
10-12=-879/4176
WEBS 3-16=-1152/272, 3-15=-175/893, 4-15=-92/514, 5-15=-1309/327, 5-14=-202/1148,
6-14=-1612/408, 6-13=-181/1110, 7-13=-585/248, 7-12=-20/334, 1-16=-182/1063

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-4-0, Exterior(2R) 3-4-0 to 7-10-0, Interior(1) 7-10-0 to 12-4-0, Exterior(2R) 12-4-0 to 17-1-2, Interior(1) 17-1-2 to 35-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 17, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=269, 10=319.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 18, 2021

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

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



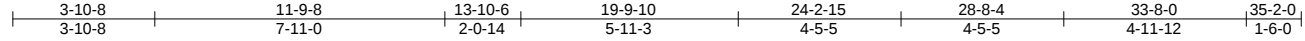
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055073
2902489	T21	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:08 2021 Page 1

ID:PCDxLFEFGc?8hVLoJl8f1zZ5Cf-sQn1LLMMDnXm?VdFoyooXa7liLnpWwGCMiGJbVymy51



5.00 12 4x8 =

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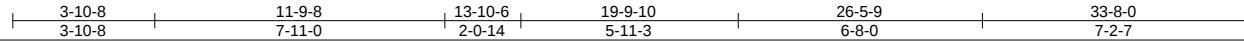
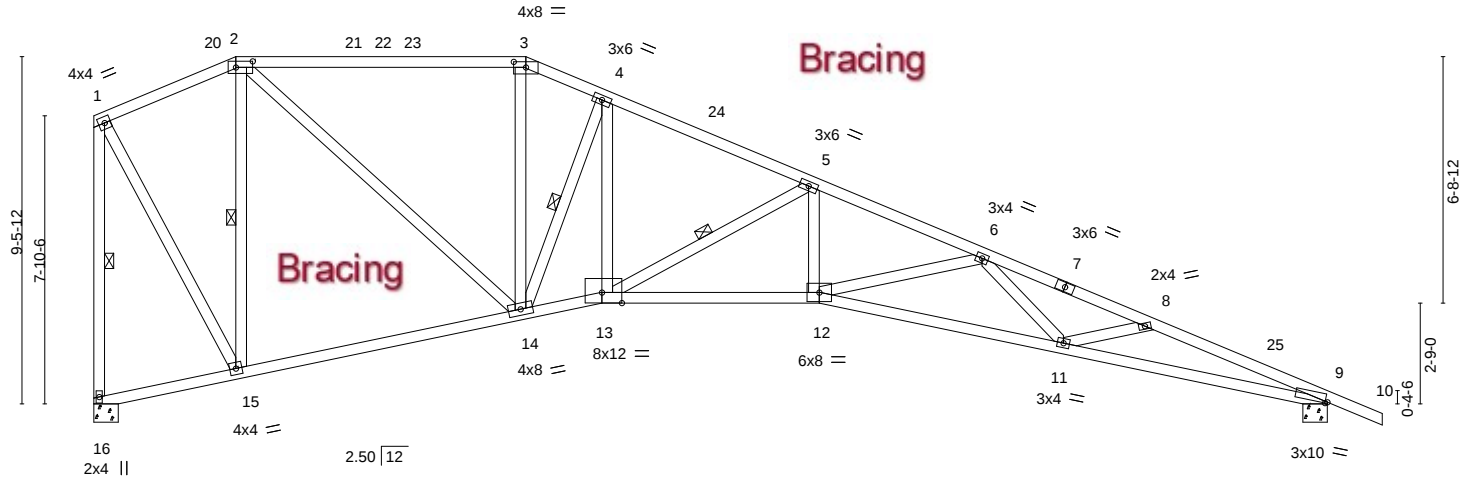


Plate Offsets (X,Y)-- [2:0-5-8,0-2-0], [3:0-4-0,0-1-13], [9:0-0-12,0-0-7], [13:0-6-8,0-3-7]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.91	Vert(LL) -0.41	11-12	>988	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.83	Vert(CT) -0.77	11-12	>520	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.52	Horz(CT) 0.36	9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 212 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
2-3: 2x4 SP M 31
BOT CHORD 2x4 SP M 31 *Except*
12-13: 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-9-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-3-15 oc bracing.
WEBS 1 Row at midpt 2-15, 4-14, 5-13, 1-16

REACTIONS.

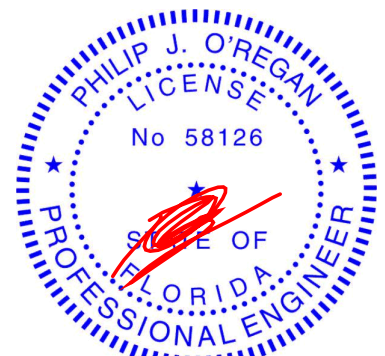
(size) 16=0-8-0, 9=0-8-0
Max Horz 16=-302(LC 13)
Max Uplift 16=-270(LC 13), 9=-318(LC 13)
Max Grav 16=1238(LC 1), 9=1323(LC 1)

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

TOP CHORD 1-2=-586/131, 2-3=-1385/310, 3-4=-1512/324, 4-5=-2038/382, 5-6=-3619/696,
6-8=-4330/894, 8-9=-4518/1006, 1-16=-1217/248
BOT CHORD 15-16=-110/312, 14-15=0/546, 13-14=-105/1894, 12-13=-442/3245, 11-12=-710/3957,
9-11=-876/4176
WEBS 2-15=-906/228, 2-14=-259/1179, 3-14=-10/348, 4-14=-1297/302, 4-13=-195/1197,
5-13=-1615/409, 5-12=-180/1109, 6-12=-584/248, 6-11=-20/334, 1-15=-192/1066

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-6-2, Interior(1) 3-6-2 to 3-10-8, Exterior(2R) 3-10-8 to 8-7-10, Interior(1) 8-7-10 to 11-9-8, Exterior(2R) 11-9-8 to 16-6-10, Interior(1) 16-6-10 to 35-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 16, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=270, 9=318.



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Date:

August 18, 2021

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

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

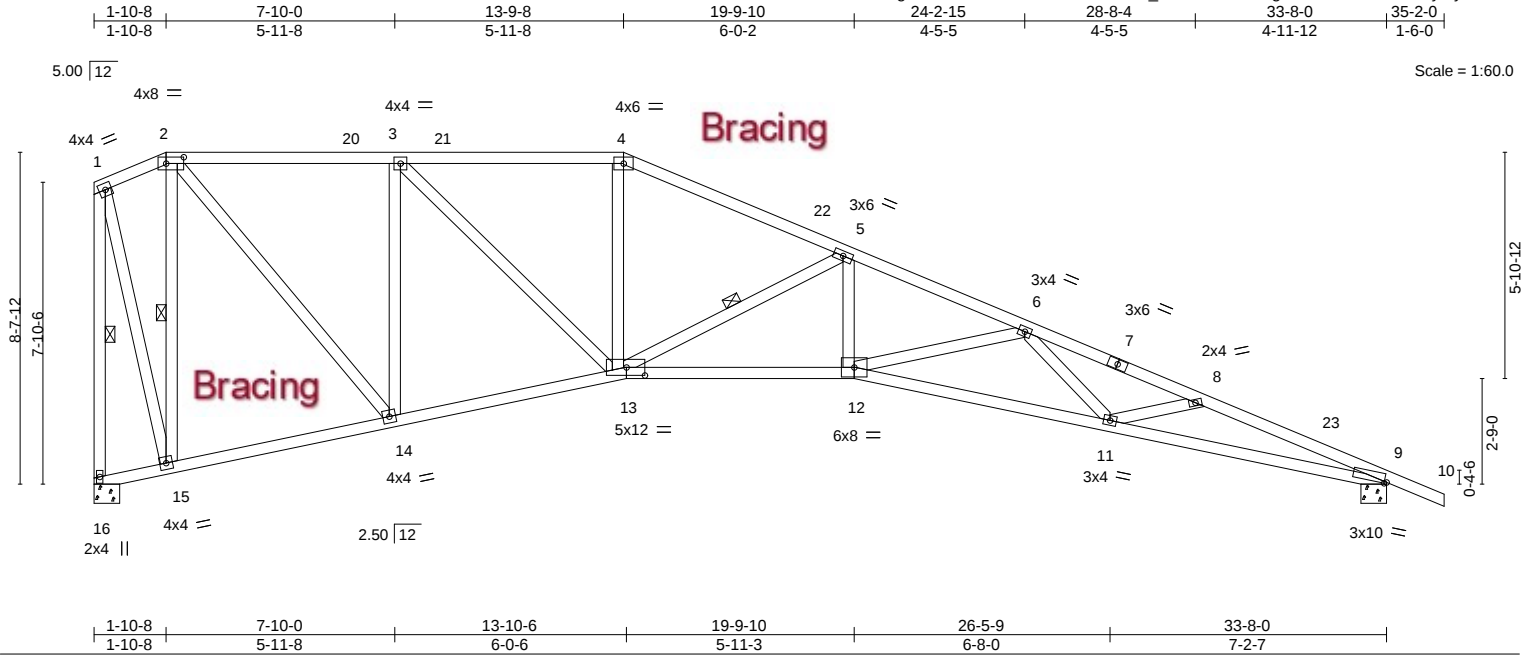


6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055074
2902489	T22	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:09 2021 Page 1
ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-KcLPYhN?_5fcdcfBSMfJ13ngwRI7OFH6MbM0t8xymy50



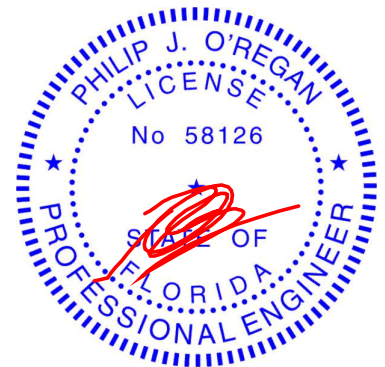
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.92	Vert(LL)	-0.41 11-12	>990	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.80	Vert(CT)	-0.77 11-12	>521	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.93	Horz(CT)	0.36 9	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS					Weight: 211 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 1-9-13 oc purlins, except end verticals.
BOT CHORD 2x4 SP M 31 *Except* 12-13: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-3-2 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 2-15, 5-13, 1-16

REACTIONS. (size) 16=0-8-0, 9=0-8-0
Max Horz 16=-290(LC 13)
Max Uplift 16=-281(LC 9), 9=-322(LC 13)
Max Grav 16=1238(LC 1), 9=1323(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-313/66, 2-3=-1108/230, 3-4=-1813/392, 4-5=-2035/391, 5-6=-3622/715,
6-8=-4330/908, 8-9=-4519/1020, 1-16=-1221/232
BOT CHORD 15-16=-107/298, 14-15=0/363, 13-14=-24/1143, 12-13=-460/3249, 11-12=-723/3955,
9-11=-889/4177
WEBS 2-15=-1063/250, 2-14=-266/1293, 3-14=-1019/275, 3-13=-222/962, 4-13=-6/477,
5-13=-1628/423, 5-12=-181/1103, 6-12=-577/242, 6-11=-20/336, 1-15=-214/1113

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 1-10-8, Exterior(2R) 1-10-8 to 6-7-10, Interior(1) 6-7-10 to 13-9-8, Exterior(2R) 13-9-8 to 18-6-10, Interior(1) 18-6-10 to 35-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 16, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=281, 9=322.



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August 18, 2021

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

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



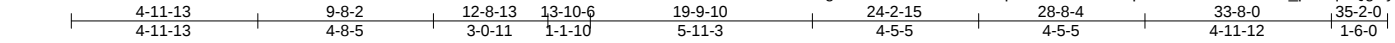
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055075
2902489	T23	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

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ID:PCDXLFEFGc?8hVLoJl8fL1zZ5Cf-opunm1OdkOnUEpmevNrGc?D5C9TM_pBVq0lQgNymy5?



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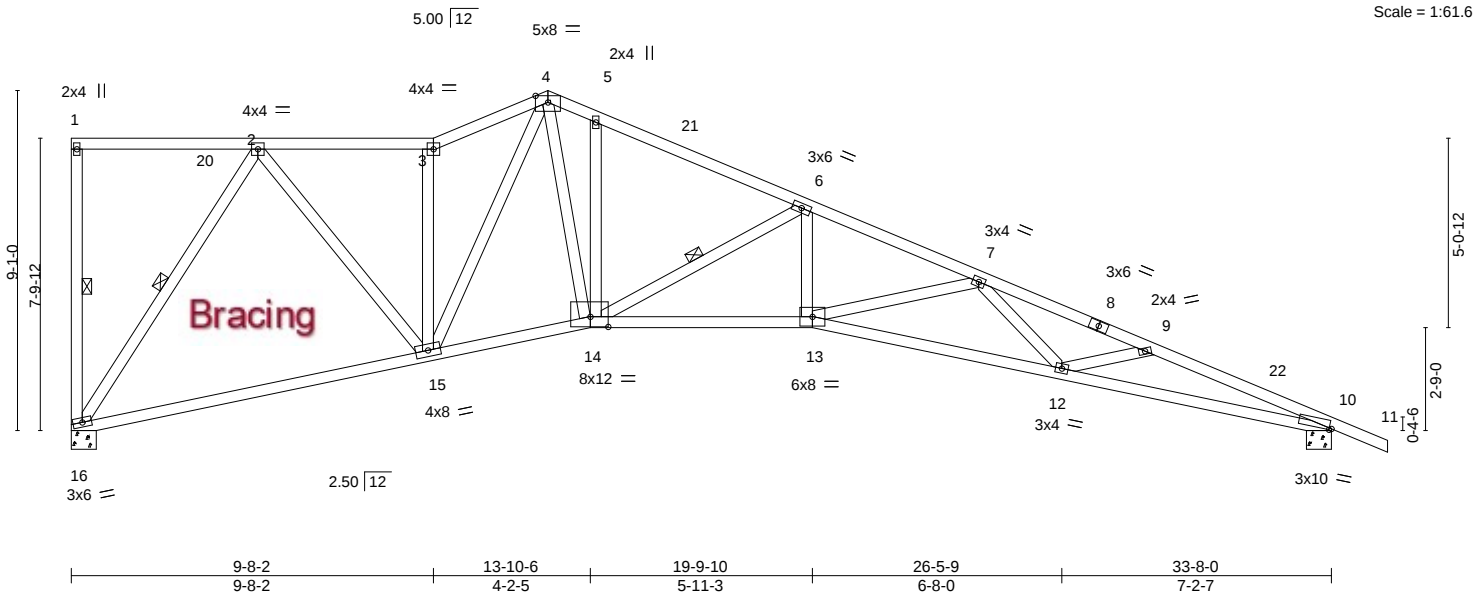


Plate Offsets (X,Y)-- [10:0-0-12,0-0-7], [14:0-5-12,0-3-4]

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.91	Vert(LL) -0.40	12-13	>998	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.82	Vert(CT) -0.77	12-13	>525	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.62	Horz(CT) 0.36	10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 205 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP M 31 *Except*
13-14: 2x4 SP No.2
WEBS 2x4 SP No.3

REACTIONS.

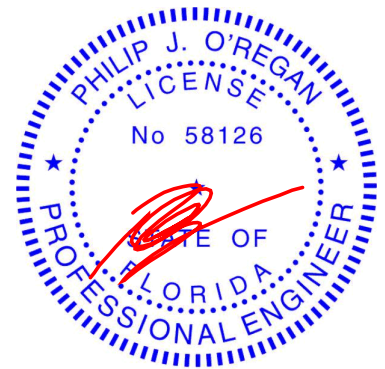
(size) 16=0-8-0, 10=0-8-0
Max Horz 16=-294(LC 13)
Max Uplift 16=-259(LC 8), 10=-298(LC 13)
Max Grav 16=1238(LC 1), 10=1323(LC 1)

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

TOP CHORD 2-3=-1501/248, 3-4=-1676/297, 4-5=-2007/385, 5-6=-2040/327, 6-7=-3619/599,
7-9=-4330/806, 9-10=-4518/923
BOT CHORD 15-16=-10/814, 14-15=-59/1596, 13-14=-353/3245, 12-13=-621/3957, 10-12=-799/4176
WEBS 2-16=-1430/280, 2-15=-157/1159, 3-15=-809/190, 4-14=-314/1422, 5-14=-251/155,
6-14=-1612/386, 6-13=-161/1108, 7-13=-598/251, 7-12=-27/334

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-6-2, Interior(1) 3-6-2 to 12-8-13, Exterior(2R) 12-8-13 to 16-1-3, Interior(1) 16-1-3 to 35-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 16, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=259, 10=298.



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Date:

August 18,2021

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

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

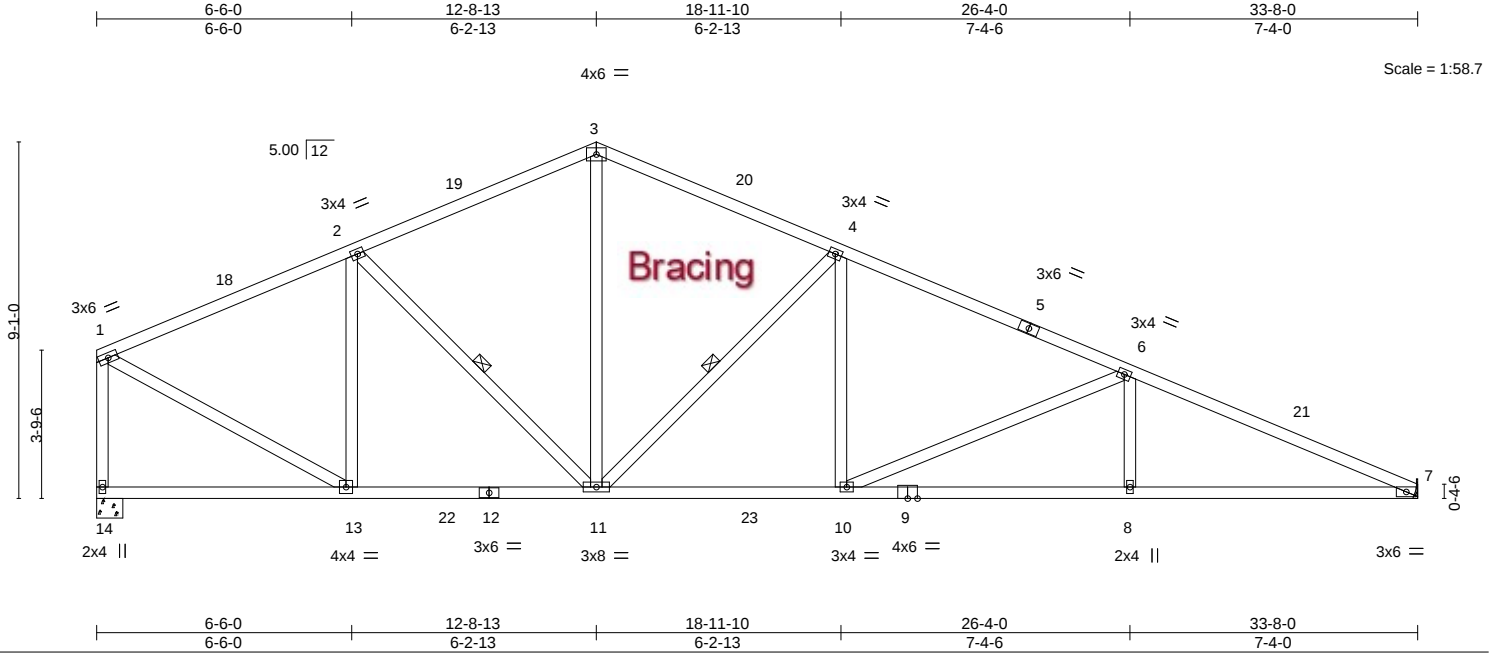


6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055077
2902489	T25	Common	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:12 2021 Page 1
ID:PCDxLFEFGc?8hVLoJl8fL1zZ5Cf-kB0YAjPtG01CT6w11otkhQIXGy7gScGoHKEXjGymy4z



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.56	Vert(LL)	-0.18 8-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.89	Vert(CT)	-0.34 8-10	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.97	Horz(CT)	0.09 7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 191 lb	FT = 20%

LUMBER-

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

REACTIONS.

(size) 14=0-8-0, 7=Mechanical
Max Horz 14=-198(LC 13)
Max Uplift 14=-228(LC 12), 7=-280(LC 13)
Max Grav 14=1369(LC 2), 7=1351(LC 2)

FORCES.

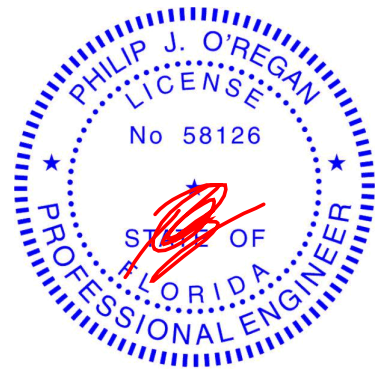
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1346/272, 2-3=-1414/343, 3-4=-1414/341, 4-6=-2103/431, 6-7=-2867/583,
1-14=-1271/273
BOT CHORD 11-13=-177/1199, 10-11=-235/1883, 8-10=-476/2613, 7-8=-476/2613
WEBS 2-13=-452/152, 3-11=-142/801, 4-11=-896/293, 4-10=-60/577, 6-10=-795/268,
6-8=0/306, 1-13=-225/1337

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-6-2, Interior(1) 3-6-2 to 12-8-13, Exterior(2R) 12-8-13 to 16-1-3, Interior(1) 16-1-3 to 33-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=228, 7=280.

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-10-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-4-8 oc bracing.
WEBS 1 Row at midpt 2-11, 4-11



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August 18, 2021

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6904 Parke East Blvd.
Tampa, FL 33610

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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055078
2902489	T26	Roof Special Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:14 2021 Page 2
ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-ha8IbOR7odlwjQ4P8DvCmrNn7mp8waG5Iejeo8ymy4x

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-3=-54, 3-7=-54, 7-9=-54, 9-11=-54, 10-19=-20
- Concentrated Loads (lb)
- Vert: 9=-22(F) 12=-32(F) 24=-536(F)

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055079
2902489	T27	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:15 2021 Page 1
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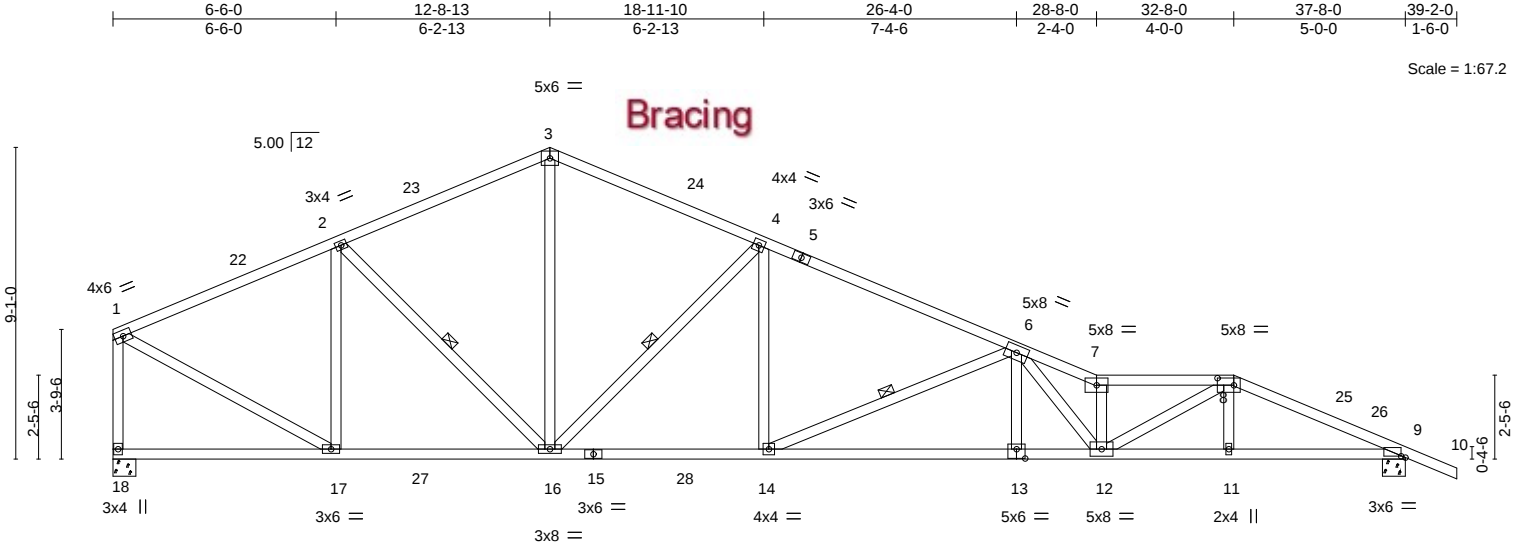


Plate Offsets (X,Y)--	[8:0-5-12,0-2-8], [9:0-1-8,0-0-8], [13:0-3-0,0-3-4]
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LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.59	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.71	Vert(LL) -0.34 13-14 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.70	Vert(CT) -0.61 13-14 >739 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.11 9 n/a n/a		
	Code FBC2020/TPI2014			Weight: 222 lb	FT = 20%

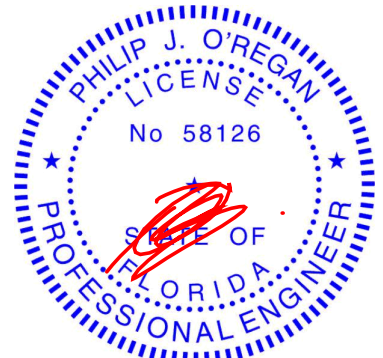
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP M 31 *Except* 15-18: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-2-1 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 2-16, 4-16, 6-14

REACTIONS. (size) 18=0-8-0, 9=0-8-0
Max Horz 18=-216(LC 13)
Max Uplift 18=-243(LC 12), 9=-358(LC 13)
Max Grav 18=1528(LC 2), 9=1573(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1523/310, 2-3=-1660/395, 3-4=-1662/396, 4-6=-2630/540, 6-7=-5174/1098, 7-8=-4660/983, 8-9=-3350/707, 1-18=-1431/307
BOT CHORD 16-17=-183/1363, 14-16=-313/2372, 13-14=-724/3923, 12-13=-724/3923, 11-12=-584/3065, 9-11=-585/3052
WEBS 2-17=-535/173, 2-16=-63/269, 3-16=-183/994, 4-16=-1259/371, 4-14=-130/934, 6-14=-1683/446, 6-13=0/275, 6-12=-320/1403, 8-12=-353/1827, 1-17=-267/1524, 7-12=-2014/448

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-10-15, Interior(1) 3-10-15 to 12-8-13, Exterior(2R) 12-8-13 to 16-6-0, Interior(1) 16-6-0 to 32-8-0, Exterior(2R) 32-8-0 to 36-5-3, Interior(1) 36-5-3 to 39-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=243, 9=358.



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August 18, 2021

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



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055080
2902489	T28	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:16 2021 Page 1

ID:PCDxLFEFGc?8hVLoJl8fL1zZ5Cf-dyG204SOKEYdykEoGdygrGT7bZUuOV7OCyCks1ymy4v

6-6-0	12-8-13	18-11-10	22-11-10	26-8-0	30-8-0	37-8-0	39-2-0
6-6-0	6-2-13	6-2-13	4-0-0	3-8-6	4-0-0	7-0-0	1-6-0

Scale = 1:67.2

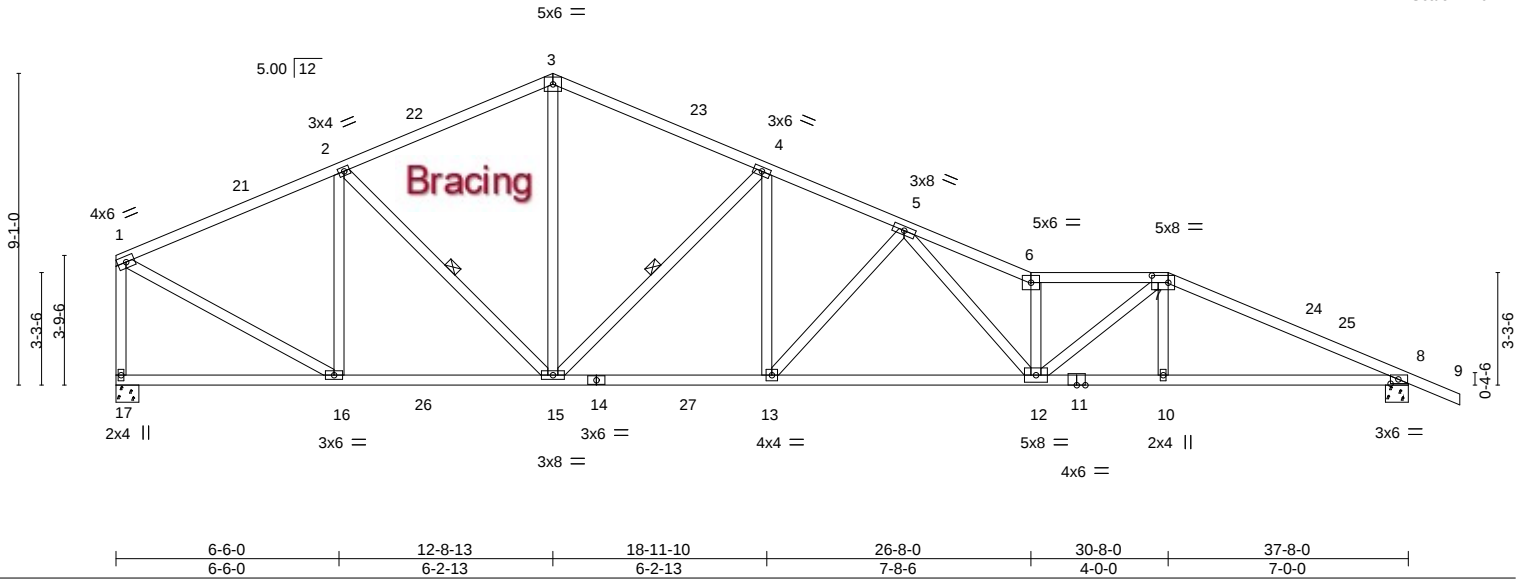


Plate Offsets (X,Y)-- [7:0-5-12,0-2-8], [8:0-2-12,0-1-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.92	Vert(LL) -0.33	12-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25		BC 0.95	Vert(CT) -0.59	12-13	>760	180		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.66	Horz(CT) 0.10	8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 221 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP M 31 *Except*
 8-11: 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 WEBS 1 Row at midpt 2-15, 4-15

REACTIONS.

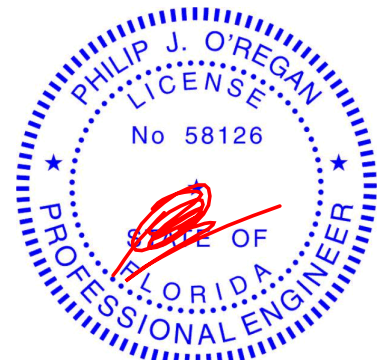
(size) 17=0-8-0, 8=0-8-0
 Max Horz 17=-216(LC 13)
 Max Uplift 17=-243(LC 12), 8=-358(LC 13)
 Max Grav 17=1528(LC 2), 8=1573(LC 2)

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

TOP CHORD 1-2=-1523/312, 2-3=-1661/399, 3-4=-1657/398, 4-5=-2589/548, 5-6=-4352/945,
 6-7=-3918/822, 7-8=-3222/680, 1-17=-1431/309
 BOT CHORD 15-16=-183/1362, 13-15=-305/2365, 12-13=-493/2984, 10-12=-542/2933, 8-10=-542/2923
 WEBS 2-16=-535/174, 2-15=-64/271, 3-15=-173/979, 4-15=-1248/359, 4-13=-169/999,
 5-13=-933/283, 6-12=-1788/444, 7-12=-218/1246, 1-16=-269/1525, 5-12=-357/1576

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-10-15, Interior(1) 3-10-15 to 12-8-13, Exterior(2R) 12-8-13 to 16-6-0, Interior(1) 16-6-0 to 30-8-0, Exterior(2R) 30-8-0 to 34-5-3, Interior(1) 34-5-3 to 39-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=243, 8=358.



Philip J. O'Regan PE No.58126
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

August 18, 2021

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



6904 Parke East Blvd.
 Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055082
2902489	T30	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:18 2021 Page 1

ID:PCDxLFEFGc?8hVLoJi8fL1zZ5Cf-ZLNpRmUessoLB1NAN2_8xhYY7NBGsQFhgGhrxwmy4t

5-4-0	11-6-0	17-8-13	23-11-10	27-8-0	31-8-0	36-10-8	42-8-0	44-2-0
5-4-0	6-2-0	6-2-13	6-2-13	3-8-6	4-0-0	5-2-8	5-9-8	1-6-0

Scale = 1.76.5

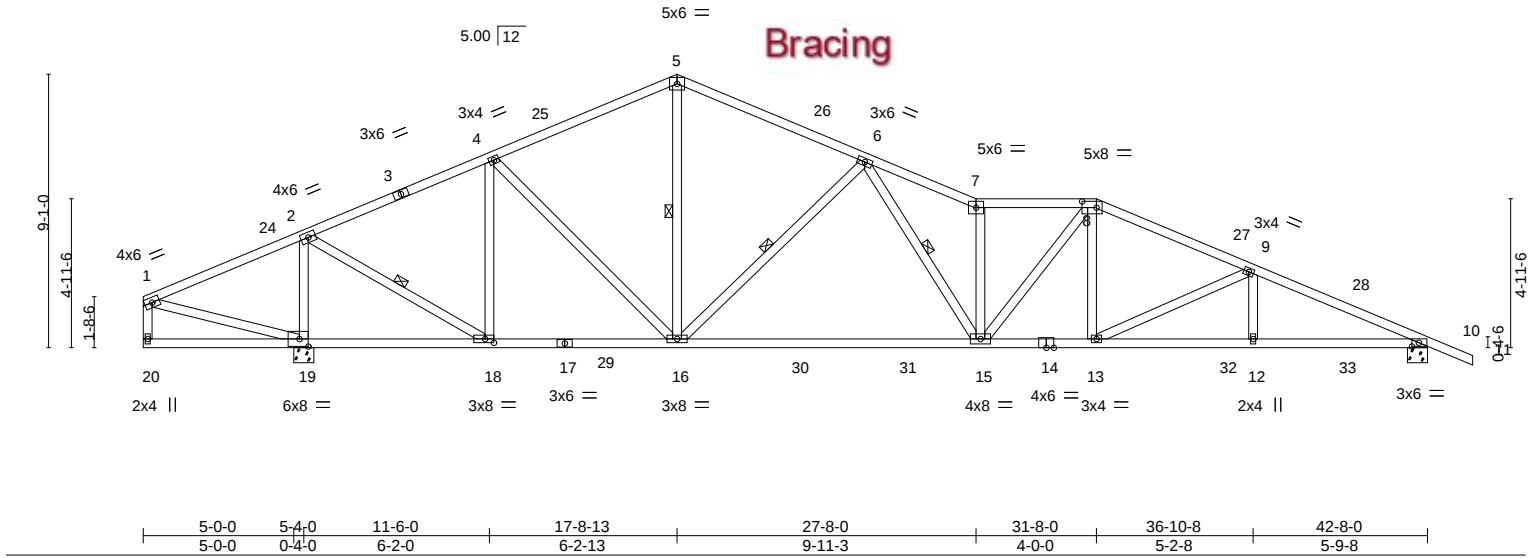


Plate Offsets (X,Y)--		[8:0-5-12,0-2-8], [10:0-2-12,0-1-8], [18:0-3-8,0-1-8], [19:0-3-8,0-3-0]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	0.55 15-16	>816	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.69 15-16	>646	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.10 10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS						Weight: 249 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
14-17: 2x4 SP M 31
WEBS 2x4 SP No.3

REACTIONS.

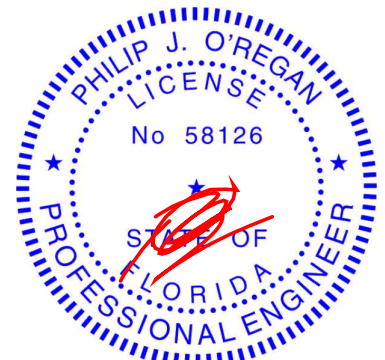
(size) 19=0-8-0, 10=0-8-0
Max Horz 19=-175(LC 13)
Max Uplift 19=-535(LC 8), 10=-470(LC 8)
Max Grav 19=1969(LC 2), 10=1547(LC 2)

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

TOP CHORD 1-2=-55/290, 2-4=-1325/1217, 4-5=-1586/1454, 5-6=-1586/1454, 6-7=-3192/2838,
7-8=-2899/2568, 8-9=-2724/2352, 9-10=-3262/2801
BOT CHORD 16-18=-964/1175, 15-16=-1766/2218, 13-15=-2055/2480, 12-13=-2530/2972,
10-12=-2530/2972
WEBS 2-19=-1667/1189, 2-18=-1210/1615, 4-18=-638/370, 4-16=-227/380, 5-16=-966/921,
6-16=-1136/973, 6-15=-1276/1367, 7-15=-1331/1147, 8-15=-575/656, 8-13=-375/316,
9-13=-557/536, 9-12=-270/233, 1-19=-271/94

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-4-15, Interior(1) 4-4-15 to 17-8-13, Exterior(2R) 17-8-13 to 22-0-0, Interior(1) 22-0-0 to 31-8-0, Exterior(2R) 31-8-0 to 35-11-3, Interior(1) 35-11-3 to 44-2-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=535, 10=470.



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Date:

August 18, 2021

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055083
2902489	T31	Roof Special	1	1	Job Reference (optional)	

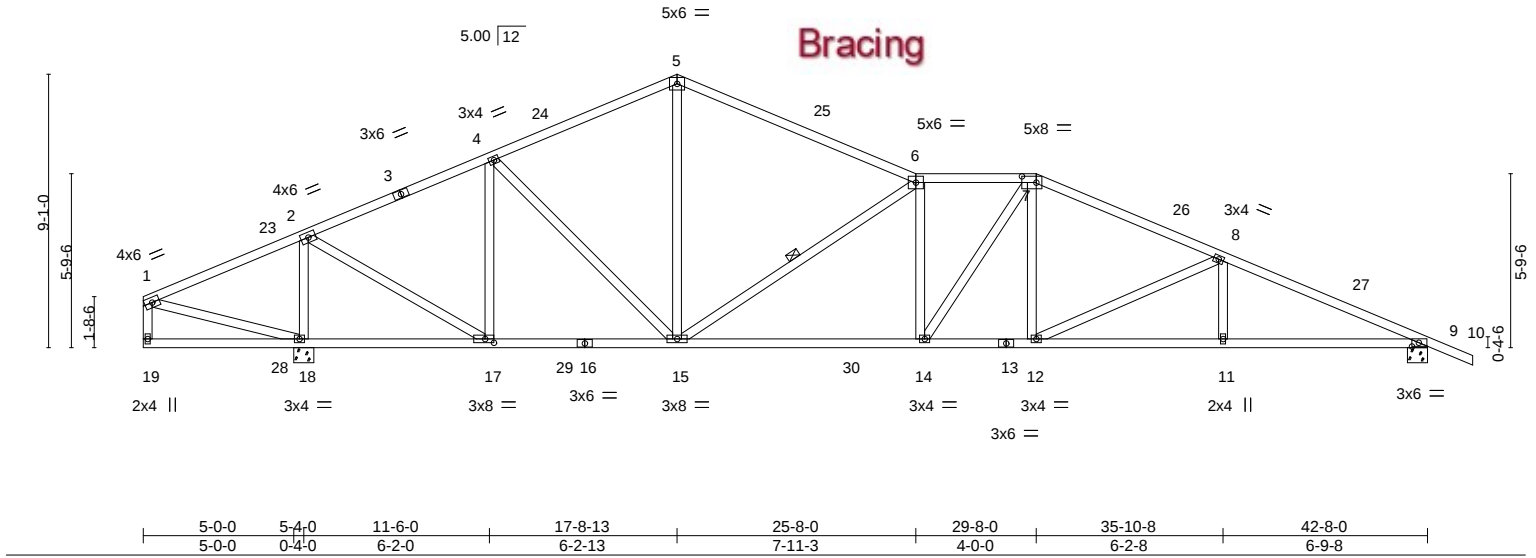
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:19 2021 Page 1

ID:PCDxLFEFgc78hVLoJl8fL1zZ5Cf-1XxBe6VGd9wCpByNxmVNTu5j?nVmbsbquwROTMymy4s

5-4-0	11-6-0	17-8-13	25-8-0	29-8-0	35-10-8	42-8-0	44-2-0
5-4-0	6-2-0	6-2-13	7-11-3	4-0-0	6-2-8	6-9-8	1-6-0

Scale = 1:76.5



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	-0.26 14-15 >999	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.48 14-15 >934				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.11 9 n/a n/a				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
								Weight: 245 lb FT = 20%			

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
5-6: 2x4 SP M 31
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

REACTIONS.

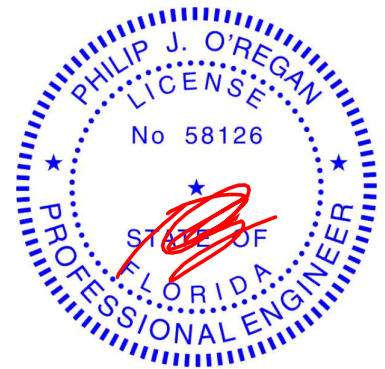
(size) 18=0-8-0, 9=0-8-0
Max Horz 18=-175(LC 13)
Max Uplift 18=-346(LC 12), 9=-358(LC 13)
Max Grav 18=1958(LC 2), 9=1539(LC 2)

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

TOP CHORD 1-2=-247/291, 2-4=-1316/275, 4-5=-1558/381, 5-6=-1569/353, 6-7=-2513/580,
7-8=-2525/569, 8-9=-3197/696
BOT CHORD 17-18=-222/332, 15-17=-162/1166, 14-15=-377/2515, 12-14=-352/2287, 11-12=-566/2908,
9-11=-566/2908
WEBS 2-18=-1662/471, 2-17=-363/1605, 4-17=-626/240, 4-15=-100/360, 5-15=-131/841,
6-15=-1369/396, 7-14=-69/393, 7-12=-74/434, 8-12=-698/237, 8-11=0/276,
1-18=-274/322

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-4-15, Interior(1) 4-4-15 to 17-8-13, Exterior(2R) 17-8-13 to 22-0-0, Interior(1) 22-0-0 to 29-8-0, Exterior(2R) 29-8-0 to 33-11-3, Interior(1) 33-11-3 to 44-2-0 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=346, 9=358.



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August 18,2021

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

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



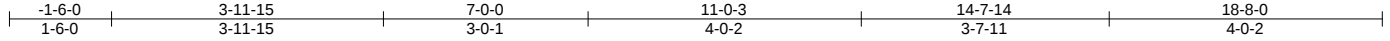
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055084
2902489	T32	Half Hip Girder	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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ID:PCDxLFEFgc?8hVLoJl8fl1zZ5Cf-VkVZsSWuOT23RLXZVT0c06dvGBwLKFFz7aAy?oymy4r



Scale = 1:33.8

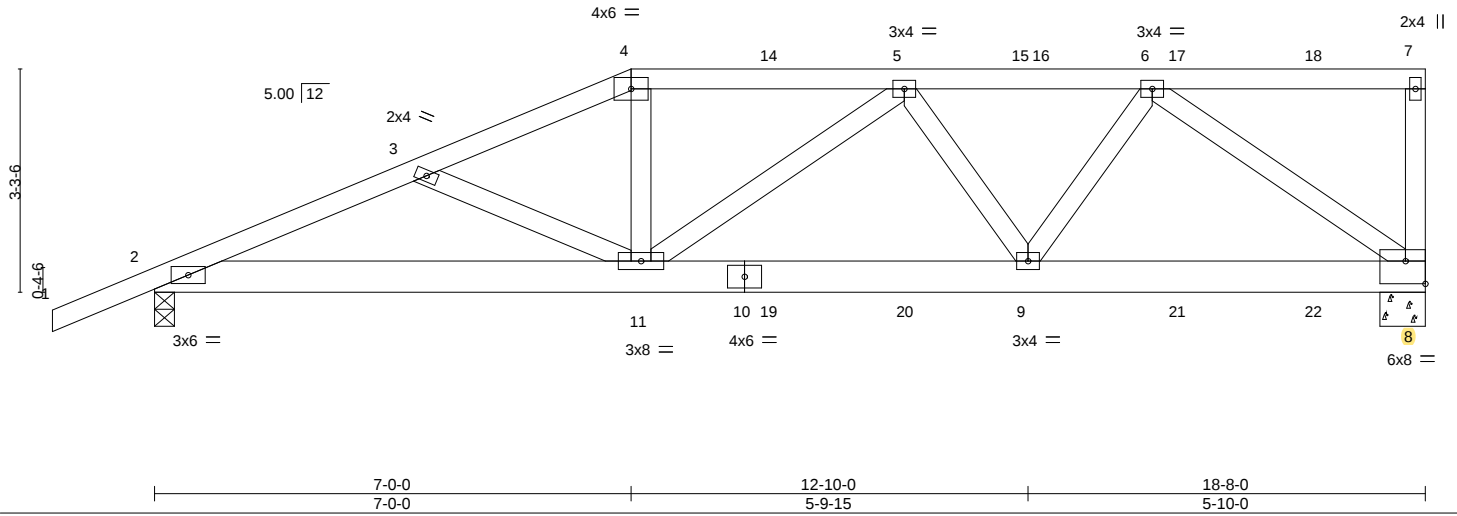


Plate Offsets (X,Y)-- [8:Edge,0-4-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.49	Vert(LL)	0.10	9-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.59	Vert(CT)	-0.16	9-11	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.90	Horz(CT)	0.04	8	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014		Matrix-MS						Weight: 110 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-4-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-1 oc bracing.

REACTIONS.

(size) 8=0-8-0, 2=0-3-8
Max Horz 2=119(LC 8)
Max Uplift 8=689(LC 4), 2=559(LC 4)
Max Grav 8=1464(LC 1), 2=1299(LC 1)

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

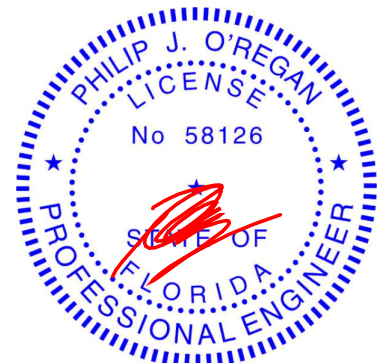
TOP CHORD 2-3=-2729/1170, 3-4=-2536/1133, 4-5=-2350/1073, 5-6=-2076/970
BOT CHORD 2-11=-1125/2499, 9-11=-1091/2348, 8-9=-751/1604
WEBS 4-11=-280/637, 5-9=-512/239, 6-9=-411/889, 6-8=-1961/918

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=689, 2=559.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 82 lb up at 7-0-0, 109 lb down and 82 lb up at 9-0-12, 109 lb down and 82 lb up at 11-0-12, 109 lb down and 77 lb up at 13-0-12, and 109 lb down and 82 lb up at 15-0-12, and 109 lb down and 82 lb up at 17-0-12 on top chord, and 332 lb down and 207 lb up at 7-0-0, 85 lb down and 60 lb up at 9-0-12, 85 lb down and 60 lb up at 11-0-12, 85 lb down and 60 lb up at 13-0-12, and 85 lb down and 60 lb up at 15-0-12, and 85 lb down and 60 lb up at 17-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-7=-54, 2-8=-20



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August 18,2021

Continued on page 2

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

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055084
2902489	T32	Half Hip Girder	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:21 2021 Page 2
ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-zw3x3oWW9nAw3V6l3BXrYJA4?aGa3iU7MEwVYEymy4q

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 4=-109(F) 11=-332(F) 5=-109(F) 9=-65(F) 14=-109(F) 16=-109(F) 17=-109(F) 18=-109(F) 19=-65(F) 20=-65(F) 21=-65(F) 22=-65(F)

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055085
2902489	T33	Half Hip	2	1	Job Reference (optional)	

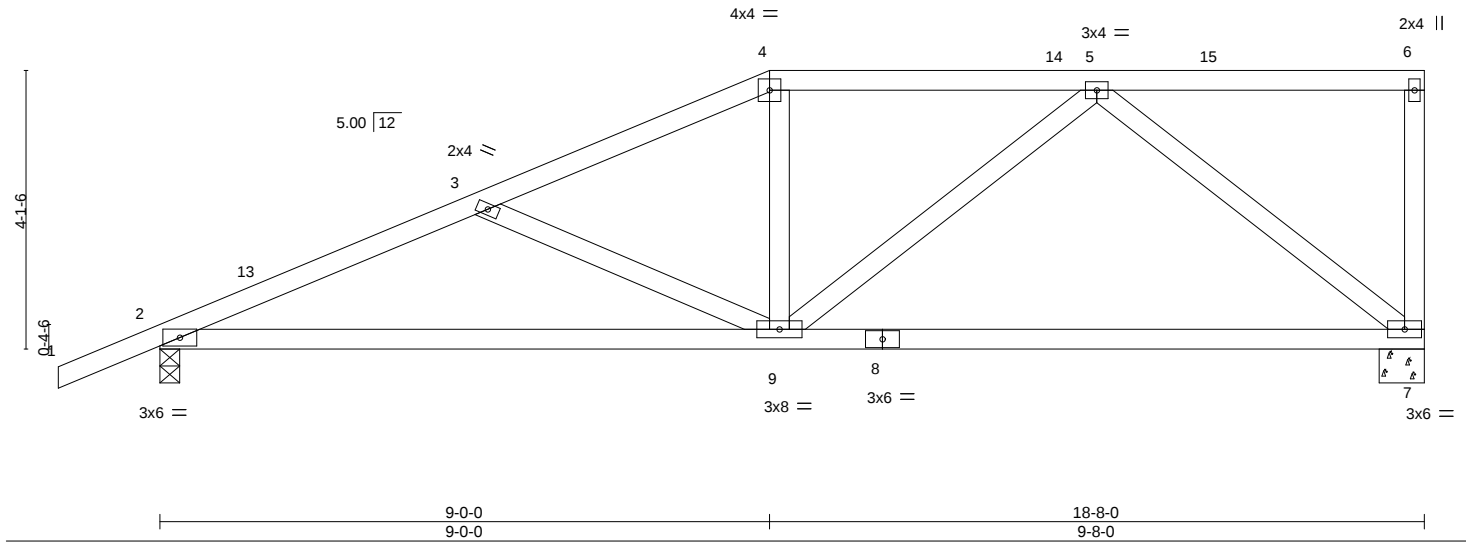
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:21 2021 Page 1

ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-zw3x3oWW9nAw3V6i3BxYJA46aCP3ov7MEwVYEymy4q



Scale = 1:34.0



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.49	Vert(LL)	-0.19	7-9	>999	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.85	Vert(CT)	-0.38	7-9	>585		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.56	Horz(CT)	0.03	7	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS					Weight: 94 lb	FT = 20%
	Code FBC2020/TPI2014							

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-11-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-4-14 oc bracing.

REACTIONS.

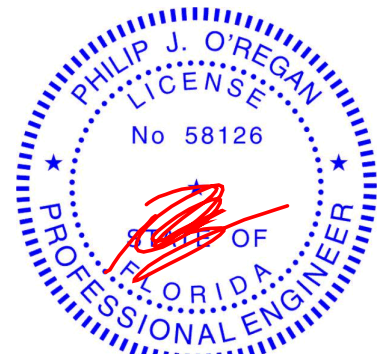
(size) 2=0-3-8, 7=0-8-0
Max Horz 2=148(LC 12)
Max Uplift 2=196(LC 12), 7=172(LC 8)
Max Grav 2=770(LC 1), 7=682(LC 1)

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

TOP CHORD 2-3=-1303/327, 3-4=-992/220, 4-5=-874/225
BOT CHORD 2-9=-388/1182, 7-9=-178/629
WEBS 3-9=-343/177, 5-9=-68/368, 5-7=-780/231

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 18-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=196, 7=172.



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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 18, 2021

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

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



6904 Parke East Blvd.
Tampa, FL 36610

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:22 2021 Page 1
ID:PCDxLFEFgc?8hVLoJl8f1zZ5Cf-S6dJH7X8w4Ingfhycu245XiCA_ddolDGauf34hymy4p

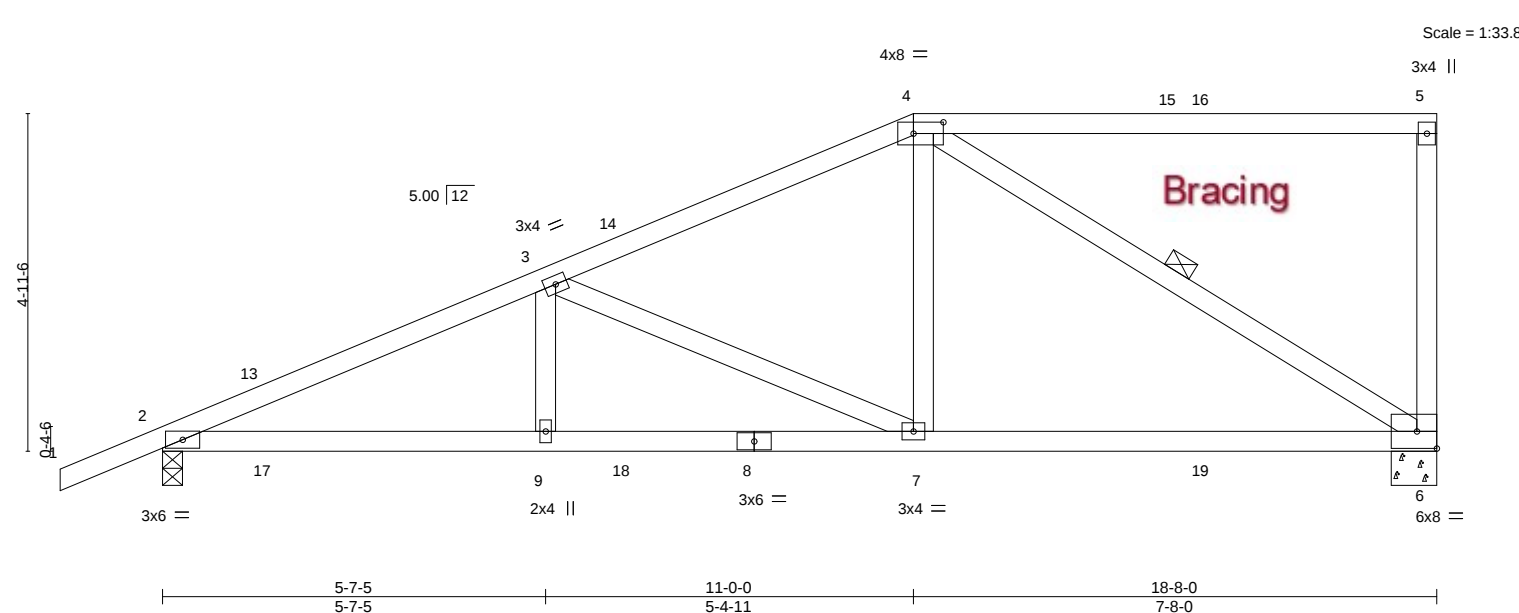


Plate Offsets (X,Y)-- [4:0-5-4,0-2-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	0.18	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.18	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 96 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-11-13 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 5-1-7 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 4-6

REACTIONS. (size) 2=0-3-8, 6=0-8-0
 Max Horz 2=177(LC 12)
 Max Uplift 2=-292(LC 8), 6=-318(LC 8)
 Max Grav 2=770(LC 1), 6=682(LC 1)

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

TOP CHORD 2-3=-1311/1159, 3-4=-804/728
BOT CHORD 2-9=-1178/1167, 7-9=-1178/1167, 6-7=-722/702
WEBS 3-7=-519/516, 4-7=-554/441, 4-6=-784/814

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 18-6-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=292, 6=318.



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Date:

August 18, 2021



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



6904 Parke East Blvd
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Builders FirstSource (Lake City, FL) Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:23 2021 Page 1
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 1-6-0 6-8-11 13-0-0 18-8-0
 1-6-0 6-8-11 6-3-5 5-8-0



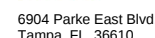
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-11-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 5-3-11 oc bracing.
WEBS	2x4 SP No.3		

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1262/1073, 3-4=-614/524
 BOT CHORD 2-9=-1115/1116, 7-9=-1115/1116, 6-7=-533/510
 WEBS 3-9=-314/275, 3-7=-674/654, 4-7=-575/452, 4-6=-702/736

A circular blue seal for a Professional Engineer in the State of Florida. The outer ring contains the text "PHILIP J. O'REGAN" at the top, "LICENSE" below it, "No 58126" in the center, "STATE OF FLORIDA" below that, and "PROFESSIONAL ENGINEER" at the bottom. The seal is surrounded by a dashed blue line. A red signature is written across the center of the seal.

August 18, 2021

WARNING - verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MH/473 (rev. 5/19/2020) BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055088
2902489	T36	Half Hip	2	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:24 2021 Page 1
ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-OVl4ipZPRiYVwyrKkJ5YAyoZkoH3G74Z2C898Zymy4n

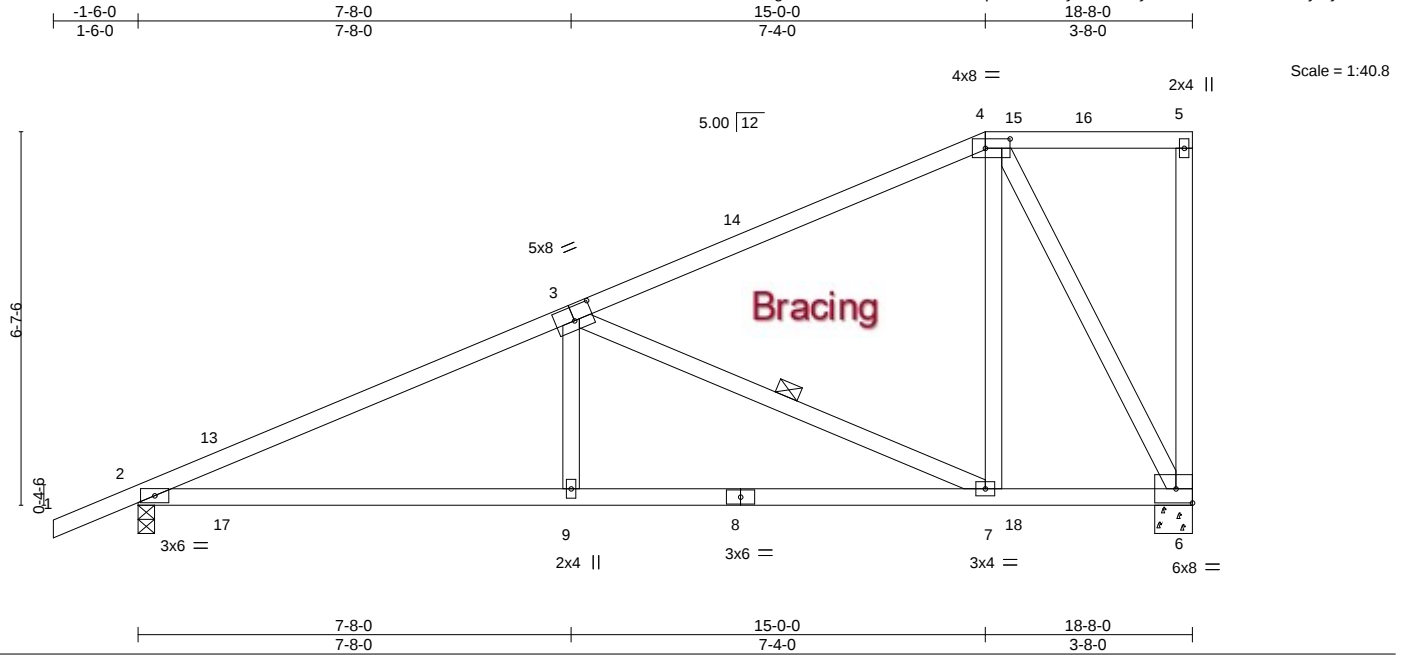


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [4:0-5-4,0-2-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.59	Vert(LL)	0.16	9-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.60	Vert(CT)	-0.17	9-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.66	Horz(CT)	0.03	6	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS						Weight: 104 lb	FT = 20%

LUMBER-

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

REACTIONS.

(size) 6=0-8-0, 2=0-3-8
Max Horz 2=234(LC 12)
Max Uplift 6=-303(LC 8), 2=-268(LC 8)
Max Grav 6=682(LC 1), 2=770(LC 1)

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

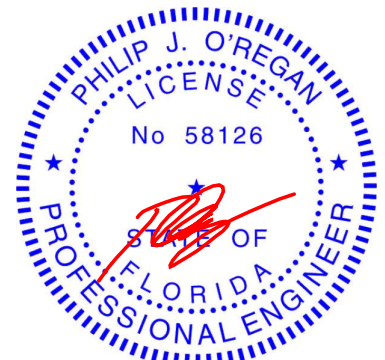
TOP CHORD 2-3=-1216/985, 3-4=-437/332
BOT CHORD 2-9=-1052/1067, 7-9=-1051/1067, 6-7=-359/333
WEBS 3-9=-372/329, 3-7=-811/770, 4-7=-618/480, 4-6=-679/735

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 15-0-0, Exterior(2E) 15-0-0 to 18-6-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=303, 2=268.

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-3-14 oc bracing.
WEBS 1 Row at midpt 3-7



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Date:

August 18, 2021

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

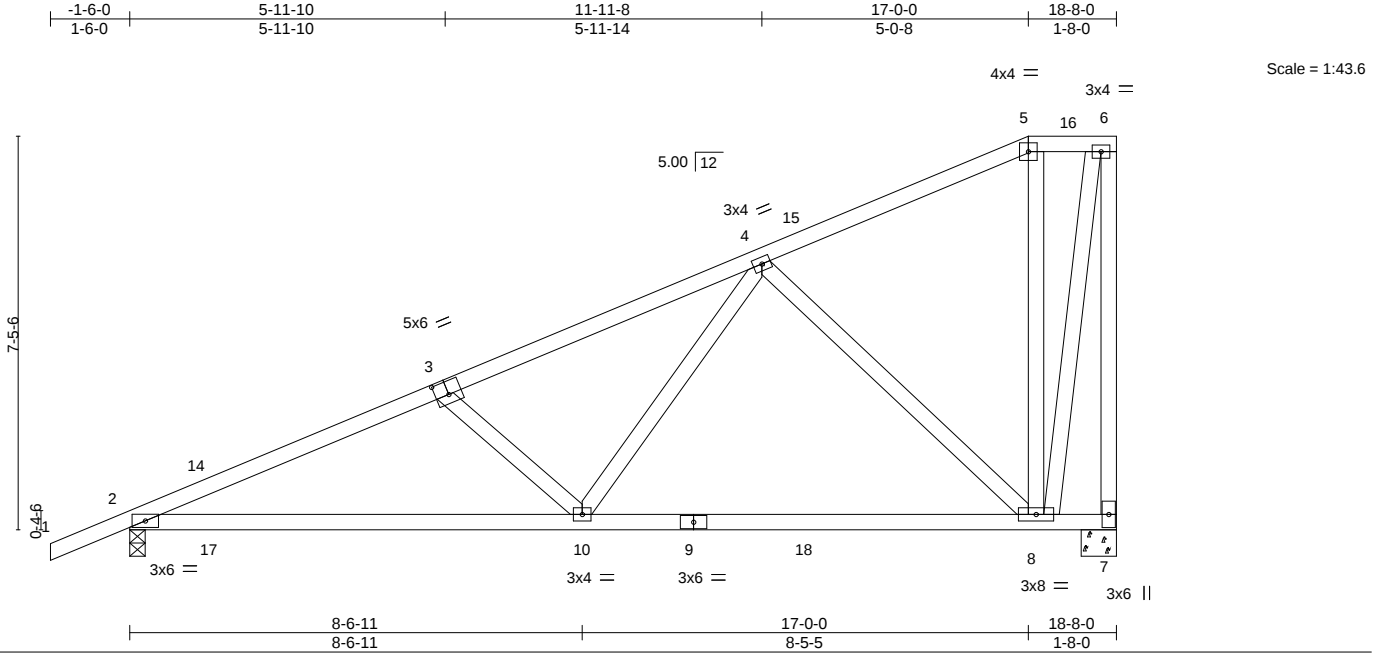


6904 Parke East Blvd.
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Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055089
2902489	T37	Half Hip	2	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

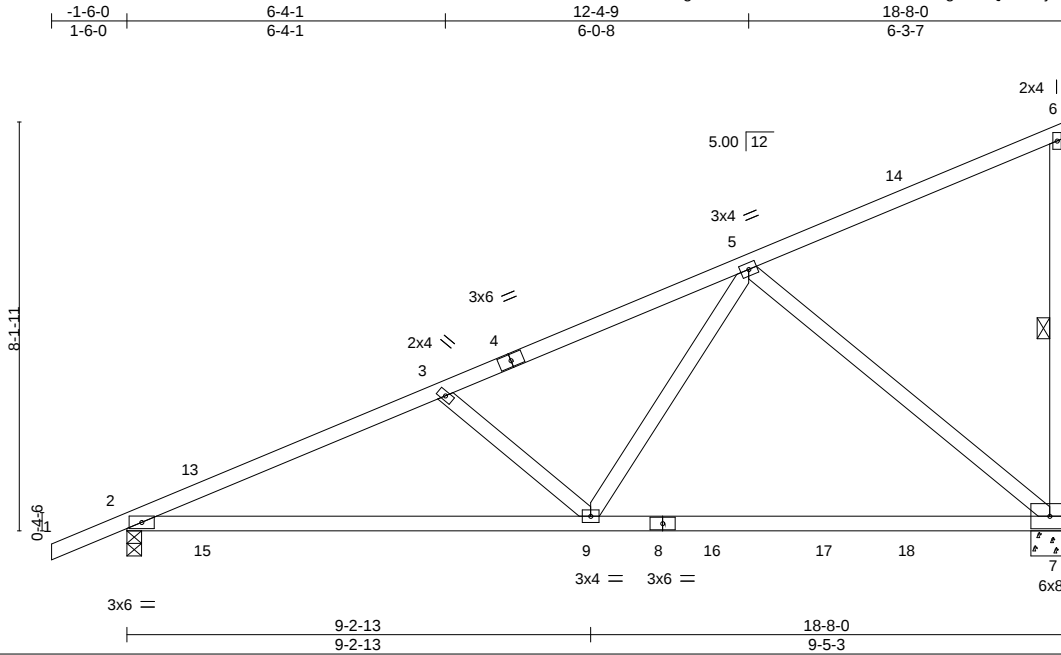
8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:24 2021 Page 1
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Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055090
2902489	T38	Monopitch	5	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:25 2021 Page 1
ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-shISv9Z1C?gMX6QXI0cnj9KmHCYn?WfjHsujh0ymy4m



Scale = 1:45.9

Bracing

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.48	Vert(LL)	0.35	7-9	>632	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.95	Vert(CT)	-0.47	7-9	>477	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.96	Horz(CT)	0.03	7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						Weight: 98 lb	FT = 20%

LUMBER-

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

REACTIONS.

(size) 2=0-3-8, 7=0-8-0
Max Horz 2=284(LC 12)
Max Uplift 2=-251(LC 8), 7=-286(LC 8)
Max Grav 2=811(LC 2), 7=752(LC 2)

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

TOP CHORD 2-3=-1313/978, 3-5=-1092/891
BOT CHORD 2-9=-1129/1190, 7-9=-557/598
WEBS 3-9=-357/244, 5-9=-753/700, 5-7=-763/707

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 18-6-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=251, 7=286.



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August 18,2021

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



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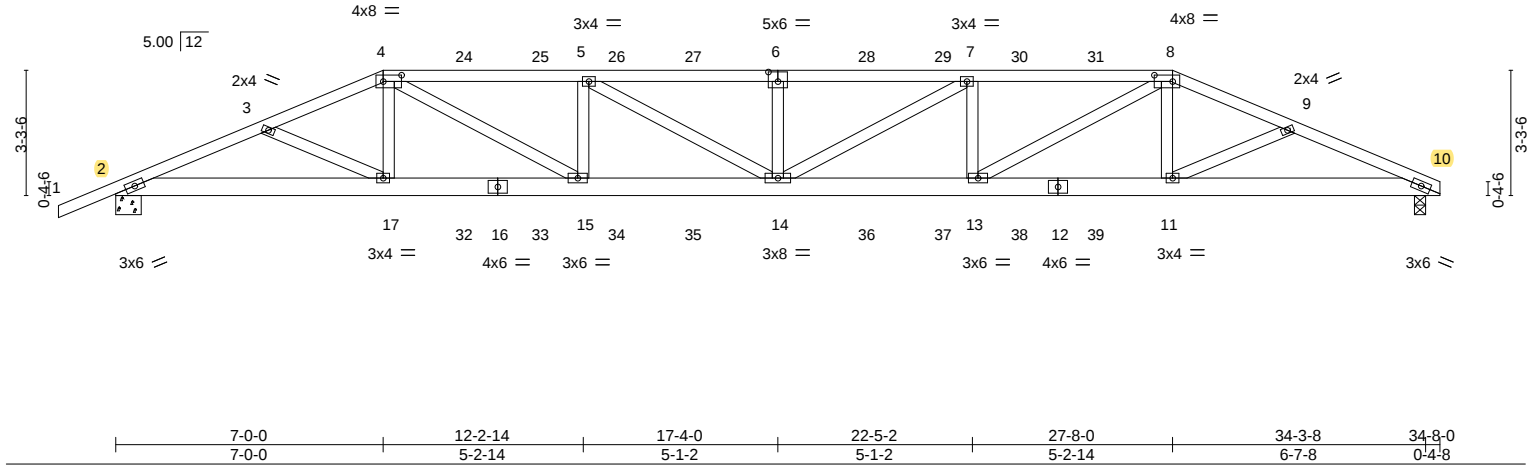
Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055092
2902489	T40	Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:31 2021 Page 1
ID:PCDxLFEFGc?8hVLoJl8fLzZ5Cf-hrgjACeoorRVF1tgeHjByQakwcdpPJXbfnL1ufmy4g

-1-6-0	3-11-15	7-0-0	12-2-14	17-4-0	22-5-2	27-8-0	30-8-1	34-8-0
1-6-0	3-11-15	3-0-1	5-2-14	5-1-2	5-1-2	5-2-14	3-0-1	3-11-15

Scale = 1:60.3



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.72	Vert(LL)	0.40	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.65				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.11				
BCDL	10.0	Code FBC2020/TP12014		Matrix-MS							
								Weight: 396 lb		FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-8-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-9-15 oc bracing.

REACTIONS.

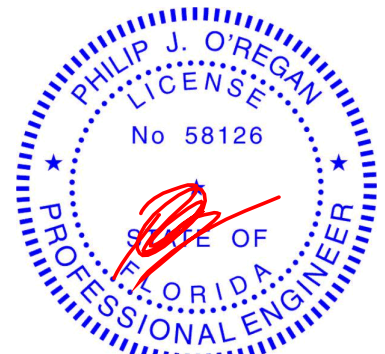
(size) 2=0-8-0, 10=0-3-8
Max Horz 2=62(LC 12)
Max Uplift 2=-1057(LC 8), 10=-1072(LC 9)
Max Grav 2=2649(LC 1), 10=2683(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-6206/2555, 3-4=-6062/2519, 4-5=-7926/3380, 5-6=-8658/3711, 6-7=-8658/3711,
7-8=-7852/3364, 8-9=-5801/2434, 9-10=-5766/2382
BOT CHORD 2-17=-2356/5689, 15-17=-2303/5614, 14-15=-3313/7926, 13-14=-3292/7852,
11-13=-2202/5364, 10-11=-2128/5224
WEBS 4-17=-220/687, 4-15=-1185/2697, 5-15=-1039/476, 5-14=-427/890, 6-14=-608/291,
7-14=-444/960, 7-13=-1070/484, 8-13=-1249/2876, 8-11=-102/456, 9-11=-168/297

NOTES-

- 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.
- 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1057, 10=1072.



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Date:

August 18, 2021

Continued on page 2

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.
2902489	T40	Hip Girder	1	2	T25055092

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:31 2021 Page 2
ID:PCDxLFEFGc?8hVLoJl8fL1zZ5Cf-hrgjACeoorRVF1tgeHjByQakwcdpPJXbfnL1ufymy4g

NOTES-

- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 82 lb up at 7-0-0, 109 lb down and 82 lb up at 9-0-12, 109 lb down and 82 lb up at 11-0-12, 109 lb down and 82 lb up at 13-0-12, 109 lb down and 82 lb up at 15-0-12, 109 lb down and 77 lb up at 17-0-12, 109 lb down and 77 lb up at 17-7-4, 109 lb down and 82 lb up at 19-7-4, 109 lb down and 82 lb up at 21-7-4, 109 lb down and 82 lb up at 23-7-4, and 109 lb down and 82 lb up at 25-7-4, and 221 lb down and 159 lb up at 27-8-0 on top chord, and 332 lb down and 207 lb up at 7-0-0, 85 lb down and 60 lb up at 9-0-12, 85 lb down and 60 lb up at 11-0-12, 85 lb down and 60 lb up at 13-0-12, 85 lb down and 60 lb up at 15-0-12, 85 lb down and 60 lb up at 17-0-12, 85 lb down and 60 lb up at 17-7-4, 85 lb down and 60 lb up at 19-7-4, 85 lb down and 60 lb up at 21-7-4, 85 lb down and 60 lb up at 23-7-4, and 85 lb down and 60 lb up at 25-7-4, and 332 lb down and 207 lb up at 27-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-8=-54, 8-10=-54, 2-10=-20

Concentrated Loads (lb)

Vert: 4=-109(B) 8=-174(B) 17=-332(B) 14=-129(B) 6=-219(B) 11=-332(B) 24=-109(B) 25=-109(B) 26=-109(B) 27=-109(B) 28=-109(B) 29=-109(B) 30=-109(B) 31=-109(B) 32=-65(B) 33=-65(B) 34=-65(B) 35=-65(B) 36=-65(B) 37=-65(B) 38=-65(B) 39=-65(B)

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

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

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



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055094
2902489	T42	Roof Special	1	1	Job Reference (optional)	

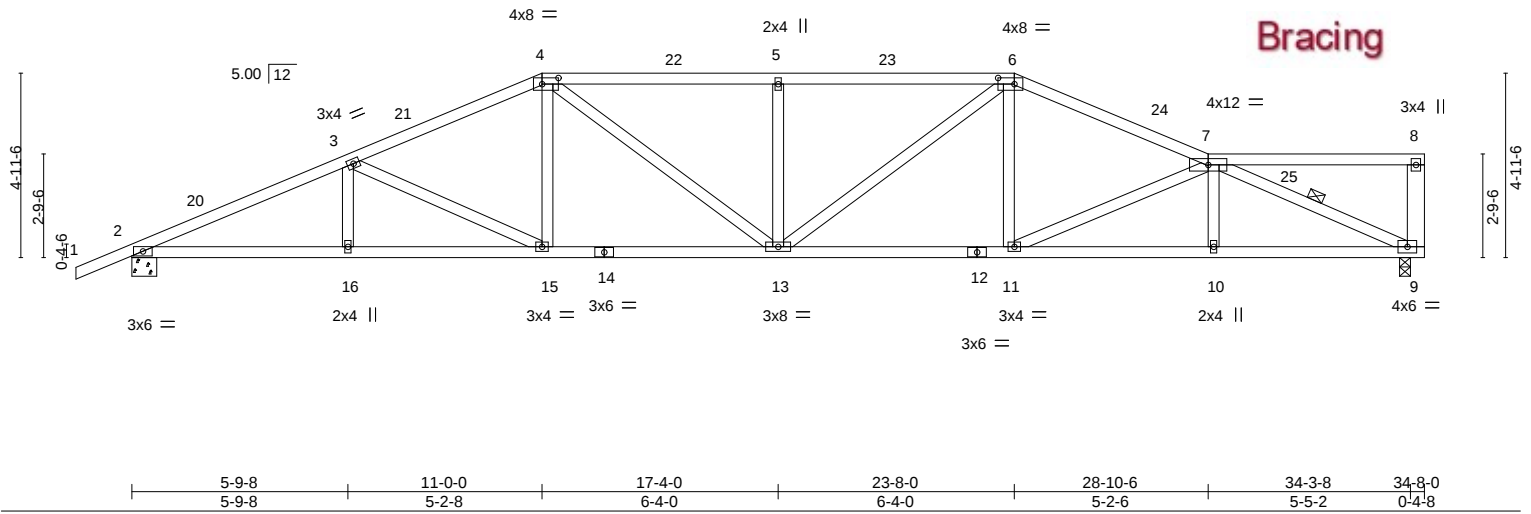
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:33 2021 Page 1

ID:PCDxLFEFGc?8hVLoJl8fL1zZ5Cf-dEnUaug2KShDVL13mif1rg8zQLotCru65q8zYymy4e

-1-6-0	5-9-8	11-0-0	17-4-0	23-8-0	28-10-6	34-8-0
1-6-0	5-9-8	5-2-8	6-4-0	6-4-0	5-2-6	5-9-10

Scale = 1:61.8



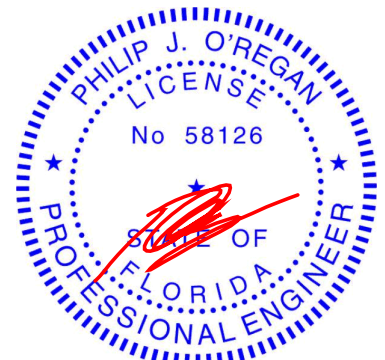
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	-0.20 13 >999	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.38 13-15 >999				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.13 9 n/a				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
								Weight: 186 lb FT = 20%			

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-3-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 7-9-13 oc bracing.
WEBS	2x4 SP No.3 *Except*	WEBS	1 Row at midpt 7-9
	8-9: 2x6 SP No.2		

REACTIONS. (size) 9=0-3-8, 2=0-8-0
Max Horz 2=134(LC 12)
Max Uplift 9=287(LC 9), 2=275(LC 8)
Max Grav 9=1272(LC 1), 2=1357(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=2775/579, 3-4=2292/511, 4-5=2407/582, 5-6=2407/582, 6-7=2270/508
BOT CHORD 2-16=575/2514, 15-16=575/2514, 13-15=444/2073, 11-13=435/2057, 10-11=522/2413, 9-10=519/2418
WEBS 3-15=503/198, 4-15=49/389, 4-13=134/539, 5-13=390/188, 6-13=138/560, 6-11=29/365, 7-11=412/146, 7-9=2577/548

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 11-0-0, Exterior(2R) 11-0-0 to 14-5-10, Interior(1) 14-5-10 to 23-8-0, Exterior(2R) 23-8-0 to 27-1-10, Interior(1) 27-1-10 to 34-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=287, 2=275.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 18, 2021

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055095
2902489	T43	Roof Special	1	1	Job Reference (optional)	

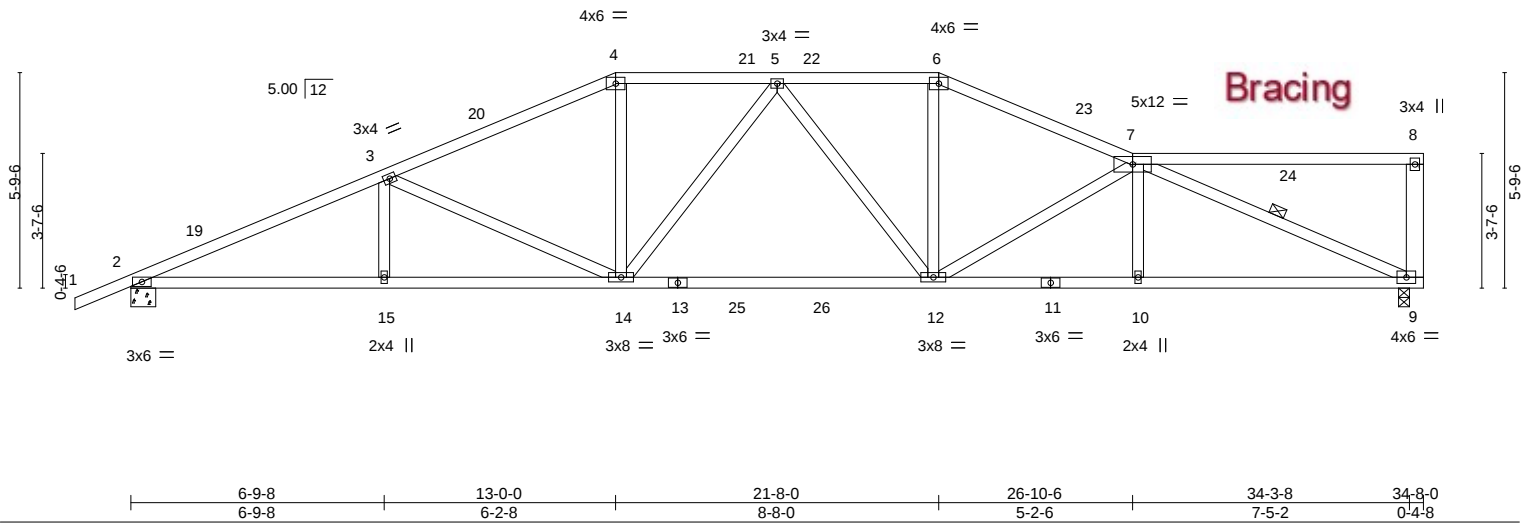
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:34 2021 Page 1

ID:PCDxLFEFGc?8hVLoJl8fL1zZ5Cf5QLsoEgg5mp46VcFJPGua3CHoqdvca_1LIZhV_ymy4d

-1-6-0	6-9-8	13-0-0	17-4-0	21-8-0	26-10-6	34-8-0
1-6-0	6-9-8	6-2-8	4-4-0	4-4-0	5-2-6	7-9-10

Scale = 1:61.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.62	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.95	Vert(LL) -0.32 12-14 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.95	Vert(CT) -0.57 12-14 >729 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.14 9 n/a n/a		
	Code FBC2020/TPI2014			Weight: 189 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
8-9: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 7-9

REACTIONS.

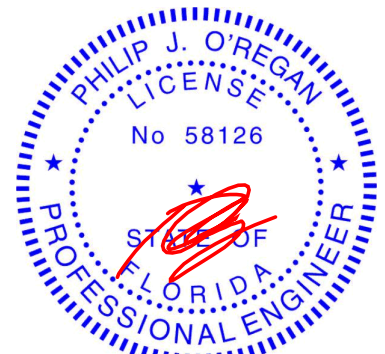
(size) 9=0-3-8, 2=0-8-0
Max Horz 2=163(LC 12)
Max Uplift 9=-284(LC 9), 2=-268(LC 12)
Max Grav 9=1376(LC 2), 2=1445(LC 2)

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

TOP CHORD 2-3=-2945/570, 3-4=-2311/483, 4-5=-2095/481, 5-6=-2078/468, 6-7=-2279/479
BOT CHORD 2-15=-583/2677, 14-15=-583/2677, 12-14=-450/2160, 10-12=-492/2506, 9-10=-490/2515
WEBS 3-14=-662/247, 4-14=-70/654, 5-14=-275/88, 5-12=-293/91, 6-12=-80/659, 7-12=-531/167, 7-10=0/251, 7-9=-2658/518

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 13-0-0, Exterior(2R) 13-0-0 to 16-5-10, Interior(1) 16-5-10 to 21-8-0, Exterior(2R) 21-8-0 to 25-1-10, Interior(1) 25-1-10 to 34-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=284, 2=268.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 18, 2021

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

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



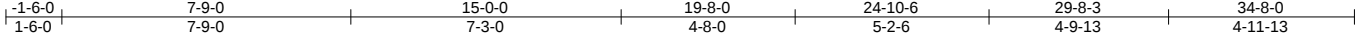
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055096
2902489	T44	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:35 2021 Page 1

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Scale = 1:61.8

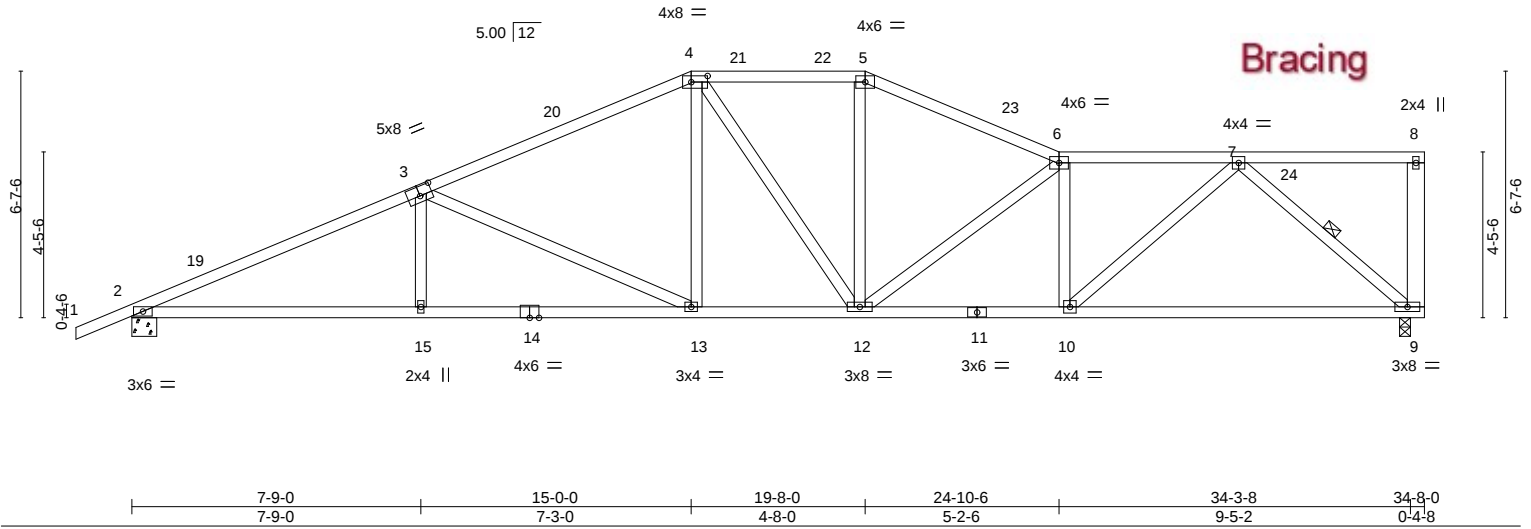


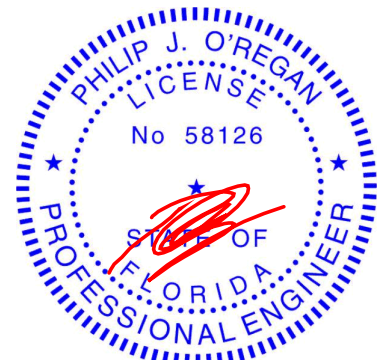
Plate Offsets (X,Y)-- [3:0-4-0-0-3-0], [4:0-5-4-0-2-0]											
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.68		Vert(LL)	-0.23 9-10	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.87		Vert(CT)	-0.48 9-10	>862	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.98		Horz(CT)	0.11 9	n/a	n/a		
BCDL 10.0		Code FBC2020/TPI2014		Matrix-MS						Weight: 195 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD 2x4 SP No.2		TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2		BOT CHORD	Rigid ceiling directly applied or 7-8-1 oc bracing.
WEBS 2x4 SP No.3 *Except*		WEBS	1 Row at midpt 7-9
8-9: 2x6 SP No.2			

REACTIONS. (size) 9=0-3-8, 2=0-8-0
Max Horz 2=192(LC 12)
Max Uplift 9=279(LC 9), 2=282(LC 12)
Max Grav 9=1272(LC 1), 2=1357(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=2700/557, 3-4=1949/458, 4-5=1711/452, 5-6=1895/459, 6-7=2135/455
BOT CHORD 2-15=588/2433, 13-15=587/2437, 12-13=404/1729, 10-12=462/2157, 9-10=289/1255
WEBS 3-15=0/319, 3-13=789/288, 4-13=74/484, 5-12=69/446, 6-12=583/159, 6-10=609/208, 7-10=230/1178, 7-9=1622/384

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 15-0-0, Exterior(2R) 15-0-0 to 18-5-10, Interior(1) 18-5-10 to 19-8-0, Exterior(2R) 19-8-0 to 23-1-10, Interior(1) 23-1-10 to 34-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=279, 2=282.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 18,2021

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055097
2902489	T45	Roof Special	1	1	Job Reference (optional)	

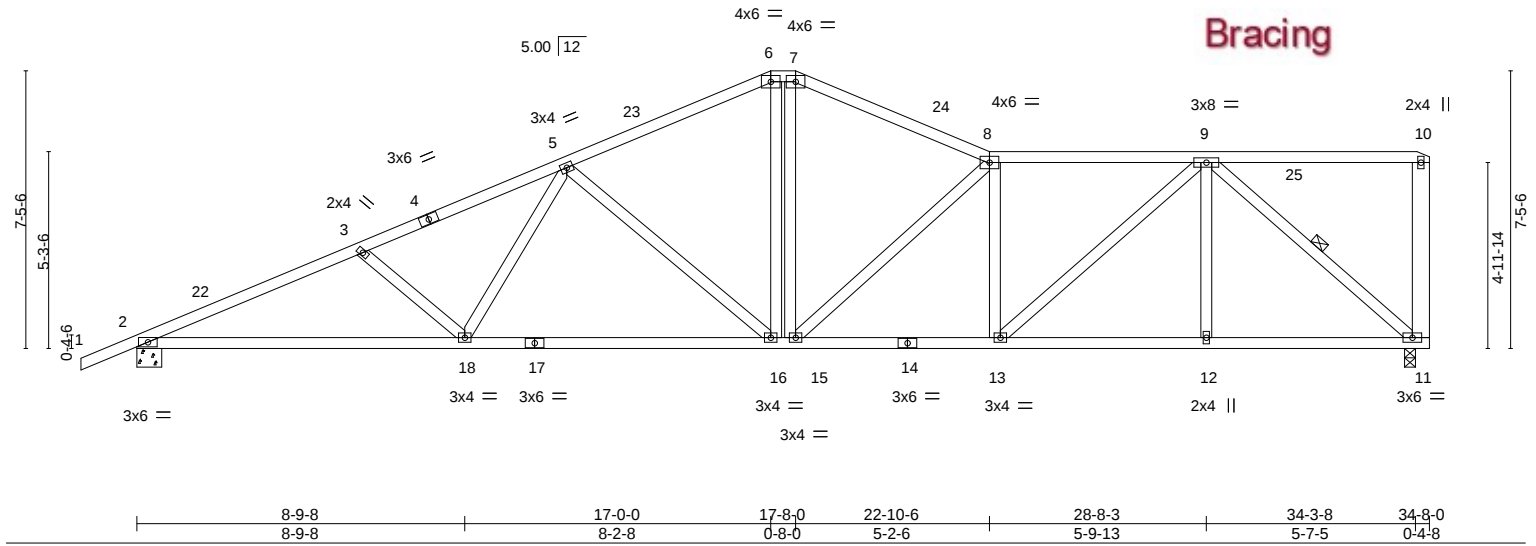
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:36 2021 Page 1

ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-1pTcdWixdN3oMomeRqIMfUlfvdJG4YUKo32oatymy4b

-1-6-0	6-0-11	11-6-6	17-0-0	17-8-0	22-10-6	28-8-3	5-9-13	34-4-0	34-8-0
1-6-0	6-0-11	5-5-10	5-5-10	0-8-0	5-2-6			5-7-13	0-4-0

Scale = 1:61.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.39	in (loc) l/defl L/d	MT20	244/190
TCCL 7.0	Plate Grip DOL 1.25	BC 0.90	Vert(LL) -0.15 16-18 >999 240		
BCCL 0.0 *	Lumber DOL 1.25	WB 0.69	Vert(CT) -0.35 16-18 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.10 11 n/a n/a		
	Code FBC2020/TPI2014			Weight: 209 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
10-11: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-2-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-3-4 oc bracing.
WEBS 1 Row at midpt 9-11

REACTIONS.

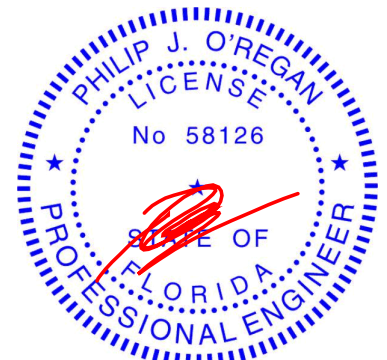
(size) 2=0-8-0, 11=0-3-8
Max Horz 2=220(LC 12)
Max Uplift 2=-293(LC 12), 11=-278(LC 13)
Max Grav 2=1357(LC 1), 11=1272(LC 1)

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

TOP CHORD 2-3=-2734/550, 3-5=-2485/490, 5-6=-1732/392, 6-7=-1549/393, 7-8=-1722/400, 8-9=-1963/412
BOT CHORD 2-18=-656/2478, 16-18=-482/2022, 15-16=-334/1549, 13-15=-417/1978, 12-13=-268/1271, 11-12=-268/1271
WEBS 3-18=-319/179, 5-18=-81/497, 5-16=-651/253, 6-16=-110/529, 7-15=-110/448, 8-15=-619/190, 8-13=-510/166, 9-13=-201/922, 9-11=-1653/347

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 17-0-0, Exterior(2E) 17-0-0 to 17-8-0, Exterior(2R) 17-8-0 to 21-1-10, Interior(1) 21-1-10 to 34-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=293, 11=278.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 18,2021

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

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055098
2902489	T46	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:37 2021 Page 1

ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-V?1_QGjZOhBfzyKq?YqbChqqj1gfp_SU1joL6Jymy4a



Scale = 1:62.7

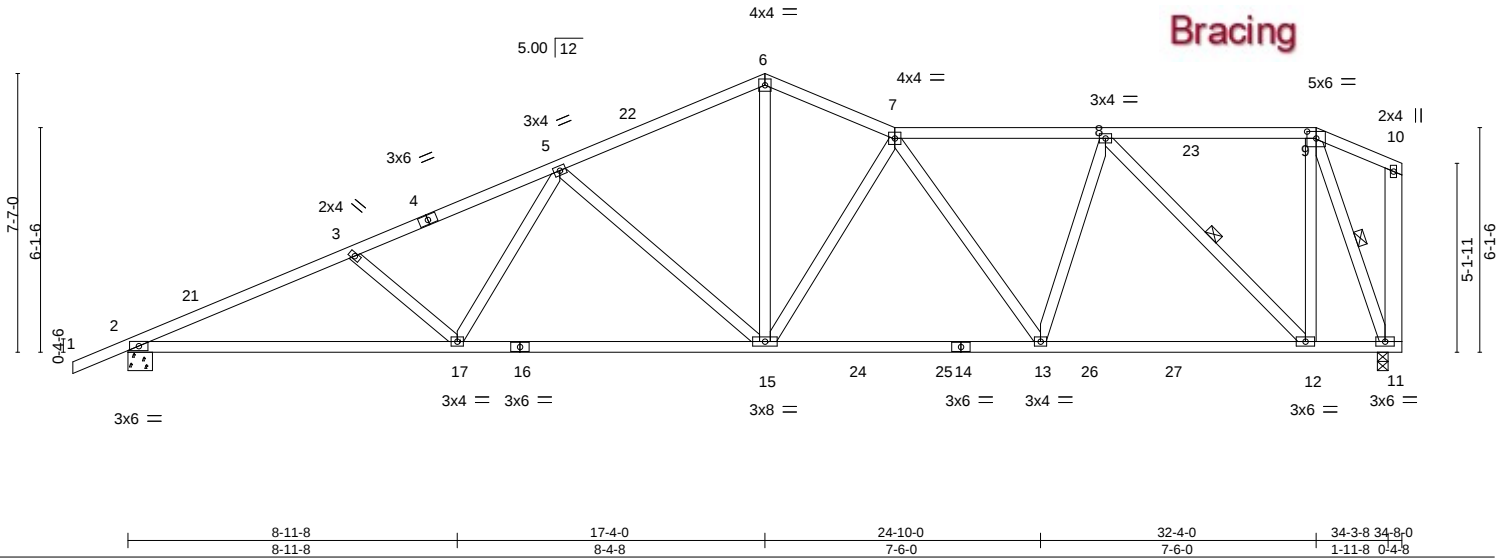


Plate Offsets (X,Y)-- [9:0-3-0-0-2-4]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.45	Vert(LL) -0.20	15-17	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25		BC 0.82	Vert(CT) -0.38	15-17	>999	180		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.71	Horz(CT) 0.10	11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 211 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 2-16: 2x4 SP M 31
 WEBS 2x4 SP No.3 *Except*
 10-11: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 8-6-2 oc bracing.
 WEBS 1 Row at midpt 8-12, 9-11

REACTIONS.

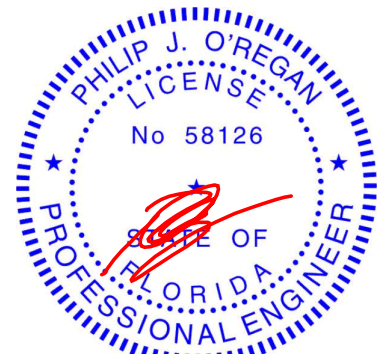
(size) 2=0-8-0, 11=0-3-8
 Max Horz 2=221(LC 12)
 Max Uplift 2=296(LC 12), 11=280(LC 13)
 Max Grav 2=1449(LC 2), 11=1407(LC 2)

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

TOP CHORD 2-3=-2919/554, 3-5=-2714/492, 5-6=-1880/391, 6-7=-1854/406, 7-8=-1709/345, 8-9=-535/130
 BOT CHORD 2-17=-659/2668, 15-17=-482/2179, 13-15=-391/1979, 12-13=-296/1495, 11-12=-98/505
 WEBS 3-17=-327/183, 5-17=-81/577, 5-15=-662/256, 6-15=-190/1205, 7-15=-573/191, 7-13=-488/153, 8-13=-85/739, 8-12=-1385/281, 9-12=-160/1214, 9-11=-1461/279

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 17-4-0, Exterior(2E) 17-4-0 to 20-10-6, Interior(1) 20-10-6 to 32-4-0, Exterior(2E) 32-4-0 to 34-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=296, 11=280.



Philip J. O'Regan PE No.58126
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

August 18,2021

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

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



6904 Parke East Blvd.
 Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055099
2902489	T47	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-SO9IrykpvIRNDGUD6zs3H6wAerLqHu2mV1HSACymy4Y



Scale = 1:62.9

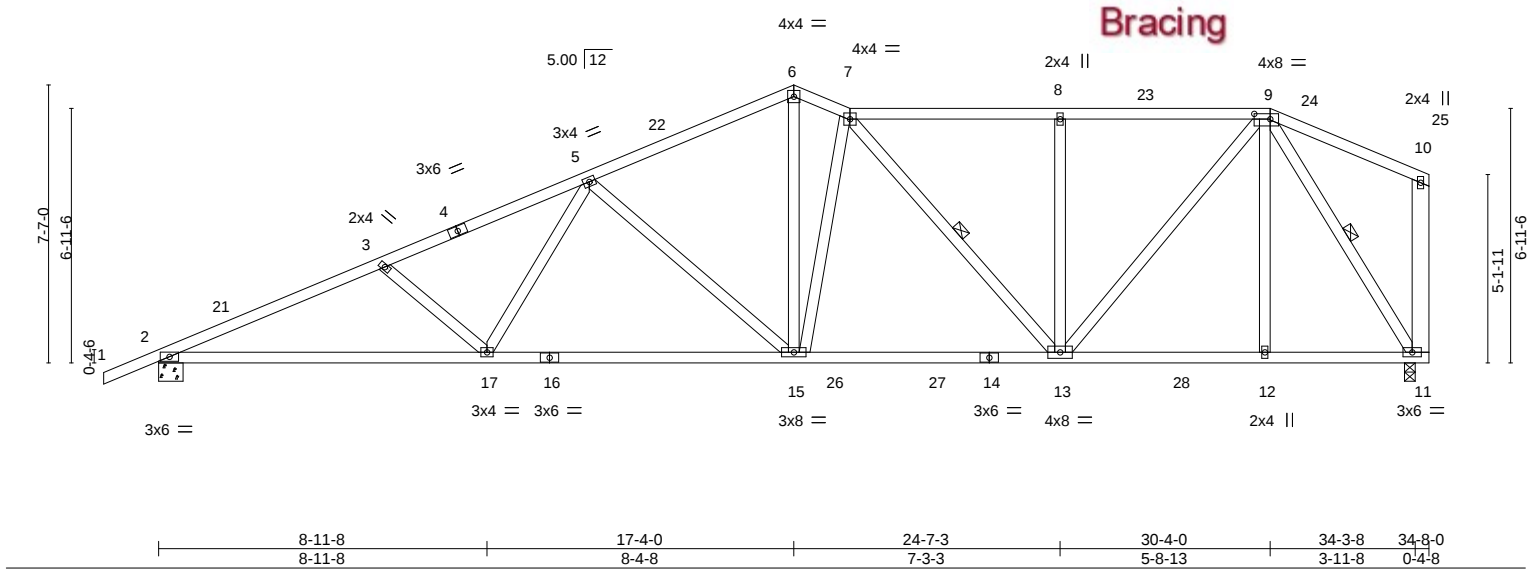


Plate Offsets (X,Y)-- [9:0-5-4,0-1-12]		8-11-8 8-11-8		17-4-0 8-4-8		24-7-3 7-3-3		30-4-0 5-8-13		34-3-8 3-11-8		34-8-0 0-4-8	
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.19 13-15	>999	240	MT20	244/190		
TCDL	7.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.35 15-17	>999	180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.09 11	n/a	n/a				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS									
										Weight: 219 lb	FT = 20%		

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-16: 2x4 SP M 31
WEBS 2x4 SP No.3 *Except*
10-11: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-6-2 oc bracing.
WEBS 1 Row at midpt 7-13, 9-11

REACTIONS.

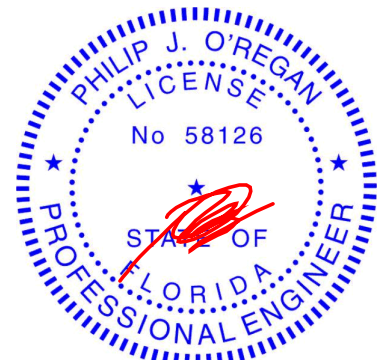
(size) 2=0-8-0, 11=0-3-8
Max Horz 2=221(LC 12)
Max Uplift 2=296(LC 12), 11=280(LC 13)
Max Grav 2=1451(LC 2), 11=1412(LC 2)

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

TOP CHORD 2-3=-2924/554, 3-5=-2720/492, 5-6=-1889/400, 6-7=-1835/418, 7-8=-1535/353, 8-9=-1535/353
BOT CHORD 2-17=-659/2674, 15-17=-482/2185, 13-15=-358/1809, 12-13=-155/792, 11-12=-155/788
WEBS 3-17=-328/183, 5-17=-81/576, 5-15=-656/255, 6-15=-211/1225, 7-15=-528/201, 7-13=-430/136, 8-13=-358/172, 9-13=-220/1138, 9-11=-1472/287

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 17-4-0, Exterior(2E) 17-4-0 to 18-10-6, Interior(1) 18-10-6 to 30-4-0, Exterior(2R) 30-4-0 to 33-9-10, Interior(1) 33-9-10 to 34-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=296, 11=280.



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August 18,2021

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055100
2902489	T48	Hip	1	1	Job Reference (optional)	

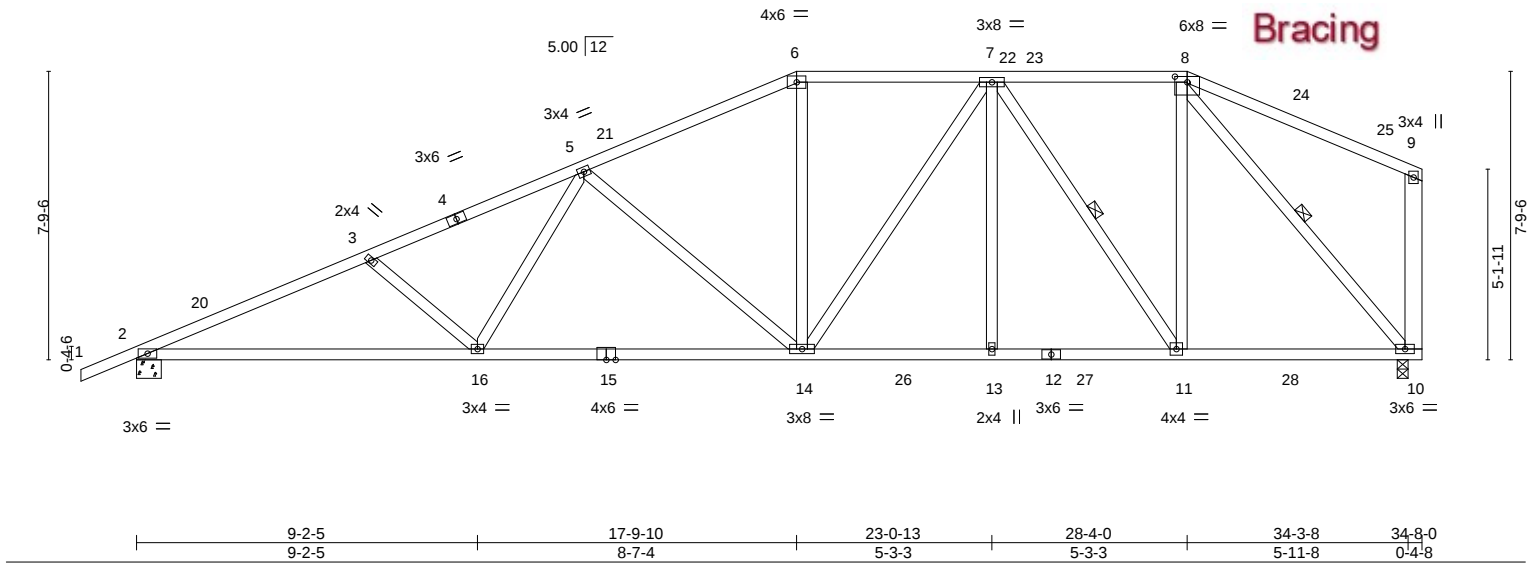
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:40 2021 Page 1

ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-waj72HlRgcZEQ3PggNlqKSKeFi20Khwhj00jeymy4X

-1-6-0	6-3-14	12-0-12	17-9-10	23-0-13	28-4-0	34-8-0
1-6-0	6-3-14	5-8-14	5-8-14	5-3-3	5-3-3	6-4-0

Scale = 1:62.1



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.21 14-16 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.40 14-16 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.09 10 n/a n/a				
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							
								Weight: 217 lb		FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 2-15: 2x4 SP M 31
 WEBS 2x4 SP No.3 *Except*
 9-10: 2x6 SP No.2

REACTIONS.

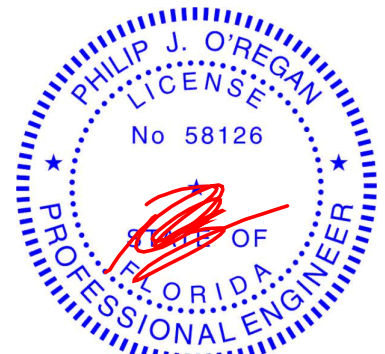
(size) 2=0-8-0, 10=0-3-8
 Max Horz 2=224(LC 12)
 Max Uplift 2=-330(LC 12), 10=-244(LC 9)
 Max Grav 2=1458(LC 2), 10=1445(LC 2)

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

TOP CHORD 2-3=-2934/639, 3-5=-2724/576, 5-6=-1842/413, 6-7=-1659/411, 7-8=-1018/252
 BOT CHORD 2-16=-740/2682, 14-16=-558/2173, 13-14=-289/1491, 11-13=-289/1491, 10-11=-173/999
 WEBS 3-16=-333/188, 5-16=-81/602, 5-14=-692/262, 6-14=-40/469, 7-14=-127/315,
 7-11=-868/224, 8-11=-145/983, 8-10=-1527/261

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 17-9-10, Exterior(2R) 17-9-10 to 22-8-7, Interior(1) 22-8-7 to 28-4-0, Exterior(2R) 28-4-0 to 33-2-13, Interior(1) 33-2-13 to 34-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=330, 10=244.



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August 18,2021

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



6904 Parke East Blvd.
 Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055101
2902489	T49	Hip	1	1	Job Reference (optional)	

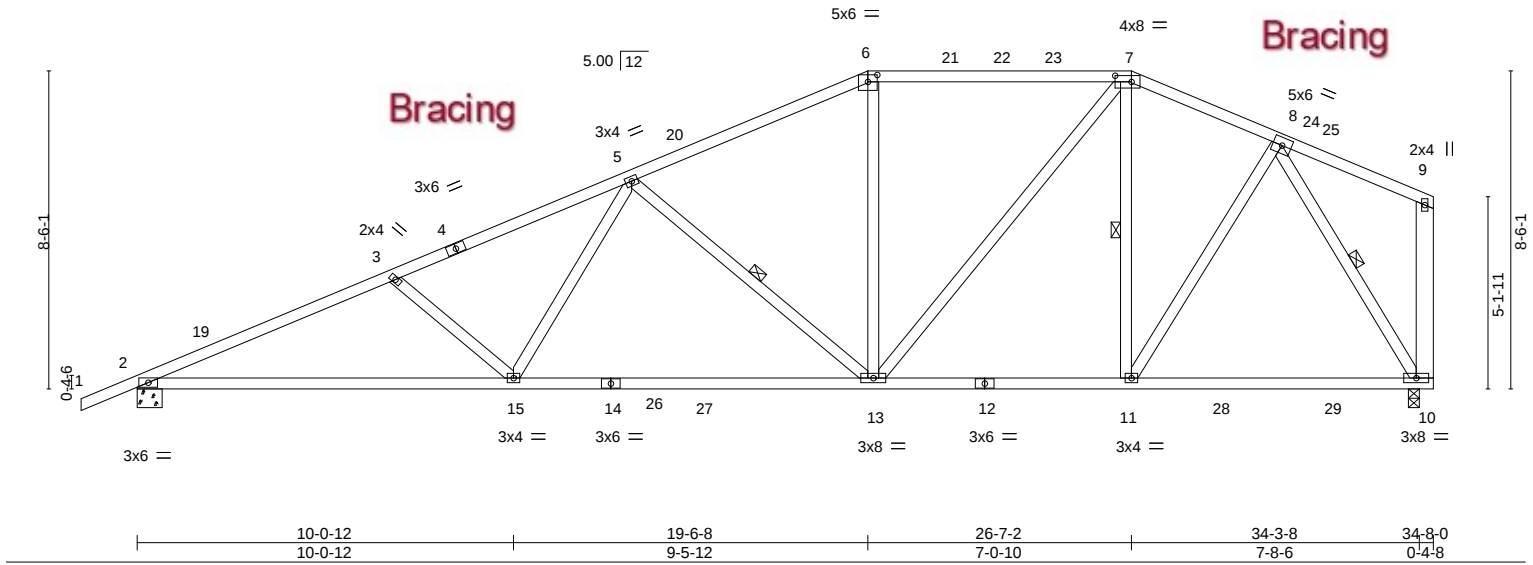
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:41 2021 Page 1

ID:PCDxLFEFgc78hVLoJl8fL1zZ5Cf-OmGVGdm3Rwh4SZebEOuXMX?R4e1YltZ3yLmZF4ymy4W

-1-6-0	6-10-14	13-2-11	19-6-8	26-7-2	30-5-13	34-8-0
1-6-0	6-10-14	6-3-13	6-3-13	7-0-10	3-10-11	4-2-3

Scale = 1:61.6



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	-0.30 13-15 >999	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.52 13-15 >794				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.08 10 n/a				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS						Weight: 208 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 2-14: 2x4 SP M 31
 WEBS 2x4 SP No.3 *Except*
 9-10: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-9-14 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 8-0-13 oc bracing.
 WEBS 1 Row at midpt 5-13, 7-11, 8-10

REACTIONS.

(size) 2=0-8-0, 10=0-3-8
 Max Horz 2=235(LC 12)
 Max Uplift 2=-328(LC 12), 10=-227(LC 13)
 Max Grav 2=1474(LC 2), 10=1455(LC 2)

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

TOP CHORD 2-3=-2942/626, 3-5=-2708/554, 5-6=-1689/373, 6-7=-1512/377, 7-8=-1242/288
 BOT CHORD 2-15=-734/2688, 13-15=-531/2099, 11-13=-185/1113, 10-11=-145/744
 WEBS 3-15=-377/210, 5-15=-92/709, 5-13=-782/287, 6-13=-6/363, 7-13=-203/656,
 7-11=-355/133, 8-11=-104/716, 8-10=-1400/285

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 19-6-8, Exterior(2R) 19-6-8 to 24-5-5, Interior(1) 24-5-5 to 26-7-2, Exterior(2R) 26-7-2 to 31-5-15, Interior(1) 31-5-15 to 34-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=328, 10=227.



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6904 Parke East Blvd.
 Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055102
2902489	T50	Half Hip Girder	1	1	Job Reference (optional)	

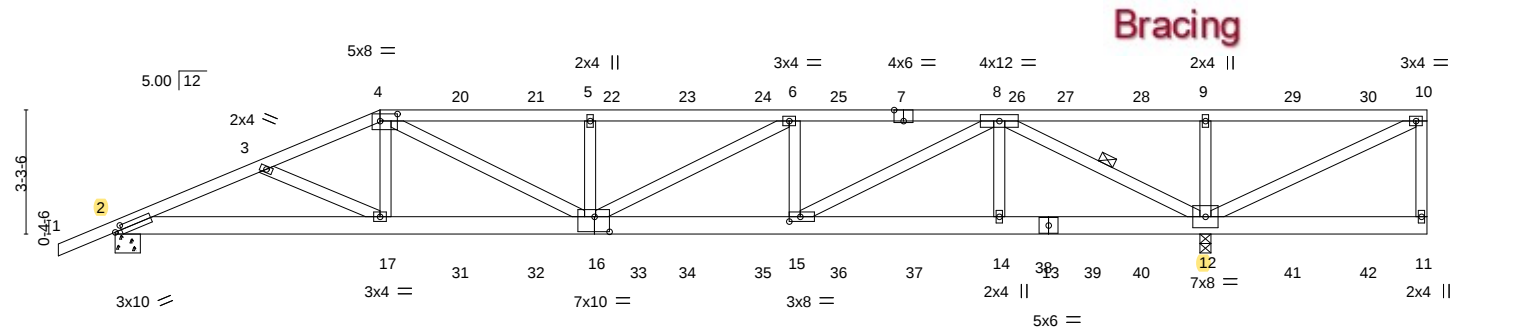
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:43 2021 Page 1

ID:PCDxLFEFGc?8hVLoJl8fL1zZ5Cf-K9OGhJnKzXxohTo_Lox?Ry4ohSgdDeRMQfFgJzjymy4U



Scale = 1:60.9



7-0-0	12-6-10	17-11-8	23-4-6	28-9-12	28-11-8	34-8-0
7-0-0	5-6-10	5-4-14	5-4-14	5-5-6	0-1-12	5-8-8
Plate Offsets (X,Y)-- [2:0-2-3,0-1-8], [4:0-5-8,0-2-4], [7:0-3-0,Edge], [15:0-3-8,0-1-8], [16:0-4-12,0-4-12]						

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.67	Vert(LL) 0.35	15-16	>994	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.98	Vert(CT) -0.56	15-16	>614	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 1.00	Horz(CT) 0.11	12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 207 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP M 31 *Except*
1-4: 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
13-16: 2x6 SP M 26
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-4-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-4-13 oc bracing.
WEBS 1 Row at midpt 8-12

REACTIONS.

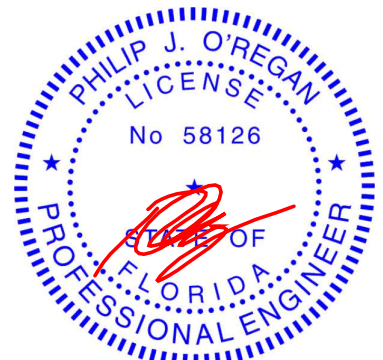
(size) 2=0-8-0, 12=0-3-8
Max Horz 2=119(LC 8)
Max Uplift 2=-826(LC 8), 12=-1191(LC 4)
Max Grav 2=2120(LC 1), 12=2392(LC 1)

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

TOP CHORD 2-3=-4849/1959, 3-4=-4695/1919, 4-5=-5769/2389, 5-6=-5744/2377, 6-8=-5451/2205, 8-9=-296/204, 9-10=-296/204
BOT CHORD 2-17=-1865/4440, 16-17=-1807/4351, 15-16=-2205/5451, 14-15=-1363/3551, 12-14=-1363/3551
WEBS 4-17=-227/709, 4-16=-687/1659, 5-16=-632/302, 6-16=-196/334, 6-15=-741/371, 8-15=-977/2158, 8-14=-78/439, 8-12=-3990/1718, 9-12=-382/204, 10-12=-237/343

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=826, 12=1191.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 18,2021

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

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



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.
2902489	T50	Half Hip Girder	1	1	T25055102

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:43 2021 Page 2
ID:PCDxLFEFGc?8hVLoJl8fL1zZ5Cf-K9OGhJnKzXxohto_Lox?Ry4ohSgdDeRMQfFgJzmy4U

NOTES-

- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 82 lb up at 7-0-0, 109 lb down and 82 lb up at 9-0-12, 109 lb down and 82 lb up at 11-0-12, 109 lb down and 82 lb up at 13-0-12, 109 lb down and 82 lb up at 15-0-12, 109 lb down and 82 lb up at 17-0-12, 109 lb down and 82 lb up at 19-0-12, 109 lb down and 77 lb up at 21-0-12, 109 lb down and 82 lb up at 23-0-12, 109 lb down and 82 lb up at 25-0-12, 109 lb down and 82 lb up at 27-0-12, 56 lb down and 104 lb up at 29-0-12, 56 lb down and 104 lb up at 31-0-12, and 56 lb down and 104 lb up at 33-0-12, and 46 lb down and 84 lb up at 34-6-4 on top chord, and 332 lb down and 207 lb up at 7-0-0, 85 lb down and 60 lb up at 9-0-12, 85 lb down and 60 lb up at 11-0-12, 85 lb down and 60 lb up at 13-0-12, 85 lb down and 60 lb up at 15-0-12, 85 lb down and 60 lb up at 17-0-12, 85 lb down and 60 lb up at 19-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 23-0-12, 85 lb down and 60 lb up at 25-0-12, 85 lb down and 60 lb up at 27-0-12, 3 lb down and 61 lb up at 29-0-12, 3 lb down and 61 lb up at 31-0-12, and 3 lb down and 61 lb up at 33-0-12, and 5 lb down and 53 lb up at 34-6-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) 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: 1-4=-54, 4-10=-54, 2-11=-20

Concentrated Loads (lb)

Vert: 4=-109(F) 7=-109(F) 10=29(F) 11=37(F) 17=-332(F) 9=34(F) 12=45(F) 20=-109(F) 21=-109(F) 22=-109(F) 23=-109(F) 24=-109(F) 25=-109(F) 26=-109(F) 27=-109(F) 28=-109(F) 29=34(F) 30=34(F) 31=-65(F) 32=-65(F) 33=-65(F) 34=-65(F) 35=-65(F) 36=-65(F) 37=-65(F) 38=-65(F) 39=-65(F) 40=-65(F) 41=45(F) 42=45(F)

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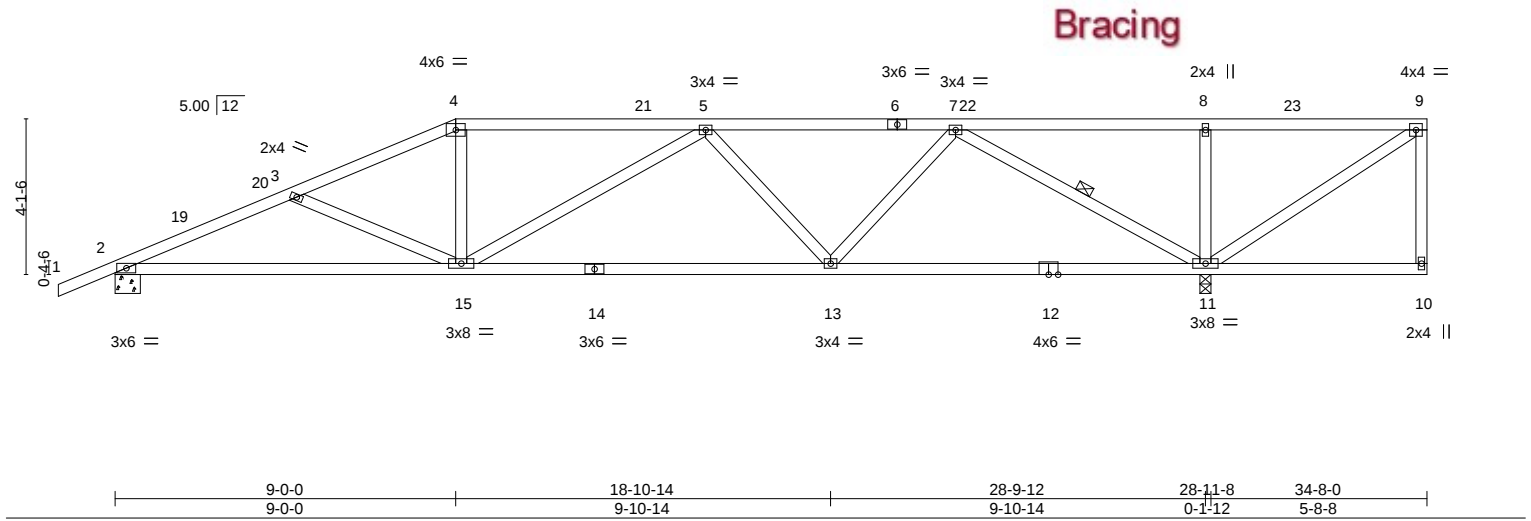
Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055103
2902489	T51	Half Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:44 2021 Page 1
ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-oLyefoykr3fJ1NAvWSE_Ad0ss19yCfWeJ_DsPymy4T

-1-6-0	4-9-8	9-0-0	15-7-4	22-2-8	28-9-12	34-8-0
1-6-0	4-9-8	4-2-8	6-7-4	6-7-4	6-7-4	5-10-4

Scale = 1:60.9



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.18 11-13	MT20	244/190		
TCDL	7.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	-0.38 11-13				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.08 11				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
								Weight: 175 lb		FT = 20%	

LUMBER-

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

REACTIONS.

(size) 2=0-8-0, 11=0-3-8
Max Horz 2=148(LC 12)
Max Uplift 2=-297(LC 12), 11=-405(LC 8)
Max Grav 2=1107(LC 1), 11=1528(LC 1)

FORCES.

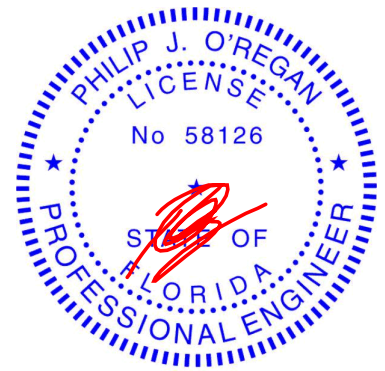
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2145/579, 3-4=-1852/479, 4-5=-1683/469, 5-7=-1617/404
BOT CHORD 2-15=-619/1955, 13-15=-535/1859, 11-13=-331/1202
WEBS 3-15=-314/165, 4-15=-49/462, 5-13=-370/200, 7-13=-119/635, 7-11=-1647/462,
8-11=-369/182, 9-11=-284/89

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 9-0-0, Exterior(2R) 9-0-0 to 13-10-13, Interior(1) 13-10-13 to 34-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=297, 11=405.

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 7-11



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August 18, 2021

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



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055104
2902489	T52	Half Hip	1	1	Job Reference (optional)	

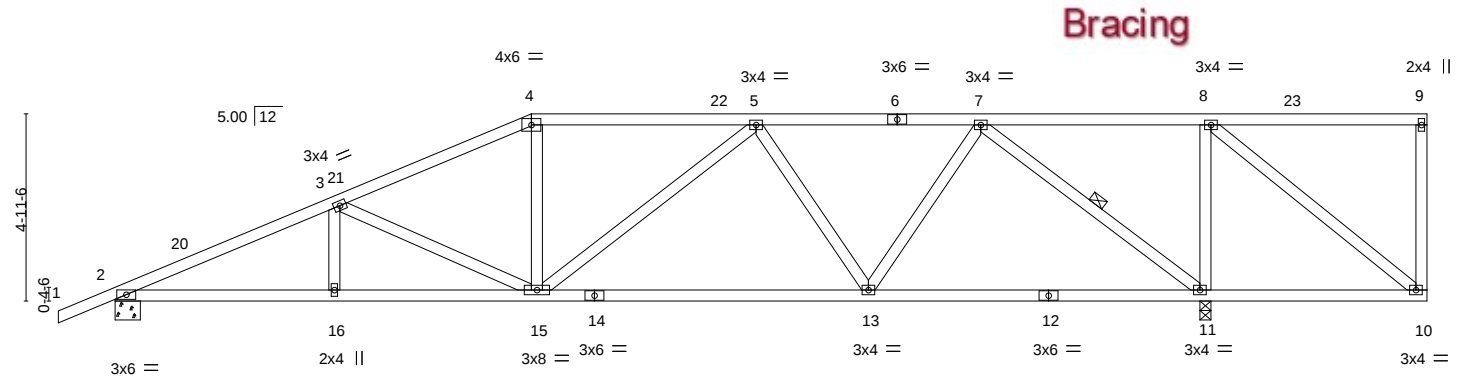
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:44 2021 Page 1

ID:PCDxLFEFGc?8hVLoJl8fL1zZ5Cf-oLyeufoykr3fJ1NAvWSE_Ad1cs3nyDDWeJ_DsPymy4T

-1-6-0	5-9-8	11-0-0	16-11-4	22-10-8	28-9-12	34-8-0
1-6-0	5-9-8	5-2-8	5-11-4	5-11-4	5-11-4	5-10-4

Scale = 1:60.9



	5-9-8	11-0-0	19-10-14	28-9-12	28-11-8	34-8-0
	5-9-8	5-2-8	8-10-14	8-10-14	0-1-12	5-8-8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.40	Vert(LL)	-0.14 13-15	>999	240	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.79	Vert(CT)	-0.30 13-15	>999	180		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.45	Horz(CT)	0.07 11	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code FBC2020/TPI2014						Weight: 185 lb	FT = 20%

LUMBER-

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

REACTIONS.

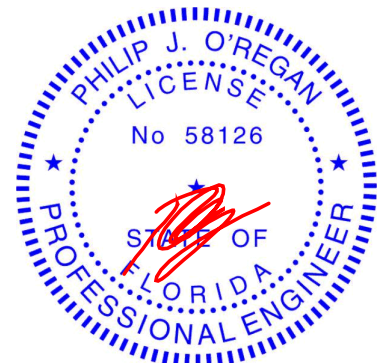
(size) 2=0-8-0, 11=0-3-8
Max Horz 2=177(LC 12)
Max Uplift 2=-296(LC 12), 11=-402(LC 8)
Max Grav 2=1107(LC 1), 11=1528(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2146/552, 3-4=-1661/447, 4-5=-1489/440, 5-7=-1238/333
BOT CHORD 2-16=-616/1936, 15-16=-616/1936, 13-15=-441/1468, 11-13=-261/891
WEBS 3-15=-504/195, 4-15=-40/389, 5-13=-427/201, 7-13=-133/645, 7-11=-1378/375,
8-11=-516/221, 8-10=-79/263

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 11-0-0, Exterior(2R) 11-0-0 to 15-10-13, Interior(1) 15-10-13 to 34-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=296, 11=402.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 18, 2021

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



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055106
2902489	T54	Half Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:46 2021 Page 1

ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-lk4OJLqCGSKNYLWZ0xUi3biKfifxQ4ko6dTKwlymy4R



Scale = 1:60.9

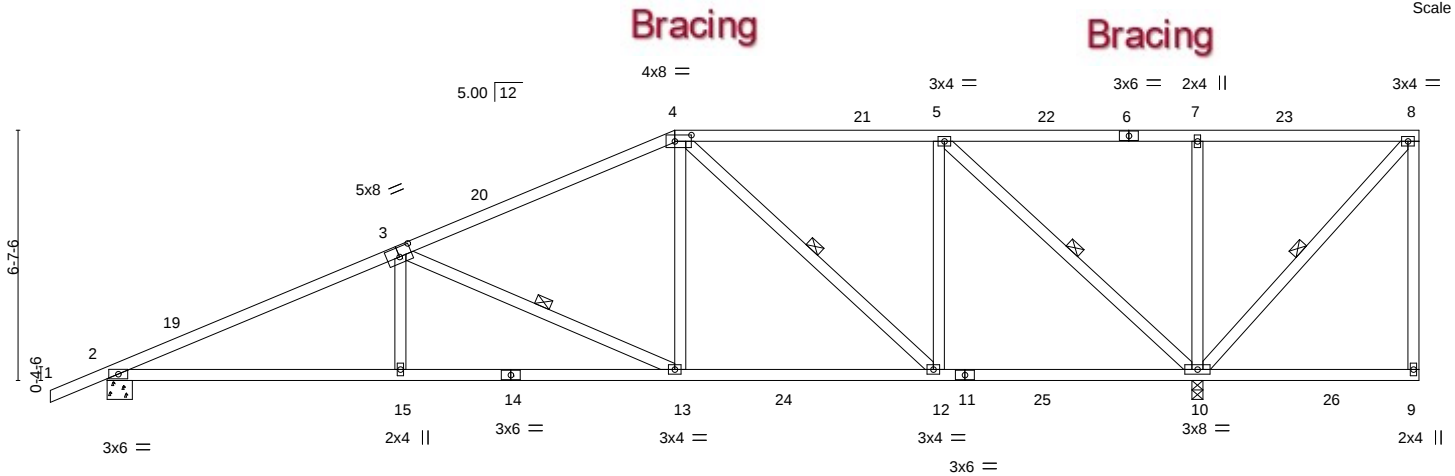


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [4:0-5-4,0-2-0]

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.58	Vert(LL) -0.15	15-18	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.81	Vert(CT) -0.27	15-18	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.64	Horz(CT) 0.07	10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 198 lb	FT = 20%

LUMBER-

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

REACTIONS.

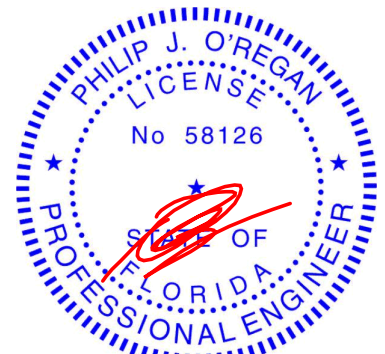
(size) 2=0-8-0, 10=0-3-8
Max Horz 2=234(LC 12)
Max Uplift 2=-290(LC 12), 10=-392(LC 8)
Max Grav 2=1181(LC 2), 10=1726(LC 2)

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

TOP CHORD 2-3=-2225/515, 3-4=-1435/356, 4-5=-868/250
BOT CHORD 2-15=-626/2020, 13-15=-625/2027, 12-13=-367/1274, 10-12=-250/868
WEBS 3-15=0/317, 3-13=-837/283, 4-13=-69/613, 4-12=-547/158, 5-12=-65/645,
5-10=-1423/354, 7-10=-364/175, 8-10=-276/63

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 15-0-0, Exterior(2R) 15-0-0 to 19-10-13, Interior(1) 19-10-13 to 34-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=290, 10=392.



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6904 Parke East Blvd. Tampa FL 33610
Date:

August 18, 2021

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



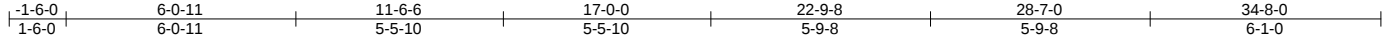
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055107
2902489	T55	Half Hip	1	1	Job Reference (optional)	

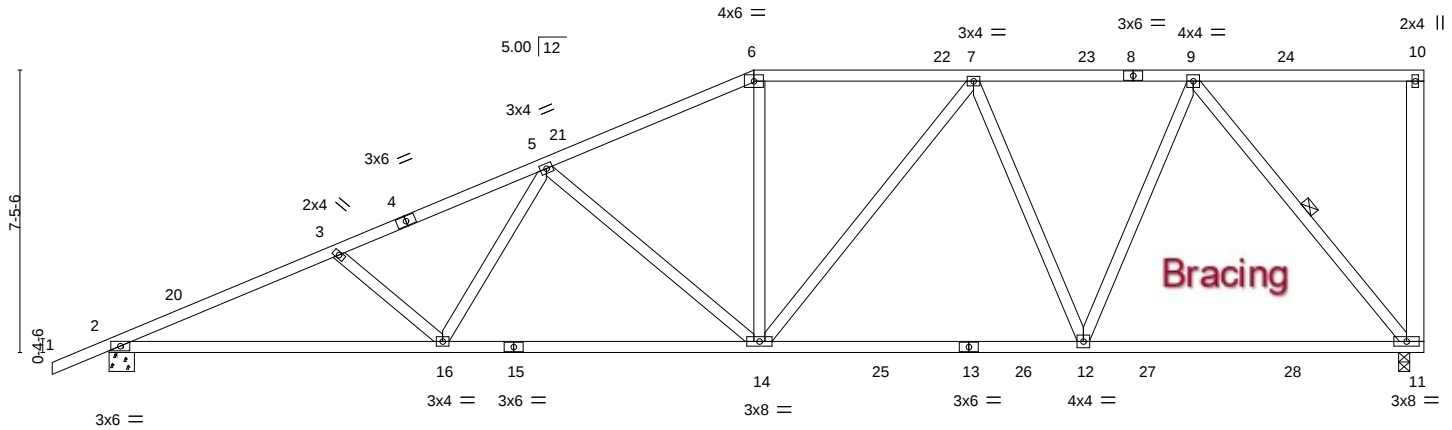
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:47 2021 Page 1

ID:PCDxLFEFGc78hVLoJl8fL1zZ5Cf-DwemWhqq1mSEAU5lae?xcoFXj32A9XlyKHdtSkymy4Q



Scale = 1:60.7



8-9-8 8-9-8		17-0-0 8-2-8		25-8-4 8-8-4		34-3-8 8-7-4		34-8-0 0-4-8	
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 0.48	Vert(LL)	-0.23 11-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 1.00	Vert(CT)	-0.39 11-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.69	Horz(CT)	0.10 11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 206 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
10-11: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-11-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 1-4-12 oc bracing.
WEBS 1 Row at midpt 9-11

REACTIONS.

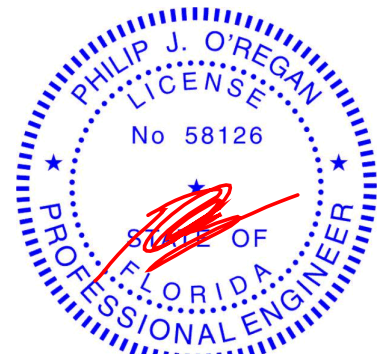
(size) 11=0-3-8, 2=0-8-0
Max Horz 2=263(LC 12)
Max Uplift 11=-322(LC 8), 2=-335(LC 12)
Max Grav 11=1444(LC 2), 2=1457(LC 2)

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

TOP CHORD 2-3=-2946/655, 3-5=-2744/596, 5-6=-1924/440, 6-7=-1739/435, 7-9=-1352/276
BOT CHORD 2-16=-795/2695, 14-16=-623/2216, 12-14=-371/1554, 11-12=-229/987
WEBS 3-16=-318/178, 5-16=-78/555, 5-14=-645/250, 6-14=-33/495, 7-14=-104/298,
7-12=-577/251, 9-12=-190/975, 9-11=-1515/358

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 17-0-0, Exterior(2R) 17-0-0 to 21-10-13, Interior(1) 21-10-13 to 34-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=322, 2=335.



Philip J. O'Regan PE No.58126
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

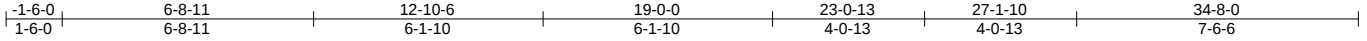


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Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - SHUMAN RES.	T25055108
2902489	T56	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:48 2021 Page 1
ID:PCDxLFEFGc?8hVLoJl8fL1zZ5Cf-h6B9k0rSo3a5oegx8MWA80ngtTOquvB5ZxyR?Aymy4P



Scale = 1:61.6

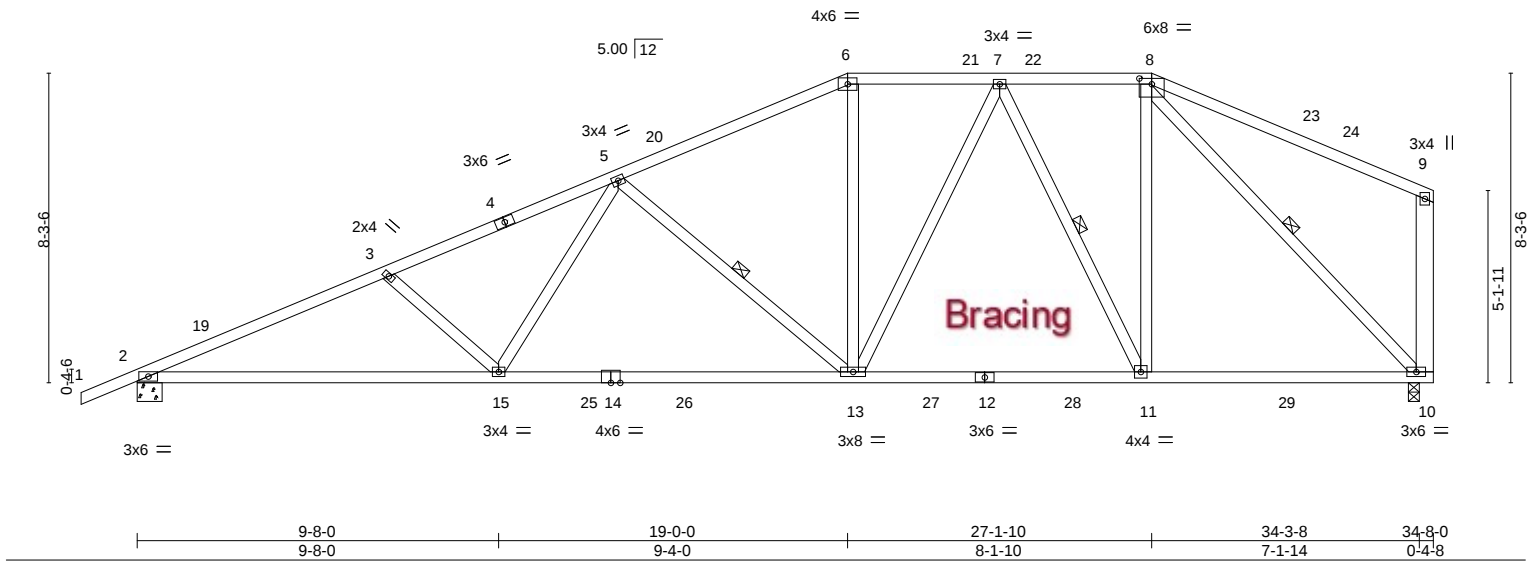


Plate Offsets (X,Y)-- [8:0-4-0,0-1-13]		9-8-0 9-8-0		19-0-0 9-4-0		27-1-10 8-1-10		34-3-8 7-1-14		34-8-0 0-4-8	
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	-0.28 13-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.48 13-15	>855	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.09 10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS						Weight: 211 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-14: 2x4 SP M 31
WEBS 2x4 SP No.3 *Except*
9-10: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-13, 7-11, 8-10

REACTIONS.

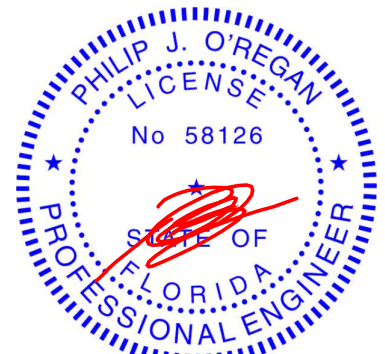
(size) 2=0-8-0, 10=0-3-8
Max Horz 2=232(LC 12)
Max Uplift 2=-329(LC 12), 10=-228(LC 13)
Max Grav 2=1479(LC 2), 10=1458(LC 2)

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

TOP CHORD 2-3=-2968/629, 3-5=-2750/565, 5-6=-1760/385, 6-7=-1578/386, 7-8=-1111/276
BOT CHORD 2-15=-735/2711, 13-15=-540/2143, 11-13=-268/1384, 10-11=-184/1095
WEBS 3-15=-356/200, 5-15=-92/682, 5-13=-757/283, 6-13=-38/441, 7-13=-131/463,
7-11=-664/204, 8-11=-135/948, 8-10=-1553/252

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 19-0-0, Exterior(2R) 19-0-0 to 23-10-13, Interior(1) 23-10-13 to 27-1-10, Exterior(2R) 27-1-10 to 32-0-7, Interior(1) 32-0-7 to 34-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=329, 10=228.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 18,2021

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

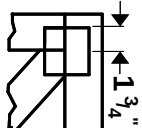
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



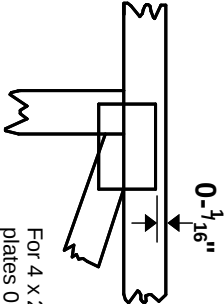
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Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{3}{16}$ " from outside edge of truss.

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

*** Plate location details available in MiTek 2012 software or upon request.**

PLATE SIZE

4 X 4

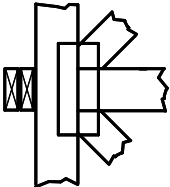
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



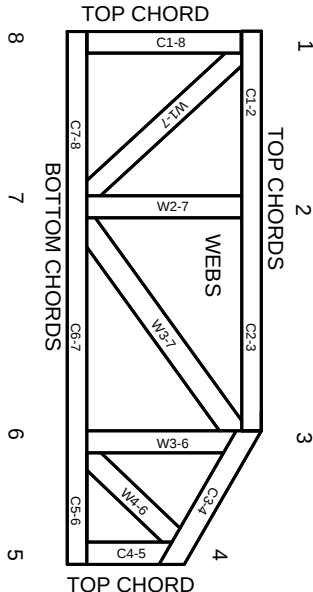
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: 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 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/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 purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.