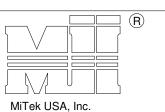
ENGINEERED BY

# T-BRACE / I-BRACE DETAIL WITH 2X BRACE ONLY

MII-T-BRACE 2

MiTek USA, Inc. Page 1 of 1



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

is detail NOT to be used to convert T-Brace / I-Brace
she to continuous lateral braced webs

7. III. OK 74. III.						
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)

	Nails	
· ·		SPACING
WEB		T-BRACE
Nails	Section Detail  T-Brace  Web	

Nails	
Web	I-Brace
Nails	

	Brace Size for One-Ply Truss		
	Specified 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 Truss			
	Specified 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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#### SCAB-BRACE DETAIL

#### MII-SCAB-BRACE

MiTek USA, Inc.

Page 1 of 1



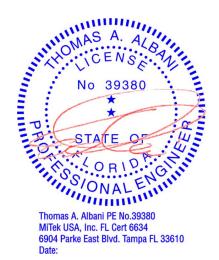
Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.

Scab must cover full length of web +/- 6".

\*\*\* THIS DETAIL IS NOT APLICABLE WHEN BRACING IS \*\*\*
REQUIRED AT 1/3 POINTS OR I-BRACE IS SPECIFIED.

SCAB TO ONE FACE OF WEB WITH APPLY 2x 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. MAXIMUM WEB AXIAL FORCE = 2500 lbs MAXIMUM WEB LENGTH = 12'-0" 2x4 MINIMUM WEB SIZE SCAB BRACE MINIMUM WEB GRADE OF #3 Nails Section Detail Scab-Brace Web

Scab-Brace must be same species grade (or better) as web member.



#### STANDARD REPAIR TO REMOVE END VERTICAL (RIBBON NOTCH VERTICAL)

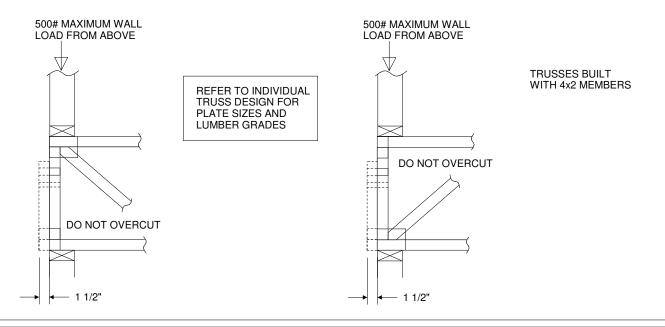
MII-REP05

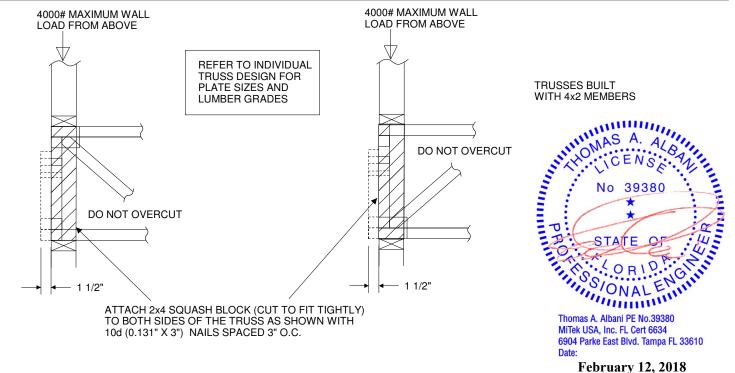
Page 1 of 1 MiTek USA, Inc.



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 ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE
APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.
 THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE
SUCH AS TO AVOID SPLITTING OF THE WOOD.
 LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.
 THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 4X\_ ORIENTATION ONLY.
 CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.





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#### Standard Gable End Detail

#### MII-GE130-D-SP

MiTek USA, Inc.

Page 1 of 2

(2) - 10d NAILS

∕Trusses @ 24" o.c.

2x6 DIAGONAL BRACE SPACED 48" O.C.

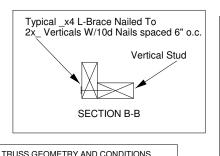
ATTACHED TO VERTICAL WITH (4) -16d

HORIZONTAL BRACE

(SEE SECTION A-A)

TO BLOCKING WITH (5) - 10d NAILS.

NAILS AND ATTACHED



Vertical Stud DIAGONAL BRACE (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x Verticals w/(4)-10d Nails **SECTION A-A** 2x4 Stud

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

Roof Sheathing

1'-3"

Max.

24" Max

Diag. Brace

at 1/3 points

End Wall

if needed

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

(2) - 1Ó¢/

NÁILS

DIAGONAL BRACE 4'-0" O.C. MAX SHOWN ARE FOR ILLUSTRATION ONLY. 12 Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA 3x4 =Ŕ B - Diagonal Bracing - L-Bracing Refer Refer to Section A-A

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)
- GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
- THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
  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.
- NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
and Grade		Maximum Stud Length				
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 7-10 160 MPH

**DURATION OF LOAD INCREASE: 1.60** 

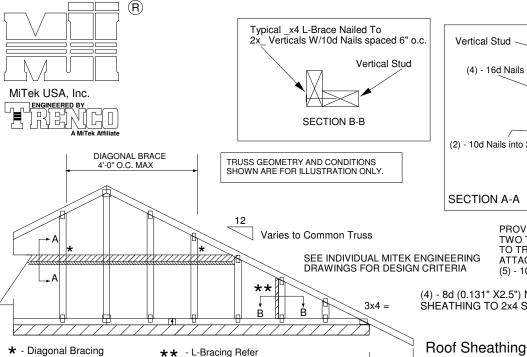
STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



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#### Standard Gable End Detail

#### MII-GE130-SP



to Section B-B

MiTek USA. Inc. Page 1 of 2

(2) - 10d NAILS

∕Trusses @ 24" o.c.

2x6 DIÀGONAL BRACE SPACED 48" O.C.

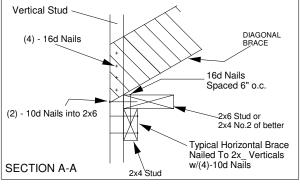
ATTACHED TO VERTICAL WITH (4) -16d

HORIZONTAL BRACE

(SEE SECTION A-A)

TO BLOCKING WITH (5) - 10d NAILS.

NAILS AND ATTACHED



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" X2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

- 10d

NÁILS

1'-3"

Max.

24" Max

Diag. Brace

at 1/3 points

End Wall

if needed

#### NOTE

Refer to Section A-A

- 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
- ARCHITECT OR ENGINEER FOR TEMPORART AND FERMANENT 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.

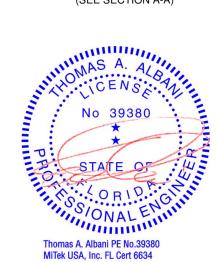
  5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF
- DIAPHRAM AT 4'-0" O.C.
- 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
- GABLE STUD DEFLECTIÓN MEETS OR EXCEEDS L/240.
- THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES
- DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES
- SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
- NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
and Grade		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 7-10 160 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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#### JANUARY 6, 2017

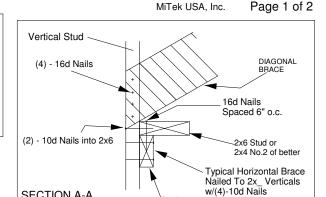
#### Standard Gable End Detail

12

L-Bracing Refer

to Section B-B

#### MII-GE140-001



2x4 Stud

 $\overline{\mathsf{R}}$ 

DIAGONAL BRACE

4'-0" O.C. MAX

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5

- Diagonal Bracing

Refer to Section A-A

TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

SECTION B-B

Typical \_x4 L-Brace Nailed To 2x Verticals W/10d Nails spaced 6" o.c.

Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

3x4 =

Vertical Stud

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

SECTION A-A

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.

THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES

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")

Roof Sheathi	ing
24" Max 1'-3" Max.	(2) - 10d NAILS
	Trusses @ 24" o.c.
Diag. Brace at 1/3 points if needed	2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d NAILS AND ATTACHED TO BLOCKING WITH (5) - 10d NAILS.
End Wall	HORIZONTAL BRACE (SEE SECTION A-A)

Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
and Grade						
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 MWFRS.



6904 Parke East Blvd. Tampa FL 33610

January 19, 2018

#### Standard Gable End Detail

MII-GE170-D-SP



Vertical Stud

(4) - 16d Nails

(2) - 10d Nails into 2x6

Page 1 of 2

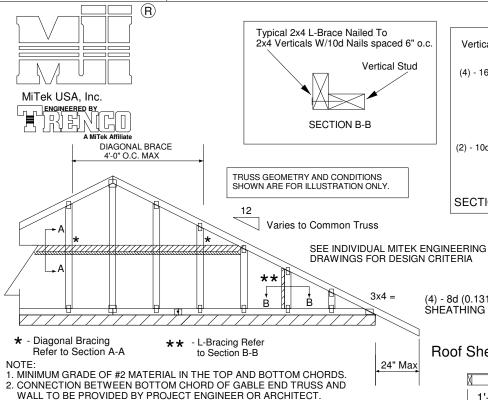
2X6 SP OR SPF No. 2 DIAGONAL BRACE

2X6 SP OR SPF No. 2

Typical Horizontal Brace

Nailed To 2x4 Verticals

16d Nails Spaced 6" o.c.



- 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
- "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)
  GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
  THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.

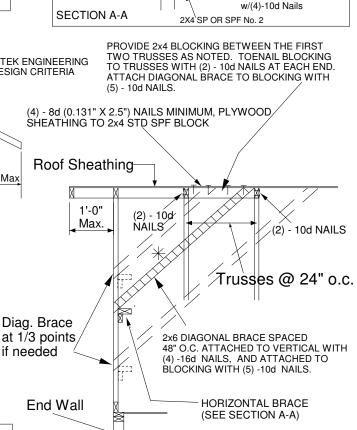
- DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES
- SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
- NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS	
and Grade		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 D

ASCE 7-10 170 MPH **DURATION OF LOAD INCREASE: 1.60**  STUD DESIGN IS BASED ON COMPONENTS AND CLADDING CONNECTION OF BRACING IS BASED ON MWFRS.



No 39380

STATE OF ST Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

#### Standard Gable End Detail

#### MII-GE180-D-SP

MiTek USA, Inc.

Page 1 of 2

2X6 SP OR SPF No. 2 DIAGONAL BRACE

2X6 SP OR SPF No. 2

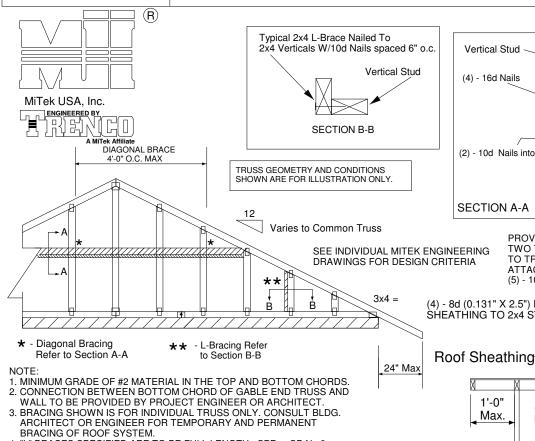
(2) - 10d NAILS

∕Trusses @ 24" o.c.

16d Nails

Spaced 6" o.c.

Typical Horizontal Brace Nailed To 2x4 Verticals w/(4)-10d Nails



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.

2X4\SP OR SPF No. 2

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

- 1Ód∕

NÁILS

Vertical Stud

(4) - 16d Nails

(2) - 10d Nails into 2x6

SECTION A-A

1'-0"

Max.

Diag. Brace

at 1/3 points

End Wall

if needed

- "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.
  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)
- GABLE STUD DEFLECTIÓN MEETS OR EXCEEDS L/240.
- THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES
- DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES
- SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
  NAILS DESIGNATED 10d ARE (0.131" X 3") AND
- NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Stud Size Spacing		Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS	
and Grade			Maximum St	Maximum Stud Length		
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 7-10 180 MPH

**DURATION OF LOAD INCREASE: 1.60** 

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



2x6 DIAGONAL BRACE SPACED

BLOCKING WITH (5) -10d NAILS.

48" O.C. ATTACHED TO VERTICAL WITH

(4) -16d NAILS, AND ATTACHED TO

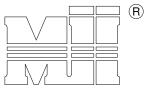
MiTek USA, Inc. Page 1 of 1

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E

MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C.

DURATION OF LOAD INCREASE: 1.60

CATEGORY II BUILDING EXPOSURE B or C



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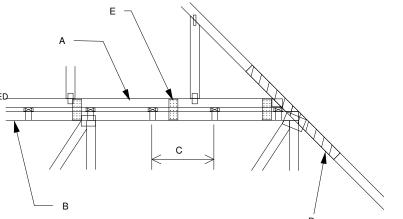


DETAIL IS NOT APPLICABLE FOR TRUSSES ENGINEERED BY TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

- A PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN
- WITH (2) (0.131\* X 3.5") TOE-NAILED.

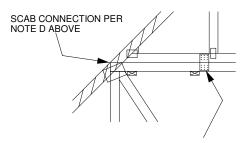
  B BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.

  C PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
- 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 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.
- FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH MITEK 3X8 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" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)

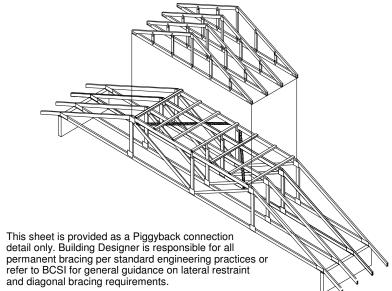


#### WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

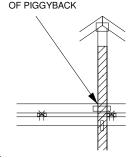
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 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" EDGE DISTANCE.



#### VERTICAL WEB TO EXTEND THROUGH **BOTTOM CHORD**



#### FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

- VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL
- 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)
- 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.
- FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS. CONCENTRATED LOAD MUST BE APPLIED TO BOTH
- THE PIGGYBACK AND THE BASE TRUSS DESIGN.

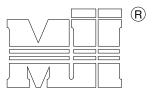


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#### STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

#### MII-PIGGY-ALT 7-10

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ENGINEERED BY RE 

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 ASCE 7-10 **DURATION OF LOAD INCREASE: 1.60** 

DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

- A PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) 0(0.131" X 3.5") TOE-NAILED. B BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.

- BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.

   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.

   2 X \_\_ X 4'-0" SCAB, SIZE TO MATCH TOP CHORD OF

  PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON

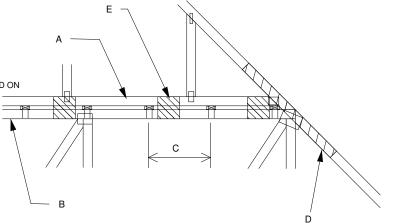
  INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C.

  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

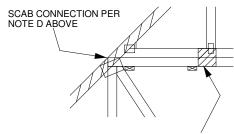
  2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.

- E FOR WIND SPEED IN THE RANGE 126 MPH 160 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)

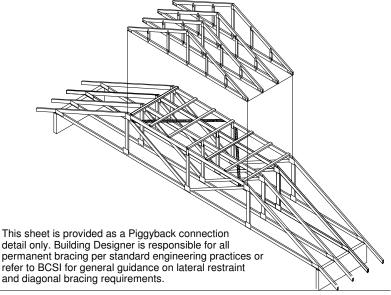


#### WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

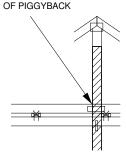
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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 (TÒTAL - 12 NAILS)



#### VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD



#### 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.
- AS SHOWN IN DETAIL. ATTACH 2  $\times$  \_  $\times$  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)
- 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
- FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
- CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN.



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January 19, 2018

#### STANDARD REPAIR DETAIL FOR BROKEN CHORDS, WEBS AND DAMAGED OR MISSING CHORD SPLICE PLATES

#### MII-REP01A1

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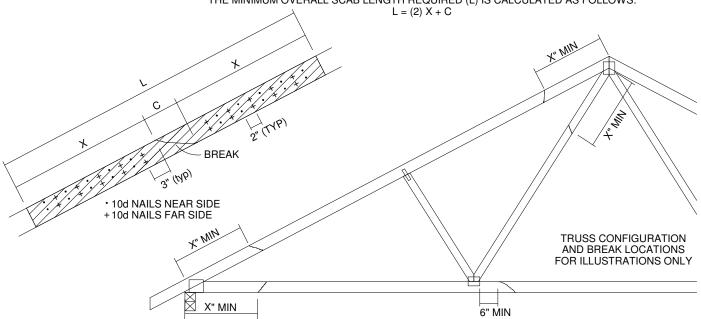


TOTAL NUMBER OF NAILS EACH SIDE		MAXIMUM FORCE (lbs) 15% LOAD DURATION									
OF BF		X INCHES	S	iP	С	)F	S	PF	F	IF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6	
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028	
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608	
32	48	36"	2681	4022	2454	3681	2074	3111	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:



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:

- 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. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.
- THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
- WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.
  THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x\_ORIENTATION ONLY.
- THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.



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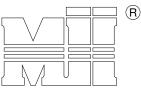
January 19, 2018

#### LATERAL TOE-NAIL DETAIL

MII-TOENAIL SP

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Page 1 of 1



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#### NOTES:

- 1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.
- 2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
- 3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE TWO SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

#### THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

ILLUSTRATION PURPOSES ONLY

NEAR SIDE

TOE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail) DIAM. SP DE HE SPF SPF-S .131 69.9 88.0 80.6 68.4 59.7 63.4 .135 93.5 85.6 74.2 72.6 108.8 99.6 86.4 84.5 73.8 .162 57.6 50.3 .128 74.2 67.9 58.9 51.1 .131 75.9 69.5 60.3 59.0 .148 81.4 74.5 64.6 63.2 52.5

LONG 3.5" LONG 3.25" [

SIDE VIEW (2x3)2 NÁILS **NEAR SIDE** 

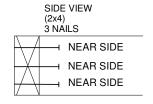
VIEWS SHOWN ARE FOR

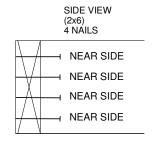
VALUES SHOWN ARE CAPACITY PER TOE-NAIL APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

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

For load duration increase of 1.15:

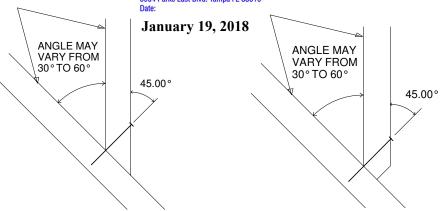
3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

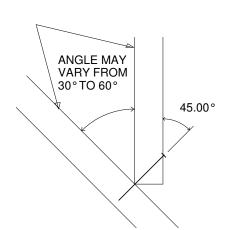






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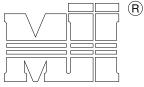


#### TRUSSED VALLEY SET DETAIL

#### MII-VALLEY HIGH WIND1

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ENGINEERED BY A MiTek Affiliate

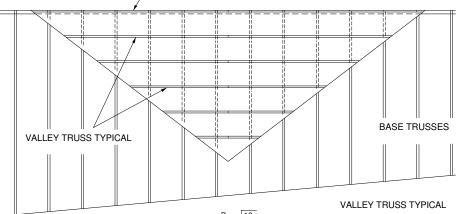
GABLE END, COMMON TRUSS OR GIRDER TRUSS

#### 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 EQUILIVANT 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.

ON THE TRUSSES



GABLE END. COMMON TRUSS OR GIRDER TRUSS Ρ 12 SEE DETAIL A BELOW (TYP.)

SECURE VALLEY TRUSS W/ ONE ROW OF 10d NAILS 6" O.C. ATTACH 2x4 CONTINUOUS NO.2 SP TO THE ROOF W/TWO USP WS3 (1/4" X 3") WOOD SCREWS INTO EACH BASE TRUSS. **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 7-10 160 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

No 39380

STATE OF SONAL ENGINEERS OF NO. 39380

Thomas A. Albani PE No. 39380

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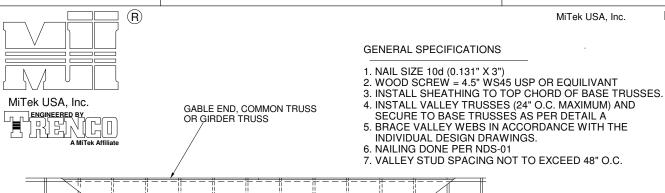
January 19, 2018

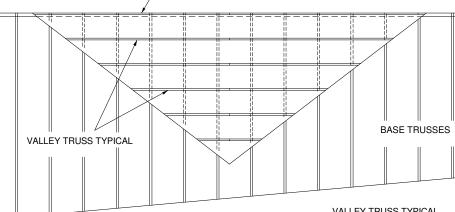
#### TRUSSED VALLEY SET DETAIL

#### MII-VALLEY HIGH WIND2

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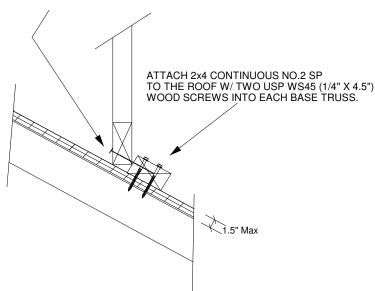
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GABLE END, COMMON TRUSS **VALLEY TRUSS TYPICAL** OR GIRDER TRUSS 12 SEE DETAIL A BELOW (TYP.)

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



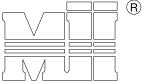
WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05  $\,$  146 MPH WIND DESIGN PER ASCE 7-10  $\,$  160 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12 CATEGORY II BUILDING EXPOSURE C WIND DURATION OF LOAD INCREASE: 1.60 MAX TOP CHORD TOTAL LOAD = 50 PSF MAX SPACING = 24" O.C. (BASE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



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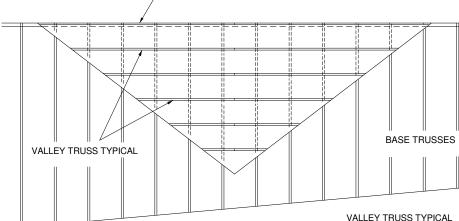


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GABLE END, COMMON TRUSS OR GIRDER TRUSS

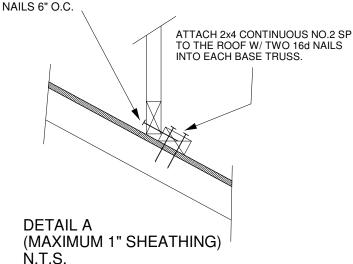
#### **GENERAL SPECIFICATIONS**

- 1. NAIL SIZE 16d (0.131" X 3.5") 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 EQUILIVANT 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.



GABLE END. COMMON TRUSS **VALLEY TRUSS TYPICAL** OR GIRDER TRUSS 12 SEE DETAIL A BELOW (TYP.)

SECURE VALLEY TRUSS W/ ONE ROW OF 16d



WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH WIND DESIGN PER ASCE 7-10 150 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

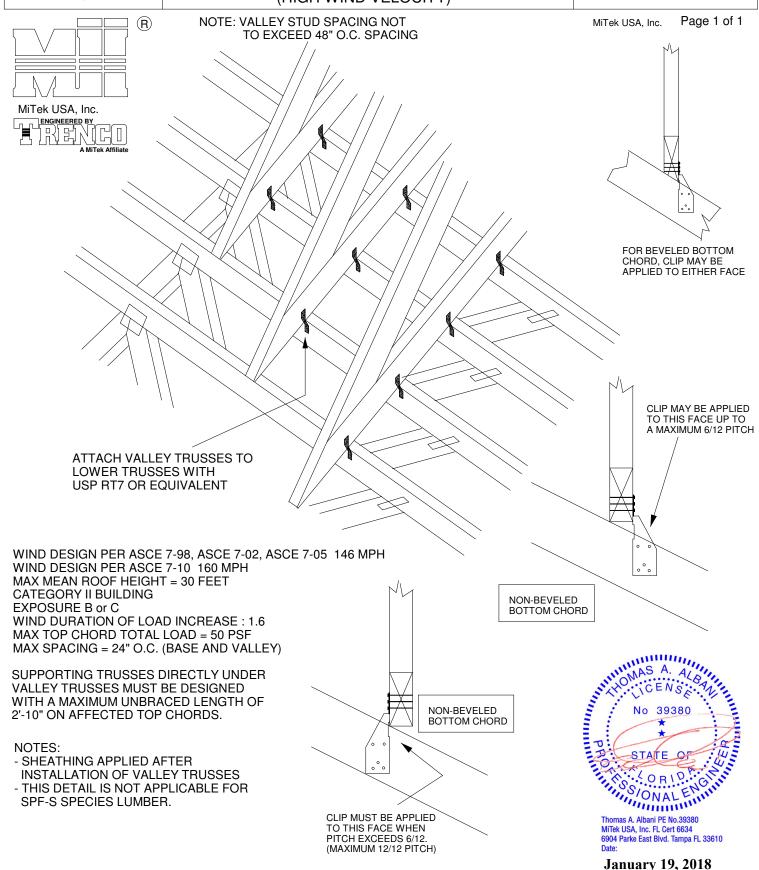
ON THE TRUSSES



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# TRUSSED VALLEY SET DETAIL (HIGH WIND VELOCITY)

#### **MII-VALLEY**



MiTek USA, Inc. ENGINEERED B

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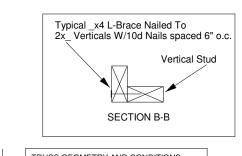
#### Standard Gable End Detail

#### MII-GE146-001

MiTek USA. Inc.

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST

Page 1 of 2



Vertical Stud DIAGONAL BRACE (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x\_ Verticals w/(4)-10d Nails SECTION A-A 2x4 Stud

DIAGONAL BRACE TRUSS GEOMETRY AND CONDITIONS 4'-0" O.C. MAX SHOWN ARE FOR ILLUSTRATION ONLY. Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA 3x4 = Diagonal Bracing L-Bracing Refer \*\* Refer to Section A-A 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:
  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)

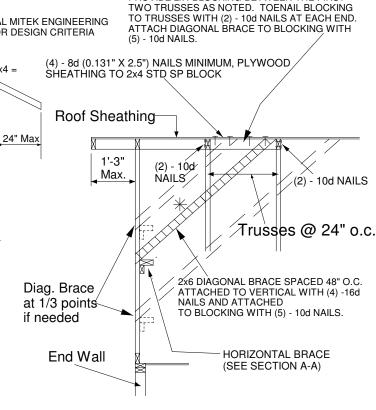
- 7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES
- 9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
- 10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
and Grade		Maxin	num Stud L	ength	
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.

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 MWFRS.





January 19, 2018

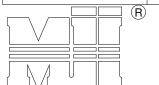
#### **OCTOBER 5, 2016**

#### REPLACE BROKEN OVERHANG

#### MII-REP13B

MiTek USA, Inc.

Page 1 of 1



ENGINEERED BY MiTek USA, Inc. REN 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

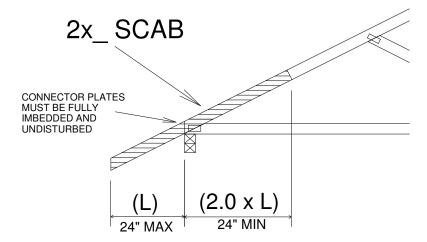
**END BEARING CONDITION** 

#### 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



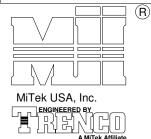
MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

#### LATERAL BRACING RECOMMENDATIONS

MII-STRGBCK

MiTek USA, Inc.

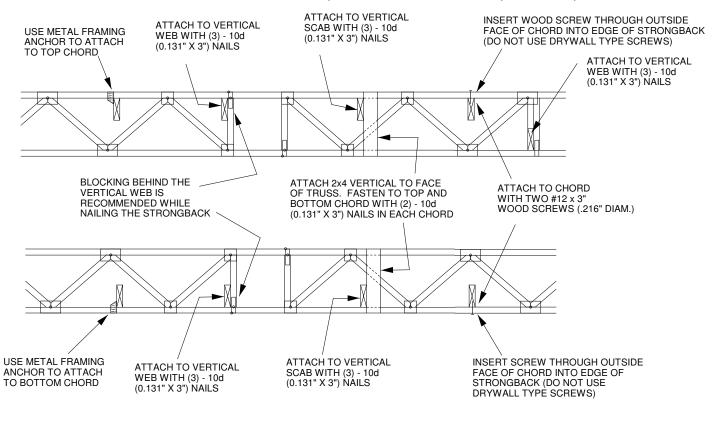
Page 1 of 1

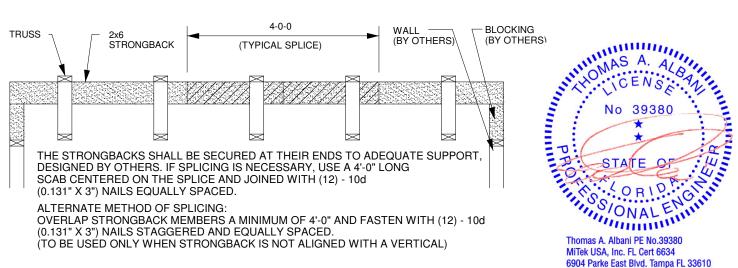


TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

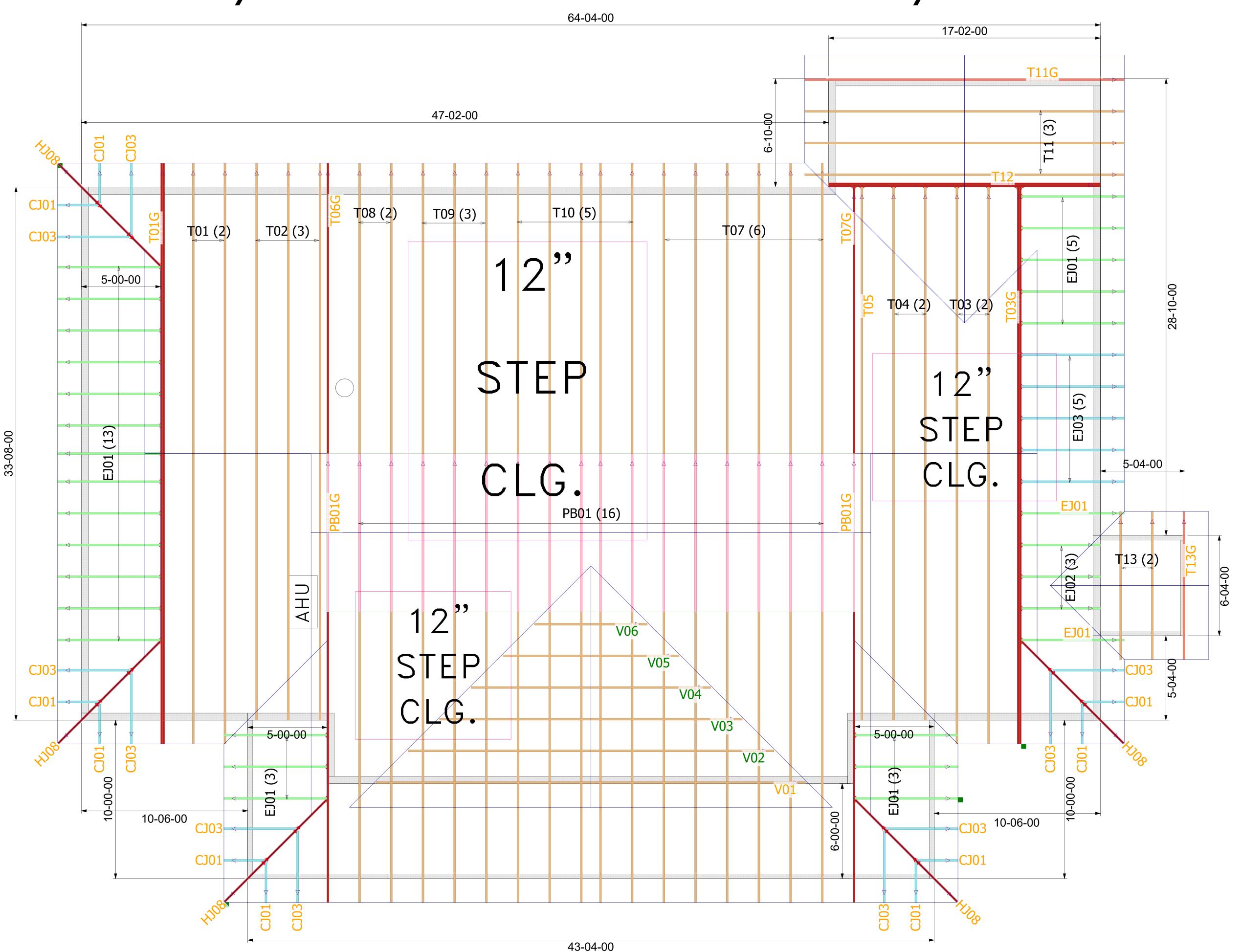
NOTE 1: 2X6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.

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.

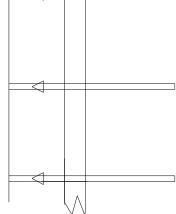




# 7/12 PITCH — 18" 0/H



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 Cruss 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

- Trusses are not designed to support brick U.N.O.
- Dimensions are Feet-Inches- Sixteenths

Notes:

type of items.

any additional loads from above.

sealed by the truss design engineer.

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

ACQ lumber is corrisive 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

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

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

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

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:

AMIRA BLDRS.

Legal Address:

DeLoach Res.

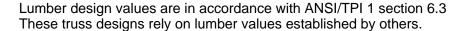
Model:

 $\frac{\mathrm{Custom}}{\mathrm{Date}:} \ 5\text{-}29\text{-}21$ 

 $\begin{array}{c} \text{Drawn By:} & \text{Original Ref \#:} \\ \text{KLH} & 2809544 \\ \text{Floor 2 Job\#:} & \text{Roof Job \#:} \end{array}$ 

N/A Roof Job #: 2809544

MITEK PLATE APPROVAL #'S 2197.2-2197.4, BOISE EWP PRODUCT #'S LVL FL1644-R2, BCI JOISTS FL1392-R2





RE: 2809544 - AMIRA BLDRS. - DELOACH RES.

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

**Site Information:** 

Customer Info: Amira Bldrs. Project Name: DeLoach Res. Model: Custom

Lot/Block: N/A Subdivision: N/A

Address: 1501 SW CR 778, 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:

15 16 17

18 19

20

21 22 T24168232

T24168233

T24168236

T24168237

T24168238

T24168239

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 32 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. 1 2 3 4 5 6 7 8 9	Seal# T24168218 T24168219 T24168220 T24168221 T24168222 T24168223 T24168224 T24168225 T24168226 T24168226	Truss Name CJ01 CJ03 EJ01 EJ02 EJ03 HJ08 PB01 PB01G T01	Date 6/2/21 6/2/21 6/2/21 6/2/21 6/2/21 6/2/21 6/2/21 6/2/21 6/2/21 6/2/21 6/2/21	No. 23 24 25 26 27 28 29 30 31	Seal# T24168240 T24168241 T24168242 T24168244 T24168245 T24168246 T24168247 T24168248 T24168248	Truss Name T11G T12 T13 T13G V01 V02 V03 V04 V05 V06	Date 6/2/21 6/2/21 6/2/21 6/2/21 6/2/21 6/2/21 6/2/21 6/2/21 6/2/21 6/2/21
			6/2/21 6/2/21				
12 13 14	T24168229 T24168230 T24168231	T03 T03G T04	6/2/21 6/2/21 6/2/21 6/2/21				



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-Jacksonville.

Truss Design Engineer's Name: Velez, Joaquin

T06G

T07G T08

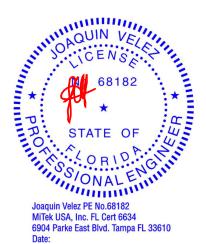
T07

T09

T10

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.

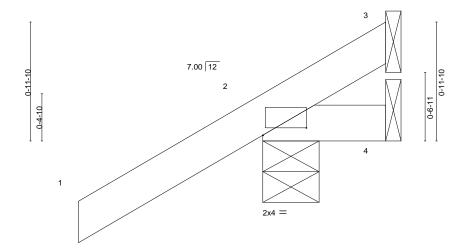


AMIRA BLDRS. - DELOACH RES. Job Truss Truss Type Qty Ply T24168218 2809544 CJ01 Jack-Open 10 Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:44:34 2021 Page 1

ID:amOAUKkav?6JdbyPKE2WNezBhuh-Lm?nw89Gwf6XHRbit?1DdoPYRoldsFHnb21FvWzBfuR

-1-6-0 1-0-0 1-6-0 1-0-0

Scale = 1:9.4



1-0-0 1-0-0

Plate Off	sets (X,Y)	[2:0-4-4,0-0-11]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	7	>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/TF	PI2014	Matri	x-MP						Weight: 6 lb	FT = 20%

LUMBER-

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

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

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical

Max Horz 2=46(LC 12)

Max Uplift 3=-6(LC 1), 2=-68(LC 12), 4=-22(LC 19) Max Grav 3=7(LC 16), 2=179(LC 1), 4=20(LC 16)

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 6 lb uplift at joint 3, 68 lb uplift at joint 2 and 22 lb uplift at joint 4.



Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

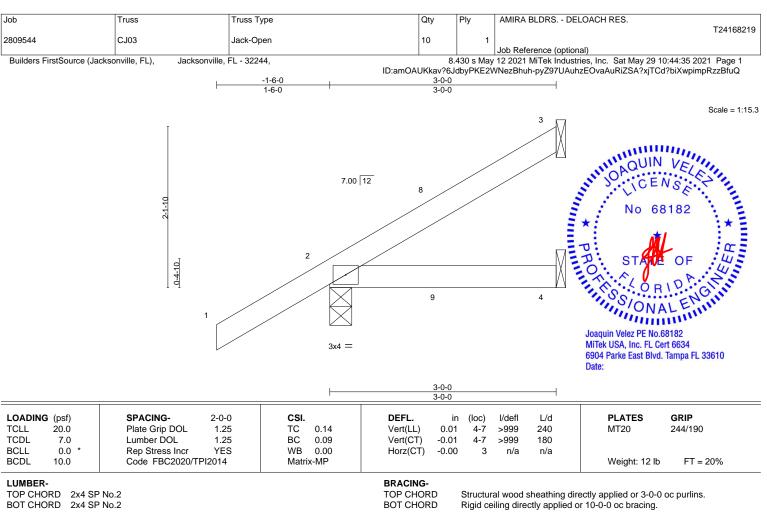
June 2,2021

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

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





REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=85(LC 12)

Max Uplift 3=-39(LC 12), 2=-54(LC 12), 4=-16(LC 9) Max Grav 3=61(LC 19), 2=210(LC 1), 4=50(LC 3)

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; 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 39 lb uplift at joint 3, 54 lb uplift at joint 2 and 16 lb uplift at joint 4.

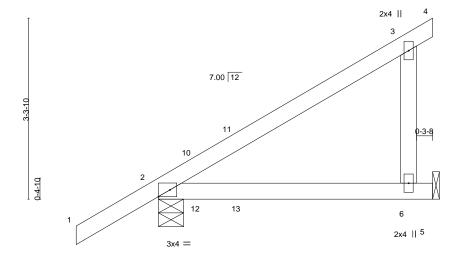
	Job	Truss	Truss Type	Qty	Ply	AMIRA BLDRS DELOACH RES.	
		=			.	T24168220	ו
	2809544	EJ01	Jack-Closed	26	1	11.5 ( )	
- 1				1		Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:44:36 2021 Page 1 ID:amOAUKkav?6JdbyPKE2WNezBhuh-H97XKqBWSHMFXkl5\_Q4hiDUtXcvZK9n42MWMzPzBfuP

-1-6-0 1-6-0

Scale = 1:21.0



5-0-0 5-0-0

Plate Off	ate Offsets (X,Y) [2:Edge,0-1-8]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	0.08	6-9	>759	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	0.32	Vert(CT)	0.07	6-9	>902	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/T	PI2014	Matr	x-MP						Weight: 23 lb	FT = 20%

LUMBER-TOP CHORD

2x4 SP No 2 2x4 SP No 2

BOT CHORD 2x4 SP No.3 WFBS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins,

except end verticals.

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

REACTIONS. (size) 2=0-5-8, 5=Mechanical

Max Horz 2=125(LC 12)

Max Uplift 2=-57(LC 12), 5=-76(LC 9) Max Grav 2=276(LC 1), 5=174(LC 1)

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 5-0-0 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 57 lb uplift at joint 2 and 76 lb uplift at joint 5.



6904 Parke East Blvd. Tampa FL 33610 Date:

June 2,2021



Job Truss Truss Type Qty Ply AMIRA BLDRS. - DELOACH RES. T24168221 2809544 3 EJ02 Jack-Closed Job Reference (optional)

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

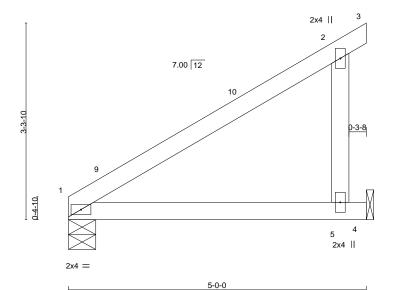
8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:44:36 2021 Page 1 ID:amOAUKkav?6JdbyPKE2WNezBhuh-H97XKqBWSHMFXkl5\_Q4hiDUs2cw7K9n42MWMzPzBfuP

Structural wood sheathing directly applied or 5-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals

Scale = 1:19.3



LOADING (psf) SPACING-2-0-0 CSI. **DEFL** in (loc) I/defl I/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.28 Vert(LL) 0.04 5-8 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 вс 0.29 Vert(CT) -0.07 5-8 >869 180 WB 0.00 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a Code FBC2020/TPI2014 Weight: 20 lb BCDL 10.0 Matrix-MP FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

5-0-0

LUMBER-

REACTIONS.

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

2x4 SP No.3 WFBS

(size) 1=0-5-8, 4=Mechanical

Max Horz 1=99(LC 12)

Max Uplift 1=-19(LC 12), 4=-79(LC 12) Max Grav 1=183(LC 1), 4=191(LC 19)

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 5-0-0 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 19 lb uplift at joint 1 and 79 lb uplift at joint 4.



6904 Parke East Blvd. Tampa FL 33610 Date:

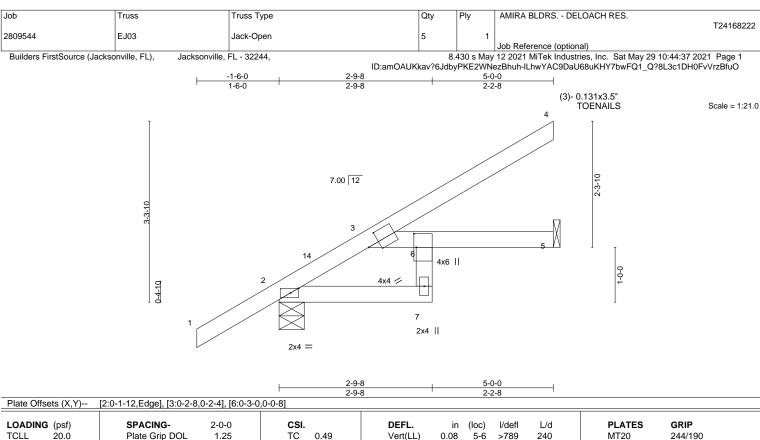
June 2,2021

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

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





BRACING-

TOP CHORD

**BOT CHORD** 

				I							
LOADI	NG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES
TCLL	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	0.08	5-6	>789	240	MT20
TCDL	7.0	Lumber DOL	1.25	ВС	0.80	Vert(CT)	-0.11	5-6	>556	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	5	n/a	n/a	
BCDL	10.0	Code FBC2020/T	PI2014	Matr	ix-MR						Weight: 2

LUMBER-

TOP CHORD 2x4 SP No 2 2x4 SP No.2 \*Except\* BOT CHORD

6-7: 2x4 SP No.3

REACTIONS. (size) 2=0-5-8, 5=Mechanical

Max Horz 2=103(LC 12)

Max Uplift 2=-36(LC 12), 5=-50(LC 12) Max Grav 2=287(LC 1), 5=183(LC 1)

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

TOP CHORD 3-9=-273/39

#### 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 1-7-10, Interior(1) 1-7-10 to 5-0-0 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 36 lb uplift at joint 2 and 50 lb uplift at joint 5.



22 lb

Structural wood sheathing directly applied or 5-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

FT = 20%

Date:

June 2,2021





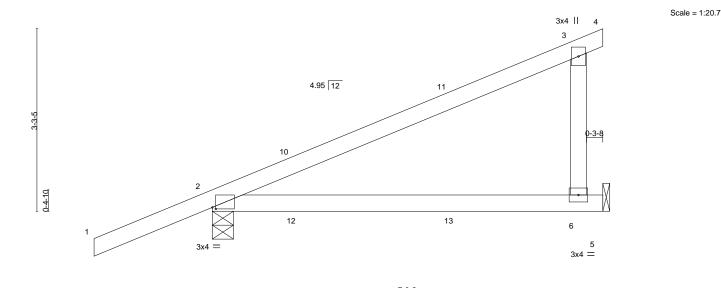


Plate Oil	Seis (A, T)	[2.0-0-12,0-0-5]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	0.09	6-9	>977	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.13	6-9	>653	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TF	PI2014	Matri	x-MS						Weight: 29 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

7-0-2

except end verticals.

LUMBER-TOP CHORD

2x4 SP No 2 2x4 SP No 2

BOT CHORD 2x4 SP No.3 WFBS

REACTIONS. (size) 2=0-4-9, 5=Mechanical

Max Horz 2=124(LC 8)

Max Uplift 2=-200(LC 4), 5=-137(LC 5) Max Grav 2=391(LC 1), 5=246(LC 1)

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; 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 200 lb uplift at joint 2 and 137 lb uplift at joint 5.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 59 lb down and 73 lb up at 1-6-1, 59 lb down and 73 lb up at 1-6-1, and 74 lb down and 42 lb up at 4-4-0, and 74 lb down and 42 lb up at 4-4-0 on top chord, and 42 lb down and 50 lb up at 1-6-1, 42 lb down and 50 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

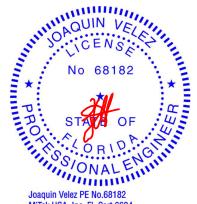
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-54, 3-4=-54, 5-7=-20

Concentrated Loads (lb)

Vert: 13=-5(F=-3, B=-3)



Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

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

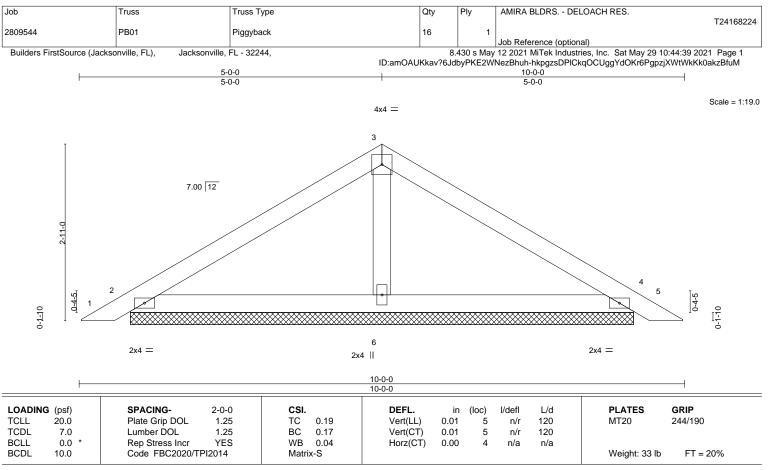
June 2,2021

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





LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 **OTHERS** 

BRACING-

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

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=8-3-11, 4=8-3-11, 6=8-3-11

Max Horz 2=-60(LC 10)

Max Uplift 2=-52(LC 12), 4=-60(LC 13), 6=-44(LC 12) Max Grav 2=176(LC 1), 4=176(LC 1), 6=322(LC 1)

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

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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) 0-3-11 to 3-3-11, Interior(1) 3-3-11 to 5-0-0, Exterior(2R) 5-0-0 to 8-0-0, Interior(1) 8-0-0 to 9-8-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 requires continuous bottom chord bearing.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 2, 60 lb uplift at joint 4 and 44 lb uplift at joint 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



6904 Parke East Blvd. Tampa FL 33610 Date:

June 2,2021



2809544 PB01G 2 **GABLE** Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:44:40 2021 Page 1 ID:amOAUKkav?6JdbyPKE2WNezBhuh-9wM2ACE1WVsh0M2sDF8dt3fbpDL6GzGfzzUa6AzBfuL 8-10-2 Scale = 1:17.6 4x4 = 4 7.00 12 2x4 || <sub>5</sub> 2x4 || 3 6 0-4-5 0-4-5 0-1-10 9 2x4 = 2x4 || 2x4 || 2x4 || 2x4 =8-10-2 8-10-2 LOADING (psf) SPACING-2-0-0 CSI. **DEFL** in (loc) I/defI L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.25 TC 0.04 Vert(LL) -0.00 6 n/r 120 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 вс 0.03 Vert(CT) 0.00 n/r 120 WB 0.03 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 6 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-S Weight: 31 lb FT = 20%

Qty

Ply

AMIRA BLDRS. - DELOACH RES.

T24168225

LUMBER-

Job

Truss

Truss Type

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 **OTHERS** 

BRACING-

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-1-13.

Max Horz 2=53(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8 Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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) 0-3-11 to 3-3-11, Interior(1) 3-3-11 to 4-5-1, Exterior(2R) 4-5-1 to 7-5-1, Interior(1) 7-5-1 to 8-6-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



6904 Parke East Blvd. Tampa FL 33610 Date:

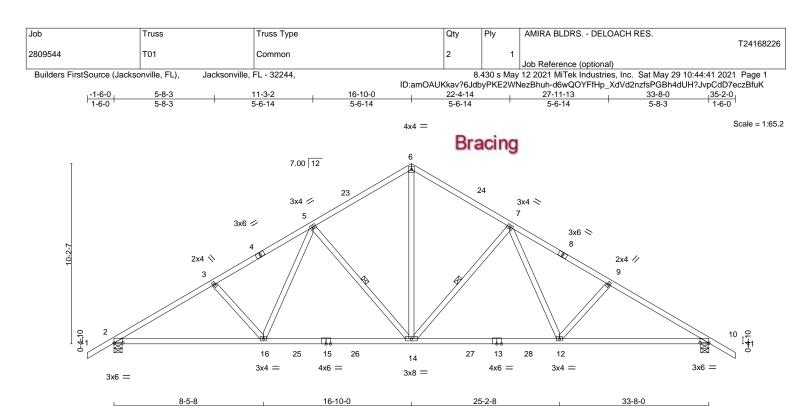
June 2,2021

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





	8-5-8	8-4-8	8-4-8	8-5-8
Plate Offsets (X,Y)	[2:0-6-0,0-0-3], [10:0-6-0,0-0-3]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl	L/d PLATES GRIP
TCLL 20.0 TCDL 7.0	Plate Grip DOL 1.25 Lumber DOL 1.25	TC 0.32 BC 0.86	Vert(LL) -0.21 14-16 >999 Vert(CT) -0.35 14-16 >999	240 MT20 244/190 180
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code FBC2020/TPI2014	WB 0.46 Matrix-MS	Horz(CT) 0.09 10 n/a	n/a Weight: 186 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

WFBS

LUMBER-

REACTIONS.

WFBS

TOP CHORD 2x4 SP No 2 **BOT CHORD** 2x4 SP No 2

2x4 SP No.3

(size) 2=0-5-8, 10=0-5-8 Max Horz 2=-236(LC 10)

Max Uplift 2=-285(LC 12), 10=-285(LC 13) Max Grav 2=1517(LC 19), 10=1517(LC 20)

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

TOP CHORD 2-3=-2361/421, 3-5=-2205/412, 5-6=-1512/346, 6-7=-1512/346, 7-9=-2205/412,

9-10=-2362/421

 $2\text{-}16\text{=-}429/2168,\ 14\text{-}16\text{=-}274/1744,\ 12\text{-}14\text{=-}170/1629,\ 10\text{-}12\text{=-}271/1991}$ BOT CHORD 6-14=-228/1212, 7-14=-659/260, 7-12=-96/600, 9-12=-291/180, 5-14=-659/260,**WEBS** 

5-16=-96/600, 3-16=-291/180

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 1-10-6, Interior(1) 1-10-6 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
- 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) 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=285, 10=285.



Structural wood sheathing directly applied or 3-7-2 oc purlins.

7-14, 5-14

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

8-11-11 oc bracing: 2-16.

1 Row at midpt

6904 Parke East Blvd. Tampa FL 33610 Date:

June 2,2021

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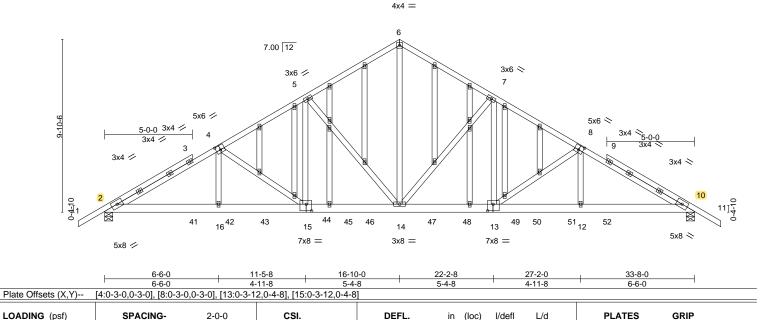
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Plv AMIRA BLDRS. - DELOACH RES. T24168227 2809544 T01G **GABLE** 2 Job Reference (optional)

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:44:45 2021 Page 1 ID:amOAUKkav?6JdbyPKE2WNezBhuh-WtAxDvIAL2Uz67xp0pkoa6MLfExux6qO6FBLnNzBfuG 6-6-0 16-10-0 27-2-0 33-8-0 22-2-8 6-6-0 4-11-8 5-4-8 4-11-8 6-6-0

Scale = 1:65.8



LUMBER-

**TCLL** 

TCDL

**BCLL** 

BCDL

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

20.0

7.0

0.0

10.0

2x4 SP No 3 WERS **OTHERS** 2x4 SP No.3

Matrix-MS

TC

BC

WB

0.48

0.50

0.46

**BRACING-**TOP CHORD **BOT CHORD** 

Vert(LL)

Vert(CT)

Horz(CT)

0.11 14-15

-0.18 14-15

10

0.06

>999

>999

n/a

240

180

n/a

Structural wood sheathing directly applied or 5-3-11 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

MT20

Weight: 537 lb

244/190

FT = 20%

REACTIONS. (size) 2=0-5-8, 10=0-5-8

Max Horz 2=228(LC 7)

Max Uplift 2=-965(LC 8), 10=-964(LC 9) Max Grav 2=2540(LC 1), 10=2539(LC 1)

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

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

TOP CHORD 2-4=-4550/1745, 4-5=-3621/1390, 5-6=-2748/1105, 6-7=-2748/1105, 7-8=-3623/1391,

1.25

1.25

NO

8-10=-4553/1748

2-16=-1589/3955, 15-16=-1585/3947, 14-15=-1156/3075, 13-14=-1056/3077, BOT CHORD

12-13=-1434/3950, 10-12=-1437/3958

**WEBS** 6-14=-996/2410, 7-14=-1190/583, 7-13=-459/1072, 8-13=-1074/530, 8-12=-301/687,

5-14=-1188/581, 5-15=-457/1069, 4-15=-1072/528, 4-16=-299/684

#### NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) 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
- 5) 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.
- 6) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=965, 10=964.



Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

June 2,2021

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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



Job	Truss	Truss Type	Qty	Ply	AMIRA BLDRS DELOACH RES.	
2809544	T01G	GABLE	1	2	Job Reference (optional)	T24168227

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:44:45 2021 Page 2 ID:amOAUKkav?6JdbyPKE2WNezBhuh-WtAxDvIAL2Uz67xp0pkoa6MLfExux6qO6FBLnNzBfuG

#### NOTES-

- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 372 lb down and 261 lb up at 5-0-0, 154 lb down and 96 lb up at 7-0-12, 154 lb down and 96 lb up at 9-0-12, 154 lb down and 96 lb up at 11-0-12, 154 lb down and 96 lb up at 13-0-12, 154 lb down and 96 lb up at 15-0-12, 154 lb down and 96 lb up at 16-10-0, 154 lb down and 96 lb up at 18-7-4, 154 lb down and 96 lb up at 20-7-4, 154 lb down and 96 lb up at 22-7-4, 154 lb down and 96 lb up at 20-7-4, 24-7-4, and 154 lb down and 96 lb up at 26-7-4, and 372 lb down and 261 lb up at 28-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) Studding applied to ply: 1(Front)

#### LOAD CASE(S) Standard

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

Vert: 1-6=-54, 6-11=-54, 35-38=-20

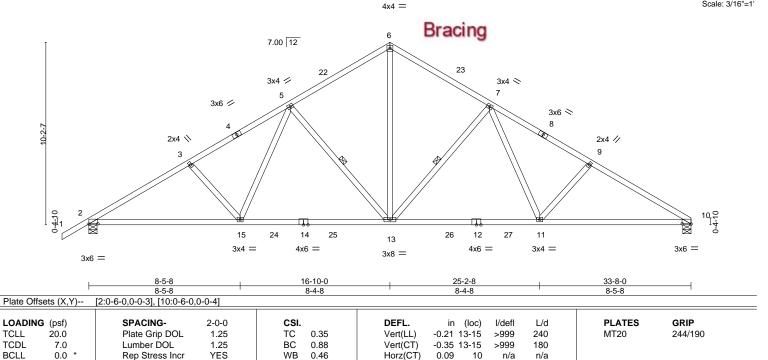
Concentrated Loads (lb)

Vert: 14=-154(F) 41=-372(F) 42=-154(F) 43=-154(F) 44=-154(F) 45=-154(F) 46=-154(F) 47=-154(F) 48=-154(F) 49=-154(F) 50=-154(F) 51=-154(F) 52=-372(F)



ID:amOAUKkav?6JdbyPKE2WNezBhuh-\_4kJRFJo6LcqkHW0aWF16JvYLeBBgZ7YLvxuKqzBfuF 5-8-3 5-8-3 11-3-2 16-10-0 22-4-14 <u>2</u>7-11-13 33-8-0 5-6-14 5-6-14 5-6-14 5-6-14 5-8-3

Scale: 3/16"=1



**BRACING-**

TOP CHORD

**BOT CHORD** 

WFBS

LUMBER-

BCDL

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

10.0

2x4 SP No 3 WFBS

REACTIONS. (size) 2=0-5-8, 10=0-5-8 Max Horz 2=229(LC 11)

Max Uplift 2=-285(LC 12), 10=-252(LC 13) Max Grav 2=1518(LC 19), 10=1441(LC 20)

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

Code FBC2020/TPI2014

TOP CHORD 2-3=-2363/422, 3-5=-2207/413, 5-6=-1515/348, 6-7=-1514/349, 7-9=-2218/420,

9-10=-2376/430

BOT CHORD 2-15=-443/2160, 13-15=-288/1736, 11-13=-184/1623, 10-11=-305/2012 6-13=-230/1215, 7-13=-664/263, 7-11=-103/612, 9-11=-299/185, 5-13=-659/260, **WEBS** 

5-15=-96/600, 3-15=-291/180

#### NOTES-

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

2) 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 1-10-6, Interior(1) 1-10-6 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

Matrix-MS

- 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) 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=285, 10=252.



Weight: 183 lb

Structural wood sheathing directly applied or 3-6-3 oc purlins.

7-13, 5-13

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

8-10-1 oc bracing: 2-15.

1 Row at midpt

FT = 20%

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

June 2,2021

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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





6-4-0

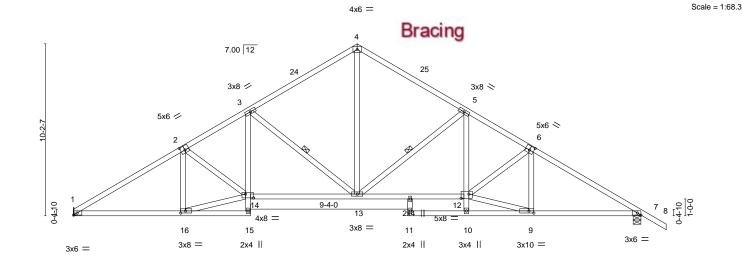


Plate Offsets (X,Y)	Plate Offsets (X,Y) [2:0-3-0,0-3-0], [6:0-3-0,0-3-0], [7:0-2-8,Edge], [9:0-3-8,0-1-8], [12:0-5-8,0-3-0], [14:0-5-8,0-2-12], [16:0-3-8,0-1-8]								
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP					
TCLL 20.0	Plate Grip DOL 1.25	TC 0.52	Vert(LL) -0.22 11 >999 240	MT20 244/190					
TCDL 7.0	Lumber DOL 1.25	BC 0.75	Vert(CT) -0.49 11 >819 180						
BCLL 0.0 *	Rep Stress Incr YES	WB 0.71	Horz(CT) 0.13 7 n/a n/a						
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 206 lb FT = 20%					

19-10-0

3-0-0

LUMBER-

TOP CHORD 2x4 SP No.2

2x4 SP No.2 \*Except\* **BOT CHORD** 

3-15,5-10: 2x4 SP No.3

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

16-10-0

6-4-0

**BOT CHORD** 

**BRACING-**

Structural wood sheathing directly applied or 3-3-5 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-6-0

9-1-3 oc bracing: 1-16

6-0-0 oc bracing: 9-10. 10-0-0 oc bracing: 10-12

4-0-0

4-0-0

6-6-0

WEBS 1 Row at midpt 3-13, 5-13

REACTIONS. (size) 1=Mechanical, 7=0-5-8

Max Horz 1=-229(LC 8)

Max Uplift 1=-245(LC 12), 7=-272(LC 13) Max Grav 1=1269(LC 1), 7=1373(LC 1)

6-6-0

6-6-0

6-6-0

4-0-0

10-6-0

4-0-0

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

TOP CHORD  $1\hbox{-}2\hbox{--}2142/397, 2\hbox{-}3\hbox{--}2159/440, 3\hbox{-}4\hbox{--}1536/333, 4\hbox{-}5\hbox{--}1536/335, 5\hbox{-}6\hbox{--}2227/376,}$ 

6-7=-2162/378

BOT CHORD 1-16=-397/1781, 3-14=-115/527, 13-14=-347/1839, 12-13=-179/1898, 5-12=-65/678,

7-9=-220/1797

2-16=-327/110, 14-16=-379/1775, 3-13=-777/301, 4-13=-196/1119, 5-13=-833/256,

9-12=-178/1855, 6-9=-379/64

#### NOTES-

**WEBS** 

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 3-4-6, Interior(1) 3-4-6 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
- 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) 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=245, 7=272.



Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

June 2,2021

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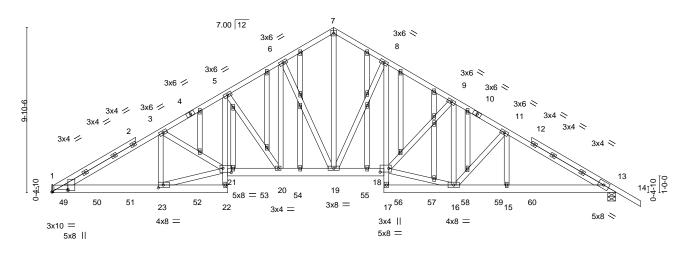
Job Truss Truss Type Qty Plv AMIRA BLDRS. - DELOACH RES. T24168230 2809544 T03G **GABLE** 2 Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:44:52 2021 Page 1

ID:amOAUKkav?6JdbyPKE2WNezBhuh-pE5bhINZhBN\_SCz9wnMRMa9YO2HK4DKQkrOCXTzBfu9 6-6-0 6-6-0 10-6-0 13-8-0 16-10-0 19-10-0 24-0-0 27-2-0 33-8-0 4-0-0 3-2-0 3-2-0 3-0-0 4-2-0 3-2-0 6-6-0

> Scale = 1:68.8 4x4 =

> > Structural wood sheathing directly applied or 5-2-5 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



6-6-0 10-6-0 13-8-0 16-10-0 19-10-0 33-8-0 6-6-0 4-0-0 3-2-0 3-2-0 3-0-0 6-6-0 [1:0-11-7,0-1-13], [1:0-0-15,0-11-7], [18:0-6-4,0-2-12], [21:0-6-0,0-3-0], [23:0-3-8,0-2-0]

**BRACING-**

TOP CHORD

**BOT CHORD** 

Plate Offsets (X,Y)--LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.51 Vert(LL) -0.14 20-21 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.64 Vert(CT) -0.24 20-21 >999 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.73 Horz(CT) 0.09 13 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 602 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2

2x6 SP No.2 \*Except\* **BOT CHORD** 

5-22,8-17: 2x4 SP No.3

WFBS 2x4 SP No.3 **OTHERS** 2x4 SP No.3

REACTIONS. (size) 1=Mechanical, 13=0-5-8

Max Horz 1=-222(LC 6)

Max Uplift 1=-894(LC 8), 13=-899(LC 9) Max Grav 1=2605(LC 1), 13=2568(LC 1)

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

TOP CHORD 1-3=-4608/1523, 3-5=-4668/1542, 5-6=-3699/1238, 6-7=-3040/1051, 7-8=-3040/1063,

8-9=-3733/1248, 9-11=-3955/1378, 11-13=-4601/1609

BOT CHORD 1-23=-1402/4023, 22-23=-118/341, 5-21=-540/1491, 20-21=-1293/3986, 19-20=-963/3157,

 $18-19 = -931/3178, \ 17-18 = -97/255, \ 8-18 = -546/1388, \ 16-17 = -113/345, \ 15-16 = -1315/4000, \ 18-19 = -931/3178, \ 17-18 = -97/255, \ 8-18 = -546/1388, \ 16-17 = -113/345, \ 15-16 = -1315/4000, \ 18-19 = -1315/$ 

13-15=-1315/4000

**WEBS** 3-23=-433/131, 21-23=-1336/3833, 5-20=-1432/572, 6-20=-483/1340, 6-19=-1303/526,

7-19=-994/2830, 8-19=-1359/594, 16-18=-957/3137, 9-18=-338/271, 11-16=-932/459,

11-15=-290/636

#### NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) 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
- 5) Truss designed for wind loads in the plane of the truss only. For study 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.
- 6) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* 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.

No 6818

STATE

Daguin Velez PE No.6818: JOAQUIN VE 68182

Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

June 2,2021

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Job	Truss	Truss Type	Qty	Ply	AMIRA BLDRS DELOACH RES.	
2809544	T03G	GABLE	1	2	Job Reference (optional)	T24168230

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:44:52 2021 Page 2 ID:amOAUKkav?6JdbyPKE2WNezBhuh-pE5bhINZhBN\_SCz9wnMRMa9YO2HK4DKQkrOCXTzBfu9

#### NOTES-

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=894, 13=899.

- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 158 lb down and 91 lb up at 0-7-4, 154 lb down and 96 lb up at 2-7-4, 154 lb down and 96 lb up at 4-7-4. 154 lb down and 96 lb up at 6-7-4. 154 lb down and 96 lb up at 8-7-4. 163 lb down and 70 lb up at 10-4at 12-7-4, 163 lb down and 70 lb up at 14-7-4, 163 lb down and 70 lb up at 16-7-4, 163 lb down and 70 lb up at 18-7-4, 154 lb down and 96 lb up at 20-7-4, 166 lb down and 99 lb up at 22-7-4, 166 lb down and 99 lb up at 24-7-4, and 166 lb down and 99 lb up at 26-7-4, and 372 lb down and 261 lb up at 28-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) Studding applied to ply: 1(Front)

#### LOAD CASE(S) Standard

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

Vert: 1-7=-54, 7-14=-54, 22-43=-20, 18-21=-20, 17-46=-20

Concentrated Loads (lb)

Vert: 22=-163(B) 23=-154(B) 19=-163(B) 49=-158(B) 50=-154(B) 51=-154(B) 52=-154(B) 53=-163(B) 54=-163(B) 55=-163(B) 56=-154(B) 57=-166(B) 58=-166(B) 59=-166(B) 60=-372(B)

Job Truss Truss Type Qty Ply AMIRA BLDRS. - DELOACH RES. T24168231 2809544 T04 2 Roof Special Job Reference (optional) 8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:44:53 2021 Page 1

4x6 =

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

ID:amOAUKkav?6JdbyPKE2WNezBhuh-HQfzveOBSVVq3LYMUUtguohipScrpgqayV7m4wzBfu8 10-6-0 16-10-0 23-2-0 27-2-0 33-8-0 4-0-0 6-4-0 4-0-0 6-6-0

Scale = 1:67.1

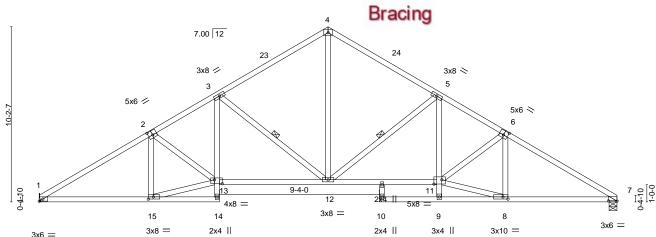
Structural wood sheathing directly applied or 3-2-12 oc purlins.

3-12, 5-12

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

10-0-0 oc bracing: 9-11

1 Row at midpt



	6-6-0	10-6-0	16-10-0	19-10-0	23-2-0	27-2-0	33-8-0
	6-6-0	4-0-0	6-4-0	3-0-0	3-4-0	4-0-0	6-6-0
)	[2:0-3-0,0-3-0], [6:0-3-0,0-	3-0], [7:0-6-0,0-0-3	3], [8:0-3-8,0-1-8], [11:0-5-8	3,0-3-0], [13:0	)-5-8,0-2-12], [	15:0-3-8,0-1-8]	

**BRACING-**

TOP CHORD

**BOT CHORD** 

WFBS

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL	-0.22	10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.75	Vert(C	) -0.49	10	>818	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(C	T) 0.12	7	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	ix-MS						Weight: 203 lb	FT = 20%

LUMBER-

2x4 SP No 2

TOP CHORD **BOT CHORD** 2x4 SP No 2 \*Except\*

3-14,5-9: 2x4 SP No.3

WFBS 2x4 SP No.3

REACTIONS. (size) 1=Mechanical, 7=0-5-8

Max Horz 1=216(LC 9)

Max Uplift 1=-245(LC 12), 7=-239(LC 13) Max Grav 1=1271(LC 1), 7=1290(LC 1)

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

TOP CHORD 1-2=-2145/398, 2-3=-2163/443, 3-4=-1540/337, 4-5=-1540/339, 5-6=-2237/391,

6-7=-2180/388

BOT CHORD  $1-15 = -410/1784, \ 3-13 = -117/526, \ 12-13 = -363/1843, \ 11-12 = -205/1906, \ 5-11 = -73/681, \ 11-12 = -205/1906, \ 11-12 = -205/$ 

7-8=-255/1814

2-15=-328/114, 13-15=-392/1778, 3-12=-776/303, 4-12=-198/1122, 5-12=-839/262,

8-11=-215/1876, 6-8=-374/70

### NOTES-

**WEBS** 

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 3-4-6, Interior(1) 3-4-6 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
- 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) 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=245, 7=239.



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

June 2,2021

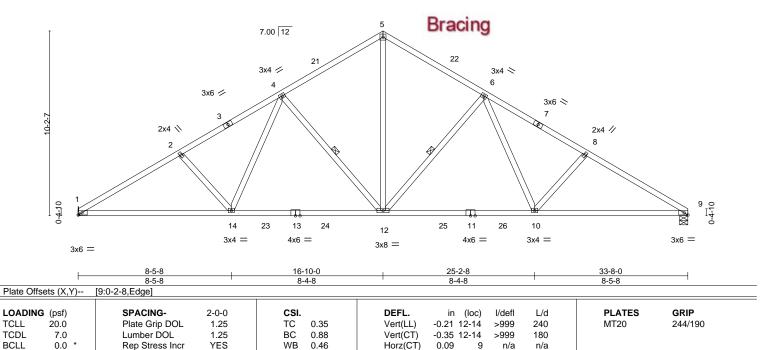
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Job Truss Truss Type Qty Ply AMIRA BLDRS. - DELOACH RES. T24168232 2809544 T05 Common Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:44:55 2021 Page 1 ID:amOAUKkav?6JdbyPKE2WNezBhuh-DpmjKKQR\_6IYJfikcvw8\_Dm44GGHHeMtQpcs8ozBfu6 11-3-2 16-10-0 22-4-14 27-11-13 33-8-0 5-6-14 5-6-14 5-6-14 5-6-14 5-8-3 Scale: 3/16"=1" 4x4 =



**BRACING-**

TOP CHORD

BOT CHORD

WFBS

LUMBER-

BCDL

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 WFBS

10.0

2x4 SP No 3

REACTIONS. 1=Mechanical, 9=0-5-8 (size)

Max Horz 1=216(LC 9)

Max Uplift 1=-253(LC 12), 9=-253(LC 13) Max Grav 1=1442(LC 19), 9=1442(LC 20)

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

Code FBC2020/TPI2014

TOP CHORD 1-2=-2378/430, 2-4=-2220/420, 4-5=-1517/350, 5-6=-1517/350, 6-8=-2220/420,

8-9=-2378/430

BOT CHORD 1-14=-452/2176. 12-14=-291/1742. 10-12=-186/1625. 9-10=-306/2014

5-12=-231/1216, 6-12=-664/263, 6-10=-103/612, 8-10=-299/185, 4-12=-664/263, **WEBS** 

4-14=-102/612, 2-14=-299/185

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 3-4-6, Interior(1) 3-4-6 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

Matrix-MS

- 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) 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=253, 9=253.



Weight: 180 lb

Structural wood sheathing directly applied or 3-6-3 oc purlins.

6-12, 4-12

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

8-8-7 oc bracing: 1-14.

1 Row at midpt

FT = 20%

6904 Parke East Blvd. Tampa FL 33610 Date:

June 2,2021

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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

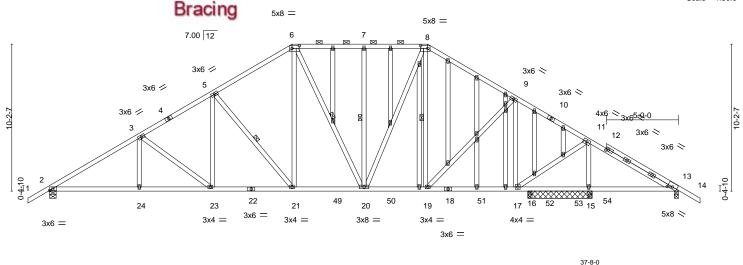


Job Truss Truss Type Qty Ply AMIRA BLDRS. - DELOACH RES. T24168233 2809544 T06G **GABLE** Job Reference (optional) 8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:44:57 2021 Page 1

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

ID:amOAUKkav?6JdbyPKE2WNezBhuh-9BuUl0RiWk?GYzs7jKyc3esOQ3zClVP9t75zDhzBfu4

Scale = 1:80.0



16-10-0 5-6-5 21-10-0 33-6-0 35-5-4 1-1-11 1-11-4 43-8-0 Plate Offsets (X Y)--[6:0-6-0 0-2-4] [8:0-6-0 0-2-4] [12:0-2-0 0-1-8] [13:0-4-1 0-1-12]

I late on	1 late of location (x, 1) [0.0 0 0,0 2 1], [0.0 0 0,0 2 1], [12.0 2 0,0 1 0], [10.0 1 1,0 1 12]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	-0.14 21-23	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	ВС	0.73	Vert(CT)	-0.23 21-23	>999	180			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.08 16	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS					Weight: 367 lb	FT = 20%	

LUMBER-2x4 SP No 2

TOP CHORD **BOT CHORD** 2x4 SP No 2

2x4 SP No.3 WERS **OTHERS** 2x4 SP No.3 **BRACING-**

Structural wood sheathing directly applied or 3-4-0 oc purlins, except TOP CHORD

2-0-0 oc purlins (5-0-12 max.): 6-8.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. WEBS 1 Row at midpt 5-21, 6-20, 7-20, 8-19

REACTIONS. All bearings 0-3-8 except (jt=length) 2=0-5-8.

(lb) -Max Horz 2=-236(LC 25)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-327(LC 27), 13=-116(LC 6), 16=-128(LC 8), 15=-602(LC

9)

All reactions 250 lb or less at joint(s) 13 except 2=1555(LC 15), 16=459(LC 2), 15=2273(LC 2), Max Grav

15=2111(LC 1)

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

2-3=-2463/488, 3-5=-2066/450, 5-6=-1612/396, 6-7=-1267/339, 7-8=-1267/339, TOP CHORD

8-9=-1278/319, 9-11=-838/235, 11-13=-103/642

**BOT CHORD**  $2 - 24 = -480/2229, \ 23 - 24 = -480/2229, \ 21 - 23 = -338/1832, \ 20 - 21 = -191/1376, \ 19 - 20 = -101/1037, \ 10 - 20 = -101/1037,$ 

17-19=-25/656, 16-17=-482/132, 15-16=-482/132, 13-15=-482/132

3-23=-492/176, 5-23=-68/503, 5-21=-722/245, 6-21=-155/791, 6-20=-284/109,

7-20=-282/146, 8-20=-178/622, 9-19=-141/580, 9-17=-873/193, 11-17=-188/1365,

11-15=-1688/341

### NOTES-

**WEBS** 

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 327 lb uplift at joint 2, 116 lb uplift at joint 13, 128 lb uplift at joint 16 and 602 lb uplift at joint 15.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 154 lb down and 96 lb up at 34-7-4, and 154 lb down and 96 lb up at 36-7-4, and 372 lb down and 261 lb up at 38-7-4 on bottom chord. The design/selection



Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

June 2,2021

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\*\*AMSI/TP11 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	AMIRA BLDRS DELOACH RES.
					T24168233
2809544	T06G	GABLE	1	1	
					Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:44:57 2021 Page 2 ID:amOAUKkav?6JdbyPKE2WNezBhuh-9BuUl0RiWk?GYzs7jKyc3esOQ3zClVP9t75zDhzBfu4

### NOTES-

13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 1-6=-54, 6-8=-54, 8-14=-54, 43-46=-20

Concentrated Loads (lb)

Vert: 52=-154(F) 53=-154(F) 54=-372(F)



Job Truss Truss Type Qty Ply AMIRA BLDRS. - DELOACH RES. T24168234 2809544 T07 Piggyback Base 6 Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:44:58 2021 Page 1 ID:amOAUKkav?6JdbyPKE2WNezBhuh-eOSsyMSKH177A7QJH1TrbrOaxTKGUzkJ6nrXl7zBfu3 11-3-11 16-10-0 21-10-0 26-10-0 32-4-5 37-5-4 43-8-0

5-0-0

5-6-5

1 Row at midpt

2-0-0 oc purlins (4-10-12 max.): 6-8.

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

5-1-0

Structural wood sheathing directly applied or 3-3-5 oc purlins, except

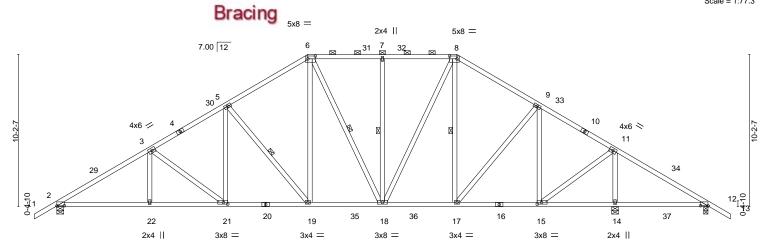
5-19, 6-18, 8-17, 7-18

5-0-0

Scale = 1:77.3

6-2-12

43-8-0



		6-2-12	5-0-15	5-6-4	5-0-0	5-0-0	5-6-5	5-1-0	6-2-12
Plate Offse	ts (X,Y)	[2:0-6-0,0-0-3],	, [6:0-6-0,0-2-4], [	8:0-6-0,0-2-4], [12:0-	6-0,0-0-3], [15:0-3	-8,0-1-8], [21:0-3-8,0	0-1-8]		
LOADING	(psf)	SPACIN	NG- 2-0-	0   <b>CSI.</b>		<b>DEFL.</b> in	(loc) I/defl I	L/d PL	_ATES GRIP
TCLL	20.0	Plate Gr	rip DOL 1.2	5 TC	0.44	Vert(LL) -0.14	19-21 >999 2	40 M	T20 244/190
TCDL	7.0	Lumber	DOL 1.2	5 BC	0.67	Vert(CT) -0.24	19-21 >999 1	80	
BCLL	0.0 *	Rep Str	ess Incr YES	S WB	0.61	Horz(CT) 0.08	14 n/a i	n/a	
BCDL	10.0	Code F	BC2020/TPI2014	Matri	x-MS			W	eight: 290 lb FT = 20%

26-10-0

**BRACING-**

TOP CHORD

BOT CHORD

WEBS

21-10-0

LUMBER-TOP CHORD

2x4 SP No 2 2x4 SP No 2

**BOT CHORD** 2x4 SP No.3 WFBS

REACTIONS. (size) 2=0-5-8, 14=0-5-8, 12=0-3-8

Max Horz 2=-236(LC 10)

Max Uplift 2=-331(LC 12), 14=-341(LC 13), 12=-101(LC 25) Max Grav 2=1588(LC 19), 14=2150(LC 2), 12=145(LC 24)

5-0-15

5-6-4

16-10-0

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

TOP CHORD 2-3=-2548/496. 3-5=-2153/458. 5-6=-1698/405. 6-7=-1368/349. 7-8=-1368/349.

8-9=-1353/333, 9-11=-1034/264, 11-12=-90/565

BOT CHORD 2-22=-486/2284, 21-22=-486/2284, 19-21=-344/1888, 18-19=-199/1431, 17-18=-103/1109,

15-17=-49/840, 14-15=-411/116, 12-14=-411/116

WEBS 3-21=-490/176, 5-21=-68/504, 5-19=-723/245, 6-19=-155/785, 8-18=-176/631,  $9-17 = -133/469, \ 9-15 = -708/149, \ 11-15 = -192/1537, \ 11-14 = -1908/355, \ 7-18 = -301/153$ 

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 2-10-6, Interior(1) 2-10-6 to 16-10-0, Exterior(2R) 16-10-0 to 23-0-2, Interior(1) 23-0-2 to 26-10-0, Exterior(2R) 26-10-0 to 33-0-2, Interior(1) 33-0-2 to 45-2-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 3x6 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 331 lb uplift at joint 2, 341 lb uplift at joint 14 and 101 lb uplift at joint 12.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

June 2,2021

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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



Job Truss Truss Type Qty Ply AMIRA BLDRS. - DELOACH RES. T24168235 2809544 T07G **GABLE** Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:45:01 2021 Page 1

ID:amOAUKkav?6JdbyPKE2WNezBhuh-2y8\_aNUCayVi1a9uyA0YDU049hLehIPlol3BMSzBfu0 21-10-0 5-0-0 6-2-12

Scale = 1:77.4

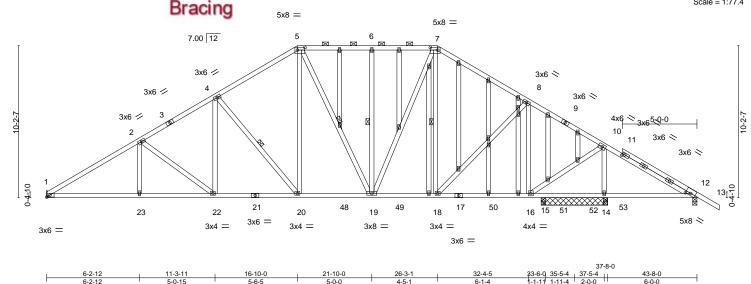


Plate Offsets (X,Y)	Plate Offsets (X,Y) [5:0-6-0,0-2-4], [7:0-6-0,0-2-4], [11:0-2-0,0-1-8], [12:0-4-1,0-1-12]											
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP								
TCLL 20.0	Plate Grip DOL 1.25	TC 0.51	Vert(LL) -0.14 20-22 >999 240	MT20 244/190								
TCDL 7.0	Lumber DOL 1.25	BC 0.76	Vert(CT) -0.24 20-22 >999 180									
BCLL 0.0 *	Rep Stress Incr NO	WB 0.68	Horz(CT) 0.08 15 n/a n/a									
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 365 lb FT = 20%								

LUMBER-TOP CHORD 2x4 SP No 2

**BOT CHORD** 2x4 SP No 2

2x4 SP No.3 WFBS **OTHERS** 2x4 SP No.3 BRACING-

Structural wood sheathing directly applied or 3-3-4 oc purlins, except TOP CHORD

+ 2-0-0

6-0-0

2-0-0 oc purlins (5-0-10 max.): 5-7.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. **WEBS** 1 Row at midpt 4-20, 5-19, 6-19, 7-18

REACTIONS. All bearings 0-3-8 except (jt=length) 1=Mechanical.

(lb) -Max Horz 1=-230(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) except 1=-295(LC 27), 12=-116(LC 6), 15=-128(LC 8), 14=-603(LC

9)

All reactions 250 lb or less at joint(s) 12 except 1=1479(LC 15), 15=459(LC 2), 14=2274(LC 2), Max Grav 14=2112(LC 1)

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

11-3-11 5-0-15

TOP CHORD  $1\hbox{-}2\hbox{--}2478/498, 2\hbox{-}4\hbox{--}2073/454, 4\hbox{-}5\hbox{--}1615/398, 5\hbox{-}6\hbox{--}1269/341, 6\hbox{-}7\hbox{--}1269/341, }$ 

7-8=-1280/319, 8-10=-838/235, 10-12=-103/642

**BOT CHORD** 1-23=-489/2246, 22-23=-489/2246, 20-22=-341/1837, 19-20=-191/1379, 18-19=-101/1039, 16-18=-26/657, 15-16=-482/132, 14-15=-482/132, 12-14=-482/132

**WEBS** 2-22=-507/184, 4-22=-72/509, 4-20=-725/247, 5-20=-157/794, 5-19=-286/110,

6-19=-281/145, 7-19=-178/624, 8-18=-141/580, 8-16=-874/194, 10-16=-189/1366,

10-14=-1689/341

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 295 lb uplift at joint 1, 116 lb uplift at joint 12, 128 lb uplift at joint 15 and 603 lb uplift at joint 14.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## 68182

Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

June 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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Job	Truss	Truss Type	Qty	Ply	AMIRA BLDRS DELOACH RES.
0000544	T070	CARLE			T24168235
2809544	T07G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:45:01 2021 Page 2 ID:amOAUKkav?6JdbyPKE2WNezBhuh-2y8\_aNUCayVi1a9uyA0YDU049hLehIPlol3BMSzBfu0

### NOTES-

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 154 lb down and 96 lb up at 34-7-4, and 154 lb down and 96 lb up at 36-7-4, and 372 lb down and 261 lb up at 38-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-5=-54, 5-7=-54, 7-13=-54, 42-45=-20

Concentrated Loads (lb)

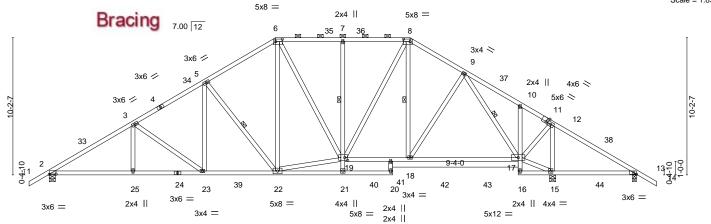
Vert: 51=-154(B) 52=-154(B) 53=-372(B)

Job Truss Truss Type Qty Ply AMIRA BLDRS. - DELOACH RES. T24168236 2809544 T08 Piggyback Base 2 Job Reference (optional)

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:45:02 2021 Page 1

ID:amOAUKkav?6JdbyPKE2WNezBhuh-W9hMojVqKGdZekk4WtYnmhZFt4fgQm0v1PpkuuzBfu? 37-5-4 16-10-0 21-11-12 26-10-0 30-10-4 34-10-8 43-8-0 6-2-12 5-3-10 5-3-10 5-1-12 4-10-4 4-0-4 4-0-4 2-6-12 6-2-12

Scale = 1:85.7



	6-2-12	5-3-10	5-3-10	5-1-12 3-6-	2 1-3-8	8	3-0-8	2-6-12	6-2-12	<u> </u>
Plate Offsets (X,Y)	[2:0-6-0,0-0-3], [6:	0-6-0,0-2-4], [8:0-6-0	),0-2-4], [11:0-1-12,E	dge], [13:0-2-8,Ed	e], [19:0-2-	8,0-2-8]				
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL	. ir	(loc)	l/defl L	/d	PLATES	GRIP
TCLL 20.0	Plate Grip I		TC 0.51	Vert(		( /	>999 24	- 1	MT20	244/190
TCDL 7.0	Lumber DC		BC 0.83	Vert(	,		>781 18	-	20	2
BCLL 0.0 *	Rep Stress	Incr YES	WB 0.59	Horz(	CŤ) 0.10	15	n/a n	/a		
BCDL 10.0	Code FBC:	2020/TPI2014	Matrix-MS						Weight: 306 lb	FT = 20%

21-11-12

LUMBER-**BRACING-**TOP CHORD 2x4 SP No 2

11-6-6

16-10-0

2x4 SP No.2 \*Except\* **BOT CHORD** 

7-21.10-16: 2x4 SP No.3

**WEBS** 2x4 SP No.3

TOP CHORD

25-6-8 26-10-0

Structural wood sheathing directly applied or 3-3-15 oc purlins,

37-5-4

43-8-0

except

2-0-0 oc purlins (4-6-8 max.): 6-8.

34-10-8

**BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. Except:

1 Row at midpt 7-19

10-0-0 oc bracing: 19-21 WEBS 1 Row at midpt 5-22, 8-18, 9-17

REACTIONS. (size) 2=0-5-8, 13=0-3-8, 15=0-5-8

Max Horz 2=-236(LC 10)

Max Uplift 2=-320(LC 12), 13=-268(LC 25), 15=-358(LC 13) Max Grav 2=1588(LC 19), 13=40(LC 12), 15=2461(LC 2)

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

TOP CHORD 

8-9=-1485/303, 9-10=-390/199, 10-12=-365/137, 12-13=-126/925

**BOT CHORD** 2-25=-468/2287, 23-25=-468/2287, 22-23=-319/1872, 19-21=0/302, 7-19=-308/155, 18-19=-97/1238, 17-18=-42/996, 13-15=-731/148

3-23=-507/182, 5-23=-69/510, 5-22=-724/244, 6-22=-135/419, 19-22=-157/1566,

6-19=-119/411, 8-19=-174/711, 9-18=-106/516, 9-17=-1357/185, 15-17=-659/177,

12-17=-128/1465, 12-15=-1935/296

### NOTES-

**WEBS** 

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 2-10-6, Interior(1) 2-10-6 to 16-10-0, Exterior(2R) 16-10-0 to 23-0-2, Interior(1) 23-0-2 to 26-10-0, Exterior(2R) 26-10-0 to 33-0-2, Interior(1) 33-0-2 to 45-2-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 320 lb uplift at joint 2, 268 lb uplift at ioint 13 and 358 lb uplift at joint 15.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

June 2,2021

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Job Truss Truss Type Qty Ply AMIRA BLDRS. - DELOACH RES. T24168237 2809544 3 T09 Piggyback Base Job Reference (optional)

21-10-0

5-0-0

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

11-3-11

5-0-15

16-10-0

5-6-5

1-6-0 2-0-0 3-5-8 6-2-12 1-6-0 2-0-0 1-5-8 2-9-4

8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:45:04 2021 Page 1 ID:amOAUKkav?6JdbyPKE2WNezBhuh-SXp7DPX5stuHu2uTdlaFr6eZlulvue\_BUilrxnzBftz 32-4-5 34-10-8 37-5-4 2-6-3 2-6-12 43-8-0 26-10-0 5-0-0 5-6-5 6-2-12

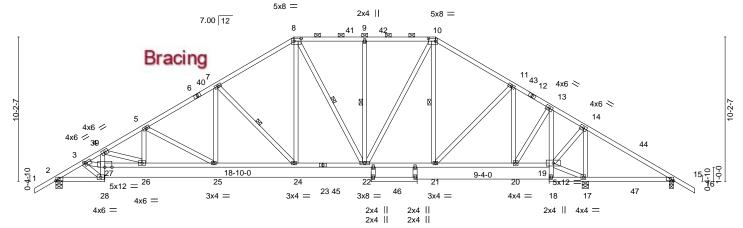
Structural wood sheathing directly applied or 2-5-13 oc purlins,

7-24, 8-22, 9-22, 10-21

2-0-0 oc purlins (4-11-2 max.): 8-10.

Rigid ceiling directly applied or 2-2-0 oc bracing.

Scale = 1:81.4



	3-5-8	6-2-12	11-3-11	16-10-0	21-10-0	22-3-8 25-6-8	26-10-0	32-4-5	<sub>1</sub> 34-10-8	37-5-4	43-8-0	1
	3-5-8	2-9-4	5-0-15	5-6-5	5-0-0	0-5-8 3-3-0	1-3-8	5-6-5	2-6-3	2-6-12	6-2-12	
Plate Offsets (X	,Y) [3:0-	1-8,0-1-8],	[8:0-6-0,0-2-4], [1	0:0-6-0,0-2-4], [15:0	0-2-8,Edge]							

LOADIN	G (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) -0.19 25-26 >999 240	MT20 244/190
TCDL	7.0	Lumber DOL 1.25	BC 0.98	Vert(CT) -0.33 25-26 >999 180	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.75	Horz(CT) 0.17 17 n/a n/a	
BCDL	10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 307 lb FT = 20%

**BOT CHORD** 

WEBS

except

LUMBER-**BRACING-**TOP CHORD 2x4 SP No 2 TOP CHORD

2x4 SP No.2 \*Except\* **BOT CHORD** 

23-27: 2x4 SP M 31, 13-18,29-30: 2x4 SP No.3

2x4 SP No.3 \*Except\* WFBS

3-27: 2x4 SP No.2

(size) 2=0-5-8, 15=0-3-8, 17=0-5-8

Max Horz 2=-236(LC 10)

Max Uplift 2=-321(LC 12), 15=-384(LC 25), 17=-372(LC 13) Max Grav 2=1500(LC 19), 15=83(LC 12), 17=2466(LC 2)

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

TOP CHORD 2-3=-2420/485, 3-4=-4435/955, 4-5=-3178/677, 5-7=-2314/502, 7-8=-1708/407,

 $8-9 = -1348/340, \ 9-10 = -1348/340, \ 10-11 = -1267/313, \ 11-13 = -744/240, \ 14-15 = -208/1171$ BOT CHORD 2-28=-507/2177, 27-28=-333/1491, 4-27=-214/1027, 26-27=-966/4250, 25-26=-626/2891,

24-25=-386/2046, 22-24=-211/1442, 21-22=-99/1033, 20-21=-32/642, 13-19=-1381/217,

3-28=-2250/534, 3-27=-821/3575, 4-26=-1437/359, 5-26=-106/681, 5-25=-957/272,

7-25=-93/640, 7-24=-873/283, 8-24=-168/837, 8-22=-286/111, 9-22=-302/153, 10-22=-190/693, 10-21=-271/139, 11-21=-151/604, 11-20=-861/187, 13-20=-186/1210,

17-19=-967/228, 14-19=-153/1333, 14-17=-1811/318

**WEBS** 

REACTIONS.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 2-10-6, Interior(1) 2-10-6 to 16-10-0, Exterior(2R) 16-10-0 to 23-0-2, Interior(1) 23-0-2 to 26-10-0, Exterior(2R) 26-10-0 to 33-0-2, Interior(1) 33-0-2 to 45-2-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 3x6 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 321 lb uplift at joint 2, 384 lb uplift at joint 15 and 372 lb uplift at joint 17.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

June 2,2021

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Job Truss Truss Type Qty Ply AMIRA BLDRS. - DELOACH RES. T24168238 5 2809544 T10 Piggyback Base Job Reference (optional)

4-6-8

5-6-5

32-4-5

1 Row at midpt

1 Row at midpt

2-0-0 oc purlins (4-9-7 max.): 8-10.

22-3-8

5-5-8

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

11-3-11

5-0-15

16-10-0

5-6-5

16-10-0

1-6-0 2-0-0 3-5-8 6-2-12 1-6-0 2-0-0 1-5-8 2-9-4

8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:45:06 2021 Page 1 ID:amOAUKkav?6JdbyPKE2WNezBhuh-Pwxtd5YLOV8\_7L2sljcjwXkwXi\_CMYMUy0ny0gzBftx 26-10-0 32-4-5 37-5-4 43-8-0 5-0-15

37-5-4

Structural wood sheathing directly applied or 2-5-9 oc purlins, except

7-22, 8-21, 10-19

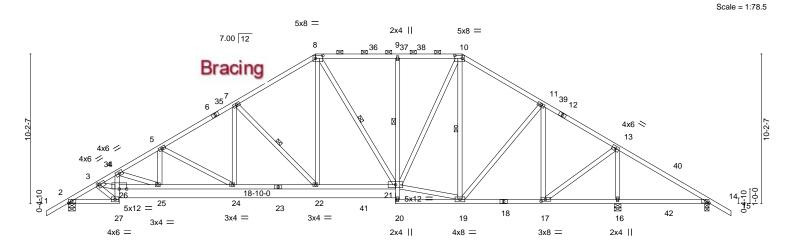
Rigid ceiling directly applied or 2-2-0 oc bracing. Except:

9-21

1-6-0

6-2-12

43-8-N



	1 3-3-0	0-2-12   11-3-1	' '	10-10-0	22-3-0	1 20-10-0	U 1 32	4-3	37-3-4	1 43-0-0	1
	3-5-8	2-9-4 5-0-15	5	5-6-5	5-5-8	4-6-8	5-	-6-5	5-0-15	6-2-12	
Plate Offs	ets (X,Y)	[3:0-1-8,0-1-8], [8:0-6-0,0	)-2-4], [10:0-6·	-0,0-2-4], [14:0	)-2-8,Edge], [17:0	0-3-8,0-1-8]					
LOADING	i (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	-0.20 24-25	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.99	Vert(CT)	-0.34 24-25	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.17 16	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix	x-MS					Weight: 298 lb	FT = 20%

26-10-0

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

22-3-8

LUMBER-TOP CHORD 2x4 SP No 2

2x4 SP No.2 \*Except\* **BOT CHORD** 

REACTIONS.

23-26: 2x4 SP M 31, 9-20: 2x4 SP No.3

6-2-12

2x4 SP No.3 \*Except\* **WEBS** 

3-5-8

3-26: 2x4 SP No.2

(size) 2=0-5-8, 16=0-5-8, 14=0-3-8

Max Horz 2=-236(LC 10)

Max Uplift 2=-322(LC 12), 16=-353(LC 13), 14=-300(LC 25) Max Grav 2=1513(LC 19), 16=2347(LC 2), 14=75(LC 12)

11\_3\_11

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

TOP CHORD  $2\text{-}3\text{--}2447/487, \ 3\text{-}4\text{--}4478/960, \ 4\text{-}5\text{--}3212/680, \ 5\text{-}7\text{--}2346/505, \ 7\text{-}8\text{--}1743/410,}$ 

 $8-9 = -1355/335, \ 9-10 = -1350/333, \ 10-11 = -1191/328, \ 11-13 = -807/255, \ 13-14 = -193/983$ BOT CHORD 2-27=-509/2197, 26-27=-335/1503, 4-26=-215/1034, 25-26=-970/4289, 24-25=-629/2921,

22-24=-389/2070, 21-22=-211/1470, 9-21=-305/155, 17-19=-35/643, 16-17=-760/205,

**WEBS** 3-27=-2270/537, 3-26=-825/3608, 4-25=-1446/360, 5-25=-106/688, 5-24=-964/272, 7-24=-94/636, 7-22=-868/282, 8-22=-164/865, 8-21=-318/117, 19-21=-79/976,

10-21=-214/889, 10-19=-452/163, 11-19=-150/558, 11-17=-820/182, 13-17=-248/1714,

13-16=-2100/367

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 2-10-6, Interior(1) 2-10-6 to 16-10-0, Exterior(2R) 16-10-0 to 23-0-2, Interior(1) 23-0-2 to 26-10-0, Exterior(2R) 26-10-0 to 33-0-2, Interior(1) 33-0-2 to 45-2-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 3x6 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 322 lb uplift at joint 2, 353 lb uplift at joint 16 and 300 lb uplift at joint 14.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

June 2,2021

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Job Truss Truss Type Qty Ply AMIRA BLDRS. - DELOACH RES. T24168239 2809544 T11 3 Common Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:45:07 2021 Page 1 ID:amOAUKkav?6JdbyPKE2WNezBhuh-t6VFrRZz9oGrlVd2JQ7yTlG9l5Pk58deAgXVY6zBftw 8-7-0 12-10-15 17-2-0 18-8-0 4-3-15 1-6-0 Scale = 1:35.0 4x4 = 17 7.00 12 16 2x4 / 5 3 0-4-10 8 5x8 = 3x6 = 3x6 = 8-7-0 8-7-0 Plate Offsets (X,Y)--[2:0-6-0,0-0-3], [6:0-6-0,0-0-3], [8:0-4-0,0-3-0] DEFL. in (loc) I/defI L/d **PLATES** GRIP

LOADIN	G (psf)	SPACING-	2-0-0	CSI.
TCLL	20.0	Plate Grip DOL	1.25	TC 0.31
TCDL	7.0	Lumber DOL	1.25	BC 0.65
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.18
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-MS

Vert(CT) -0.18 8-14 >999 180 Horz(CT) 0.02 6 n/a n/a

>999

240

-0.09 8-14

Vert(LL)

TOP CHORD

**BOT CHORD** 

Weight: 82 lb FT = 20%

MT20

Structural wood sheathing directly applied or 5-11-2 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

BRACING-

244/190

TOP CHORD

REACTIONS.

LUMBER-

2x4 SP No 2 BOT CHORD 2x4 SP No 2 2x4 SP No.3 WFBS

(size) 2=0-5-8, 6=0-5-8

Max Horz 2=130(LC 11)

Max Uplift 2=-162(LC 12), 6=-162(LC 13) Max Grav 2=716(LC 1), 6=716(LC 1)

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

2-3=-940/204, 3-4=-714/162, 4-5=-714/162, 5-6=-940/204 TOP CHORD

**BOT CHORD** 2-8=-187/792. 6-8=-114/791

WFBS 4-8=-59/477. 5-8=-282/166. 3-8=-282/165

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 8-7-0, Exterior(2R) 8-7-0 to 11-7-0, Interior(1) 11-7-0 to 18-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 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 162 lb uplift at joint 2 and 162 lb uplift at



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

June 2,2021

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	Job	Truss	Truss Type	Qty	Ply	AMIRA BLDRS DELOACH RES.	
						T24168240	
	2809544	T11G	Common Supported Gable	1	1		
						Job Reference (optional)	
	Builders FirstSource (Jacksonville, FL), Jacksonville,		FL - 32244,	8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:45:08 2021 Page			
			ID.omOA	ID. amOALIKkay 26 Idhy DKC2WNa=Dhyb I, I2a2mahyy6OiNfDCa2aD2ymMIV/yOad4aDKC24V=Dfty			

ID:amOAUKkav?6JdbyPKE2WNezBhuh-LJ3e2mabw6OiNfBEs8eB?ypMIVvQqd1nPKG24YzBftv 17-2-0 18-8-0

8-7-0

Scale = 1:34.9

1-6-0

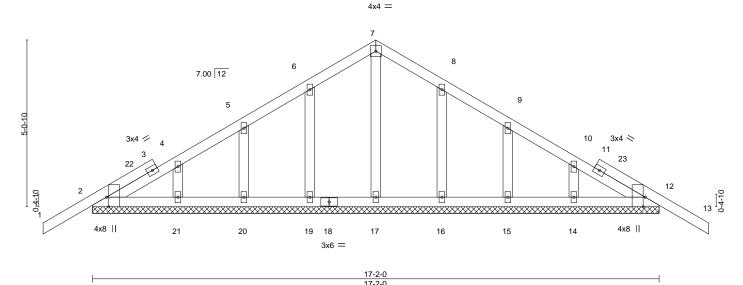


Plate Offsets (X,Y)--[2:0-3-8,Edge], [12:0-3-8,Edge] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.13 Vert(LL) -0.01 13 n/r 120 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 вс 0.04 Vert(CT) -0.01 13 n/r 120 WB **BCLL** 0.0 Rep Stress Incr YES 0.04 Horz(CT) 0.00 12 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-S Weight: 92 lb FT = 20%

LUMBER-BOT CHORD

OTHERS

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

-1-6-0 1-6-0

BRACING-

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 17-2-0.

(lb) -Max Horz 2=122(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 19, 20, 21, 16, 15, 14 Max Grav All reactions 250 lb or less at joint(s) 2, 12, 17, 19, 20, 21, 16, 15, 14

8-7-0

8-7-0

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 8-7-0, Corner(3R) 8-7-0 to 11-7-0, Exterior(2N) 11-7-0 to 18-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 19, 20, 21, 16, 15, 14.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



6904 Parke East Blvd. Tampa FL 33610 Date:

June 2,2021

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Job Truss Truss Type Qty Plv AMIRA BLDRS. - DELOACH RES. T24168241 2809544 T12 Common Girder 2 Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:45:10 2021 Page 1 ID:amOAUKkav?6JdbyPKE2WNezBhuh-HhAOTSbrSjeQczLd\_Zhf4Nub\_JS5IMd4sel99RzBftt 8-7-0 3-11-4 Scale = 1:32.9 4x6 || 3 7.00 12 3x8 🖊 3x8 <> 2 13 17 18 19 15 6 8 7 -6x8 = 6x8 3x8 || 3x8 || 10x12 =4-7-12 8-7-0 12-6-4 17-2-0 4-7-12 3-11-4 3-11-4 4-7-12 Plate Offsets (X,Y)--[1:0-2-6,Edge], [5:0-2-6,Edge], [6:0-5-8,0-1-8], [7:0-6-0,0-6-0], [8:0-5-8,0-1-8] LOADING (psf) SPACING-2-0-0 CSI. **DEFL** in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.63 Vert(LL) -0.12 7-8 >999 240 MT20 244/190 TCDL Vert(CT) 7.0 Lumber DOL 1.25 вс 0.54 -0.21 7-8 >977 180 WB

Horz(CT)

**BRACING-**

TOP CHORD

**BOT CHORD** 

0.05

5

n/a

n/a

Rigid ceiling directly applied or 10-0-0 oc bracing.

Structural wood sheathing directly applied or 3-4-10 oc purlins.

LUMBER-

**BCLL** 

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD 2x8 SP 2400F 2.0E 2x4 SP No.3 \*Except\* WFBS 3-7: 2x4 SP No.2

0.0

10.0

REACTIONS. (size) 1=0-5-8, 5=0-5-8 Max Horz 1=110(LC 24)

Max Uplift 1=-1235(LC 8), 5=-1486(LC 9) Max Grav 1=4786(LC 1), 5=6579(LC 1)

Rep Stress Incr

Code FBC2020/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-9318/2418, 2-3=-6783/1643, 3-4=-6800/1646, 4-5=-9947/2255 **BOT CHORD** 1-8=-2101/8000, 7-8=-2101/8000, 6-7=-1893/8580, 5-6=-1893/8580 **WEBS** 

NO

0.74

Matrix-MS

 $3-7=-1566/6558,\ 4-7=-3310/754,\ 4-6=-618/3186,\ 2-7=-2614/913,\ 2-8=-803/2540$ 

### NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; 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
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1235, 5=1486,
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2585 lb down and 914 lb up at 5-1-9, 1249 lb down and 265 lb up at 7-0-12, 1249 lb down and 265 lb up at 9-0-12, 1251 lb down and 265 lb up at 11-0-12, 1251 lb down and 265 lb up at 13-0-12, and 1359 lb down and 273 lb up at 15-0-12, and 1436 lb down and 315 lb up at 15-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



Weight: 218 lb

FT = 20%

Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

June 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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Job	Truss	Truss Type	Qty	Ply	AMIRA BLDRS DELOACH RES.
					T24168241
2809544	T12	Common Girder	1	2	l
					Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:45:10 2021 Page 2 ID:amOAUKkav?6JdbyPKE2WNezBhuh-HhAOTSbrSjeQczLd\_Zhf4Nub\_JS5IMd4sel99RzBftt

### LOAD CASE(S) Standard

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

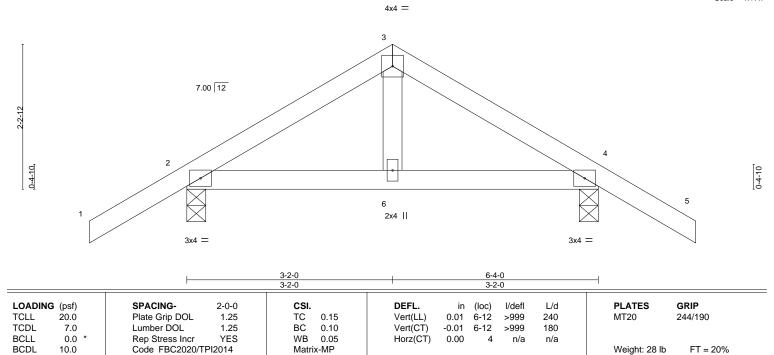
Vert: 1-3=-54, 3-5=-54, 1-5=-20

Concentrated Loads (lb)

Vert: 13=-2585(B) 14=-1249(B) 15=-1249(B) 16=-1251(B) 17=-1251(B) 18=-1226(B) 19=-1285(B)

AMIRA BLDRS. - DELOACH RES. Job Truss Truss Type Qty Ply T24168242 2809544 T13 2 Common Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:45:11 2021 Page 1 ID:amOAUKkav?6JdbyPKE2WNezBhuh-lukmhocUD1mHE6wpYGCudbRsGjvC1\_eD5IVjhtzBfts -1-6-0 3-2-0 3-2-0 7-10-0 1-6-0 1-6-0

Scale = 1:17.7



LUMBER-

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

BRACING-

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

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 4=0-3-8

Max Horz 2=-60(LC 10)

Max Uplift 2=-82(LC 12), 4=-82(LC 13) Max Grav 2=315(LC 1), 4=315(LC 1)

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

TOP CHORD 2-3=-243/328, 3-4=-243/328

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 3-2-0, Exterior(2R) 3-2-0 to 5-10-15, Interior(1) 5-10-15 to 7-10-0 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
- 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) 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) 2, 4.



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

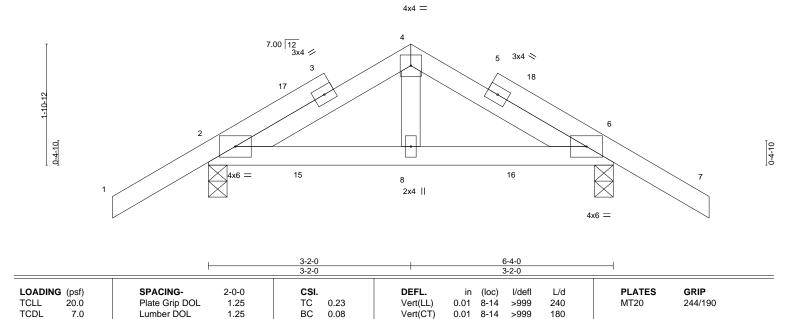
June 2,2021



Job Truss Truss Type Qty Ply AMIRA BLDRS. - DELOACH RES. T24168243 2809544 T13G KINGPOST Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:45:12 2021 Page 1 ID:amOAUKkav?6JdbyPKE2WNezBhuh-D4I8u8d6\_Lu8rGV?5\_j7Ao\_0e6FjmR?NKyEGDJzBftr 7-10-0

Scale = 1:18.0

1-6-0



Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

6

n/a

n/a

Rigid ceiling directly applied or 10-0-0 oc bracing.

Structural wood sheathing directly applied or 6-0-0 oc purlins.

LUMBER-

REACTIONS.

**BCLL** 

BCDL

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

0.0

10.0

(size) 2=0-3-8, 6=0-3-8

Max Horz 2=53(LC 11) Max Uplift 2=-85(LC 12), 6=-85(LC 13) Max Grav 2=312(LC 1), 6=312(LC 1)

Rep Stress Incr

Code FBC2020/TPI2014

1-6-0

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

TOP CHORD 2-4=-215/359, 4-6=-215/360

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 3-2-0, Corner(3R) 3-2-0 to 6-2-4, Exterior(2N) 6-2-4 to 7-10-0 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

WB

Matrix-MP

0.04

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

YES

- 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) 2, 6.



Weight: 33 lb

FT = 20%

6904 Parke East Blvd. Tampa FL 33610 Date:

June 2,2021

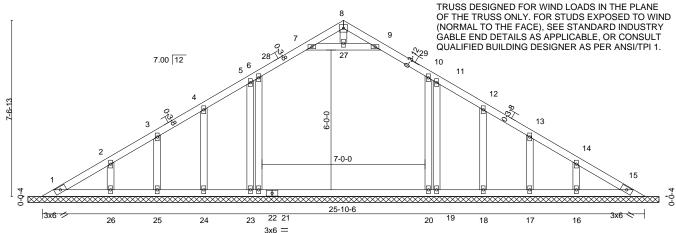
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Job Truss Truss Type Qty Ply AMIRA BLDRS. - DELOACH RES. T24168244 2809544 V01 **GABLE** Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:45:13 2021 Page 1 ID:amOAUKkav?6JdbyPKE2WNezBhuh-hGsX5Uekle0?TQ4CfhEMi0WDTWVoVteWZc\_pmmzBftq 27-1-3 13-6-10 13-6-10 13-6-10 Scale = 1:49.5 4x4 = TRUSS DESIGNED FOR WIND LOADS IN THE PLANE



27-1-3 LOADING (psf) SPACING-2-0-0 CSL DEFL. in (loc) I/defI I/d PLATES GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.10 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 вс 0.48 Vert(CT) n/a n/a 999 WB 0.08 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.01 15 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-S Weight: 137 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

27-1-3

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 \*Except\* 15-21: 2x4 SP M 31

WFBS 2x4 SP No.3 **OTHERS** 2x4 SP No.3

REACTIONS. All bearings 27-1-3.

(lb) -Max Horz 1=-160(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 15, 24, 25, 26, 18, 17, 16 except 23=-646(LC 18),

19=-759(LC 18)

Max Grav All reactions 250 lb or less at joint(s) 1, 15, 24, 25, 26, 18, 17, 16 except 22=942(LC 18),

20=1062(LC 18)

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

TOP CHORD  $1\hbox{-}2\hbox{--}269/56, 2\hbox{-}3\hbox{--}265/50, 3\hbox{-}4\hbox{--}253/67, 6\hbox{-}7\hbox{--}267/121, 9\hbox{-}10\hbox{--}267/120, 12\hbox{-}13\hbox{--}253/57, }$ 

13-14=-255/35, 14-15=-258/41

### NOTES-

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

- 2) 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) 1-1-7 to 4-1-7, Interior(1) 4-1-7 to 13-6-10, Exterior(2R) 13-6-10 to 16-6-10, Interior(1) 16-6-10 to 25-11-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 15, 24, 25, 26, 18, 17, 16 except (jt=lb) 23=646, 19=759.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

6904 Parke East Blvd. Tampa FL 33610 Date:

June 2,2021

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Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:45:14 2021 Page 1 ID:amOAUKkav?6JdbyPKE2WNezBhuh-ATQvJqeMWy8s5afODOlbFD3NEwwoEJ8gnGjNlCzBftp 7-6-10 11-6-10 15-6-10 19-6-10 23-1-3 3-6-10 3-6-10 4-0-0 4-0-0 4-0-0 4-0-0 Scale = 1:43.4 4x4 =4 15 7.00 12 3 6 0-0-4 3x6 <> 3x6 / 13 12 11 10 9 8 3x6 = 3-6-10 7-6-10 15-6-10 19-6-10 23-1-3 3-6-10 3-6-3 8-0-0 4-0-0 4-0-0 LOADING (psf) **PLATES** SPACING-2-0-0 CSL **DEFL** in (loc) I/defI I/d GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.16 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 вс 0.17 Vert(CT) n/a n/a 999 WB 0.13 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-S Weight: 97 lb FT = 20%

Qty

Ply

AMIRA BLDRS. - DELOACH RES.

T24168245

LUMBER-

Job

2809544

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 **OTHERS** 

BRACING-

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

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 23-0-5.

Max Horz 1=141(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 11=-140(LC 12), 13=-120(LC 12), 9=-139(LC 13),

8=-120(LC 13)

Truss

V02

Truss Type

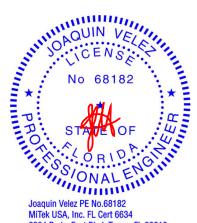
Valley

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=362(LC 19), 11=415(LC 19), 13=347(LC 19), 9=415(LC 20), 8=347(LC 20)

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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) 0-6-8 to 3-6-10, Interior(1) 3-6-10 to 11-6-10, Exterior(2R) 11-6-10 to 14-6-10, Interior(1) 14-6-10 to 22-6-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 11=140, 13=120, 9=139, 8=120.



6904 Parke East Blvd. Tampa FL 33610 Date:

June 2,2021

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2809544	V03	Valley	1	1     Job Reference (opti	onal)	
Builders FirstSource (Jacks	onville, FL), Jacksonville,	FL - 32244,	8.4		stries, Inc. Sat May 29 10:45:15 2021 Pag	 ge 1
			ID:amOAUKkav?6Jdl	byPKE2WNezBhuh-ef_HWAf_	HGGjikEan6HqnRbWlKFcznGp0wTwqezB	
-	5-6-10 5-6-10	9-6-10 4-0-0	13-6-1	0	19-1-3 5-6-10	
	5-6-10	4-0-0	4-0-0	•	5-6-10	
			4x4 =		Scale	= 1:35.9
5-6-14	7.00 12	2x4    11	3	12 2x4    4	13	
_ {					***************************************	
3x6 //		9 8 2x4    3x6 =	7 2x4	14 6 2x4	3×6 ⊱	
0- <b>0-7</b> 0-0-7	5-6-10 5-6-3		13-6-10 8-0-0	-	19-1-3 5-6-10	
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING-         2-0-           Plate Grip DOL         1.2           Lumber DOL         1.2           Rep Stress Incr         YES           Code FBC2020/TPI2014	5 TC 0.27 5 BC 0.20 S WB 0.08	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	- n/a 999 - n/a 999	PLATES GRIP MT20 244/190  Weight: 75 lb FT = 20%	
					1 20,0	

**BRACING-**

TOP CHORD

**BOT CHORD** 

Qty

Ply

AMIRA BLDRS. - DELOACH RES.

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

T24168246

REACTIONS. All bearings 19-0-5.

2x4 SP No.2

2x4 SP No.2

2x4 SP No.3

Max Horz 1=-116(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-178(LC 12), 6=-178(LC 13)

Truss Type

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=297(LC 19), 9=512(LC 19), 6=512(LC 20)

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

**WEBS** 2-9=-308/201, 4-6=-308/200

### NOTES-

LUMBER-

**OTHERS** 

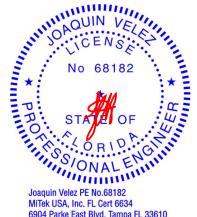
TOP CHORD

**BOT CHORD** 

Job

Truss

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 9-6-10, Exterior(2R) 9-6-10 to 12-6-10, Interior(1) 12-6-10 to 18-6-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 requires continuous bottom chord bearing.
- 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=178, 6=178.



6904 Parke East Blvd. Tampa FL 33610 Date:

June 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

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



2009544	V04	Valley		Job Reference (option	nal)
Builders FirstSource (Jacks	onville, FL), Jacksonville,	FL - 32244,		130 s May 12 2021 MiTek Indust	ries, Inc. Sat May 29 10:45:16 2021 Page 1
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U-U-7	3-6-3		8-0-0		3-0-10
LOADING (psf)	SPACING- 2-0-	o CSI.	DEFL. in	(loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.2		Vert(LL) n/a		MT20 244/190
TCDL 7.0	Lumber DOL 1.2		Vert(CT) n/a		
BCLL 0.0 *	Rep Stress Incr YES		Horz(CT) 0.00	5 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S			Weight: 57 lb FT = 20%

Qty

LUMBER-

Job

Truss

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **OTHERS** 

**BRACING-**

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

AMIRA BLDRS. - DELOACH RES.

T24168247

REACTIONS. All bearings 15-0-5.

Max Horz 1=-90(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-136(LC 12), 6=-136(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=315(LC 19), 6=315(LC 20)

Truss Type

\ /-II-.

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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) 0-6-8 to 3-6-10, Interior(1) 3-6-10 to 7-6-10, Exterior(2R) 7-6-10 to 10-6-10, Interior(1) 10-6-10 to 14-6-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 requires continuous bottom chord bearing.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=136, 6=136.



6904 Parke East Blvd. Tampa FL 33610 Date:

June 2,2021



Job Truss Truss Type Qty Ply AMIRA BLDRS. - DELOACH RES. T24168248 2809544 V05 Valley Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:45:17 2021 Page 1 ID:amOAUKkav?6JdbyPKE2WNezBhuh-a151xrhEotWRy2NzuXJltshsK7wORi16TEy1vXzBftm 5-6-10 11-1-3 5-6-10 5-6-10 Scale = 1:21.1 4x6 =2 7.00 12 3x6 / 3x6 <> 2x4 II 11-0-12 11-0-12 CSI. GRIP LOADING (psf) SPACING-2-0-0 DEFL. in (loc) I/defI I/d **PLATES TCLL** 20.0 Plate Grip DOL 1.25 TC 0.30 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 вс 0.24 Vert(CT) n/a n/a 999 WB 0.06 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a Code FBC2020/TPI2014 Weight: 38 lb BCDL 10.0 Matrix-S FT = 20% LUMBER-BRACING-

TOP CHORD

BOT CHORD

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 **OTHERS** 

(size) 1=11-0-5, 3=11-0-5, 4=11-0-5

Max Horz 1=-64(LC 8)

Max Uplift 1=-48(LC 12), 3=-56(LC 13), 4=-55(LC 12) Max Grav 1=175(LC 1), 3=175(LC 1), 4=392(LC 1)

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 5-6-10, Exterior(2R) 5-6-10 to 8-6-10, Interior(1) 8-6-10 to 10-6-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 requires continuous bottom chord bearing.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Date:

June 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

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 Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:45:18 2021 Page 1 ID:amOAUKkav?6JdbyPKE2WNezBhuh-2EfQ9BhtZAeHZBy9SEqXP3D4EXI3A9kFiuhaRzzBftl 3-6-10 3-6-10 Scale = 1:14.9 4x4 = 2 7.00 12 3 9-0-0 0-0-4 2x4 < 2x4 / 2x4 | 0-0-7 7-1-3 7-0-12 GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES TCLL** 20.0 Plate Grip DOL 1.25 TC 0.10 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 вс 0.09 Vert(CT) n/a n/a 999 WB 0.03 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 3 n/a n/a Code FBC2020/TPI2014 Weight: 23 lb BCDL 10.0 Matrix-S FT = 20% LUMBER-

Qty

Ply

TOP CHORD

Job

2809544

2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 **OTHERS** 

BRACING-

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

Rigid ceiling directly applied or 10-0-0 oc bracing.

AMIRA BLDRS. - DELOACH RES.

T24168249

REACTIONS. (size) 1=7-0-5, 3=7-0-5, 4=7-0-5

Truss

V06

Truss Type

Valley

Max Horz 1=39(LC 11)

Max Uplift 1=-29(LC 12), 3=-34(LC 13), 4=-33(LC 12) Max Grav 1=105(LC 1), 3=105(LC 1), 4=235(LC 1)

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 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 requires continuous bottom chord bearing.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



6904 Parke East Blvd. Tampa FL 33610 Date:

June 2,2021

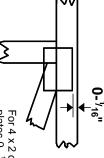


### Symbols

# 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- <sup>1</sup>/16" from outside edge of truss.

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

\* Plate location details available in MiTek 20/20 software or upon request.

### PLATE SIZE

4 × 4

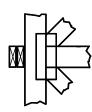
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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**



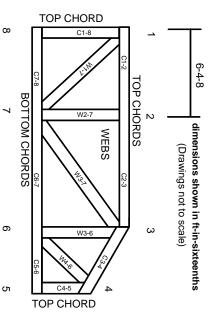
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

# **Numbering System**



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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

# **General Safety Notes**

# Failure to Follow Could Cause Property Damage or Personal Injury

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

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21.The design does not take into account any dynamic or other loads other than those expressly stated.