

Detail Name

MII-VALLEY SP MII-VALLEY SP

MII-GE146-001

MII-STRGBCK

MII-REP13B



RE: 2718981 - DETAILS

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

Site Information:

Customer Info: DETAILS Project Name: N/A Model: N/A Lot/Block: N/A Subdivision: N/A

Address: N/A, N/A

State: N/A

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

Name: License #:

Address:

City: N/A

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 20 individual, General Truss Details and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

> Seal# T23399820

T23399821 T23399822

T23399823

T23399824 T23399825

No.

15

16

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19 20

No.	Seal#	Detail Name	Date
1	T23399806	MII-REP10	4/2/21
2	T23399807	MII-T-BRACE 2	4/2/21
3	T23399808	MII-SCAB-BRACE	4/2/21
4 5 6	T23399809	MII-REP05	4/2/21
5	T23399810	MII-GE130-D-SP	4/2/21
6	T23399811	MII-GE130-SP	4/2/21
7	T23399812	MII-GE140-001	4/2/21
8	T23399813	MII-GE170-D-SP	4/2/21
9	T23399814	MII-GE180-D-SP	4/2/21
10	T23399815	MII-GE180-D-SP	4/2/21
11	T23399816	MII-PIGGY-ALT-7-16	4/2/21
12	T23399817	MII-REP01A1	4/2/21
13	T23399818	MII-TOENAIL_SP	4/2/21
14	T23399819	MII-VALLEY HIGH WIND1	4/2/21

Date MII-VALLEY HIGH WIND2 4/2/21 4/2/21 4/2/ 4/2/ for Code

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

Truss Design Engineer's Name: ORegan, Philip

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

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



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



RE: \$JOBNAME - \$JOBDESC

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

Site Information:

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

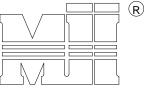
City: \$SI_SITECITY State: \$SI_SITESTATE OCTOBER 28, 2016

STANDARD REPAIR FOR ADDING A FALSE BOTTOM CHORD

MII-REP10 T23399806

MiTek USA, Inc.

Page 1 of 1



MAIN TRUSS MANUFACTURED WITHOUT FALSE BOTTOM CHORD.

MAIN TRUSS (SPACING = 24" O.C.)

MiTek USA, Inc. REFER TO THE BOTTOM CHORD BRACING SECTION OF THE INDIVIDUAL TRUSS DESIGN FOR MAXIMUM SPACING OF CONTINUOUS LATERAL BRACING WHENEVER RIGID CEILING MATERIAL IS NOT DIRECTLY ATTACHED TO THE VERTICAL STUDS @ 48" O.C.. ATTACHED BOTTOM CHORD. WITH (3) - 10d (0.131" X 3") NAILS AT EACH END OF VERTICAL (TYP.). VERTICAL STUDS TO BE 2 x 4 STUD GRADE (OR BETTER) SPF, HF, DF OR SP. (BOARD SIZÉ SPECIFIED IS MINIMUM, LARGER SIZE MAY BE USED) 2 x 4 NO. 2 (OR BETTER) SPF, HF DF OR SP FALSE BOTTOM CHORD (BOARD SIZE SPECIFIED IS MINIMUM, LARGER SIZE MAY BE USED) **FALSE BOTTOM** TRUSS SPAN

NOTES:

- 1. LOADING: TOP CHORD: (REFER TO THE MAIN TRUSS DESIGN FOR TOP CHORD LOADING). BOTTOM CHORD: LL = 0 PSF, DL = 10 PSF.
- 2. REFER TO THE MAIN TRUSS DESIGN FOR LUMBER AND PLATING REQUIREMENTS.
- 3. MAXIMUM BOTTOM CHORD PITCH = 6/12.
- 4. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.
- 5. FALSE BOTTOM CHORD ONLY DESIGNED TO CARRY VERTICAL LOAD. NO LATERAL (SHEAR) LOAD ALLOWED.
- 6. FILLER MAY EXTEND FOR FULL LENGTH OF TRUSS.

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

MII-T-BRACE 2 T23399807

MiTek USA, Inc.

Page 1 of 1



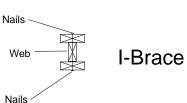
Note: T-Bracing / I-Bracing to be used when continuous lateral bracing is impractical. T-Brace / I-Brace must cover 90% of web length.

Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

Nailing Pattern							
T-Brace size	Nail Size	Nail Spacing					
2x4 or 2x6 or 2x8	10d (0.131" X 3")	6" o.c.					

Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)

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



	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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April 2,2021

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

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

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

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



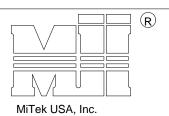
6904 Parke East Blvd. Tampa, FL 36610

SCAB-BRACE DETAIL

MII-SCAB-BRACE T23399808

MiTek USA, Inc.

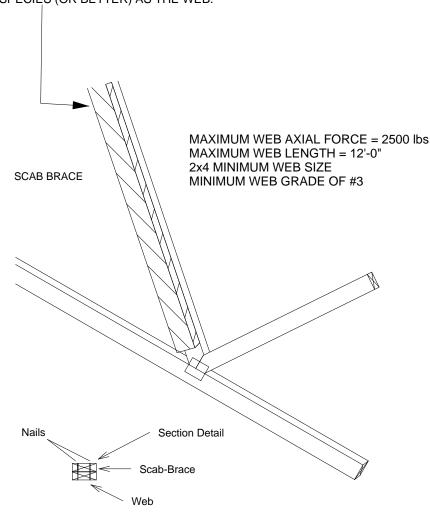
Page 1 of 1



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.



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

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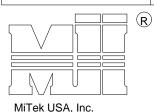
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STANDARD REPAIR TO REMOVE END **VERTICAL (RIBBON NOTCH VERTICAL)**

MII-REP05 T23399809

MiTek USA, Inc. Page 1 of 1

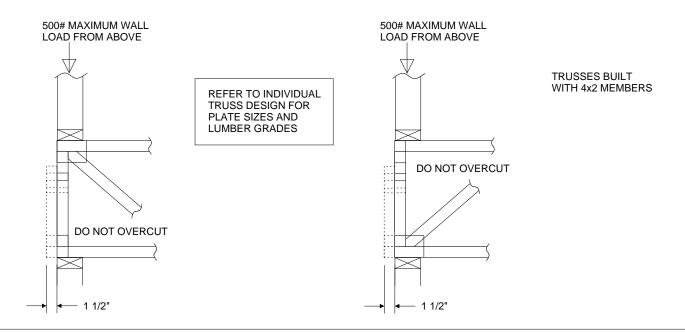


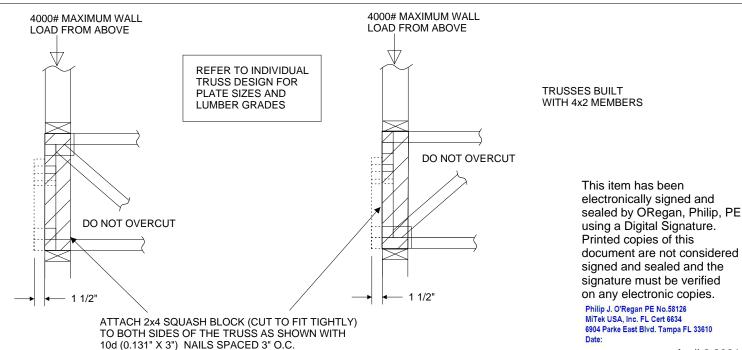
- 1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
- 2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE
- APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.

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

 4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.

 5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 4X_ ORIENTATION ONLY.
- 6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.





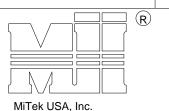


Standard Gable End Detail

MII-GE130-D-SP T23399810

Page 1 of 2

MiTek USA. Inc.



Typical _x4 L-Brace Nailed To 2x_ Verticals W/10d Nails spaced 6" o.c. Vertical Stud SECTION B-B

DIAGONAL BRACE 4'-0" O.C. MAX TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY. 12 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

Vertical Stud DIAGONAL (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.

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

Roof Sheathing

24" Max

if needed

End Wall

1'-3" (2) - 10d/ Max. **NAILS** (2) - 10d NAILS

2x6 DIAGONAL BRACE SPACED 48" O.C. Diag. Brace ATTACHED TO VERTICAL WITH (4) -16d at 1/3 points NAILS AND ATTACHED

TO BLOCKING WITH (5) - 10d NAILS.

HORIZONTAL BRACE (SEE 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.
- 8. 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	illout 174 E74		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 7-10, ASCE 7-10 130 MPH

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.

DURANION OF COAD INCREASE LIFE AS OF READ NOT CONNECTION OF BRACTING IS BASED ON MY FIRST. 519/2020 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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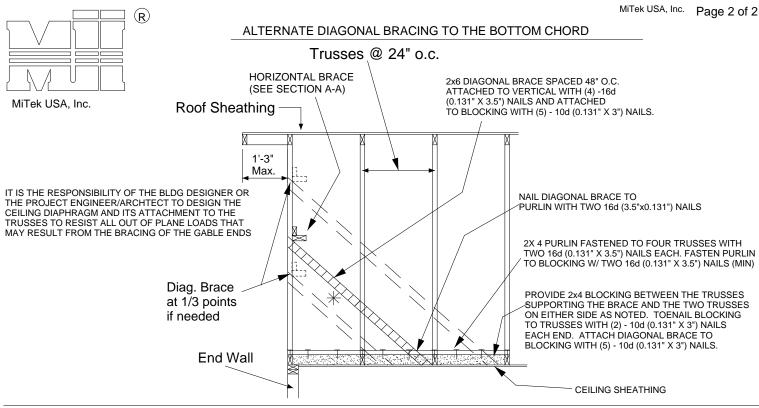
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Trusses @ 24" o.c.

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

Standard Gable End Detail

MII-SHEET 2 T23399810



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED:

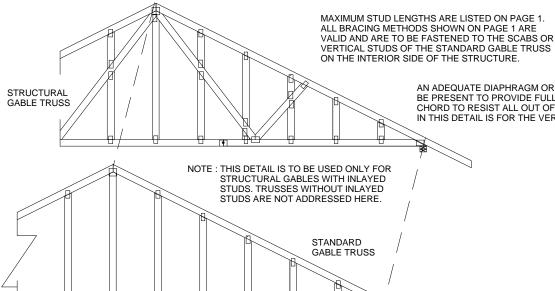
METHOD 1: ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE

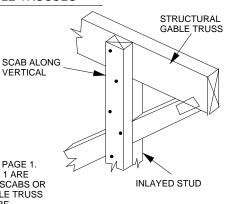
FOLLOWING NAILING SCHEDULE.

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

NAILING SCHEDULE:

EING SCHEDEL:
- FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL
- MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C.
- FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL
- MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)





AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

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April 2,2021

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Standard Gable End Detail

MII-GE130-SP

Page 1 of 2

(2) - 10d NAILS

Trusses @ 24" o.c.



24" Max



Typical _x4 L-Brace Nailed To 2x_ Verticals W/10d Nails spaced 6" o.c. Vertical Stud SECTION B-B

DIAGONAL BRACE TRUSS GEOMETRY AND CONDITIONS 4'-0" O.C. MAX SHOWN ARE FOR ILLUSTRATION ONLY. 12 Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA 3x4 =

- L-Bracing Refer

to Section B-B

Vertical Stud DIAGONAL (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.

(4) - 8d (0.131" X2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing

1'-3" (2) - 10d/ Max. **NAILS**

2x6 DIAGONAL BRACE SPACED 48" O.C. Diag. Brace ATTACHED TO VERTICAL WITH (4) -16d at 1/3 points NAILS AND ATTACHED

TO BLOCKING WITH (5) - 10d NAILS. if needed

HORIZONTAL BRACE **End Wall** (SEE SECTION A-A)

NOTE:

- Diagonal Bracing

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 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.
- 8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
 9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
- 10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
- 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 L-Brace L-Brace		2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS	
and Grade			Maximur	n Stud Ler	ngth		
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.

ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH

ASCE 7-36, ASCE 7-20 ISO MPH

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.

DURANION OF GABUNGREASE 1914.60 READ NOT CONNECTION OF BRACTINGRS BASED ON MWFRS. 5/19/2020 BEFORE USE.

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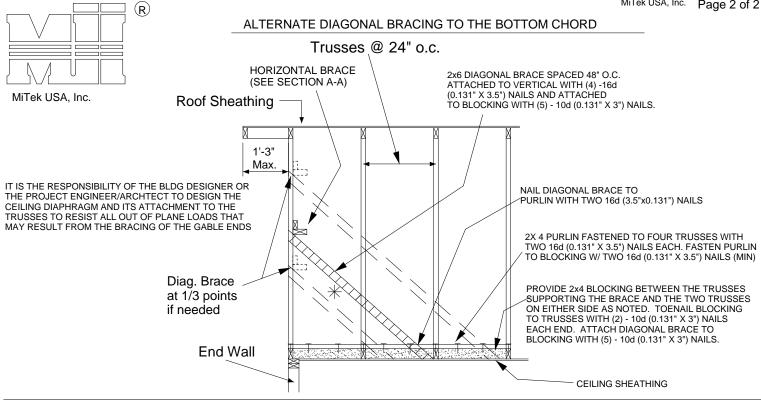
signature must be verified

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MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C

MiTek USA, Inc. Page 2 of 2



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED: METHOD 1 : ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE

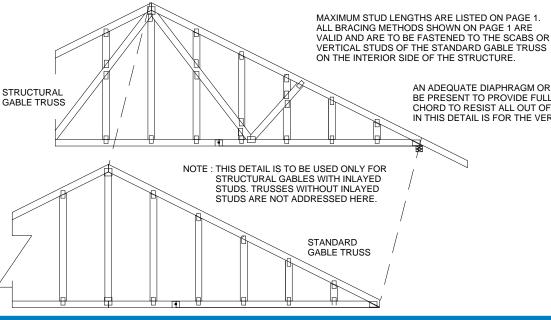
FOLLOWING NAILING SCHEDULE.

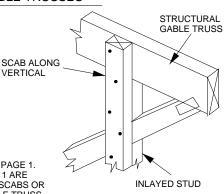
METHOD 2: ATTACH 2X _ SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

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

- FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, Ó2, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)





AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

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

April 2,2021

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

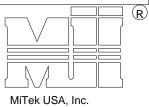
JANUARY 6, 2017

Standard Gable End Detail

MII-GE140-001 T23399812

Page 1 of 2

MiTek USA, Inc.



DIAGONAL BRACE

Typical _x4 L-Brace Nailed To 2x_ Verticals W/10d Nails spaced 6" o.c. Vertical Stud SECTION B-B

Vertical Stud DIAGONAL (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY. Typical Horizontal Brace Nailed To 2x_ Verticals w/(4)-10d Nails **SECTION A-A** 2x4 Stud

4'-0" O.C. MAX 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

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

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST

Roof Sheathing -

- 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.
- "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. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

	1 tool Ollowill	9			/	
0.4" 1.4		.,	<u> </u>		×	
24" Max	M					//
	1'-3" Max.	(2) - NAII	10d LS			(2) - 10d NAILS
			*/	/ /	russes	s @ 24" o.c.
at 1	g. Brace /3 points eeded		ATTAC NAILS	CHED TO V AND ATTA	/ERTICAL	ACED 48" O.C. WITH (4) -16d Od NAILS.
	End Wall	\		_	ZONTAL E SECTION	-
	_	1 1				

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			Maximur	n Stud Ler	ngth	
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

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

April 2,2021

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

DURANON-OFIGOAD/INGREASE::pt.6:0 REAP GONNECTION IOFISBASED ON COMPONENTS AND CLADDING.

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

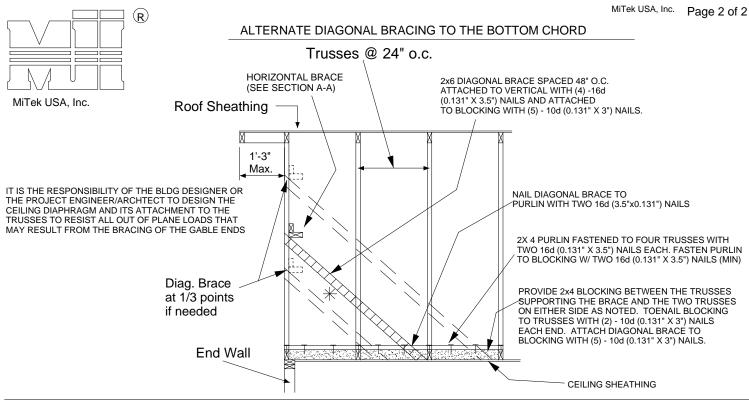
ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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

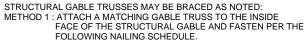


Standard Gable End Detail

MII-SHEET 2 T23399812



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES



METHOD 2 : ATTACH 2X _ SCABS TO THE FACE OF EACH VERTICAL

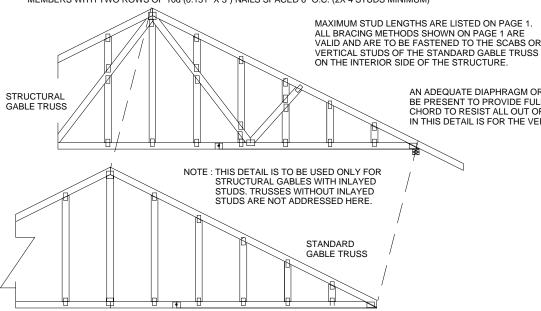
MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING

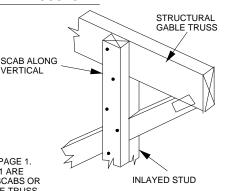
NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

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

MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAÎLS SPACED 6" O.C. (2X 4 STÚDS MINIMUM)





AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

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





Standard Gable End Detail

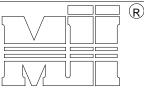
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MII-GE170-D-SP T23399813

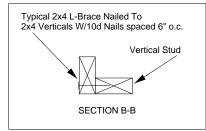




Page 1 of 2



MiTek USA, Inc.



TRUSS GEOMETRY AND CONDITIONS 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

DIAGONAL BRACE

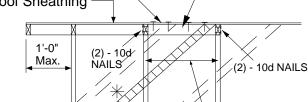
4'-0" O.C. MAX

Vertical Stud 2X6 SP OR SPF No. 2 DIAGONAL BRACE (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2X6 SP OR SPF No. 2 Typical Horizontal Brace Nailed To 2x4 Verticals w/(4)-10d Nails SECTION A-A 2X4 SP OR SPF No. 2

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

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

Roof Sheathing 24" Max



Diag. Brace at 1/3 points if needed

End Wall

2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d NAILS, AND ATTACHED TO BLOCKING WITH (5) -10d NAILS.

∕Trusses @ 24" o.c.

HORIZONTAL BRACE (SEE 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.
- "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3 OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF
- DIAPHRAM AT 4'-0" O.C.
- 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
- 7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
- 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.
- 11. 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 2x4 DIAGONAL Brace L-Brace BRACE		L-Brace BRACE					
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 l-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.

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

April 2,2021

MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D

DURATION OF LOAD INCREASE: 1.60
WARNING - Verify design parameters and READ NOTE CONNECTION OF BRACING IS BASED ON MAYERS: 5/19/2020 BEFORE USE

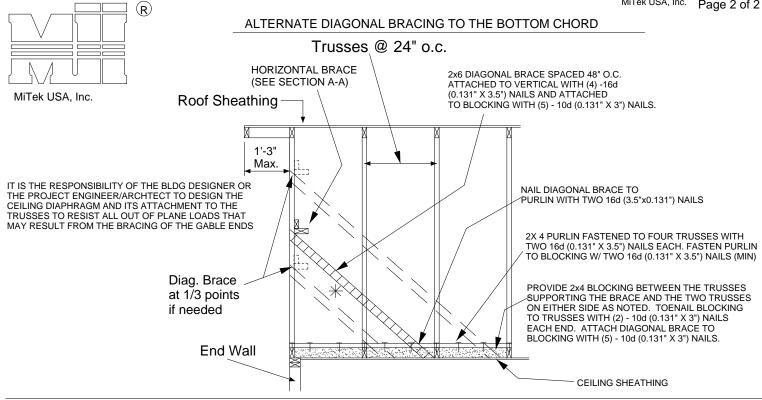
Design valid for use only with MITek® connectors. This design is based only upon parameters and roperly incorporate this design in the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated 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

TUD DESIGN IS BASED ON COMPONENTS



MiTek USA, Inc. Page 2 of 2



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED:

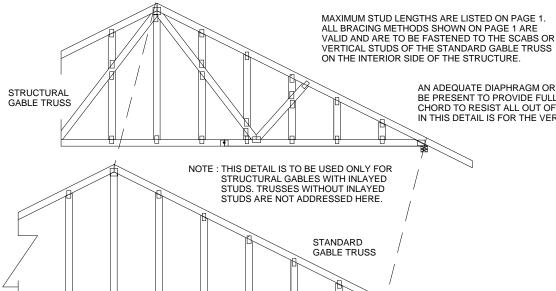
METHOD 1: ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE

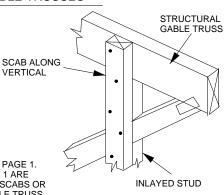
FOLLOWING NAILING SCHEDULE.

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

NAILING SCHEDULE:

EING SCHEDEL:
- FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL
- MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C.
- FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL
- MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)





AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

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April 2,2021

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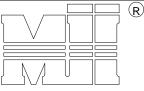


Standard Gable End Detail

MII-GE180-D-SP T23399814



Page 1 of 2



DIAGONAL BRACE

4'-0" O.C. MAX

MiTek USA, Inc.

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

Vertical Stud

SECTION B-B

TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

Varies to Common Truss

Ė

**

SEE INDIVIDUAL MITEK ENGINEERING

24" Max

End Wall

DRAWINGS FOR DESIGN CRITERIA

3x4 =

Vertical Stud

(4) - 16d Nails

2X6 SP OR SPF No. 2
DIAGONAL BRACE

16d Nails
Spaced 6" o.c.

2X6 SP OR SPF No. 2
Typical Horizontal Brace
Nailed To 2x4 Verticals
w/(4)-10d Nails

SECTION A-A

2X4 SP OR SPF No. 2

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.

★ - Diagonal Bracing Refer to Section A-A

★★ - L-Bracing Refer to Section B-B

NOTE:

- 1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
- 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
- 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY, CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
- "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
- 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
- 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
- 7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
- 8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
- 9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
- 10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
- 11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

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 St	ud 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.

Roof Sheathing

1'-0"

Max.

(2) - 10d

NAILS

(2) - 10d NAILS

(2) - 10d NAILS

(2) - 10d NAILS

2x6 DIAGONAL BRACE SPACED
48" O.C. ATTACHED TO VERTICAL WITH
(4) -16d NAILS, AND ATTACHED TO
BLOCKING WITH (5) -10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD

SHEATHING TO 2x4 STD SPF BLOCK

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HORIZONTAL BRACE

(SEE SECTION A-A)

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

April 2,2021

MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D

ASCE 7-10, ASCE 7-16 180 MPH

DURATION ARIJE CAPY INCREASE: 13 AR READ NOTES CONNECTION OF BRACING IS BASED ON INVISES. 5/19/2020 BEFORE USE

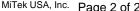
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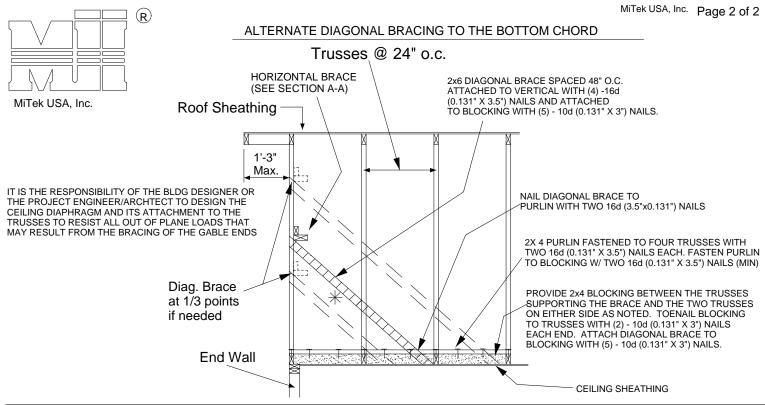


6904 Parke East Blvd Tampa, FL 36610

Standard Gable End Detail

MII-SHEET 2 T23399814





BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

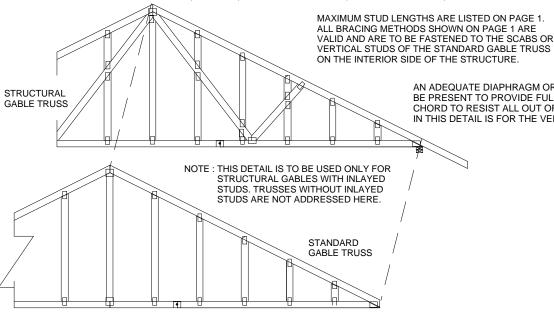
STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED: METHOD 1 : ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE FOLLOWING NAILING SCHEDULE.

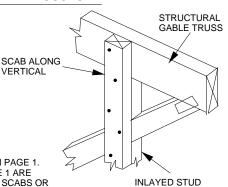
METHOD 2: ATTACH 2X _ SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE

AND SPECIES AS THE TRUSS VERTICALS NAILING SCHEDULE:

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

MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)





AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

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

April 2,2021

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MiTek USA, Inc.

STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-7-16 T23399815

MiTek USA, Inc. Page 1 of 1

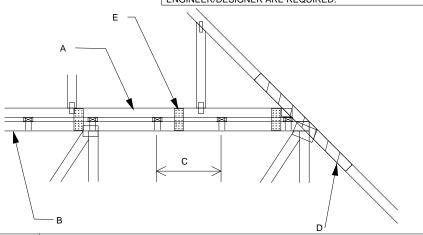
(R)

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C **ENCLOSED BUILDING** LOADING = 5 PSF TCDL ASCE 7-10, ASCE 7-16 **DURATION OF LOAD INCREASE: 1.60**

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

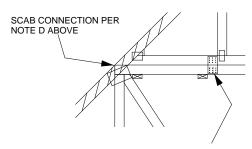
- A PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
- A PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
 SHALL BE CONNECTED TO EACH PURLIN
 WITH (2) (0.131" X 3.5") TOE-NAILED.
 B BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
 C PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
 UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.
- 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 180 MPH WITH A MAXIMUM
- PIGGYBACK SPAN OF 12 ft.
 FOR WIND SPEEDS BETWEEN 116 AND 180 MPH, ATTACH
 MITEK NP37 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72" O.C. W/ (4) (0.131" X 1.5") NAILS PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" NAIL EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)

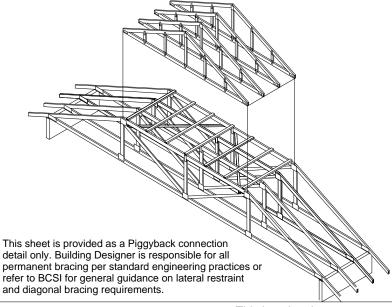


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

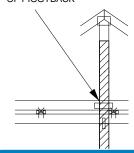
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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



VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



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
- 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.
- 4) FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS,
 NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
 5) CONCENTRATED LOAD MUST BE APPLIED TO BOTH

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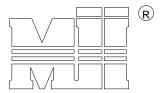


JANUARY 8, 2019

STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-ALT-7-16 T23399816

Page 1 of 1 MiTek USA, Inc.



MiTek USA, Inc.

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C ENCLOSED BUILDING LOADING = 5 PSF TCDL MINIMUM

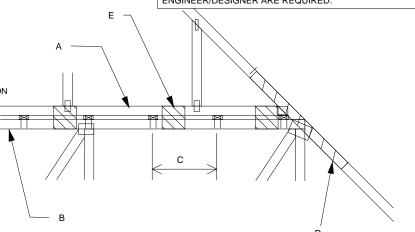
ASCE 7-10, ASCE 7-16 **DURATION OF LOAD INCREASE: 1.60**

DETAIL IS NOT APPLICABLE FOR TRUSSES 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.

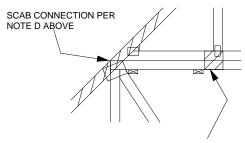
 BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
 - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
 UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.

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

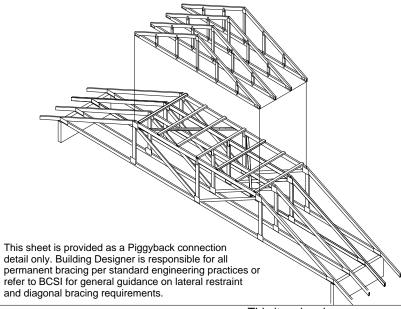


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

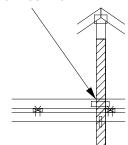
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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 (TOTAL - 12 NAILS)



VERTICAL WEB TO EXTEND THROUGH **BOTTOM CHORD** OF PIGGYBACK



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

- 1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL
- 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 ATTACH 2 x 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.
 4) FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
- 5) CONCENTRATED LOAD MUST BE APPLIED TO BOTH

IE PIGGYBACK AND THE BASE TRUSS DESIGN

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April 2,2021

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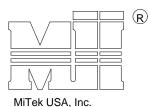


STANDARD REPAIR DETAIL FOR BROKEN CHORDS, WEBS AND DAMAGED OR MISSING CHORD SPLICE PLATES

MII-REP01A1 T23399817

MiTek USA, Inc.

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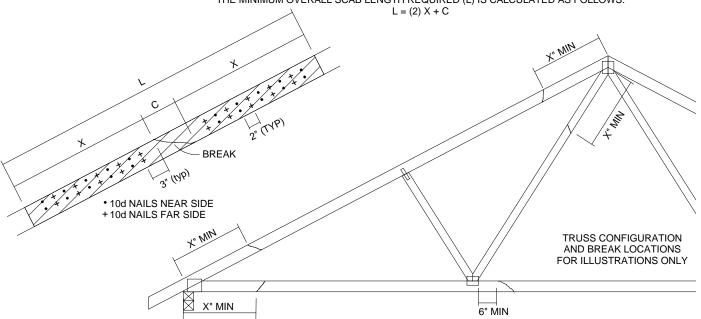


TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *		MAXIMUM FORCE (lbs) 15% LOAD DURATION								
		X INCHES	SP		DF		SPF		HF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187
38	57	42"	3169	4754	2900	4350	2451	3677	2511	3767
44	66	48"	3657	5485	3346	5019	2829	4243	2898	4347

^{*} DIVIDE EQUALLY FRONT AND BACK

ATTACH 2x_ SCAB OF THE SAME SIZE AND GRADE AS THE BROKEN MEMBER TO EACH FACE OF THE TRUSS (CENTER ON BREAK OR SPLICE) WITH 10d (0.131" X 3") NAILS (TWO ROWS FOR 2x4, THREE ROWS FOR 2x6) SPACED 4" O.C. AS SHOWN. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 0-2-0 O.C. SPACING IN THE MAIN MEMBER. USE A MIN. 0-3-0 MEMBER END DISTANCE.

THE LENGTH OF THE BREAK (C) SHALL NOT EXCEED 12". (C=PLATE LENGTH FOR SPLICE REPAIRS) THE MINIMUM OVERALL SCAB LENGTH REQUIRED (L) IS CALCULATED AS FOLLOWS:



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.
- 2. 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.
- 6. THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.

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LATERAL TOE-NAIL DETAIL

MII-TOENAIL SP T23399818

MiTek USA. Inc.

Page 1 of 1



NOTES:

- TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.
- 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

> VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

> > SIDE VIEW (2x3) 2 NAILS

> > > NEAR SIDE NEAR SIDE

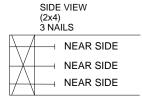
	TOE-NAIL SINGLE SHEAR VALUES PER NDS 2018 (lb/nail)											
	DIAM. SP DF HF SPF SPF-S											
9	.131	88.0	80.6	69.9	68.4	59.7						
LONG	.135	93.5	85.6	74.2	72.6	63.4						
.5" L	.162	108.8	99.6	86.4	84.5 73.8							
ω,												
ā	.128	74.2	67.9	58.9	57.6	50.3						
LONG	.131	75.9	69.5	60.3	59.0	51.1						
3.25"	.148	81.4	64.6	63.2	52.5							
3.2				•								

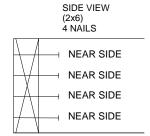
VALUES SHOWN ARE CAPACITY PER TOE-NAIL APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

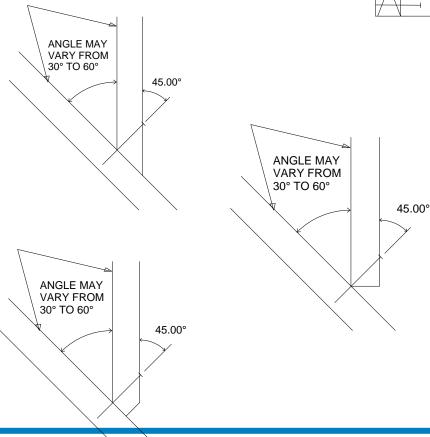
(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD

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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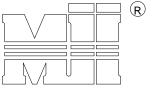


TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1 T23399819

MiTek USA, Inc.

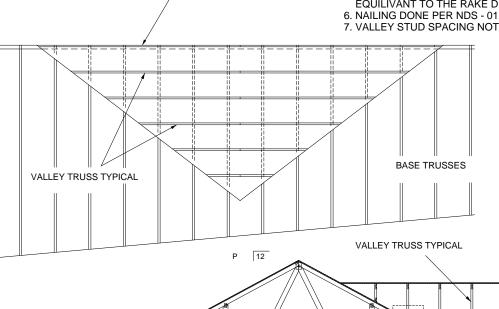
Page 1 of 1



MiTek USA, Inc.

GENERAL SPECIFICATIONS

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



GABLE END, COMMON TRUSS

OR GIRDER TRUSS

GABLE END, COMMON TRUSS OR GIRDER TRUSS

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

ON THE TRUSSES

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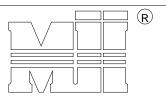
MiTek USA, Inc.

TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND2 T23399820

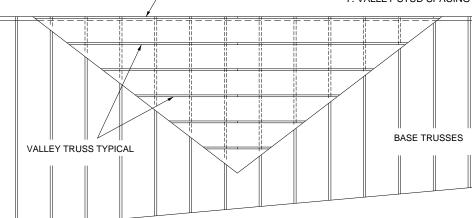
MiTek USA, Inc.

Page 1 of 1



GENERAL SPECIFICATIONS

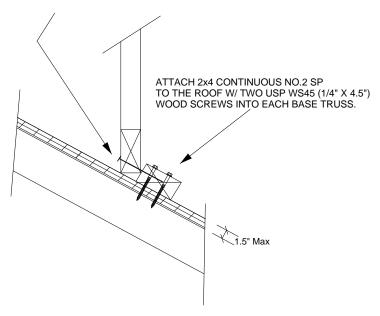
- 1. NAIL SIZE 10d (0.131" X 3")
- 2. WOOD SCREW = 4.5" WS45 USP OR EQUILIVANT
- 3. INSTALL SHEATHING TO TOP CHORD OF BASE TRUSSES.
- INSTALL SHEATING TO TOP CHORD OF BASE TRUS
 INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND
 SECURE TO BASE TRUSSES AS PER DETAIL A
 BRACE VALLEY WEBS IN ACCORDANCE WITH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



GABLE END, COMMON TRUSS OR GIRDER TRUSS

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

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

April 2,2021



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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

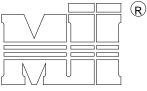


TRUSSED VALLEY SET DETAIL

MII-VALLEY SP T23399821

MiTek USA, Inc.

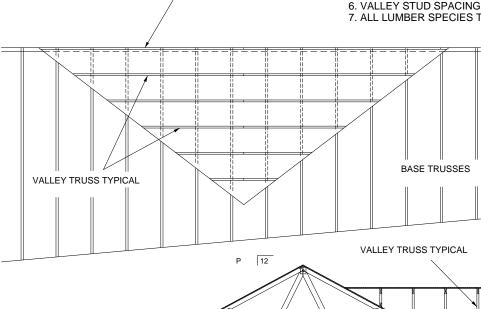
Page 1 of 1



MiTek USA, Inc.

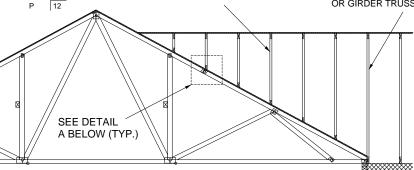
GENERAL SPECIFICATIONS

- 1. NAIL SIZE 16d (0.131" X 3.5")
- 2. INSTALL VALLÈY 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 OR GIRDER TRUSS

GABLE END, COMMON TRUSS OR GIRDER TRUSS



SECURE VALLEY TRUSS W/ ONE ROW OF 16d NAILS 6" O.C. ATTACH 2x4 CONTINUOUS NO.2 SP TO THE ROOF W/ TWO 16d NAILS INTO EACH BASE TRUSS. THE REAL PROPERTY. **DETAIL A** (MAXIMUM 1" SHEATHING) N.T.S.

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

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April 2,2021

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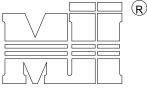


TRUSSED VALLEY SET DETAIL

MII-VALLEY SP T23399822

MiTek USA, Inc.

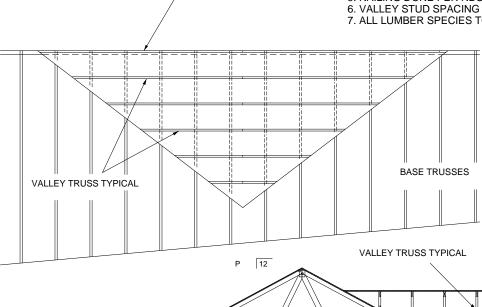
Page 1 of 1



MiTek USA, Inc.

GENERAL SPECIFICATIONS

- 1. NAIL SIZE 16d (0.131" X 3.5")
- 2. INSTALL VALLÈY 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 OR GIRDER TRUSS

GABLE END, COMMON TRUSS OR GIRDER TRUSS

SEE DETAIL A BELOW (TYP.) SECURE VALLEY TRUSS

W/ ONE ROW OF 16d NAILS 6" O.C. ATTACH 2x4 CONTINUOUS NO.2 SP TO THE ROOF W/ TWO 16d NAILS INTO EACH BASE TRUSS. THE REAL PROPERTY. **DETAIL A** (MAXIMUM 1" SHEATHING) N.T.S.

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

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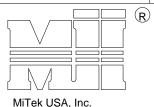
Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

Standard Gable End Detail

MII-GE146-001 T23399823



Page 1 of 2



Typical _x4 L-Brace Nailed To 2x_ Verticals W/10d Nails spaced 6" o.c. Vertical Stud SECTION B-B

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 =Ŕ

- L-Bracing Refer

to Section B-B

Vertical Stud DIAGONAL (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.

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

NOTE:

Diagonal Bracing

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 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
- 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		Maxir	num Stud Le	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.

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

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April 2,2021

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

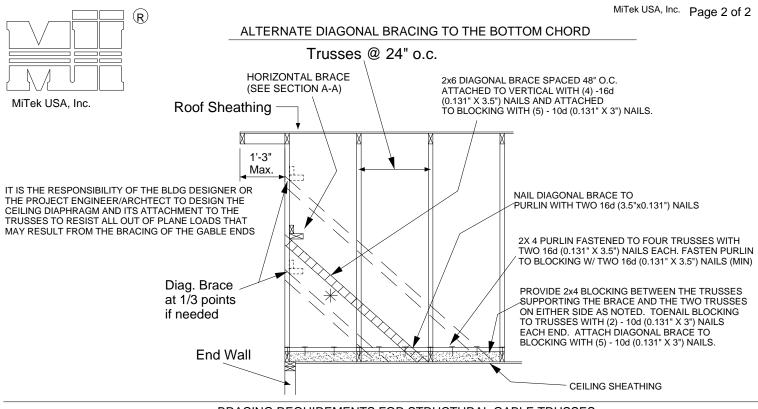
ASCE 7-98, ASCE 7-02, ASCE 7-05
STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
DURANOMONONO ON COMPONENTS AND CLADDING.
DURANOMONO ON COMPONENTS AND CLADDING.
DURANOMONO ON COMPONENTS AND CLADDING.

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Standard Gable End Detail

MII-SHEET 2 T23399823



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED: METHOD 1: ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE

FOLLOWING NAILING SCHEDULE.

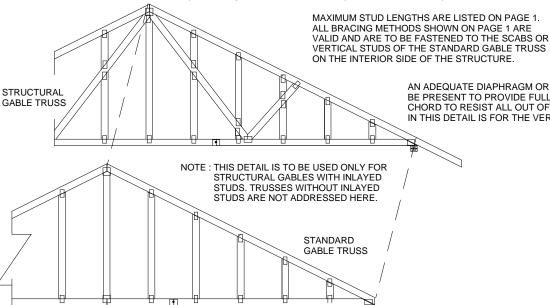
METHOD 2: ATTACH 2X SCABS TO THE FACE OF EACH VERTICAL

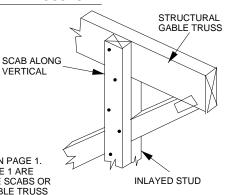
MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING

NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

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

MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)





AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

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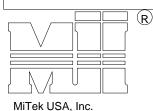
OCTOBER 5, 2016

REPLACE BROKEN OVERHANG

MII-REP13B T23399824

MiTek USA. Inc.

Page 1 of 1



TRUSS CRITERIA:

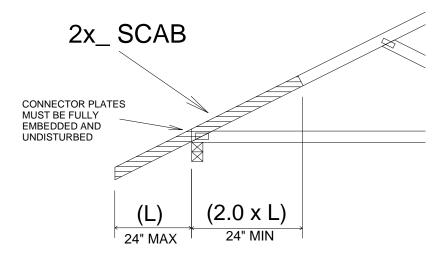
LOADING: 40-10-0-10 DURATION FACTOR: 1.15 SPACING: 24" O.C. TOP CHORD: 2x4 OR 2x6 PITCH: 4/12 - 12/12

HEEL HEIGHT: STANDARD HEEL UP TO 12" ENERGY HEEL

END BEARING CONDITION

NOTES:

- 1. ATTACH 2x_ SCAB (MINIMUM NO.2 GRADE SPF, HF, SP, DF) TO ONE FACE OF TRUSS WITH TWO ROWS OF 10d (0.131" X 3") SPACED 6" O.C.
- 2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
- 3. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.



IMPORTANT

This detail to be used only with trusses (spans less than 40') spaced 24" o.c. maximum and having pitches between 4/12 and 12/12 and total top chord loads not exceeding 50 psf.

Trusses not fitting these criteria should be examined individually.

REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 2,2021



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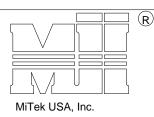
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd. Tampa, FL 36610

MiTek USA, Inc.

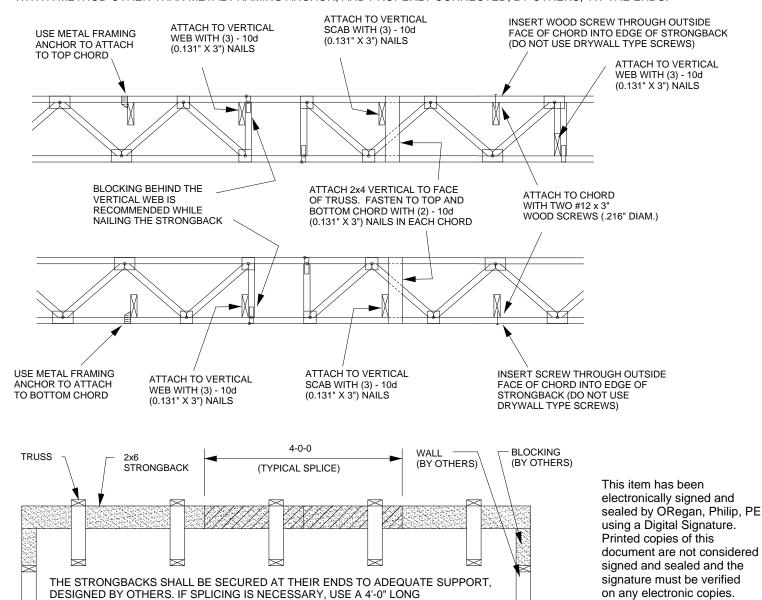
Page 1 of 1



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.



(0.131" X 3") NAILS EQUALLY SPACED.
ALTERNATE METHOD OF SPLICING:

OVERLAP STRONGBACK MEMBERS A MINIMUM OF 4'-0" AND FASTEN WITH (12) - 10d (0.131" X 3") NAILS STAGGERED AND EQUALLY SPACED.

(TO BE USED ONLY WHEN STRONGBACK IS NOT ALIGNED WITH A VERTICAL)

SCAB CENTERED ON THE SPLICE AND JOINED WITH (12) - 10d

April 2,2021

Philip J. O'Regan PE No.58126

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

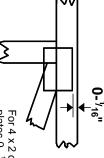


Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

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

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

PLATE SIZE

4 × 4

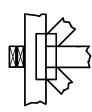
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



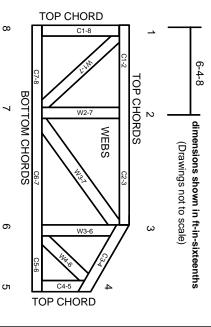
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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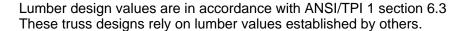
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed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

9

- 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.





RE: 3179185 - REED MCDANIEL - PATEL RES.

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017

Site Information:

Customer Info: REED MCDANIEL Project Name: PJ Patel Model: Custom

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

Address: TBD, TBD

City: Columbia Cty State: FL

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

Name: License #:

Address:

City: State:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5

Wind Code: ASCE 7-16 Wind Speed: 130 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 84 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T28192062	CJ01	7/7/22	15	T28192076	CJ05D	7/7/22
2	T28192063	CJ01A	7/7/22	16	T28192077	CJ05G	7/7/22
3	T28192064	CJ01B	7/7/22	17	T28192078	EJ01	7/7/22
4	T28192065	CJ01C	7/7/22	18	T28192079	EJ02	7/7/22
5	T28192066	CJ01G	7/7/22	19	T28192080	EJ03	7/7/22
6	T28192067	CJ03	7/7/22	20	T28192081	EJ04	7/7/22
7	T28192068	CJ03A	7/7/22	21	T28192082	EJ05	7/7/22
8	T28192069	CJ03B	7/7/22	22	T28192083	EJ06	7/7/22
9	T28192070	CJ03C	7/7/22	23	T28192084	EJ07	7/7/22
10	T28192071	CJ03D	7/7/22	24	T28192085	EJ08	7/7/22
11	T28192072	CJ03E	7/7/22	25	T28192086	EJ09	7/7/22
12	T28192073	CJ03G	7/7/22	26	T28192087	HJ03	7/7/22
13	T28192074	CJ05B	7/7/22	27	T28192088	HJ08	7/7/22
14	T28192075	CJ05C	7/7/22	28	T28192089	HJ08B	7/7/22

Reviewed for Code Compliance So

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

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

Truss Design Engineer's Name: Velez, Joaquin

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.



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

July 7,2022



RE: 3179185 - REED MCDANIEL - PATEL RES.

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017

Site Information:

Customer Info: REED MCDANIEL Project Name: PJ Patel Model: Custom

Lot/Block: N/A Subdivision: N/A Address: TBD, TBD

City: Columbia Cty State: FL

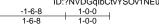
Truss Name Date No. Seal# 29 30 T28192090 HJ10 T28192090 T28192091 T28192092 T28192093 T28192094 T28192095 T28192097 T28192099 T28192099 T28192100 T28192101 T28192101 T28192102 T28192103 T28192103 HJ10B 7/7/22 7/7/22 31 32 33 34 35 36 37 38 39 40 HJ10C HJ10G 7/7/22 T01 7/7/22 T02 7/7/22 T03 7/7/22 7/7/22 T05 T06 7/7/22 T06G T07 7/7/22 <u>T</u>08 41 42 43 T09 T10 T28192104
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T28192131 7/7/22 44 45 46 47 48 7/7/22 T14 T15 7/7/22 **†**16 49 T17 50 51 52 53 T18 T19 T20 T21 T22 T23 54 55 56 57 58 59 60 7/7/22 T24 T25 T26 T27 T28 T29 T30 7/7/22 61 62 63 T31 T32 64 65 66 67 T33 T34 T35 T36 68 T37 T38 69 70 71 72 73 74 75 76 77 78 80 T39 T40 T41 T42 T43 7/7/22 Ť44 T45 T46 T47 T48 81 82 T49 T50 83 84 T28192144 T28192145 7/7/22 7/7/22

Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - PATEL RES.
					T28192062
3179185	CJ01	Jack-Open	4	1	
					Joh Reference (ontional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:11:15 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-xFvOUFS89YzmaBocTMUFMmlcSDevylkAFmTREIz_pjg

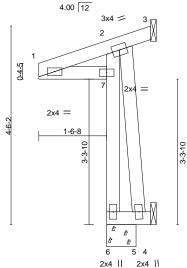


Scale = 1:26.2

Structural wood sheathing directly applied or 1-0-0 oc purlins.

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

10-0-0 oc bracing: 4-5.



1-0-0 1-0-0

BRACING-

TOP CHORD

BOT CHORD

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	0.19	Vert(LL)	-0.00	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	-0.02	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TF	PI2014	Matri	x-MP						Weight: 19 lb	FT = 20%

LUMBER-

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

WFBS 2x4 SP No 3

REACTIONS. (size) 3=Mechanical, 6=0-8-0, 4=Mechanical

Max Horz 6=29(LC 8)

Max Uplift 3=-67(LC 1), 6=-1(LC 8), 4=-111(LC 12)

Max Grav 3=24(LC 8), 6=304(LC 1)

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

BOT CHORD 6-7=-314/143. 2-7=-318/131

WFBS 2-5=-90/258

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; cantilever left exposed; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 6 except (jt=lb) 4=111.

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

Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

July 7,2022

16023 Swingley Ridge Rd Chesterfield, MO 63017

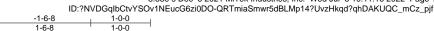
Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - PATEL RES.
					T28192063
3179185	CJ01A	Jack-Open	4	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:11:16 2022 Page 1

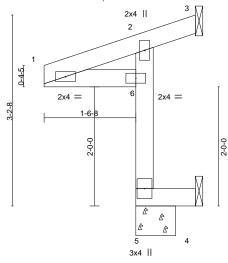
Structural wood sheathing directly applied or 1-0-0 oc purlins,

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

except end verticals



4.00 12 Scale = 1:19.4



1-0-0

BRACING-

TOP CHORD

BOT CHORD

LOADING TCLL TCDL BCLL	G (psf) 20.0 10.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.25 1.25 YES	CSI. TC BC WB	0.34 0.15 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 0.00 0.02	(loc) 5 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCDL	10.0	Code FBC2020/TF			x-MR	Horz(C1)	0.02	3	n/a	n/a	Weight: 11 lb	FT = 20%

LUMBER-

REACTIONS.

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

2x4 SP No.3 WFBS

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

Max Horz 5=68(LC 9)

Max Uplift 5=-109(LC 8), 3=-95(LC 20), 4=-70(LC 9) Max Grav 5=315(LC 1), 3=22(LC 8), 4=39(LC 10)

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

TOP CHORD 5-6=-283/320, 2-6=-258/257

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=109.

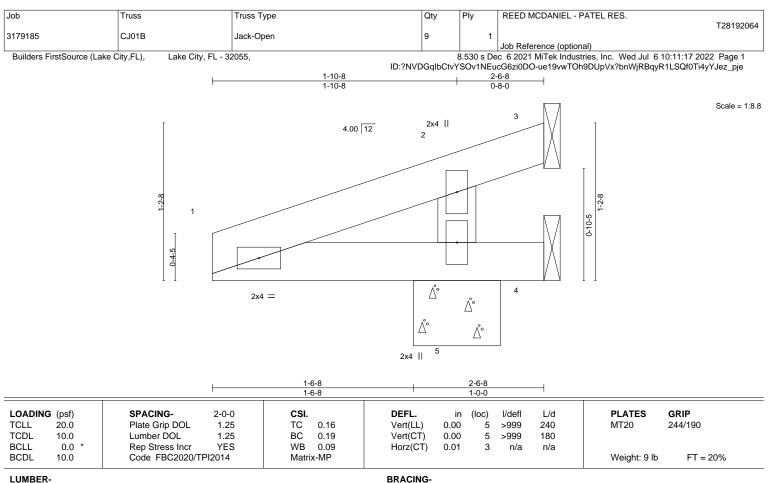
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July 7,2022







TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

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

Max Horz 5=28(LC 8)

Max Uplift 3=-93(LC 1), 4=-115(LC 1), 5=-158(LC 8) Max Grav 3=32(LC 8), 4=46(LC 8), 5=407(LC 1)

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

WEBS 2-5=-210/303

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; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 4=115, 5=158,

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July 7,2022



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

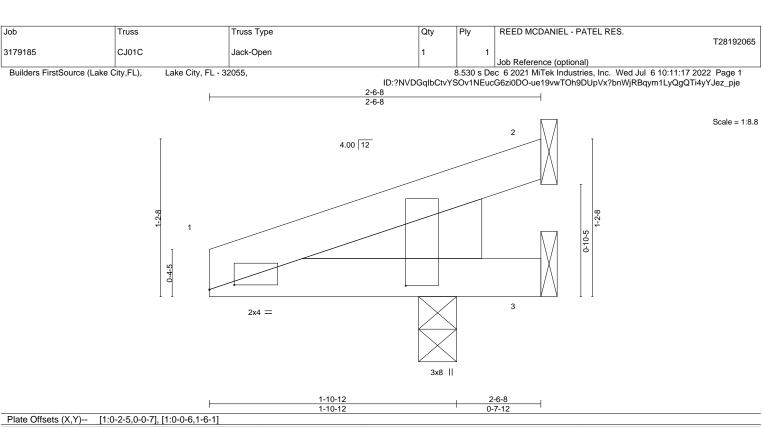
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied or 2-6-8 oc purlins.

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

16023 Swingley Ridge Rd Chesterfield, MO 63017



Flate Oil	SetS (A, I)	[1.0-2-3,0-0-7], [1.0-0-0,1	-0-1]									
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	0.13	Vert(LL)	0.01	4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	ВС	0.15	Vert(CT)	-0.01	4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	1	n/a	n/a		
BCDL	10.0	Code FBC2020/TF	PI2014	Matri	x-MP						Weight: 11 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x6 SP No.2

REACTIONS.

(size) 2=Mechanical, 3=Mechanical, 1=0-3-8

Max Horz 1=28(LC 8)

Max Uplift 2=-39(LC 1), 3=-43(LC 1), 1=-112(LC 8)

Max Grav 2=10(LC 8), 3=12(LC 8), 1=281(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) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3 except (jt=lb) 1=112.

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Structural wood sheathing directly applied or 2-6-8 oc purlins.

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

Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

July 7,2022



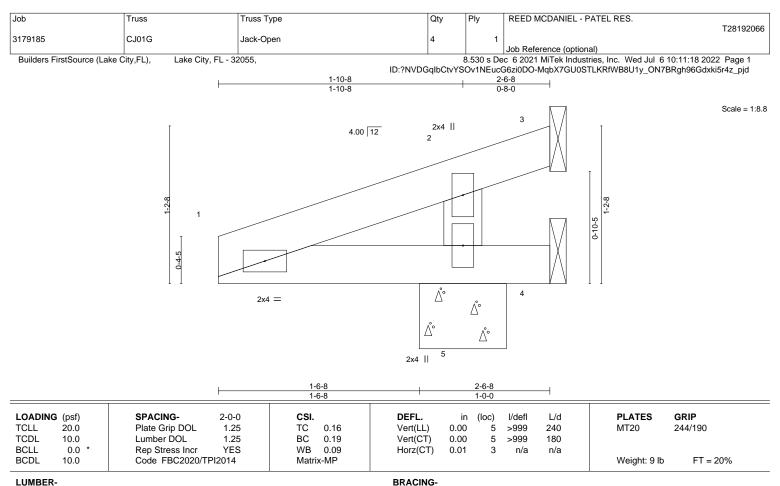
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Chesterfield, MO 63017



BOT CHORD

LUMBER-TOP CHORD BOT CHORD

REACTIONS.

WFBS

2x4 SP No.2 2x4 SP No.2 2x4 SP No.3

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

Max Horz 5=28(LC 8)

Max Uplift 3=-93(LC 1), 4=-115(LC 1), 5=-158(LC 8) Max Grav 3=32(LC 8), 4=46(LC 8), 5=407(LC 1)

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

WEBS 2-5=-210/303

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; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 4=115, 5=158,

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July 7,2022



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Structural wood sheathing directly applied or 2-6-8 oc purlins.

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

Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - PATEL RES.
					T28192067
3179185	CJ03	Jack-Open	2	1	
					Job Reference (optional)

4.00 12

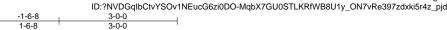
Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:11:18 2022 Page 1

Structural wood sheathing directly applied or 3-0-0 oc purlins.

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

10-0-0 oc bracing: 4-5.

Scale = 1:29.3



3x4 = 2 24-5 ъ 2x4 = Δ 12 5 2x4 || 3x4 =

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	0.17	Vert(LL)	0.01	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.01	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TP	PI2014	Matri	x-MP						Weight: 26 lb	FT = 20%

3-0-0 3-0-0

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

WFBS 2x4 SP No 3

REACTIONS.

(size) 3=Mechanical, 6=0-8-0, 4=Mechanical

Max Horz 6=51(LC 8)

Max Uplift 3=-32(LC 12), 6=-55(LC 8), 4=-79(LC 8) Max Grav 3=57(LC 1), 6=287(LC 1), 4=41(LC 3)

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

BOT CHORD 6-7=-261/221, 2-7=-264/205

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) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 2-11-4 zone; cantilever left exposed; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 6, 4.

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Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

July 7,2022





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ANSI/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	REED MCDANIEL - PATEL RES.	
					T281920	38
3179185	CJ03A	JACK-OPEN	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055, .

8.530 s Jan 6 2022 MTek Industries, Inc. Thu Jul 7 11:44:00 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-E2BiwjplwMT0?81NcoYNPJx6Ah2nAeayl8iMImz_dpj



4.00 12

Scale = 1:29.3

Structural wood sheathing directly applied or 3-0-0 oc purlins,

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

except end verticals. Except:

6-0-0 oc bracing: 8-9

10-0-0 oc bracing: 5-6.

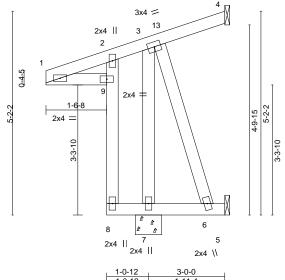


Plate Offsets (X,Y)--[6:0-0-0,0-0-0] LOADING (psf) SPACING-CSI. DEFL. GRIP I/d **PLATES** 2-0-0 (loc) I/defl TC BC Plate Grip DOL 0.56 244/190 TCLL 20.0 1.25 Vert(LL) 0.00 6-7 >999 240 MT20 TCDL 10.0 Lumber DOL 1.25 0.31 Vert(CT) 0.00 6-7 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.10 Horz(CT) -0.01 4 n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MP Weight: 32 lb FT = 20%

1-11-4

BRACING-

TOP CHORD

BOT CHORD

1-0-12

LUMBER-

WEBS

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

2x4 SP No.3

REACTIONS. (size) 4=Mechanical, 5=Mechanical, 7=0-8-0

Max Horz 7=95(LC 9)

Max Uplift 4=-19(LC 16), 5=-117(LC 9), 7=-108(LC 8) Max Grav 4=9(LC 1), 5=16(LC 10), 7=428(LC 1)

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

WEBS 3-6=-219/350, 3-7=-267/197

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 2-11-4 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 4, 117 lb uplift at joint 5 and 108 lb uplift at joint 7.

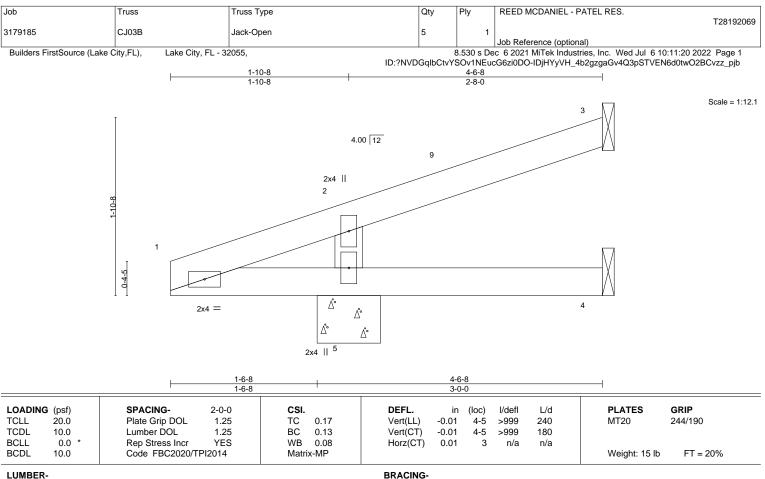
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July 7,2022







BOT CHORD

LUMBER-TOP CHORD BOT CHORD

REACTIONS.

WFBS

2x4 SP No.2 2x4 SP No.2

2x4 SP No.3

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

Max Horz 5=51(LC 8)

Max Uplift 3=-33(LC 12), 5=-103(LC 8)

Max Grav 3=47(LC 1), 4=29(LC 3), 5=308(LC 1)

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

WEBS 2-5=-207/277

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-5-12 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=103.

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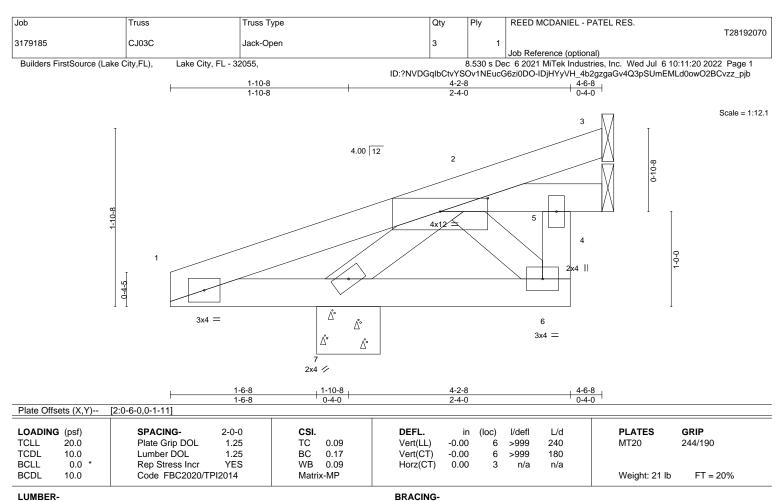
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied or 4-6-8 oc purlins.

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



BOT CHORD

LUMBER-

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

5-6: 2x4 SP No.3

WFBS 2x4 SP No.3

REACTIONS.

3=Mechanical, 4=Mechanical, 7=0-8-0 (size)

Max Horz 7=51(LC 8)

Max Uplift 3=-8(LC 12), 4=-21(LC 12), 7=-91(LC 8) Max Grav 3=19(LC 1), 4=68(LC 3), 7=291(LC 1)

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

TOP CHORD 2-9=-270/181 **BOT CHORD** 1-7=-150/299 **WEBS** 2-7=-250/295

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 3-2-12, Interior(1) 3-2-12 to 4-5-12 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4, 7.

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July 7,2022

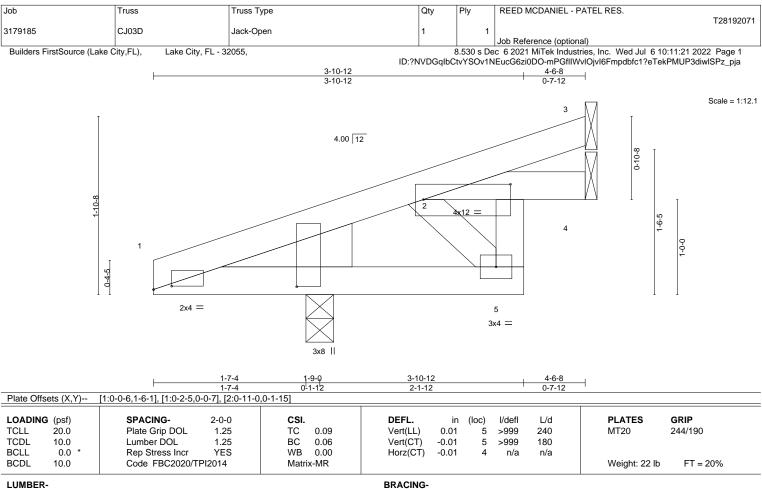




Structural wood sheathing directly applied or 4-6-8 oc purlins.

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

6-0-0 oc bracing: 1-7.



BOT CHORD

WFBS

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

2-5: 2x4 SP No.3 2x4 SP No.3

WEDGE

Left: 2x6 SP No.2

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 1=0-3-8

Max Horz 1=51(LC 8)

Max Uplift 3=-25(LC 8), 4=-7(LC 8), 1=-54(LC 8) Max Grav 3=53(LC 1), 4=43(LC 3), 1=283(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) 0-0-0 to 3-1-13, Interior(1) 3-1-13 to 4-5-12 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4, 1.

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Structural wood sheathing directly applied or 4-6-8 oc purlins.

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

REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192072 3179185 CJ03E Jack-Open Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:11:22 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-Ebq2yeXXWhrmwGqyNK6u8EXpt23K5xSCsMgJ_rz_pjZ Scale = 1:12.2 3x4 = 24.00 12 3x4 || 0-10-8 3x8 =

0-4-12

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	0.11	Vert(LL)	-0.00	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	-0.01	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TP	12014	Matri	x-MP						Weight: 14 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x8 SP 2400F 2.0E *Except* WFBS

2-5: 2x4 SP No.3

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

Max Horz 5=30(LC 8)

Max Uplift 3=-47(LC 8), 5=-14(LC 8)

Max Grav 3=79(LC 1), 4=53(LC 3), 5=105(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) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5.

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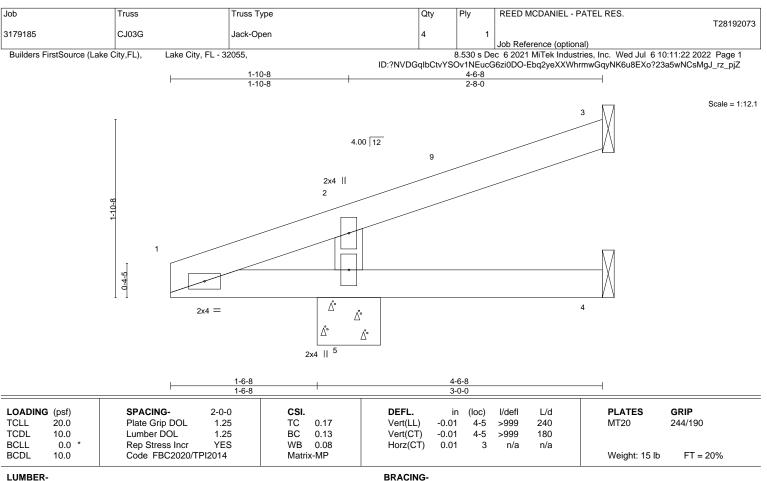
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Structural wood sheathing directly applied or 3-0-0 oc purlins,

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

except end verticals



BOT CHORD

LUMBER-

REACTIONS.

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

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

Max Horz 5=51(LC 8)

Max Uplift 3=-33(LC 12), 5=-103(LC 8)

Max Grav 3=47(LC 1), 4=29(LC 3), 5=308(LC 1)

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

WEBS 2-5=-207/277

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-5-12 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=103.

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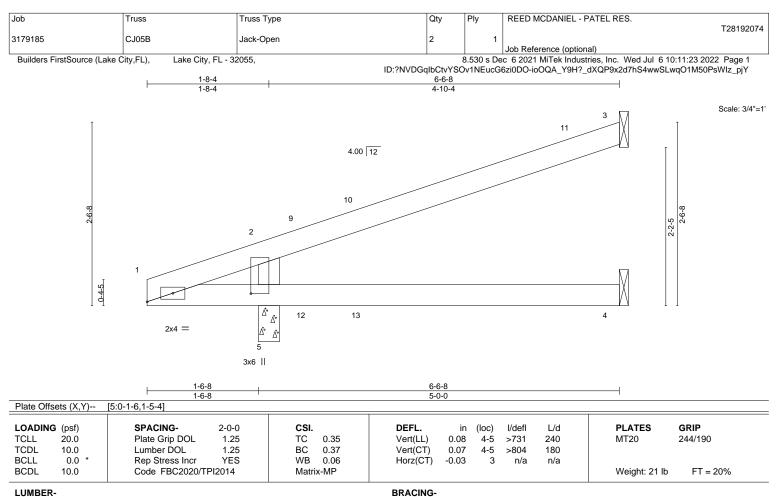
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Structural wood sheathing directly applied or 4-6-8 oc purlins.

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



BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No 3 WFBS

> 3=Mechanical, 4=Mechanical, 5=0-3-8 (size)

Max Horz 5=74(LC 8)

Max Uplift 3=-65(LC 8), 4=-29(LC 8), 5=-142(LC 8) Max Grav 3=121(LC 1), 4=82(LC 3), 5=350(LC 1)

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

WEBS 2-5=-312/186

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-5-12 zone; cantilever left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=142.

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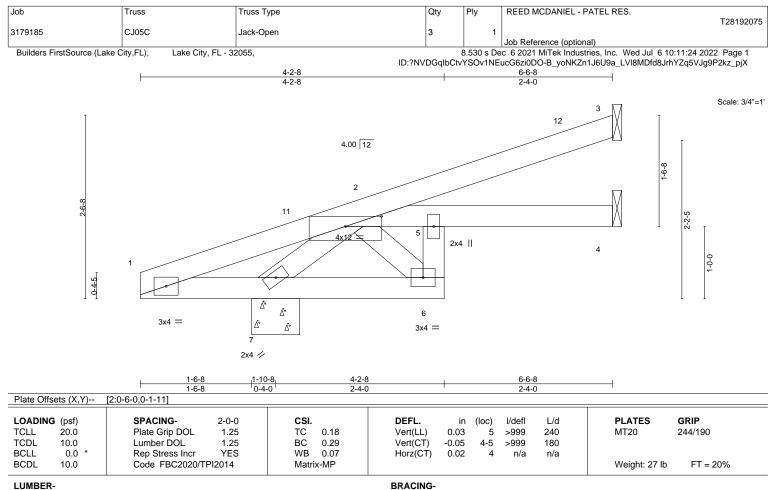
July 7,2022





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

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



BOT CHORD

LUMBER-

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

5-6: 2x4 SP No.3

WFBS 2x4 SP No.3

REACTIONS.

3=Mechanical, 4=Mechanical, 7=0-8-0 (size)

Max Horz 7=74(LC 8)

Max Uplift 3=-44(LC 8), 4=-12(LC 12), 7=-99(LC 8) Max Grav 3=98(LC 1), 4=95(LC 3), 7=359(LC 1)

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

WEBS 2-7=-338/223

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 3-2-12, Interior(1) 3-2-12 to 6-5-12 zone; cantilever left 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.
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- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4, 7.

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July 7,2022

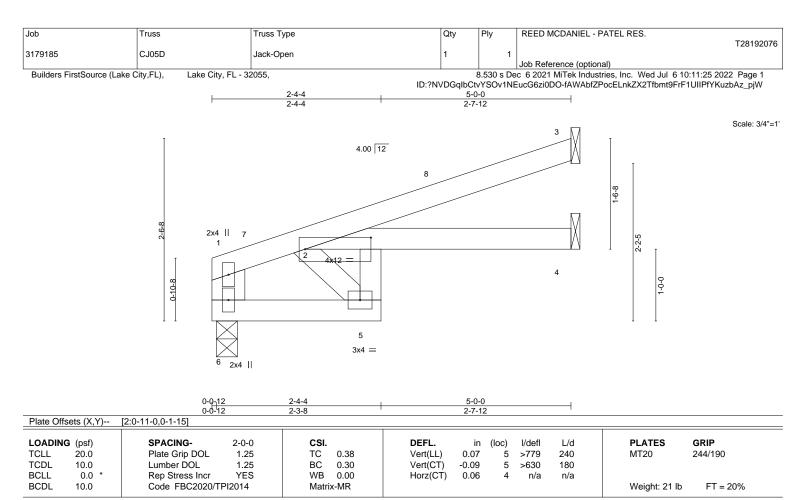




Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

6-0-0 oc bracing: 1-7.



BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

2-5: 2x4 SP No.3 **WEBS** 2x6 SP No.2 *Except*

2-5: 2x4 SP No.3

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 6=0-3-8

Max Horz 6=54(LC 8)

Max Uplift 3=-53(LC 8), 4=-9(LC 8), 6=-28(LC 8)

Max Grav 3=120(LC 1), 4=88(LC 3), 6=196(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) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 4-11-4 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4, 6.

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Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

July 7,2022

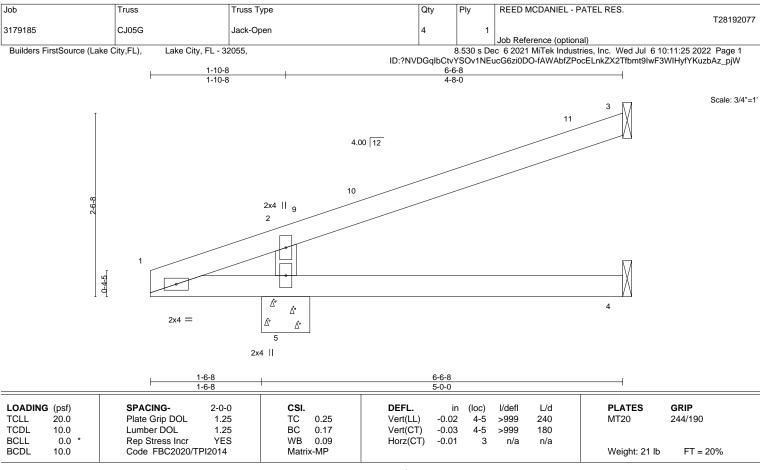




Structural wood sheathing directly applied or 5-0-0 oc purlins,

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

except end verticals.



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) 3=Mechanical, 4=Mechanical, 5=0-8-0

Max Horz 5=74(LC 8)

Max Uplift 3=-58(LC 8), 5=-110(LC 8)

Max Grav 3=113(LC 1), 4=76(LC 3), 5=365(LC 1)

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

WEBS 2-5=-301/315

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-5-12 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=110.

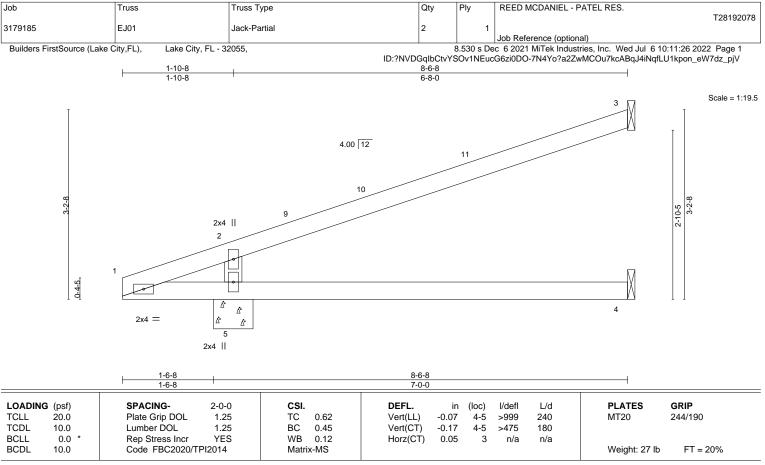
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July 7,2022







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) 3=Mechanical, 4=Mechanical, 5=0-8-0

Max Horz 5=97(LC 8)

Max Uplift 3=-85(LC 8), 5=-122(LC 8)

Max Grav 3=173(LC 1), 4=117(LC 3), 5=435(LC 1)

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

WEBS 2-5=-428/395

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 8-5-12 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=122.

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July 7,2022





REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192079 3179185 EJ02 2 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:11:27 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-bZex0LbgKEU301iwAti3rlEWW3gqmBuy?eN4f3z_pjU Scale = 1:20.3 2x4 || 3x4 = 2 3 3x4 = П 6-6-8

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 0.76	Vert(LL) -0.09 3-4 >820	240 MT20 244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.50	Vert(CT) -0.18 3-4 >410	180
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 3 n/a	n/a
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP		Weight: 37 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-6-8 oc purlins,

except end verticals

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

REACTIONS. (size) 4=Mechanical, 3=Mechanical

Max Uplift 4=-63(LC 8), 3=-63(LC 8) Max Grav 4=250(LC 1), 3=250(LC 1)

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

TOP CHORD 1-4=-188/251, 2-3=-188/251

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 Corner(3) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.

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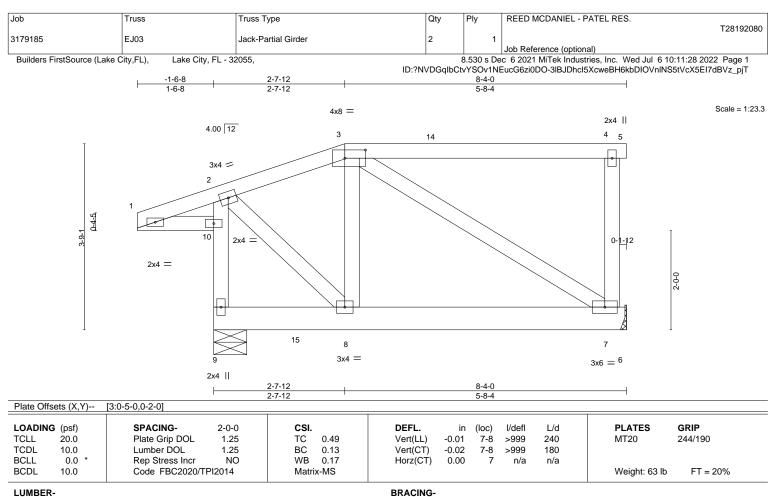


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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





BOT CHORD

LUMBER-

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

6-9: 2x6 SP No.2 WFBS 2x4 SP No.3

REACTIONS.

(size) 9=0-8-0, 7=Mechanical

Max Horz 9=48(LC 4)

Max Uplift 9=-269(LC 4), 7=-124(LC 4) Max Grav 9=511(LC 1), 7=325(LC 1)

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

BOT CHORD 9-10=-481/208, 2-10=-438/187

WFBS 2-8=-120/322

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; cantilever left exposed; end vertical left exposed; 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.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 57 lb down and 188 lb up at 1-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) 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=-60, 3-4=-60, 4-5=-20, 6-9=-20, 10-11=-20

Concentrated Loads (lb)

Vert: 15=-57(B)

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

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

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July 7,2022

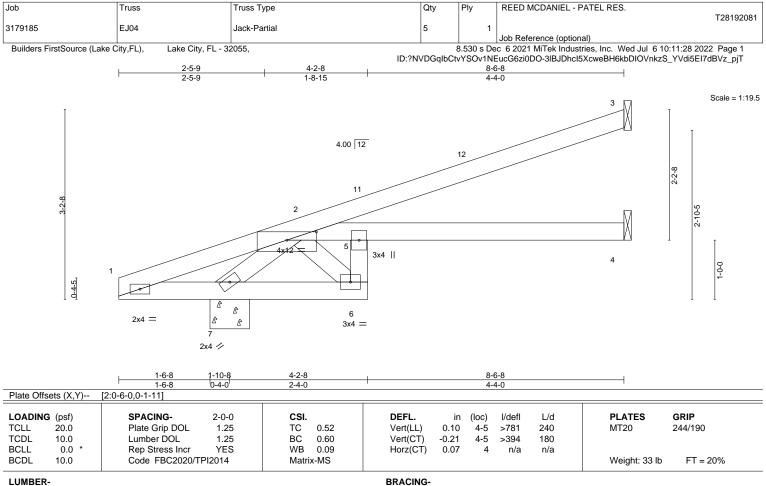
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Chesterfield, MO 63017



BOT CHORD

LUMBER-

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

5-6: 2x4 SP No.3 WFBS 2x4 SP No.3

REACTIONS.

3=Mechanical, 4=Mechanical, 7=0-8-0 (size) Max Horz 7=97(LC 8)

Max Uplift 3=-72(LC 8), 4=-8(LC 8), 7=-112(LC 8) Max Grav 3=160(LC 1), 4=127(LC 3), 7=435(LC 1)

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

BOT CHORD 6-7=-179/258, 5-6=-148/252 **WEBS** 2-7=-495/244, 2-6=-300/202

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 3-2-12, Interior(1) 3-2-12 to 8-5-12 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 7=112

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July 7,2022



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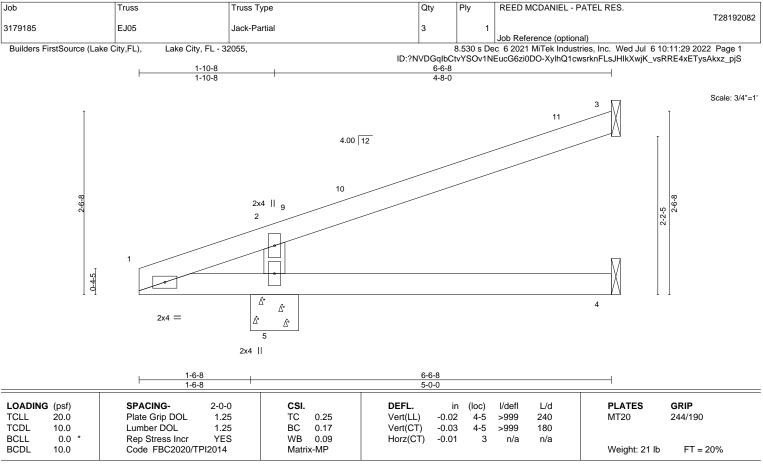
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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

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

6-0-0 oc bracing: 1-7.



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) 3=Mechanical, 4=Mechanical, 5=0-8-0

Max Horz 5=74(LC 8)

Max Uplift 3=-58(LC 8), 5=-110(LC 8)

Max Grav 3=113(LC 1), 4=76(LC 3), 5=365(LC 1)

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

WEBS 2-5=-301/315

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-5-12 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=110.

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Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - PATEL RES.
					T28192083
3179185	EJ06	Jack-Partial	2	1	
					Job Reference (optional)

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:11:30 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-?8J3eNdYd9sdtVRVr0FmTws8KGjfzYoOicckGOz_pjR

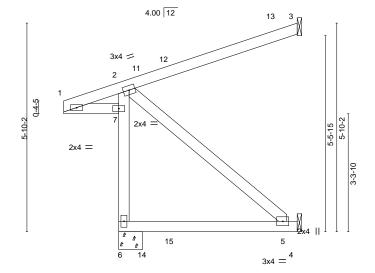
Structural wood sheathing directly applied or 5-0-0 oc purlins.

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

10-0-0 oc bracing: 4-5.

-1-6-8 1-6-8

Scale: 3/8"=1



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 0.27	Vert(LL) 0	.09 5-6	>615	240	MT20	244/190
TCDL	10.0	Lumber DOL 1.25	BC 0.43	Vert(CT) 0	.08 5-6	>684	180		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) -0	.01 3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014	Matrix-MP					Weight: 34 lb	FT = 20%

5-0-0 5-0-0

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

WFBS 2x4 SP No 3

REACTIONS. (size) 3=Mechanical, 6=0-8-0, 4=Mechanical

Max Horz 6=74(LC 8)

Max Uplift 3=-58(LC 8), 6=-91(LC 8), 4=-87(LC 8) Max Grav 3=116(LC 1), 6=350(LC 1), 4=90(LC 3)

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

BOT CHORD 6-7=-302/202. 2-7=-332/201

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) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 4-11-4 zone; cantilever left exposed; end vertical left exposed; 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.
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- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 6, 4.

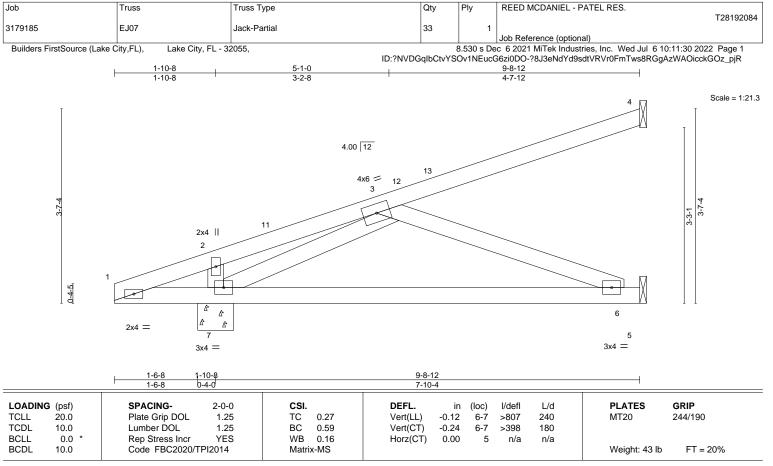
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July 7,2022







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) 4=Mechanical, 5=Mechanical, 7=0-8-0

Max Horz 7=111(LC 8)

Max Uplift 4=-57(LC 8), 5=-36(LC 8), 7=-131(LC 8) Max Grav 4=116(LC 1), 5=181(LC 3), 7=480(LC 1)

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

BOT CHORD 6-7=-226/310

WEBS 3-6=-333/243, 3-7=-330/317

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 9-8-0 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 7=131.

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Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

July 7,2022

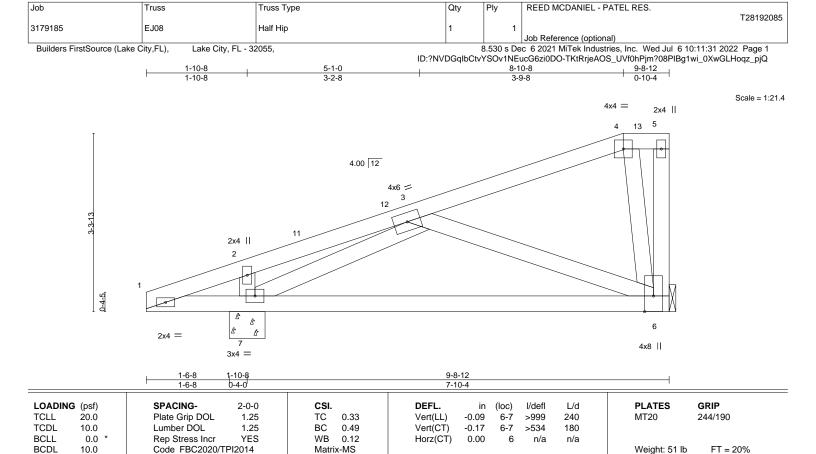


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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

WFBS

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

2x4 SP No.3

(size) 6=Mechanical, 7=0-8-0 Max Horz 7=102(LC 8) Max Uplift 6=-89(LC 8), 7=-133(LC 8) Max Grav 6=290(LC 1), 7=477(LC 1)

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

BOT CHORD 6-7=-212/287

WEBS 3-6=-254/191 3-7=-322/293

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 8-10-8, Exterior(2E) 8-10-8 to 9-7-0 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) 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) 6 except (jt=lb) 7=133

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July 7,2022





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

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

except end verticals

REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192086 3179185 EJ09 Half Hip Girder 2 Job Reference (optional)

4.00 12

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:11:34 2022 Page 1

Structural wood sheathing directly applied or 2-7-12 oc purlins,

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

except end verticals

Scale = 1:20.3



3 11 2x4 || 2 0-4-5 2x4 = 1-6-8 2-0-0 5 4x4 =

1-8-0	2-7-12
1-8-0	0-11-12

BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	CSI. TC 0.14	DEFL. in (loc) l/defl L/d Vert(LL) 0.00 5-6 >999 240	PLATES GRIP MT20 244/190
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.25 Rep Stress Incr NO Code FBC2020/TPI2014	BC 0.11 WB 0.01 Matrix-MP	Vert(CT) 0.00 5-6 >999 180 Horz(CT) -0.00 5 n/a n/a	Weight: 31 lb FT = 20%

LUMBER-

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

5-6: 2x6 SP No.2

WFBS 2x4 SP No 3

REACTIONS. (size) 5=Mechanical, 6=0-8-0

Max Horz 6=37(LC 4)

Max Uplift 5=-168(LC 8), 6=-175(LC 4) Max Grav 5=62(LC 43), 6=427(LC 1)

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; cantilever left exposed; end vertical left 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) 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) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 230 lb down and 83 lb up at 0-8-8, and 41 lb down and 180 lb up at 1-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-3=-60, 3-4=-60, 5-6=-20, 7-8=-20

Concentrated Loads (lb)

Vert: 12=-230(F) 13=73(B)

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July 7,2022

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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192087 3179185 HJ03 Diagonal Hip Girder 2 Job Reference (optional)

2.83 12

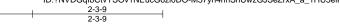
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:11:35 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-M57yh4hhShUwzGJSeZrxA_a_1HU5eiK7ruJVxbz_pjM

Structural wood sheathing directly applied or 2-3-9 oc purlins.

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

Scale = 1:20.3



11 3x4 =2 0-4-5 3x4 = 2x4 2-0-0 Δ 12 ď۰ ٨°

1	2-2-12	2-3-9
Г	2-2-12	0-0-12

3x4 =

LOADING	VI /	SPACING-	2-0-0	CSI.	0.24	DEFL.		(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	0.01	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	0.01	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.48	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TF	PI2014	Matri	x-MP						Weight: 21 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

2x4 ||

LUMBER-

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

2x4 SP No.3 WFBS

REACTIONS. (size) 3=Mechanical, 6=0-10-15, 4=Mechanical

Max Horz 6=36(LC 4)

Max Uplift 3=-170(LC 19), 6=-207(LC 4), 4=-163(LC 17) Max Grav 3=73(LC 22), 6=321(LC 35), 4=43(LC 22)

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

TOP CHORD 1-2=-120/290 **BOT CHORD** 1-7=-260/122

WFBS 6-7=-310/156, 2-7=-295/155

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; cantilever left exposed; end vertical left exposed; Lumber DOL=1.60 plate grip
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 67 lb down and 158 lb up at 1-6-1, and 67 lb down and 158 lb up at 1-6-1 on top chord, and 35 lb down and 93 lb up at 1-6-1, and 35 lb down and 93 lb up at 1-6-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) 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=-60, 4-6=-20, 7-8=-20

Concentrated Loads (lb)

Vert: 11=144(F=72, B=72) 12=51(F=26, B=26)

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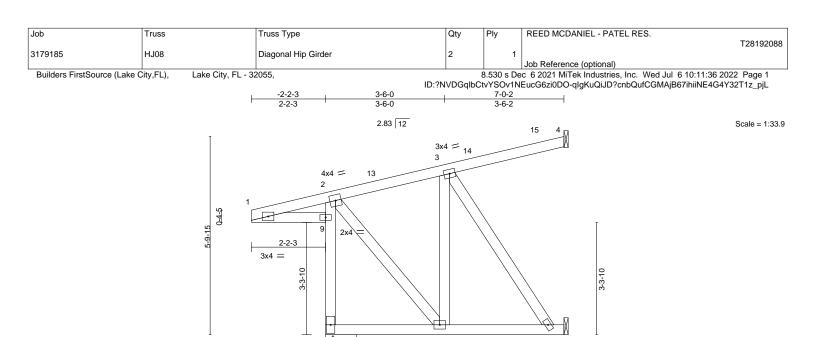
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3-6-0	6-11-6	7-0-2
3-6-0	3-5-6	0-0 ⁻ 12

BRACING-

TOP CHORD

BOT CHORD

3x4 =

17

6

2x4 \\

10-0-0 oc bracing: 5-6.

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

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

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	0.47	Vert(LL)	0.04	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	0.04	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.13	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TP	12014	Matri	x-MS						Weight: 55 lb	FT = 20%

16

LUMBER-

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

WFBS 2x4 SP No 3

REACTIONS. (size) 4=Mechanical, 8=0-10-15, 5=Mechanical

Max Horz 8=72(LC 4)

Max Uplift 4=-39(LC 22), 8=-660(LC 4), 5=-334(LC 4) Max Grav 4=100(LC 19), 8=430(LC 35), 5=98(LC 35)

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

TOP CHORD 1-2=-108/258

8-9=-360/434, 2-9=-326/430 BOT CHORD WFBS 3-7=-278/73. 3-6=-113/442

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; cantilever left exposed; end vertical left exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 8=660, 5=334.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 152 lb up at 1-6-1, 56 lb down and 152 lb up at 1-6-1, and 40 lb up at 4-4-0, and 15 lb down and 36 lb up at 4-4-0 on top chord, and 124 lb down and 251 lb up at 1-6-1, 124 lb down and 251 lb up at 1-6-1, and 138 lb up at 4-4-0, and 32 lb down and 110 lb up at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-60, 5-8=-20, 9-10=-20

Concentrated Loads (lb)

Vert: 13=131(F=65, B=65) 14=31(F) 16=84(F=42, B=42) 17=64(F=60, B=4)

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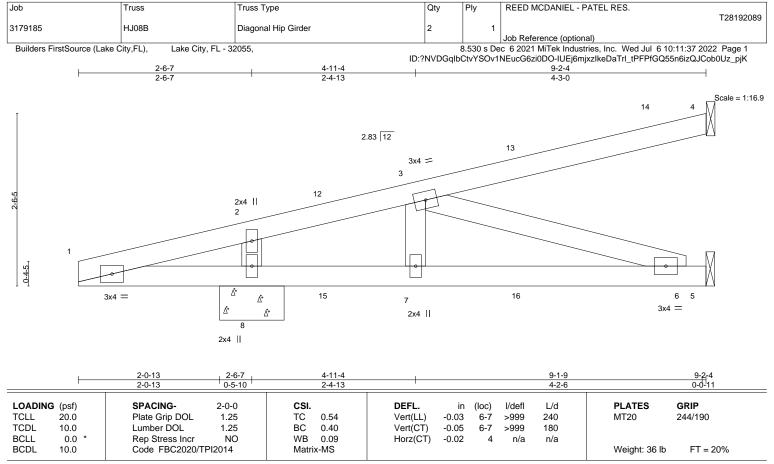
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LUMBER-

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 6-0-0 oc bracing, Except:

10-0-0 oc bracing: 5-6.

REACTIONS. (size) 4=Mechanical, 5=Mechanical, 8=0-11-5

Max Horz 8=72(LC 8)

Max Uplift 4=-52(LC 4), 5=-46(LC 9), 8=-285(LC 4) Max Grav 4=124(LC 19), 5=87(LC 35), 8=420(LC 35)

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

TOP CHORD 1-2=-212/252, 2-3=-217/273

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; cantilever left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 8=285.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 178 lb up at 3-8-3, 69 lb down and 178 lb up at 3-8-3, and 30 lb down and 51 lb up at 6-6-2, and 14 lb down and 32 lb up at 6-6-2 on top chord, and 39 lb down and 144 lb up at 3-8-3, 39 lb down and 144 lb up at 3-8-3, and 18 lb down at 6-6-2, and 11 lb down and 7 lb up at 6-6-2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 5-9=-20

Concentrated Loads (lb)

Vert: 12=153(F=77, B=77) 15=168(F=84, B=84) 16=7(F)

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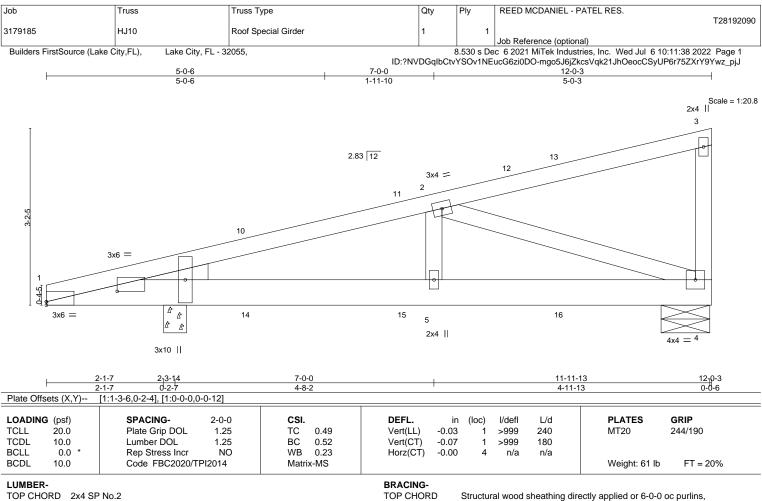
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BOT CHORD

except end verticals.

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

BOT CHORD 2x6 SP No 2

2x4 SP No 3 WFBS

WEDGE

REACTIONS.

Left: 2x4 SP No.3

(size) 4=0-10-9, 1=0-4-15 Max Horz 1=88(LC 22)

Max Uplift 4=-241(LC 4), 1=-366(LC 4) Max Grav 4=388(LC 1), 1=507(LC 35)

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

TOP CHORD 1-2=-507/359

BOT CHORD 1-5=-390/465, 4-5=-390/465

WEBS 2-4=-459/390

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; cantilever left exposed; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=241, 1=366.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 178 lb up at 3-8-3, 69 lb down and 178 lb up at 3-8-3, 14 lb down and 32 lb up at 6-6-2, 14 lb down and 32 lb up at 6-6-2, and 49 lb down and 75 lb up at 9-4-1, and 49 lb down and 75 lb up at 9-4-1 on top chord, and 60 lb down and 144 lb up at 3-8-3, 60 lb down and 144 lb up at 3-8-3, 34 lb down and 7 lb up at 6-6-2, 34 lb down and 7 lb up at 6-6-2, and 35 lb down and 42 lb up at 9-4-1, and 35 lb down and 42 lb up at 9-4-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) 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=-60, 1-4=-20

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Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

July 7,2022

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Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - PATEL RES.
					T28192090
3179185	HJ10	Roof Special Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

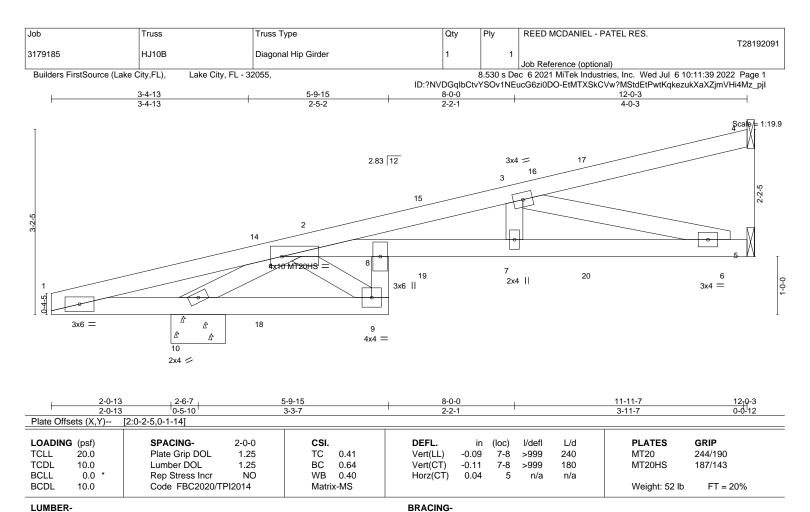
Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:11:38 2022 Page 2 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-mgo5J6jZkcsVqk21JhOeocCSyUP6r75ZXrY9Ywz_pjJ

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 10=153(F=77, B=77) 13=-73(F=-37, B=-37) 14=168(F=84, B=84) 15=13(F=7, B=7) 16=-36(F=-18, B=-18)





BOT CHORD

LUMBER-

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

8-9: 2x4 SP No.3 WFBS 2x4 SP No.3

REACTIONS.

(size) 4=Mechanical, 5=Mechanical, 10=0-11-5

Max Horz 10=88(LC 26)

Max Uplift 4=-37(LC 10), 5=-146(LC 8), 10=-349(LC 4) Max Grav 4=110(LC 1), 5=334(LC 1), 10=540(LC 35)

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

TOP CHORD 2-12=-202/484, 2-3=-1225/641

BOT CHORD 1-10=-442/208, 9-10=-397/502, 8-9=-339/433, 2-8=-598/1167, 7-8=-666/1180,

6-7=-666/1180

WEBS 2-10=-796/399, 3-7=-169/321, 3-6=-1218/688, 2-9=-580/432

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; cantilever left 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) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb)
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 178 lb up at 3-8-3, 69 lb down and 178 lb up at 3-8-3, 9 lb down and 9 lb up at 6-6-2, 9 lb down and 9 lb up at 6-6-2, and 41 lb down and 51 lb up at 9-4-1, and 41 lb down and 51 lb up at 9-4-1 on top chord, and 37 lb down and 144 lb up at 3-8-3, 37 lb down and 144 lb up at 3-8-3, 37 lb down and 34 lb up at 6-6-2, 37 lb down and 34 lb up at 6-6-2, and 49 lb down and 30 lb up at 9-4-1, and 49 lb down and 30 lb up at 9-4-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-60, 9-11=-20, 5-8=-20

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Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

July 7,2022

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Structural wood sheathing directly applied or 5-1-2 oc purlins.

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

١.	Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - PATEL RES.
						T28192091
- -	3179185	HJ10B	Diagonal Hip Girder	1	1	Joh Reference (optional)

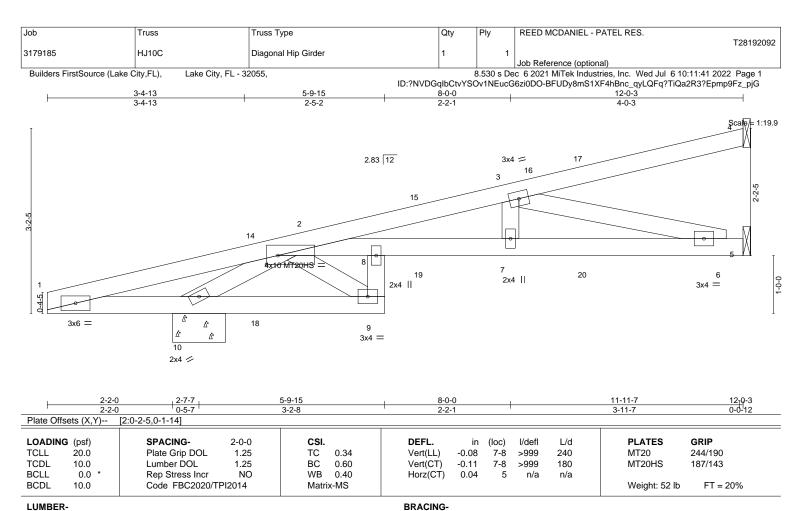
Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:11:40 2022 Page 2 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-j3wrkolqGD7D41CQR6R6t1Hpjl4mJ_ps?91Gdpz_pjH

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 14=153(F=77, B=77) 17=-26(F=-13, B=-13) 18=168(F=84, B=84) 19=-73(F=-37, B=-37) 20=-99(F=-49, B=-49)



BOT CHORD

LUMBER-

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

8-9: 2x4 SP No.3 WFBS 2x4 SP No.3

REACTIONS.

4=Mechanical, 5=Mechanical, 10=0-10-15 (size)

Max Horz 10=88(LC 4)

Max Uplift 4=-40(LC 10), 5=-130(LC 8), 10=-298(LC 4) Max Grav 4=115(LC 1), 5=334(LC 1), 10=508(LC 35)

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

TOP CHORD 2-12=-182/442 2-3=-1224/561

BOT CHORD 1-10=-403/189, 9-10=-319/427, 8-9=-269/369, 2-8=-537/1160, 7-8=-587/1180,

6-7=-587/1180

WEBS 2-10=-794/353, 3-7=-129/278, 3-6=-1218/606, 2-9=-504/354

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; cantilever left 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) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb)
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 47 lb down and 124 lb up at 3-8-3, 69 lb down and 178 lb up at 3-8-3, 23 lb down and 26 lb up at 6-6-2, 9 lb down and 9 lb up at 6-6-2, and 54 lb down and 65 lb up at 9-4-1, and 41 lb down and 51 lb up at 9-4-1 on top chord, and 4 lb down and 72 lb up at 3-8-3, 38 lb down and 144 lb up at 3-8-3, 14 lb down and 15 lb up at 6-6-2, 37 lb down and 34 lb up at 6-6-2, and 44 lb down and 26 lb up at 9-4-1, and 49 lb down and 30 lb up at 9-4-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-60, 9-11=-20, 5-8=-20

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Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

July 7,2022

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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



Structural wood sheathing directly applied or 5-1-12 oc purlins.

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

Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - PATEL RES.
					T28192092
3179185	HJ10C	Diagonal Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

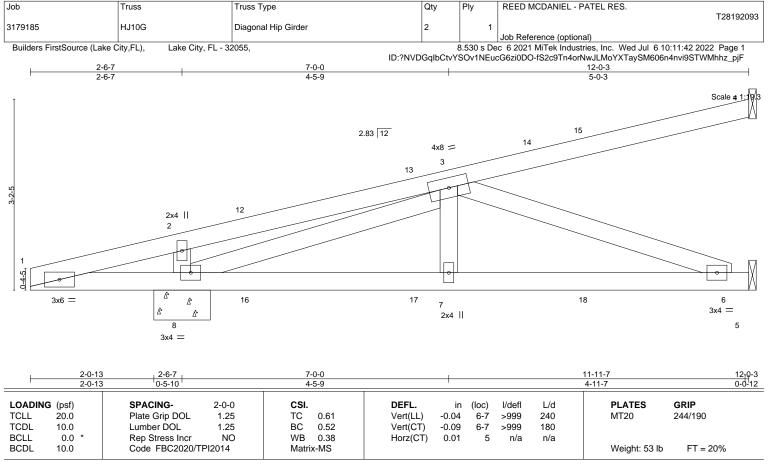
Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:11:41 2022 Page 2 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-BFUDy8mS1XF4hBnc_qyLQFq?TiQa2R3?Epmp9Fz_pjG

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 14=126(F=49, B=77) 17=-48(F=-35, B=-13) 18=133(F=49, B=84) 19=-47(F=-10, B=-37) 20=-94(F=-44, B=-49)





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, Except:

6-0-0 oc bracing: 1-8.

REACTIONS. (size) 4=Mechanical, 5=Mechanical, 8=0-11-5

Max Horz 8=88(LC 8)

Max Uplift 4=-56(LC 10), 5=-77(LC 8), 8=-322(LC 4) Max Grav 4=145(LC 1), 5=219(LC 35), 8=516(LC 35)

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

TOP CHORD 1-2=-220/550, 2-3=-219/591

BOT CHORD 1-8=-525/225. 7-8=-261/478. 6-7=-261/471

WFBS 3-8=-869/200, 3-6=-503/279

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; cantilever left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 8=322.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 178 lb up at 3-8-3, 69 lb down and 178 lb up at 3-8-3, 14 lb down and 32 lb up at 6-6-2, 14 lb down and 32 lb up at 6-6-2, and 45 lb down and 67 lb up at 9-4-1, and 45 lb down and 67 lb up at 9-4-1 on top chord, and 39 lb down and 144 lb up at 3-8-3, 39 lb down and 144 lb up at 3-8-3, 11 lb down and 7 lb up at 6-6-2, 11 lb down and 7 lb up at 6-6-2, and 29 lb down at 9-4-1, and 29 lb down at 9-4-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-60, 5-9=-20

Concentrated Loads (lb)

Vert: 12=153(F=77, B=77) 15=-57(F=-28, B=-28) 16=168(F=84, B=84) 17=13(F=7, B=7) 18=-24(F=-12, B=-12)

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July 7,2022

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Job Truss Truss Type Qty Ply REED MCDANIEL - PATEL RES. T28192094 T01 3179185 Hip Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:11:43 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-7eb_MpniZ8VnxVx?6E_pVgvFoV4FWK4lh7FwD7z_pjE 4-10-9 13-2-12 17-11-0 21-6-15

3-7-15

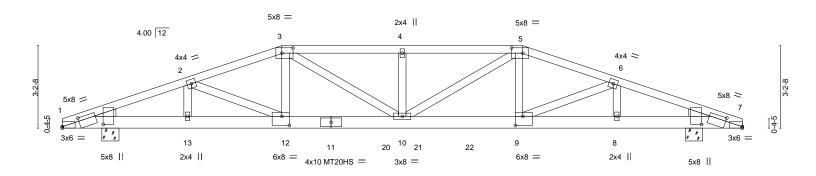
Structural wood sheathing directly applied or 2-3-4 oc purlins.

Rigid ceiling directly applied or 9-2-13 oc bracing.

4-8-4

Scale = 1:44.8

4-10-9



1-6-8	4-10-9	8-6-8	13-2-12	17-11-0	21-6-15	1 24-11-0	26-5-8
1-6-8	3-4-1	3-7-15	4-8-4	4-8-4	3-7-15	3-4-1	1-6-8
Plate Offsets (X,Y)	- [1:0-0-0,0-0-10], [1:0-1-2,1-7-1], [1:0-8	-3,0-1-10], [3:0-5-4,0-2-8], [5	:0-5-4,0-2-8], [7:0-0-0,0-0-10], [7	(:0-1-2,1-7-1], [7:0-8-3,0	0-1-10], [9:0-3-8,0-4-4	-],
	[12:0-3-8,0-4-4		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, 3,1 , 3,1	, ,,,		•
LOADING (psf)	SPACIN	I G- 2-0-0	CSI.	DEFL. in (loc)	l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Gr	ip DOL 1.25	TC 0.74	Vert(LL) -0.19 10	>999 240	MT20	244/190

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	-0.19	10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.36	10	>878	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.50	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matri	x-MS						Weight: 146 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x4 SP M 31 *Except*

4-10-9

3-7-15

3-5: 2x4 SP No.2

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

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

Max Horz 1=-42(LC 32)

Max Uplift 1=-593(LC 4) 7=-597(LC 5) Max Grav 1=1965(LC 1), 7=1987(LC 1)

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

TOP CHORD 1-2=-2807/881, 2-3=-3936/1268, 3-4=-4570/1506, 4-5=-4570/1506, 5-6=-3990/1280,

6-7=-2845/890

BOT CHORD 1-13=-812/2586, 12-13=-812/2586, 10-12=-1158/3736, 9-10=-1146/3787, 8-9=-790/2621,

7-8=-790/2621

WEBS 2-13=-870/308, 2-12=-401/1273, 3-12=-59/393, 3-10=-366/1049, 4-10=-293/145,

5-10=-342/973, 5-9=-56/386, 6-9=-412/1308, 6-8=-880/310

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; cantilever left and right exposed; 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 MT20 plates 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=593, 7=597.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 131 lb down and 95 lb up at 8-6-8, and 220 lb down and 162 lb up at 17-11-0 on top chord, and 240 lb down and 96 lb up at 8-6-8, 230 lb down and 83 lb up at 10-7-4, 305 lb down and 144 lb up at 12-7-4, 305 lb down and 144 lb up at 13-10-4, and 230 lb down and 83 lb up at 15-10-4, and 240 lb down and 96 lb up at 17-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

July 7,2022

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



Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - PATEL RES.
					T28192094
3179185	T01	Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:11:43 2022 Page 2 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-7eb_MpniZ8VnxVx?6E_pVgvFoV4FWK4lh7FwD7z_pjE

LOAD CASE(S) Standard

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

Vert: 1-3=-60, 3-5=-60, 5-7=-60, 1-7=-20

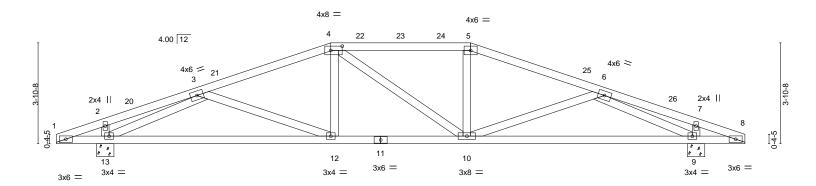
Concentrated Loads (lb)

Vert: 3=-113(F) 5=-173(F) 11=-230(F) 12=-240(F) 9=-240(F) 20=-305(F) 21=-305(F) 22=-230(F)



Job Truss Truss Type Qty Ply REED MCDANIEL - PATEL RES. T28192095 3179185 T02 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:11:44 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-bq9Ma9oKKSdeYfVBgyV21tSVdvPqFmtSwn?Tmaz_pjD

Scale = 1:44.3



	-8 1-10-8 -8 0-4-0	10-6-8				15-11-0			24-7-0		9-4-0 1-6-8
		8-8-0				5-4-8			8-8-0		0-4-0 1-6-8 '
Plate Offset	ts (X,Y)	[4:0-5-4,0-2-0]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.14 12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.29 12-13	>945	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.05 9	n/a	n/a		
BCDL	10.0	Code FBC2020/TF	PI2014	Matri	x-MS	, ,				Weight: 128 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD **BOT CHORD**

REACTIONS.

WFBS

1 0 0 1 10 0

2x4 SP No 2 2x4 SP No 2

2x4 SP No.3

(size) 13=0-8-0, 9=0-8-0 Max Horz 13=-52(LC 17)

Max Uplift 13=-277(LC 8), 9=-277(LC 9) Max Grav 13=1058(LC 1), 9=1058(LC 1)

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

TOP CHORD 1-2=-284/0, 2-3=-268/0, 3-4=-1482/413, 4-5=-1367/418, 5-6=-1482/413, 6-7=-267/0,

7-8=-283/0

BOT CHORD 12-13=-362/1396, 10-12=-301/1366, 9-10=-353/1396

WEBS 3-13=-1449/587, 6-9=-1449/587

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 3-0-0, Interior(1) 3-0-0 to 10-6-8, Exterior(2R) 10-6-8 to 14-9-7, Interior(1) 14-9-7 to 15-11-0, Exterior(2R) 15-11-0 to 20-1-15, Interior(1) 20-1-15 to 26-5-8 zone; cantilever 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) 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=277, 9=277.

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24 44 0 26 5 0

Structural wood sheathing directly applied or 4-4-14 oc purlins.

Rigid ceiling directly applied or 9-8-9 oc bracing.

Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

July 7,2022

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

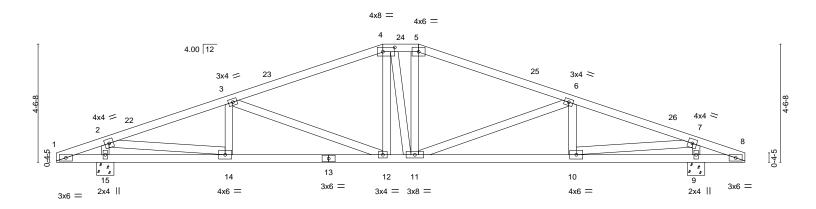
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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



REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192096 3179185 T03 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:11:45 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-31jknVpy5mlVAo4NDf0Ha5_gxJpc_CYb8Rk0l0z_pjC

Scale = 1:44.3



1-6-8 1- ₁ 10 ₇ 8	6-7-9		12-6-8	13-11-0	19-9-15		24-7-0 2	24 _T 11-0 26-5-8
1-6-8 0-4-0	4-9-1	I	5-10-15	1-4-8	5-10-15	1	4-9-1	0 ¹ 4-b 1-6-8
Plate Offsets (X,Y)	[4:0-5-8,0-2-0]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.44	Vert(LL)	-0.07 12-14 >999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.47	Vert(CT)	-0.16 12-14 >999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.03 9 n/a	n/a		
BCDL 10.0	Code FBC2020/Ti	PI2014	Matrix-MS				Weight: 138 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

REACTIONS.

WFBS

2x4 SP No 2 2x4 SP No 2

BOT CHORD 2x4 SP No.3

> (size) 15=0-8-0, 9=0-8-0 Max Horz 15=-62(LC 17)

Max Uplift 15=-266(LC 8), 9=-266(LC 9) Max Grav 15=1058(LC 1), 9=1058(LC 1)

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

2-3=-1641/398, 3-4=-1328/365, 4-5=-1211/370, 5-6=-1330/365, 6-7=-1640/389 TOP CHORD

BOT CHORD 12-14=-337/1517. 11-12=-238/1209. 10-11=-320/1516

WFBS 3-12=-384/152, 6-11=-381/152, 2-15=-943/334, 2-14=-442/1479, 7-9=-942/338,

7-10=-434/1477

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 3-0-0, Interior(1) 3-0-0 to 12-6-8, Exterior(2E) 12-6-8 to 13-11-0, Exterior(2R) 13-11-0 to 18-1-15, Interior(1) 18-1-15 to 26-5-8 zone; cantilever 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) 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=266, 9=266.

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Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

July 7,2022

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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied or 4-5-9 oc purlins.

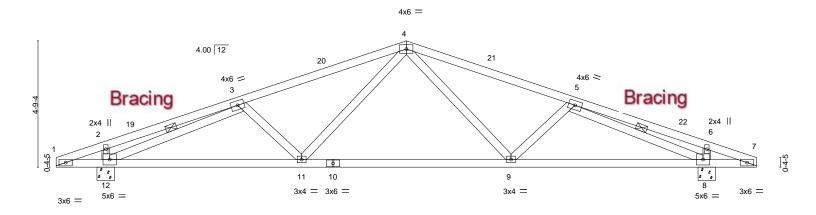
Rigid ceiling directly applied or 10-0-0 oc bracing.

REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192097 3179185 T05 8 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:11:47 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-?PrVCBqDdN?DP6EmL43lfW3we7UuS7uuclD7Mvz_pjA

Scale = 1:43.5

Structural wood sheathing directly applied or 2-9-12 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

3-12. 5-8



1-6-8 1 ₇ 10 ₇ 8 9-3-5 1-6-8 0 ⁻⁴⁻⁰ 7-4-13			-2-3 0-14	-		-7-0 4-13	24 ₇ 11 ₇ -0 26-5-8 0-4-0 1-6-8
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr NO Code FBC2020/TPI2014	CSI. TC 0.81 BC 0.54 WB 0.51 Matrix-MS	Vert(LL) -0.22	oc) l/defl -11 >999 -11 >562 8 n/a	240 180	PLATES MT20 Weight: 125 lb	GRIP 244/190 FT = 20%

BRACING-TOP CHORD

WFBS

BOT CHORD

1 Row at midpt

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP M 31 WFBS

2x4 SP No.3 (size) 12=0-8-0, 8=0-8-0

Max Horz 12=-66(LC 17) Max Uplift 12=-321(LC 8), 8=-321(LC 9) Max Grav 12=1296(LC 1), 8=1296(LC 1)

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

TOP CHORD 3-4=-2164/585, 4-5=-2164/585

BOT CHORD 11-12=-504/2053. 9-11=-349/1570. 8-9=-498/2053

WFBS 4-9=-153/684, 4-11=-153/684, 2-12=-325/178, 3-12=-2171/697, 6-8=-325/178,

5-8=-2171/697

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 3-0-0, Interior(1) 3-0-0 to 13-2-12, Exterior(2R) 13-2-12 to 16-2-12, Interior(1) 16-2-12 to 26-5-8 zone; cantilever 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) except (jt=lb) 12=321, 8=321.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-60, 4-7=-60, 11-13=-20, 9-11=-80(F=-60), 9-16=-20

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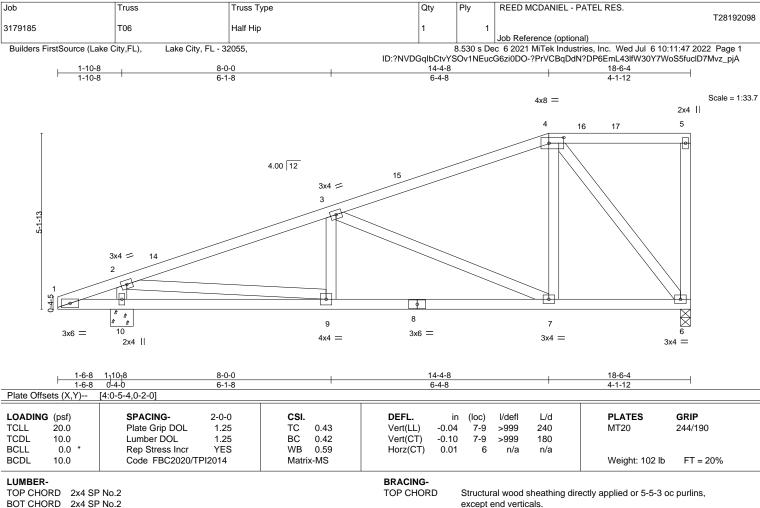
July 7,2022

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BOT CHORD

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

2x4 SP No 2

2x4 SP No 3 WFBS

REACTIONS. (size) 6=0-3-8, 10=0-8-0 Max Horz 10=165(LC 8)

Max Uplift 6=-186(LC 8), 10=-213(LC 8)

Max Grav 6=651(LC 1), 10=819(LC 1)

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

TOP CHORD 2-3=-1107/234 3-4=-516/122 **BOT CHORD** 7-9=-340/998 6-7=-154/437

WFBS 3-7=-620/216, 4-7=-49/409, 4-6=-678/239, 2-10=-721/297, 2-9=-273/876

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 14-4-8, Exterior(2E) 14-4-8 to 18-4-8 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=186, 10=213.

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July 7,2022

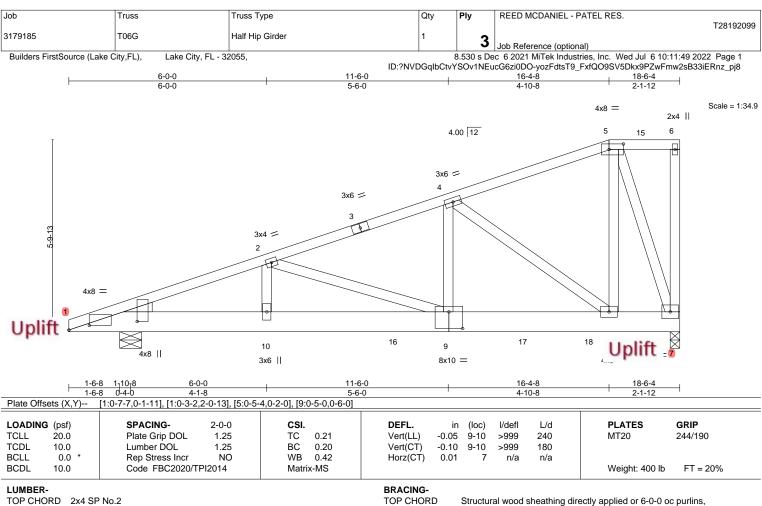


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BOT CHORD

except end verticals.

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

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x8 SP 2400F 2 0F

WFBS 2x4 SP No.3 WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 7=0-3-8, 1=0-8-0 Max Horz 1=188(LC 4)

Max Uplift 7=-1000(LC 4), 1=-653(LC 4)

Max Grav 7=3279(LC 1), 1=2459(LC 1)

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

TOP CHORD 1-2=-4548/1247. 2-4=-4699/1279. 4-5=-1181/306

BOT CHORD 1-10=-1314/4263, 9-10=-1314/4263, 8-9=-1302/4444, 7-8=-333/1157

WEBS 2-10=-289/102, 4-9=-893/3271, 4-8=-4208/1238, 5-8=-894/3235, 5-7=-3271/942

NOTES-

1) 3-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: 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) 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; cantilever left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 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)
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1859 lb down and 589 lb up at 9-10-5, 819 lb down and 230 lb up at 11-9-8, 826 lb down and 231 lb up at 13-9-8, and 689 lb down and 201 lb up at 15-9-8, and 109 lb down and 101 lb up at 17-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - PATEL RES.
					T28192099
3179185	T06G	Half Hip Girder	1	2	
				<u> </u>	Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:11:49 2022 Page 2 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-yozFdtsT9_FxfQO9SV5Dkx9PZwFmw2sB33iERnz_pj8

LOAD CASE(S) Standard

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

Vert: 1-5=-60, 5-6=-60, 1-7=-20

Concentrated Loads (lb)

Vert: 9=-819(B) 16=-1859(B) 17=-826(B) 18=-689(B) 19=-74(B)

24-6-4

4-10-8

29-4-12

4-10-8

34-3-4

4-10-8

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

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

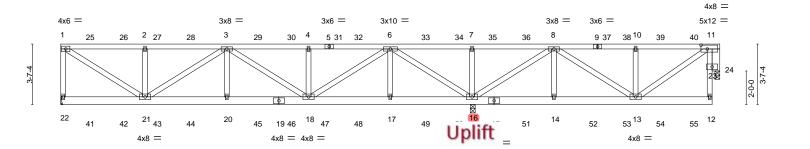
except end verticals.

6-0-0 oc bracing: 14-16,13-14.

19-7-12

4-10-8

Scale = 1:68.7



L	5-0-4	9-10-12	14-9-4	19-7-12	24-6-4 2	24-6-12 29-4-12	34-3-4	39-3-8	
	5-0-4	4-10-8	4-10-8	4-10-8	4-10-8	0-0-8 4-10-0	4-10-8	5-0-4	
Plate C	Offsets (X,Y)	[11:0-4-8,0-2-12]							
LOADI	NG (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)	-0.07 18-20 >999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC 0.35	Vert(CT)	-0.13 18-20 >999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.59	Horz(CT)	0.03 24 n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-MS				Weight: 508 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x4 SP No 2

BOT CHORD 2x6 SP No 2

2x4 SP No.3 WERS

OTHERS 2x6 SP No.2

REACTIONS. 22=Mechanical, 16=0-3-8, 24=0-3-8

9-10-12

4-10-8

14-9-4

4-10-8

Max Uplift 22=-569(LC 4), 16=-1385(LC 4), 24=-215(LC 4) Max Grav 22=1879(LC 1), 16=4553(LC 1), 24=710(LC 1)

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

TOP CHORD 1-22=-1694/540, 1-2=-2332/708, 2-3=-2332/708, 3-4=-2686/815, 4-6=-2686/815,

6-7=-719/2357, 7-8=-719/2357, 8-10=-621/187, 10-11=-621/187 20-21=-971/3192. 18-20=-971/3192. 17-18=-237/782. 16-17=-237/782

BOT CHORD **WEBS** 1-21=-830/2743, 2-21=-451/217, 3-21=-1032/316, 3-20=-76/530, 3-18=-607/186,

4-18=-430/205, 6-18=-694/2284, 6-17=-54/478, 6-16=-3765/1147, 7-16=-461/214, $8-16 = -2531/772, \ 8-14 = -56/484, \ 8-13 = -315/1041, \ 10-13 = -441/208, \ 11-13 = -173/587, \ 10-13 = -441/208, \ 11-13 = -173/587, \ 10-13$

11-24=-758/232

NOTES-

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

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

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

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; 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
- 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) 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) Refer to girder(s) for truss to truss connections.
- 10) Bearing at joint(s) 24 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 22=569, 16=1385, 24=215.

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

Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

July 7,2022

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ANSI/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	REED MCDANIEL - PATEL RES.
					T28192100
3179185	T07	Roof Special Girder	1	2	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:11:55 2022 Page 2 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-myKWuwxEkq04NLrlpmCd_CPL4LGjKjg3S?9YeRz_pj2

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 49 lb up at 1-8-0, 56 lb down and 49 lb up at 3-8-0, 56 lb down and 49 lb up at 5-8-0, 56 lb down and 49 lb up at 7-8-0, 56 lb down and 49 lb up at 11-8-0, 56 lb down and 49 lb up at 11-8-0, 56 lb down and 49 lb up at 13-8-0, 56 lb down and 49 lb up at 15-8-0, 56 lb down and 49 lb up at 17-8-0, 56 lb down and 49 lb up at 21-8-0, 56 lb down and 40 lb up at 21-8-0, 56 lb down and 40 lb up at 21-8-0, 56 lb down and 40 lb up at 21-8-0, 56 lb down and 40 lb up at 21-8-0, 56 lb down and 40 lb up at 21-8-0, 56 lb do lb up at 23-8-0, 56 lb down and 49 lb up at 25-8-0, 56 lb down and 49 lb up at 27-8-0, 56 lb down and 49 lb up at 31-8-0, and 49 lb up at 33-8-0, and 56 lb down and 49 lb up at 35-8-0, and 56 lb down and 49 lb up at 37-8-0 on top chord, and 158 lb down and 56 lb up at 1-8-0, 158 lb down and 56 lb up at 3-8-0, 158 lb down and 56 lb up at 5-8-0, 158 lb down and 56 lb up at 7-8-0, 158 lb down and 56 lb up at 9-8-0, 158 lb down and 56 lb up at 11-8-0, 158 lb down and 56 lb up at 13-8-0, 158 lb down and 56 lb up at 15-8-0, 158 lb down and 56 lb up at 17-8-0, 158 lb down and 56 lb up at 19-8-0 at 21-8-0, 158 lb down and 56 lb up at 23-8-0, 158 lb down and 56 lb up at 25-8-0, 158 lb down and 56 lb up at 27-8-0, 158 lb down and 56 lb up at 29-8-0, 158 lb down and 56 lb up at 31-8-0, 158 lb down and 56 lb up at 33-8-0, and 158 lb down and 56 lb up at 35-8-0, and 158 lb down and 56 lb up at 37-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert: 1-11=-60, 12-22=-20

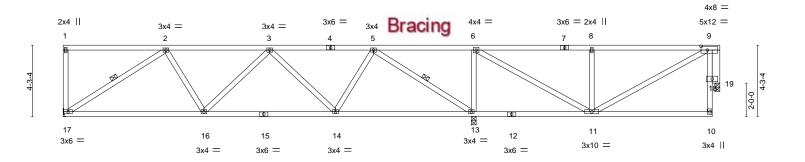
Concentrated Loads (lb)

Vert: 3=-56(B) 20=-158(B) 17=-158(B) 6=-56(B) 14=-158(B) 8=-56(B) 15=-158(B) 25=-56(B) 26=-56(B) 27=-56(B) 28=-56(B) 29=-56(B) 30=-56(B) 31=-56(B) 32=-56(B) 33=-56(B) 34=-56(B) 35=-56(B) 36=-56(B) 37=-56(B) 38=-56(B) 39=-56(B) 40=-56(B) 42=-158(B) 42=-158(B) 43=-158(B) 44=-158(B) 45=-158(B) 46=-158(B) 47=-158(B) 48=-158(B) 49=-158(B) 50=-158(B) 51=-158(B) 52=-158(B) 53=-158(B) 54=-158(B) 55=-158(B)



Job		Truss		Truss Type		Qty	Ply	REED MCDANIE	L - PATEL RES.	
										T28192101
3179185		T08		Roof Special		1	1			
								Job Reference (or	otional)	
Builders FirstS	Source (Lake C	City,FL),	Lake City, FL - 32	2055,			3.530 s De	c 6 2021 MiTek In	dustries, Inc. Wed Jul 6 10:11:56	6 2022 Page 1
			•		ID:?NV	OGqlbCtv\	SOv1NEu	cG6zi0DO-F8uu5G	GxsV88x?VQVNTjsWPxVxIWx3C	JDgfv6Btz_pj1
1	6-1-12	1	12-4-4	18-6-13	24-6-12			31-7-8	39-3-8	1
	6-1-12		6-2-9	6-2-9	5-11-15			7-0-12	7-8-0	

Scale = 1:68.9



L		8-5-1	16-3-8			24-6-12		31-7-8	1	39-3-8	
		8-5-1	7-10-7			8-3-4		7-0-12		7-8-0	
Plate Offse	ets (X,Y)	[9:0-4-8,0-2-12]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.58		-0.13 16-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.27 16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.05 19	n/a	n/a		
BCDL	10.0	Code FBC2020/T	TPI2014	Matrix	x-MS					Weight: 215 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD

REACTIONS.

2x4 SP No 2 2x4 SP No 2

BOT CHORD 2x4 SP No.3 WFBS

OTHERS 2x6 SP No.2

(size) 17=Mechanical, 13=0-3-8, 19=0-3-8

Max Uplift 17=-210(LC 8), 13=-484(LC 8), 19=-79(LC 8) Max Grav 17=839(LC 1), 13=1926(LC 1), 19=317(LC 1)

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

TOP CHORD 2-3=-1070/363, 3-5=-787/261, 5-6=-284/756

BOT CHORD 16-17=-361/947, 14-16=-419/1112, 13-14=-198/510, 11-13=-756/284

WFBS 2-17=-1101/426, 2-16=-4/348, 3-14=-463/225, 5-14=-128/561, 5-13=-1519/578,

6-13=-924/426, 6-11=-404/1084, 8-11=-457/269, 9-19=-336/123

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 Corner(3) 0-1-12 to 4-1-12, Exterior(2) 4-1-12 to 34-8-4, Corner(3) 34-8-4 to 38-8-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19 except (jt=lb) 17=210, 13=484.

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Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

July 7,2022



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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



Structural wood sheathing directly applied or 5-4-6 oc purlins,

2-17, 5-13

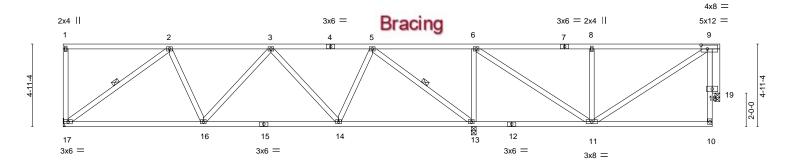
Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

1 Row at midpt

Job	Truss		Truss Type		Qty	Ply	REED MCDANIE	L - PATEL RES.	
									T28192102
3179185	T09		Roof Special		1	1			
							Job Reference (op	itional)	
Builders FirstSource (La	ake City,FL),	Lake City, FL - 32	2055,			8.530 s De	c 6 2021 MiTek Ind	dustries, Inc. Wed Jul 6 10:11:57	2022 Page 1
				ID:?NVD	GqlbCtv	YSOv1NEt	cG6zi0DO-jKSGJc	yUGSGoce?hwBE53dUh89sGofxl	MvJefjKz_pj0
6-4-5	5 1	12-5-2	18-5-15	24-6-12			31-7-8	39-3-8	1
6-4-5	5	6-0-13	6-0-13	6-0-13	1		7-0-12	7-8-0	1

Scale = 1:68.9



1		8-4-9	16-5-11	1		24-6-12	1		31-7-8	1	39-3-8	1
		8-4-9	8-1-1			8-1-1	1		7-0-12		7-8-0	
Plate Offs	ets (X,Y)	[9:0-4-8,0-2-12]										
LOADING	(ncf)	SPACING-	2-0-0	CSI.		DEFL.	in ((loc)	l/defl	L/d	PLATES	GRIP
TCLL	(μsi) 20.0	Plate Grip DOL		TC	0.55		in (-0.12 16	/	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25		0.67	- ' '	-0.25 16		>999	180	WITZO	244/100
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.05	19	n/a	n/a		
BCDL	10.0	Code FBC2020	/TPI2014	Matrix	-MS						Weight: 226 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

BOT CHORD 2x4 SP No.3 WFBS

OTHERS 2x6 SP No.2

REACTIONS.

(size) 17=Mechanical, 13=0-3-8, 19=0-3-8

Max Uplift 17=-211(LC 8), 13=-479(LC 8), 19=-81(LC 8) Max Grav 17=846(LC 1), 13=1909(LC 1), 19=328(LC 1)

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

TOP CHORD 2-3=-933/318. 3-5=-684/228. 5-6=-231/615

BOT CHORD 16-17=-319/841, 14-16=-363/964, 13-14=-181/475, 11-13=-615/231

WFBS 2-17=-1020/391, 2-16=0/334, 3-14=-426/206, 5-14=-116/531, 5-13=-1373/519,

6-13=-916/423, 6-11=-353/952, 8-11=-457/269, 9-19=-339/123

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 Corner(3) 0-1-12 to 4-1-12, Exterior(2) 4-1-12 to 34-8-4, Corner(3) 34-8-4 to 38-8-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 3x4 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19 except (jt=lb) 17=211, 13=479.

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July 7,2022

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Structural wood sheathing directly applied or 5-8-5 oc purlins,

2-17, 5-13

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

except end verticals.

1 Row at midpt

REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192103 3179185 T10 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:11:58 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-BX0fWyz61IOfEoatUulKcq1r1YI6X?ZW8zODFmz_pj?

30-0-0

36-6-12

43-1-8

6-6-12

13-1-8

Structural wood sheathing directly applied or 5-4-1 oc purlins,

5-20, 11-13

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

49-11-12

6-10-4

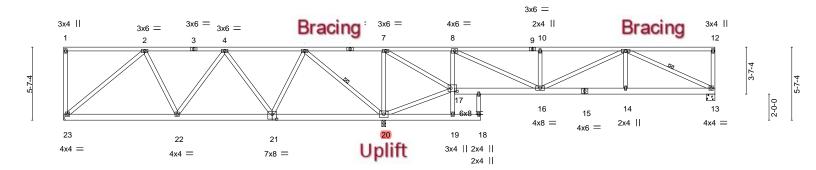
10-11-12

24-6-12

6-0-13

24-6-12

Scale = 1:88.4



+	8-8-			8-6-1			2-0-0	4-6-12		6-6-12	6-10-4	
Plate Off	sets (X,Y)	[17:0-5-8,0-3-0], [21:0-4-0	0,0-4-8]									
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	0.61	Vert(LL)	-0.06	14-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	ВС	0.31	Vert(CT)	-0.12	14-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS						Weight: 337 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

30-0-0

32-0-0

36-6-12

except end verticals.

1 Row at midpt

10-0-0 oc bracing: 17-19

LUMBER-

TOP CHORD 2x4 SP No.2

8_8_8

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

8-19: 2x4 SP No.3

WFBS 2x4 SP No.3

REACTIONS.

23=Mechanical, 13=0-8-0, 20=0-3-8

6-1-11

6-1-11

Max Uplift 23=-181(LC 8), 13=-189(LC 8), 20=-611(LC 8) Max Grav 23=709(LC 1), 13=763(LC 1), 20=2546(LC 1)

16-0-0

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

2-4=-609/210, 5-7=-415/1186, 8-10=-1026/361, 10-11=-1026/361 TOP CHORD

BOT CHORD 22-23=-230/571, 21-22=-218/542, 8-17=-921/413, 14-16=-402/1120, 13-14=-402/1120 $2-23 = -732/295,\ 4-21 = -555/241,\ 5-21 = -164/663,\ 5-20 = -1486/561,\ 7-20 = -935/399,$ WFBS

17-20=-1240/445, 7-17=-400/1178, 8-16=-466/1295, 10-16=-390/229, 11-14=0/284,

11-13=-1199/427

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 Corner(3) 0-1-12 to 4-1-12, Exterior(2) 4-1-12 to 45-10-0, Corner(3) 45-10-0 to 49-10-0 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) 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) 23=181, 13=189, 20=611.

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July 7,2022

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REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192104 3179185 T11 Half Hip Job Reference (optional)

27-2-1

5-3-1

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

4-11-2

10-11-8

5-0-14

15-11-8

5-0-0

21-10-15

5-11-7

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:00 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-7v7Pxd_NZNeNT6kGcJoohF67xMut?xqobHtJJez_piz 39-0-8 43-4-2 47-7-12 49-11-12 33-3-4

4-3-10

13-1-2

Structural wood sheathing directly applied or 3-0-15 oc purlins,

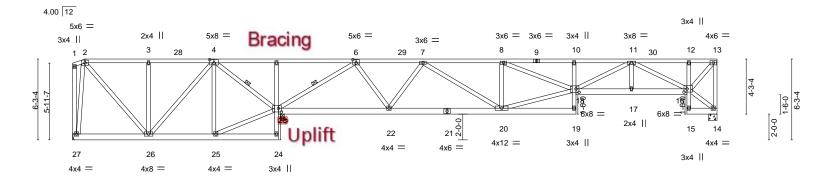
4-23, 6-23

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

/7-7-12 /Q-11-12

4-3-10

Scale = 1:89.4



L	3-11-0	10-11-0	13-11-0 1	011-0 24-	0-7	1 33-3-4			39-0-0		43-4-2	1 4/-/-12	+3-11-14
	5-11-8	5-0-0	5-0-0	0-2-0 8-4	-15	8-8-13		- 1	5-9-4	1	4-3-10	4-3-10	2-4-0
Plate Offs	ets (X,Y)	[4:0-4-0,0-3-0], [6:0-3-0,	,0-3-0], [16:0-	-2-12,0-3-0], [18	:0-2-12,0-3-4], [23:0-2-12,0-3-8	3]						
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	0.84	Vert(LL)	-0.19	19	>999	240		MT20	244/190
TCDL	10.0	Lumber DOL	1.25	ВС	0.68	Vert(CT)	-0.37	19	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.11	14	n/a	n/a			
BCDL	10.0	Code FBC2020/	TPI2014	Matri	x-MS	, ,						Weight: 365 I	b FT = 20%
				1		I .					1	-	

33-3-4

BOT CHORD

WEBS

30-0-8

except end verticals.

1 Row at midpt

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

15-11-8 16-1-8

24-6-7

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

5_11_8

5-24,10-19,12-15: 2x4 SP No.3 WFBS 2x4 SP No.3

REACTIONS. (size) 14=0-8-0, 27=Mechanical, 23=0-3-8

10-11-8

Max Horz 27=10(LC 8)

Max Uplift 14=-278(LC 8), 27=-85(LC 12), 23=-699(LC 8) Max Grav 14=1113(LC 1), 27=130(LC 22), 23=2772(LC 1)

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

TOP CHORD 4-5=-523/2086, 5-6=-521/2075, 6-7=-678/143, 7-8=-1980/489, 8-10=-3044/769,

10-11=-3067/771, 11-12=-923/234, 12-13=-885/224, 13-14=-1074/277 BOT CHORD 25-26=-604/181, 5-23=-359/153, 20-22=-316/1230, 10-18=-285/125, 17-18=-586/2352,

16-17=-586/2352

WEBS $3-26=-327/170,\ 4-26=-200/769,\ 4-25=-42/370,\ 23-25=-590/190,\ 4-23=-1900/477,$

6-23=-2482/635, 6-22=-233/1194, 7-22=-984/308, 7-20=-225/890, 8-20=-827/281,

18-20=-461/1868, 8-18=-304/1157, 11-18=-211/812, 11-16=-1623/399, 13-16=-344/1358

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) 0-1-12 to 0-11-8, Exterior(2R) 0-11-8 to 8-0-5, Interior(1) 8-0-5 to 49-10-0 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) 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.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27 except (jt=lb) 14=278, 23=699.

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

Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

July 7,2022

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



REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192105 3179185 T12 HIP Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:02 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-3IF9MJ0d5_u5jQuejkqGmgBT3AcfTtb53aMQNXz_pix 53-6-0

44-1-3 7-0-13

Structural wood sheathing directly applied or 3-3-11 oc purlins,

4-25, 10-22

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

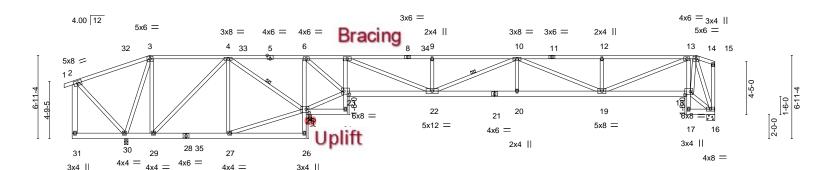
except end verticals.

1 Row at midpt

29-11-9 7-0-13

22-10-12

19-5-12 6-6-0



				22-10-12						
	4-4-4	6-5-12 1 12-11-12	19-5-12	19-7₁12	29-11-9		37-0-6	44-1-3	51-2-0	53-6-0
	4-4-4	2-1-8 6-6-0	6-6-0	0-2-0 3-2-15	7-0-13		7-0-13	7-0-13	7-0-13	2-4-0
Plate Offs	sets (X,Y)	[5:0-3-0,Edge], [18:0-5-8,	0-3-0], [23:0-5-	12,0-3-0], [25:0-	-2-12,0-3-8]					
LOADING	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 0.8	86	Vert(LL)	-0.21 19-20	>999 240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC 0.	53	Vert(CT)	-0.39 19-20	>999 180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.	70	Horz(CT)	0.10 16	n/a n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-M	s				Weight: 394 It	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x4 SP No 2

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

6-26,7-24,13-17: 2x4 SP No.3

WEBS 2x4 SP No.3 *Except*

7-22,13-19: 2x4 SP No.2, 2-31: 2x6 SP No.2

REACTIONS. (size) 30=0-3-8, 25=0-3-8, 16=0-8-0

Max Horz 30=119(LC 9)

Max Uplift 30=-203(LC 8), 25=-717(LC 9), 16=-276(LC 9) Max Grav 30=515(LC 22), 25=2944(LC 26), 16=1175(LC 26)

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

TOP CHORD 4-6=-455/1974, 6-7=-290/1247, 7-9=-1479/355, 9-10=-1479/355, 10-12=-2456/608, 12-13=-2456/608, 13-14=-749/225

BOT CHORD 27-29=-445/114, 6-25=-869/264, 7-23=-1402/403, 22-23=-1200/286, 20-22=-623/2663,

19-20=-623/2663, 18-19=-227/812, 13-18=-1066/420

WEBS 4-29=-166/488, 4-27=0/420, 25-27=-418/104, 4-25=-1905/469, 23-25=-2101/513, 6-23=-228/973, 7-22=-673/2900, 9-22=-433/189, 10-22=-1292/342, 10-20=0/279,

12-19=-433/204, 13-19=-404/1787, 14-18=-476/1509, 2-30=-324/302, 14-16=-1477/374,

16-18=-112/524

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) -0-8-0 to 4-8-3, Interior(1) 4-8-3 to 6-5-12, Exterior(2R) 6-5-12 to 14-0-9, Interior(1) 14-0-9 to 51-11-4, Exterior(2E) 51-11-4 to 53-4-4 zone; cantilever left exposed; end vertical left 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 100 lb uplift at joint(s) except (jt=lb) 30=203, 25=717, 16=276,

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1-6-12

Scale: 1/8"=1

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July 7,2022

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

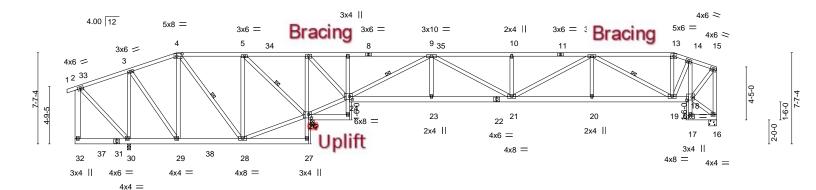
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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



REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192106 3179185 T13 HIP Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:05 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-Utxl_L2VNvGgatcDOsN_OJp1XNe_gBiXlYa4_sz_piu

Scale: 1/8"=1



4-4-4	-12 19-5-12 19-7 ₁ -12 29-8-12 36-5-0 43-1-4 49-11-4 51-2-Q 53-6-0
4-4-4	-0 5-6-0 0-2-0 3-2-15 6-10-0 6-8-4 6-8-4 6-10-0 1-2-12 2-4-0
Plate Offsets (X,Y)	5-8,0-3-0], [24:0-2-12,0-3-0], [26:0-2-12,0-3-8]
OADING (psf)	2-0-0 CSI. DEFL. in (loc) I/defl L/d PLATES GRIP
CLL 20.0	_ 1.25 TC 0.65 Vert(LL) -0.15 20-21 >999 240 MT20 244/190
CDL 10.0	1.25 BC 0.49 Vert(CT) -0.28 20-21 >999 180
CLL 0.0 *	or YES WB 0.81 Horz(CT) 0.09 16 n/a n/a
CDL 10.0	20/TPI2014 Matrix-MS Weight: 412 lb FT = 20%
CLL 0.0 *	or YES WB 0.81 Horz(CT) 0.09 16 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

WEBS

22-10-12

LUMBER-TOP CHORD 2x4 SP No 2

13-11-12 5-6-0

BOT CHORD 2x6 SP No.2 *Except*

6-27,7-25,14-17: 2x4 SP No.3

WEBS 2x4 SP No.3 *Except* 2-32: 2x6 SP No.2

REACTIONS. (size) 30=0-3-8, 26=0-3-8, 16=0-8-0

Max Horz 30=112(LC 9)

Max Uplift 30=-212(LC 8), 26=-694(LC 9), 16=-281(LC 9) Max Grav 30=572(LC 25), 26=2830(LC 26), 16=1204(LC 26)

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

TOP CHORD 4-5=-88/438, 5-6=-357/1553, 6-7=-178/759, 7-9=-170/730, 9-10=-2263/552

 $10 - 12 = -2263/552,\ 12 - 13 = -1049/297,\ 13 - 14 = -1092/295,\ 14 - 15 = -770/206,\ 15 - 16 = -1157/311$

BOT CHORD 6-26=-1068/299, 7-24=-325/149, 23-24=-292/1352, 21-23=-292/1352, 20-21=-532/2197,

19-20=-532/2197, 18-19=-184/720, 14-18=-817/199

WEBS 3-30=-272/172, 4-28=-523/153, 5-28=-119/787, 26-28=-418/114, 5-26=-1560/397,

24-26=-1623/418, 6-24=-272/1186, 9-24=-2344/549, 9-23=0/286, 9-21=-281/1048, 10-21=-385/174, 12-20=0/274, 12-19=-1323/316, 14-19=-184/776, 15-18=-281/1111

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) -0-8-0 to 4-6-0, Interior(1) 4-6-0 to 8-5-12, Exterior(2R) 8-5-12 to 16-0-9, Interior(1) 16-0-9 to 49-11-4, Exterior(2E) 49-11-4 to 53-4-4 zone; cantilever left exposed; end vertical left 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 100 lb uplift at joint(s) except (jt=lb) 30=212, 26=694, 16=281.

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Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

July 7,2022

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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



Structural wood sheathing directly applied or 3-6-14 oc purlins,

4-28, 5-26, 9-24, 12-19

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

6-0-0 oc bracing: 29-30,28-29,27-28,25-26.

except end verticals.

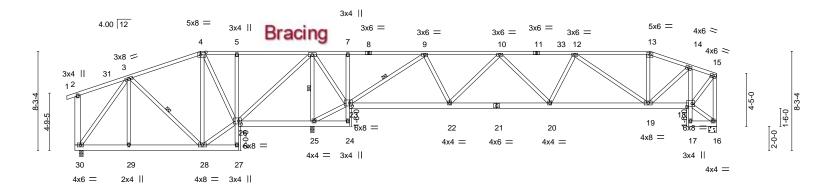
1 Row at midpt

REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192107 3179185 T14 HIP Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:06 2022 Page 1

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

ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-y3UgBh378DOXB1BQyavDwWMExn?ePdKhzCKeWlz_pit 4-6-0 10-5-12 13-7-12 19-9-8 22-10-12 29-1-14 35-5-0 41-8-2 47-11-4 51-2-0 | 53-6-0 | 3-2-12 | 2-4-0 | 4-6-0 5-11-12 3-2-0 6-1-12 3-1-3 6-3-2 6-3-2 6-3-2

Scale: 1/8"=1



	1-4-12 4-1-4	' 5-11-12 ' 3-2-0			-	8-4-3	8-4-3	<u> </u>	8-4-3	' 3-2-12 ' 2	2-4-0 '
Plate Off	sets (X,Y)	[4:0-5-4,0-2-8], [18:0-5-8,	0-3-0], [23:0-2	2-12,0-3-0], [2	6:0-2-12,0-3	3-0]					
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	0.55	Vert(LL)	-0.09 20-22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.19 20-22	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.07 16	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	k-MS	, ,				Weight: 408 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

31-2-14

39-7-1

except end verticals.

1 Row at midpt

47-11-4

Structural wood sheathing directly applied or 4-0-15 oc purlins,

3-28, 6-25, 9-23

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

51-2-0 53-6-0

22-10-12

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP No.2 *Except*

5-27,7-24,14-17: 2x4 SP No.3 **WEBS** 2x4 SP No.3 *Except*

2-30: 2x6 SP No.2

REACTIONS. (size) 30=0-3-8, 25=0-3-8, 16=0-8-0

0-4-12 4-6-0 | 10-5-12 | 13-7-12 | 19-9-8

Max Horz 30=105(LC 9)

Max Uplift 30=-141(LC 12), 25=-704(LC 8), 16=-276(LC 9) Max Grav 30=451(LC 23), 25=2750(LC 1), 16=1117(LC 24)

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

TOP CHORD 4-5=-79/394, 5-6=-79/390, 6-7=-173/752, 7-9=-167/728, 9-10=-1179/308,

10-12=-1782/489, 12-13=-1161/358, 13-14=-1248/360, 14-15=-720/204, 15-16=-1081/304

BOT CHORD 5-26=-321/163, 25-26=-1254/347, 7-23=-252/117, 22-23=-195/860, 20-22=-400/1653,

19-20=-464/1767, 18-19=-185/678, 14-18=-765/223

WEBS 3-30=-324/106, 3-28=-296/172, 4-28=-86/356, 4-26=-630/191, 6-26=-403/1309,

6-25=-1942/560, 23-25=-1353/395, 6-23=-216/915, 9-23=-1891/491, 9-22=-132/750,

10-22=-696/241, 12-19=-779/217, 14-19=-152/656, 15-18=-282/1041

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) -0-8-0 to 4-6-0, Interior(1) 4-6-0 to 10-5-12, Exterior(2R) 10-5-12 to 18-0-9, Interior(1) 18-0-9 to 47-11-4, Exterior(2E) 47-11-4 to 53-4-4 zone; cantilever left exposed; end vertical left 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 30=141, 25=704, 16=276.

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July 7,2022

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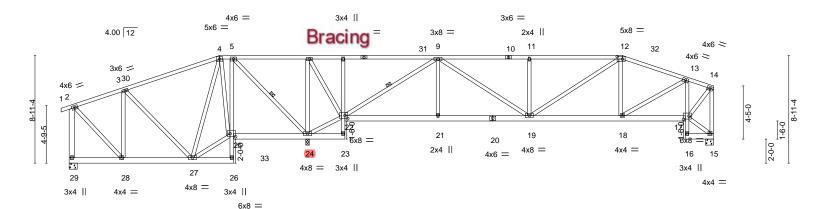
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192108 3179185 T15 HIP Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:08 2022 Page 1

ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-uScRcM5OgqeERLLo4?xh0xRX0aietWU_RWpkbBz_pir 19-9-8 22-10-12 30-7-8 38-2-8 45-11-4 51-2-0 6-1-12 3-1-3 7-8-12 7-8-12 5-2-12

Scale: 1/8"=1



	4-6-0	<u> </u>	2 ₁ 19-9-8	₁ 22-10-12 ₁	30-7-8	38-2-8	45-11-4		53-6-0 ₁
	4-6-0	5-8-15 3-4-1	6-1-12	3-1-3	7-8-12	7-7-0	7-8-12	5-2-12	2-4-0
Plate Offs	ets (X,Y)	[12:0-5-4,0-2-8], [17:0-5-	8,0-3-0], [22:0-2-	12,0-3-0], [25:0-5-8	3,0-3-0]				
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.77	Vert(LL	-0.10 19-21	>999 240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC 0.36	Vert(CT) -0.19 19-21	>999 180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.93	Horz(C	Γ) 0.07 15	n/a n/a		
BCDL	10.0	Code FBC2020/7	PI2014	Matrix-MS				Weight: 418 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD

2x4 SP No.2

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

5-26,7-23,13-16: 2x4 SP No.3

WEBS 2x4 SP No.3 *Except* 2-29: 2x6 SP No.2

REACTIONS. (size) 29=0-8-0, 24=0-3-8, 15=0-8-0

Max Horz 29=98(LC 9)

Max Uplift 29=-138(LC 12), 24=-690(LC 8), 15=-279(LC 9) Max Grav 29=517(LC 25), 24=2888(LC 2), 15=1207(LC 26)

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

TOP CHORD 2-3=-286/123, 4-5=-42/320, 5-6=-220/1084, 6-7=-98/543, 7-9=-90/519, 9-11=-1764/496,

 $11-12 = -1764/496,\ 12-13 = -1480/403,\ 13-14 = -785/207,\ 2-29 = -457/146,\ 14-15 = -1160/301$

BOT CHORD 27-28=-170/263, 5-25=-210/699, 24-25=-319/127, 7-22=-334/151, 21-22=-228/1166,

19-21=-228/1166, 18-19=-317/1360, 17-18=-197/765, 13-17=-783/250

3-27=-331/196, 4-27=-116/489, 25-27=-286/121, 4-25=-600/238, 5-24=-1308/392, 6-24=-1142/322, 22-24=-1143/347, 6-22=-247/1081, 9-22=-1987/474, 9-21=0/327,

9-19=-225/725, 11-19=-492/233, 12-19=-137/539, 13-18=-144/705, 2-28=-111/383,

14-17=-295/1156

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) -0-8-0 to 4-6-0, Interior(1) 4-6-0 to 12-5-12, Exterior(2R) 12-5-12 to 19-9-8, Interior(1) 19-9-8 to 45-11-4, Exterior(2E) 45-11-4 to 53-4-4 zone; cantilever left exposed; end vertical left 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 100 lb uplift at joint(s) except (jt=lb) 29=138, 24=690, 15=279,

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Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

July 7,2022

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Structural wood sheathing directly applied or 2-2-0 oc purlins,

5-24, 9-22

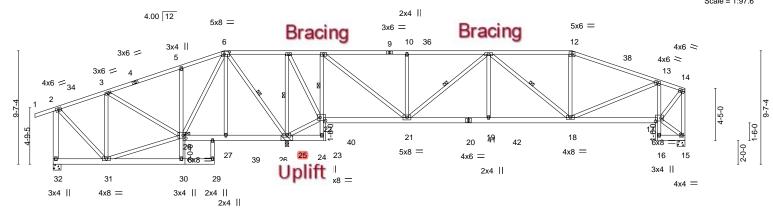
Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

1 Row at midpt

Job Truss Truss Type Qty Ply REED MCDANIEL - PATEL RES. T28192109 3179185 T16 diH Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:11 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-I1IZFO7Gzl1plo4Nl7UOda33?oig4wQQ7U1PCWz_pio

Scale = 1:97.6



22-10-12 11-0-0 Plate Offsets (X,Y)--[6:0-5-4,0-2-8], [17:0-5-8,0-3-0], [22:0-5-8,0-3-0], [28:0-2-12,0-3-0] 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 0.59 Vert(LL) -0.09 19-21 >999 240 MT20 244/190 TCDL Vert(CT) 10.0 Lumber DOL 1.25 BC 0.40 -0.16 19-21 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.73 Horz(CT) 0.06 15 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 439 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP No.2 *Except*

5-30,8-23,13-16: 2x4 SP No.3

WFBS 2x4 SP No.3 *Except*

2-32: 2x6 SP No.2

(size) 32=0-8-0, 25=(0-3-8 + bearing block) (req. 0-3-11), 15=0-8-0

2x4 ||

14-5-12

Max Horz 32=96(LC 9)

Max Uplift 32=-137(LC 12), 25=-691(LC 8), 15=-275(LC 9) Max Grav 32=537(LC 25), 25=3116(LC 2), 15=1214(LC 26)

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

2-3=-257/95, 3-5=-104/278, 5-6=-78/276, 6-7=-217/1174, 7-8=-119/682, 8-10=-878/257, TOP CHORD

10-11=-878/257, 11-12=-1393/400, 12-13=-1528/393, 13-14=-812/210, 2-32=-498/166,

14-15=-1175/282

BOT CHORD 5-28=-318/197, 27-28=-451/168, 25-27=-450/168, 8-22=-1437/402, 21-22=-666/220,

19-21=-318/1531, 18-19=-318/1531, 17-18=-228/828, 13-17=-795/288

3-28=-284/135, 6-28=-287/811, 7-25=-1169/318, 22-25=-1276/372, 7-22=-226/1073, **WEBS**

8-21=-445/1909, 10-21=-428/186, 11-21=-865/246, 11-19=0/340, 13-18=-95/629,

2-31=-62/317. 14-17=-327/1223. 6-25=-1356/363

NOTES-

REACTIONS.

- 1) 2x6 SP No.2 bearing block 12" long at jt. 25 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SP No.2.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) 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) -1-6-8 to 3-9-11, Interior(1) 3-9-11 to 14-5-12, Exterior(2R) 14-5-12 to 22-0-9, Interior(1) 22-0-9 to 43-11-4, Exterior(2R) 43-11-4 to 51-3-12, Interior(1) 51-3-12 to 53-4-4 zone; cantilever left exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 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) except (jt=lb) 32=137, 25=691, 15=275.

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July 7,2022

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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied or 3-10-14 oc purlins,

7-25, 11-21, 11-18, 6-25

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

except end verticals.

10-0-0 oc bracing: 28-30

1 Row at midpt

1 Row at midpt

1 Brace at Jt(s): 28

REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192110 3179185 T17 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:12 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-nDsxSk8uk39gvyeZJq?dAncAZCz9pLvZM8nykyz_pin

29-7-12

Scale = 1:84.8

47-10-0

5-10-9

47-10-0

5-10-9

41-11-7

5-8-3

5-8-3

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

3-22, 5-19, 6-17, 6-16, 8-14

Rigid ceiling directly applied or 8-9-15 oc bracing.

except end verticals.

1 Row at midpt

36-3-4

6-7-8

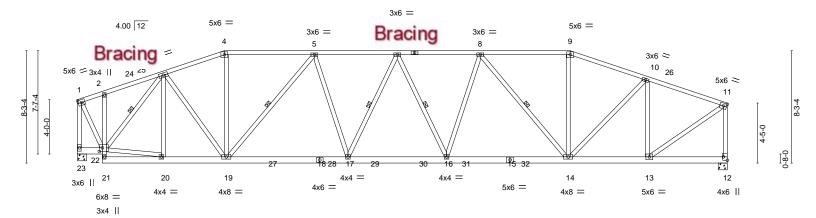


Plate Offsets (X,Y)-	[12:Edge,0-3-8], [22:0-2-12,0-3-4]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.86	Vert(LL) -0.23 14-16 >999 240	MT20 244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.71	Vert(CT) -0.41 14-16 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.84	Horz(CT) 0.10 12 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 374 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD

2x4 SP No 2

2x6 SP No.2 *Except* **BOT CHORD** 2-21: 2x4 SP No.3

WFBS 2x4 SP No.3

1-10-0 1-10-0

REACTIONS. (size) 23=0-8-0, 12=0-8-0

Max Horz 23=-62(LC 13)

Max Uplift 23=-457(LC 8), 12=-458(LC 9) Max Grav 23=2114(LC 2), 12=2111(LC 2)

10-9-12

4-5-14

10-9-12

4-5-14

6-7-8

4-5-14

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

TOP CHORD 1-2=-888/216, 2-3=-919/264, 3-4=-2454/635, 4-5=-2302/622, 5-6=-3182/805,

6-8=-3213/811, 8-9=-2408/651, 9-10=-2578/658, 10-11=-1959/482, 1-23=-1946/465,

19-10-15

9-1-3

11-12=-2012/502

BOT CHORD 20-21=-99/458, 19-20=-422/1798, 17-19=-658/3018, 16-17=-705/3263, 14-16=-683/3069,

13-14=-423/1821

WEBS 20-22=-327/1356, 3-22=-1586/358, 3-19=-163/885, 4-19=-58/509, 5-19=-1177/299,

5-17=-90/587, 6-17=-272/149, 8-16=-80/525, 8-14=-1100/281, 9-14=-54/533,

10-14=-163/875, 10-13=-1105/335, 1-22=-432/1828, 11-13=-511/2206

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) 0-1-12 to 4-11-2, Interior(1) 4-11-2 to 10-9-12, Exterior(2R) 10-9-12 to 17-5-4, Interior(1) 17-5-4 to 36-3-4, Exterior(2R) 36-3-4 to 43-0-7, Interior(1) 43-0-7 to 47-8-4 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) 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 100 lb uplift at joint(s) except (jt=lb) 23=457, 12=458.

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July 7,2022

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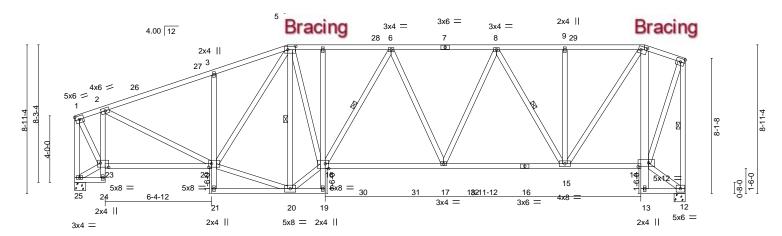


REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192111 3179185 T18 diH Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:14 2022 Page 1

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

ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-jczitQ99GgPO9GoyQF25FChdv?cYHH4spSG3oqz_pil 12-9-12 19-0-5 25-4-4 34-3-4 15-0-12 29-5-10 6-4-0 4-7-0 2-3-0 3-11-9 4-9-10

Scale = 1:69.3



	1-10-0	6-4-12	4-7-0	2-3-0	7-1-8	' 7-	3-6	"	4-6-14 2-8-0) '
Plate Off	fsets (X,Y)	[4:0-5-12,0-2-8], [10:0-4-	4,0-2-8], [14:0-	7-8,0-2-12], [18:0-2-8,E	dge], [22:0-2-0,0-2	-8], [23:0-6-0,0-3	3-0]			
LOADIN	I 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 0.42	Vert(LL)	-0.22 17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC 0.91	Vert(CT)	-0.40 17-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.73	Horz(CT)	0.18 12	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-MS	, ,				Weight: 319 I	b FT = 20%

BOT CHORD

WEBS

22-2-4

29-5-10

except end verticals.

1 Row at midpt

34-0-8

Structural wood sheathing directly applied or 3-9-10 oc purlins,

4-20, 6-18, 8-15, 11-12

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

36-8-8

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

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

1-10-0

2-24,3-21,5-19: 2x4 SP No.3, 10-13: 2x6 SP No.2

WEBS 2x4 SP No.3

REACTIONS. (size) 25=0-8-0, 12=0-8-0

Max Horz 25=131(LC 12)

Max Uplift 25=-344(LC 8), 12=-360(LC 8) Max Grav 25=1585(LC 2), 12=1604(LC 2)

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

TOP CHORD 1-2=-767/206, 2-3=-1987/494, 3-4=-1957/563, 4-5=-1976/533, 5-6=-1988/535,

6-8=-1994/496, 8-9=-1322/348, 9-10=-1323/347, 10-11=-527/142, 1-25=-1556/406,

12-9-12

15-0-12

11-12=-1515/394

BOT CHORD 2-23=-1173/327, 22-23=-339/781, 3-22=-355/196, 17-18=-521/2066, 15-17=-436/1770,

14-15=-130/512, 10-14=-1231/354

WEBS 2-22=-222/1186, 20-22=-415/1612, 4-22=-217/492, 4-20=-1493/444, 18-20=-480/1925,

4-18=-380/1574, 6-18=-250/75, 8-17=-92/555, 8-15=-899/250, 10-15=-342/1453,

1-23=-412/1519, 11-14=-347/1386

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) 0-1-12 to 3-9-13, Interior(1) 3-9-13 to 12-9-12, Exterior(2R) 12-9-12 to 18-0-1, Interior(1) 18-0-1 to 34-3-4, Exterior(2E) 34-3-4 to 36-6-12 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) 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 100 lb uplift at joint(s) except (jt=lb) 25=344, 12=360.

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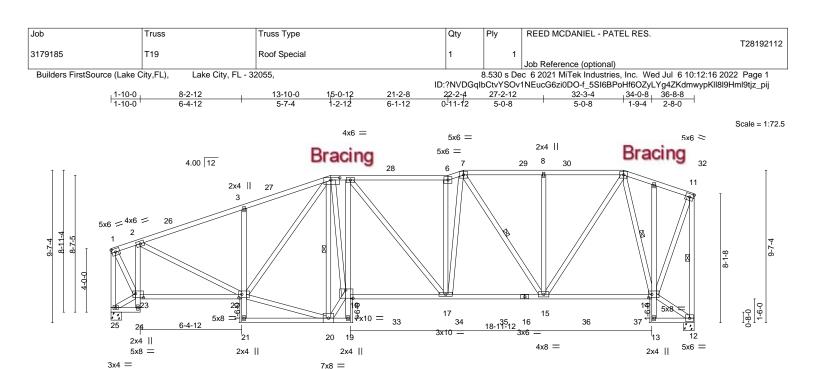
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1	1-10-0	8-2-12	13-10-0	15-0-12	21-2-8	27-2-12	34-0-8	36-8-8
	1-10-0	6-4-12	5-7-4	1-2-12	6-1-12	6-0-4	6-9-12	2-8-0
Plate Offsets (X,Y)	- [4:0)-6-12,0-1-12], [14:0-2-8,0)-2-8], [18:0-5-8,0-6	6-4], [22:0-2-	4,0-2-8], [23:0-6-0	,0-3-0]		

LOADING	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	0.58	Vert(LL)	-0.22 17	7-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL 1	.25	BC	0.73	Vert(CT)	-0.40 17	7-18	>999	180		
BCLL	0.0 *	Rep Stress Incr Y	ΈS	WB	0.91	Horz(CT)	0.23	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI201	14	Matri	x-MS						Weight: 333 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x4 SP No.2

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

2-24,3-21,5-19,10-13: 2x4 SP No.3 WFBS 2x4 SP No.3

REACTIONS. (size) 12=0-8-0, 25=0-8-0

Max Horz 25=136(LC 12) Max Uplift 12=-346(LC 9), 25=-340(LC 8)

Max Grav 12=1636(LC 2), 25=1595(LC 2)

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

TOP CHORD 1-2=-772/206, 2-3=-2004/491, 3-4=-1982/559, 4-5=-1904/535, 5-6=-1967/529,

6-7=-2089/569, 7-8=-1492/415, 8-9=-1492/415, 9-10=-567/179, 10-11=-563/147,

1-25=-1567/405, 11-12=-1608/405

BOT CHORD 2-23=-1177/332, 22-23=-346/784, 3-22=-385/196, 5-18=-436/159, 17-18=-495/1928,

15-17=-454/1835, 14-15=-194/789

WEBS 2-22=-219/1202, 20-22=-402/1602, 4-22=-222/456, 4-20=-2019/579, 18-20=-582/2400,

4-18=-566/2135, 6-17=-806/262, 7-17=-251/1040, 7-15=-641/177, 8-15=-339/150,

9-15=-304/1307, 9-14=-1110/305, 1-23=-411/1525, 11-14=-352/1470

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) 0-1-12 to 3-9-13, Interior(1) 3-9-13 to 13-10-0, Exterior(2R) 13-10-0 to 17-6-1, Interior(1) 17-6-1 to 22-2-4, Exterior(2R) 22-2-4 to 25-10-5, Interior(1) 25-10-5 to 32-3-4, Exterior(2R) 32-3-4 to 35-11-5, Interior(1) 35-11-5 to 36-6-12 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) 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 100 lb uplift at joint(s) except (jt=lb) 12=346, 25=340,

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Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

July 7,2022

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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



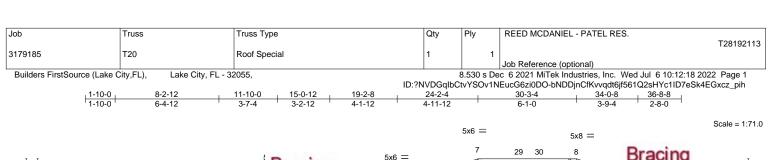
Structural wood sheathing directly applied or 3-4-3 oc purlins,

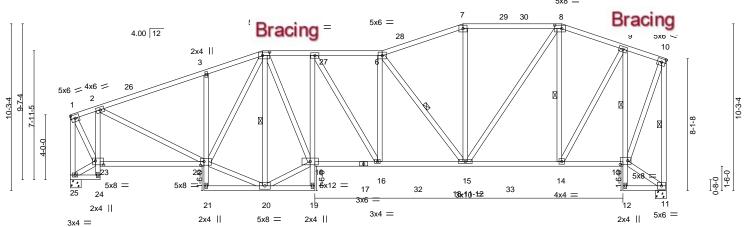
4-20, 7-15, 9-14, 11-12

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

except end verticals.

1 Row at midpt





' 1-10)-0 ' 6-4-12	' 3-7-4	' 3-2-12 ' 4-1-	-12 ' 4-1	1-12	6-1-0	3-9-4 ' 2-8-0 '
Plate Offsets (X,Y)	[4:0-5-4,0-2-8], [8:0-5-4,	0-2-8], [13:0-5-8	,0-2-12], [22:0-2-8,0-2-12	2], [23:0-6-0,0-3-0]]		
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES GRIP
TCLL 30.0	Ploto Grip DOI	1 25	TC 0.57	\/ort()	0.15.16.16	>000 240	MT20 244/100

24-2-4

30-3-4

except end verticals.

1 Row at midpt

1 Row at midpt

34-0-8

Structural wood sheathing directly applied or 3-10-3 oc purlins,

4-20, 6-15, 8-14, 10-11

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

19-2-8

TCDL вс Vert(CT) 10.0 Lumber DOL 1.25 0.66 -0.27 15-16 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.63 Horz(CT) 0.16 11 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 326 lb FT = 20%

> **BRACING-**TOP CHORD

> **BOT CHORD**

WEBS

LUMBER-TOP CHORD 2x4 SP No.2

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

1-10-0

2-24,3-21,5-19,9-12: 2x4 SP No.3 **WEBS** 2x4 SP No.3

REACTIONS. (size) 11=0-8-0, 25=0-8-0

Max Horz 25=150(LC 12)

Max Uplift 11=-325(LC 8), 25=-335(LC 8) Max Grav 11=1603(LC 2), 25=1573(LC 2)

8-2-12

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

TOP CHORD 1-2=-762/209, 2-3=-1968/496, 3-4=-1930/555, 4-5=-2064/568, 5-6=-2148/572,

6-7=-1677/466, 7-8=-1560/470, 8-9=-1111/325, 9-10=-550/152, 1-25=-1544/410,

11-10-0

15-0-12

10-11=-1546/411

BOT CHORD 2-23=-1166/337, 22-23=-355/777, 3-22=-330/173, 5-18=-322/114, 16-18=-561/2073,

15-16=-565/2147, 14-15=-251/1014, 13-14=-133/514, 9-13=-1233/360

WEBS 2-22=-221/1170, 20-22=-440/1642, 4-22=-234/582, 4-20=-1264/406, 18-20=-459/1659,

4-18=-338/1333, 6-15=-984/282, 7-15=-0/263, 8-15=-257/974, 8-14=-712/254,

9-14=-251/1041, 1-23=-416/1510, 10-13=-366/1414

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) 0-1-12 to 3-9-13, Interior(1) 3-9-13 to 11-10-0, Exterior(2R) 11-10-0 to 15-6-1, Interior(1) 15-6-1 to 24-2-4, Exterior(2R) 24-2-4 to 27-10-5, Interior(1) 27-10-5 to 30-3-4, Exterior(2R) 30-3-4 to 34-2-4, Interior(1) 34-2-4 to 36-6-12 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) 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 100 lb uplift at joint(s) except (jt=lb) 11=325, 25=335,

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July 7,2022

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REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192114 3179185 T21 Half Hip Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:20 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-YlLz7TEvrW9XtBG6nW9VVTxeTQonhzflBOjN0Uz_pif

5-5-1

13-5-4

18-10-6

24-3-7

24-3-7

except end verticals.

1 Row at midpt

Scale = 1:51.5

5-8-9

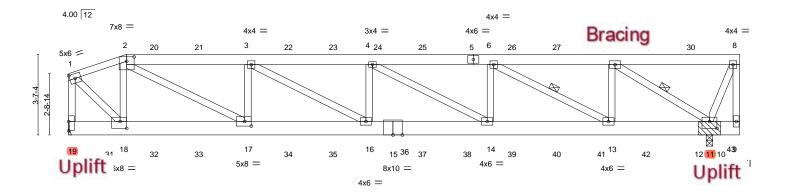
28-0-10

Structural wood sheathing directly applied or 2-8-9 oc purlins,

6-13, 7-11

Rigid ceiling directly applied or 8-8-13 oc bracing.

30-0-0



	2-1-2	0-0-3	1	13-3-4	10-10-6	24-3-7	20-9-10 30-0-0
	2-7-2	5-5-1	1	5-5-1	5-5-1	5-5-1	4-6-3 1-2-6
Plate Off	sets (X,Y)	[2:0-4-0,0-2-6], [11:0-4-0,0	-3-12], [17:0-	3-8,0-2-8], [18:0-3-8,0-	3-12]		
LOADIN	G (psf)	SPACING-	2-0-0	CSI.	DEFL. ir	n (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.48	Vert(LL) -0.21	14-16 >999 240	MT20 244/190
TCDL	10.0	Lumber DOL	1.25	BC 0.34	Vert(CT) -0.43	3 14-16 >803 180	
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.86	Horz(CT) 0.06	6 11 n/a n/a	
BCDL	10.0	Code FBC2020/TP	12014	Matrix-MS			Weight: 239 lb FT = 20%

18-10-6

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD

2x6 SP No.2 *Except* 1-2: 2x4 SP No.2

BOT CHORD 2x8 SP 2400F 2.0E

2-7-2

WEBS 2x4 SP No.3 *Except*

2-17,1-18: 2x4 SP No.2

REACTIONS. (size) 19=Mechanical, 11=(0-3-8 + bearing block) (req. 0-3-9)

Max Horz 19=27(LC 27)

Max Uplift 19=-799(LC 4), 11=-938(LC 5) Max Grav 19=2632(LC 1), 11=3043(LC 1)

8-0-3

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

TOP CHORD $1\hbox{-}2\hbox{--}2057/626,\ 2\hbox{-}3\hbox{--}4986/1535,\ 3\hbox{-}4\hbox{--}6147/1881,\ 4\hbox{-}6\hbox{--}5552/1695,\ 6\hbox{-}7\hbox{--}3188/976,}$

8-9=-342/113, 1-19=-2633/798

BOT CHORD 17-18=-625/1996, 16-17=-1533/4982, 14-16=-1881/6147, 13-14=-1695/5552,

11-13=-976/3188

WEBS 2-18=-1322/445, 2-17=-1054/3463, 3-17=-1240/464, 3-16=-404/1347, 4-14=-684/213,

6-14=-192/891, 6-13=-2717/827, 7-13=-426/1660, 7-11=-3833/1188, 1-18=-811/2713

NOTES-

- 1) 2x8 SP 2400F 2.0E bearing block 12" long at jt. 11 attached to front face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners. Bearing is assumed to be SP No.2.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) 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; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 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) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=799, 11=938,

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Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - PATEL RES.
					T28192114
3179185	T21	Half Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:20 2022 Page 2 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-YILz7TEvrW9XtBG6nW9VVTxeTQonhzflBOjN0Uz pif

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 64 lb up at 3-9-10, 56 lb down and 64 lb up at 5-9-10, 56 lb down and 64 lb up at 7-9-10, 56 lb down and 64 lb up at 7-9-10, 56 lb down and 64 lb up at 13-9at 15-9-10, 56 lb down and 64 lb up at 17-9-10, 56 lb down and 64 lb up at 19-9-10, 56 lb down and 64 lb up at 23-9-10, 56 lb down and 64 lb up at 23-9-10, 56 lb down and 64 lb up at 25-9-10, and 56 lb down and 64 lb up at 27-9-10, and 84 lb down and 63 lb up at 29-10-4 on top chord, and 270 lb down and 109 lb up at 1-9-10, 158 lb down and 56 lb up at 3-9-10, 158 lb down and 56 lb up at 5-9-10, 158 lb down and 56 lb up at 7-9-10, 158 lb down and 56 lb up at 3-9-10, 1 down and 56 lb up at 21-9-10, 158 lb down and 56 lb up at 23-9-10, 158 lb down and 56 lb up at 25-9-10, and 158 lb down and 56 lb up at 27-9-10, and 167 lb down and 47 lb up at 29-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

LOAD CASE(S) Standard

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

Vert: 1-2=-60, 2-8=-60, 9-19=-20

Concentrated Loads (lb)

Vert: 5=-56(F) 8=-84(F) 9=-167(F) 17=-158(F) 3=-56(F) 20=-56(F) 21=-56(F) 22=-56(F) 23=-56(F) 24=-56(F) 25=-56(F) 25=-56(F) 26=-56(F) 27=-56(F) 29=-56(F) 29=-56(F) 21=-56(F) 25=-56(F) 25 30=-56(F) 31=-270(F) 32=-158(F) 33=-158(F) 34=-158(F) 35=-158(F) 36=-158(F) 37=-158(F) 38=-158(F) 39=-158(F) 40=-158(F) 41=-158(F) 42=-158(F)

Job Truss Truss Type Qty Ply REED MCDANIEL - PATEL RES. T28192115 3179185 T22 Half Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:21 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-0yuLLpFYcqHOVLrIKDgk1hUpKq2qQOpuQ2SwYxz_pie

Scale = 1:51.5

30-0-0

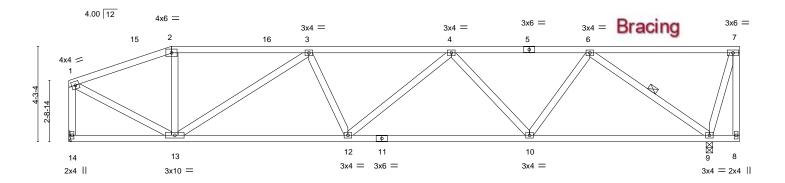
Structural wood sheathing directly applied or 3-9-10 oc purlins,

6-9

Rigid ceiling directly applied or 8-1-5 oc bracing.

except end verticals

1 Row at midpt



4-7-			20-7-5 8-1-8	-		-9 ₇ 10 1-12
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2020/TPI2014	CSI. TC 0.47 BC 0.74 WB 0.99 Matrix-MS	DEFL. in (loc) Vert(LL) -0.10 10-12 Vert(CT) -0.24 10-12 Horz(CT) 0.07 9	l/defl L/d >999 240 >999 180 n/a n/a	MT20 2	1-2-6 GRIP 1-44/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

TOP CHORD 2x4 SP No.2

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

REACTIONS. (size) 14=Mechanical, 9=0-3-8

Max Horz 14=51(LC 8)

Max Uplift 14=-279(LC 8), 9=-330(LC 9) Max Grav 14=1138(LC 1), 9=1238(LC 1)

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

1-2=-1234/315, 2-3=-1135/318, 3-4=-2015/511, 4-6=-1651/406, 1-14=-1104/293 TOP CHORD

BOT CHORD 12-13=-526/1954. 10-12=-530/1988. 9-10=-345/1282

WFBS 3-13=-982/269, 3-12=-3/268, 4-10=-510/187, 6-10=-109/658, 6-9=-1611/454,

1-13=-295/1260

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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-7-2, Exterior(2R) 4-7-2 to 8-10-1, Interior(1) 8-10-1 to 29-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) 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) 14=279, 9=330.

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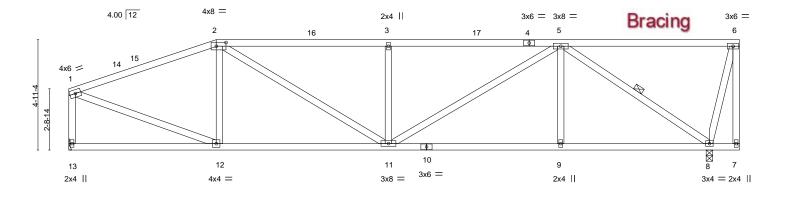
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REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192116 3179185 T23 Half Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:22 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-U8SjY9GAN7PF6UPUuxBzau0uOEPH9w22fiCU5Nz_pid

Scale = 1:51.5



					00 0 0
1	6-7-2	14-3-9	22-0-1	28-7-14	28-9 _Γ 10 _I
Г	6-7-2	7-8-7	7-8-7	6-7-13	0-1-12
					1-2-6
Plate Offs	sets (X,Y) [2:0-5-4,0-2-0]				

1 tate of order (X,1) [2.0 0 1,0 2 0]												
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	0.84	Vert(LL)	-0.09	9-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.22	9-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI	2014	Matri	x-MS						Weight: 173 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

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

2x4 SP No.3 WFBS

REACTIONS. (size) 13=Mechanical, 8=0-3-8

Max Horz 13=74(LC 8)

Max Uplift 13=-276(LC 8), 8=-328(LC 9) Max Grav 13=1138(LC 1), 8=1238(LC 1)

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

1-2=-1415/357, 2-3=-1829/487, 3-5=-1829/487, 1-13=-1079/295 TOP CHORD

11-12=-363/1276, 9-11=-350/1334, 8-9=-350/1334 **BOT CHORD**

 $2\hbox{-}12\hbox{-}-316/151,\ 2\hbox{-}11\hbox{-}-175/717,\ 3\hbox{-}11\hbox{-}-487/209,\ 5\hbox{-}11\hbox{-}-206/579,\ 5\hbox{-}9\hbox{-}0/293,$ WFBS

5-8=-1648/445, 1-12=-296/1312

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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 6-7-2, Exterior(2R) 6-7-2 to 10-10-1, Interior(1) 10-10-1 to 29-10-4 zone; cantilever 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) 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.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=276, 8=328.

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Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

July 7,2022

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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



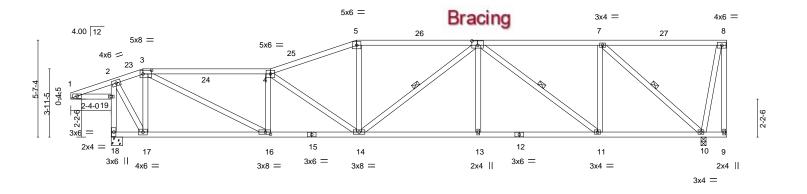
Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied or 9-9-7 oc bracing.

1 Row at midpt

REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192117 3179185 T24 **ROOF SPECIAL** Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:23 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-yK06mVGo8RX6ke_hSeiC66Z6ldkTuKVBuMx1dpz_pic

Scale = 1:66.6



						35-7-2
1-10-0	9-2-8	14-2-4	21-2-11	28-3-3	34-3-0	34- 4 -12
1-10-0	7-4-8	4-11-12	7-0-7	7-0-7	5-11-13	0-1 ^{l_} 12
						1-2-6

BRACING-

TOP CHORD

BOT CHORD

WEBS

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 0.70	Vert(LL) -0.14 14 >999 240	MT20 244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.66	Vert(CT) -0.31 13-14 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.78	Horz(CT) 0.09 10 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 227 lb FT = 20%

LUMBER-TOP CHORD 2x4 SP No.2 *Except*

3-4: 2x4 SP M 31

BOT CHORD 2x4 SP No 2

WEBS 2x4 SP No.3 REACTIONS.

(size) 18=0-8-0, 10=0-3-8 Max Horz 18=105(LC 8)

Plate Offsets (X,Y)-- [3:0-6-0,0-2-8], [6:0-4-0,0-3-0], [16:0-3-8,0-1-8]

Max Uplift 18=-422(LC 8), 10=-374(LC 8) Max Grav 18=1567(LC 1), 10=1456(LC 1)

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

2-3=-683/175, 3-4=-2438/606, 4-5=-2271/572, 5-6=-2119/565, 6-7=-1311/342 TOP CHORD

BOT CHORD 16-17=-222/600, 14-16=-674/2470, 13-14=-552/2104, 11-13=-552/2105, 10-11=-342/1311,

18-19=-1604/553, 2-19=-1553/475

WEBS 3-17=-1018/297, 3-16=-496/2059, 4-16=-815/264, 4-14=-444/164, 5-14=-34/414, 6-13=0/291, 6-11=-993/262, 7-11=-116/724, 7-10=-1781/475, 2-17=-318/1359

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) -2-4-0 to 1-2-11, Interior(1) 1-2-11 to 1-10-0, Exterior(2R) 1-10-0 to 5-4-11, Interior(1) 5-4-11 to 14-2-4, Exterior(2R) 14-2-4 to 17-8-15, Interior(1) 17-8-15 to 35-5-6 zone; cantilever left exposed; end vertical left 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=422, 10=374,

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July 7,2022

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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied or 2-9-12 oc purlins,

6-14, 6-11, 7-10

Rigid ceiling directly applied or 4-4-15 oc bracing.

except end verticals.

1 Row at midpt

Job Truss Truss Type Qty Ply REED MCDANIEL - PATEL RES. T28192118 3179185 T25 **ROOF SPECIAL** Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:25 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-uj8sBAl2g2nqzy83Z3kgCXeNFRR2MCaULfQ8hiz_pia

28-5-5

6-5-8

34-10-14

6-5-9

21-11-13

5-9-9

16-2-4 4-6-0

Scale = 1:75.7

40-8-8

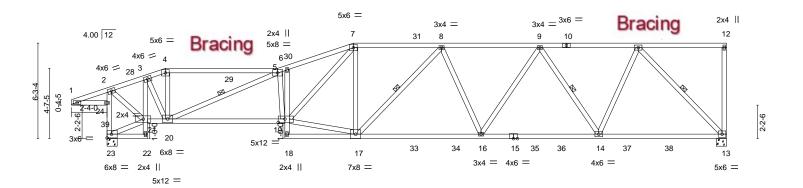
5-9-10

Structural wood sheathing directly applied, except end verticals.

5-20, 8-17, 9-14, 11-13

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

1 Row at midpt



		8-0 3-10-0 11-8 8-0 1-2-0 7-10		16-2-4 4-6-0	-	24-6-15 8-4-11		32-3-12 7-8-14		40-8-8 8-4-12	——
Plate Offs	sets (X,Y)	[19:0-5-4,0-2-12]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.92	Vert(LL)	-0.32 16-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.59 16-17	>816	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.18 13	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS					Weight: 273 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

TOP CHORD 2x4 SP No.2

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

2-8-0 3-10-0 2-8-0 1-2-0

11-2-8

3-22,6-18: 2x4 SP No.3, 19-21,15-18,13-15: 2x4 SP M 31

WEBS 2x4 SP No.3 *Except*

17-19: 2x4 SP No.2

REACTIONS.

(size) 13=0-8-0, 23=0-8-0

Max Horz 23=128(LC 8)

Max Uplift 13=-415(LC 8), 23=-484(LC 8) Max Grav 13=1798(LC 2), 23=1933(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD $2\text{-}3\text{=-}1385/365,\ 3\text{-}4\text{=-}1934/473,\ 4\text{-}5\text{=-}1876/473,\ 5\text{-}6\text{=-}4393/1039,\ 6\text{-}7\text{=-}4363/1057,}$

7-8=-2906/698, 8-9=-2911/669, 9-11=-2004/445

BOT CHORD 3-21=-1223/213, 20-21=-425/1286, 19-20=-1070/4253, 16-17=-728/3005,

14-16=-611/2562, 13-14=-357/1477, 23-24=-1855/647, 2-24=-1815/574 **WEBS** 3-20=-281/1271, 4-20=-20/346, 5-20=-2616/597, 5-19=-563/229, 17-19=-652/2822,

7-19=-483/1809, 7-17=-300/167, 8-17=-314/104, 8-16=-313/158, 9-16=-117/643,

9-14=-1027/306, 11-14=-222/1324, 11-13=-2121/516, 2-21=-418/1726

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) -2-4-0 to 1-8-14, Interior(1) 1-8-14 to 3-10-0, Exterior(2R) 3-10-0 to 7-10-14, Interior(1) 7-10-14 to 16-2-4, Exterior(2R) 16-2-4 to 20-3-2, Interior(1) 20-3-2 to 40-6-12 zone; cantilever left exposed; end vertical left 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 100 lb uplift at joint(s) except (jt=lb) 13=415. 23=484.

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July 7,2022

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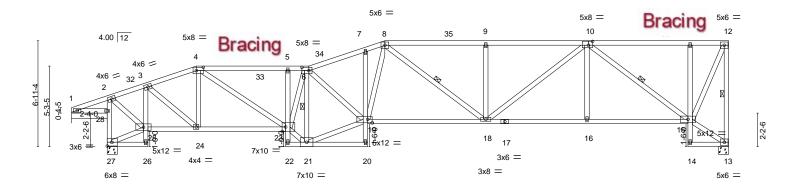


REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192119 3179185 T26 **ROOF SPECIAL** Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:27 2022 Page 1

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

ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-q6GccsJlCg2YDGlShUn8HyklpF23q90nozvFmaz_piY 5-10-0 3-2-0 2-8-0 2-8-0 11-8-4 13-2-8 17-<u>0-12</u> 24-9-9 38-0-8 40-8-8 5-10-4 3-10-4 6-7-9 2-8-0

Scale = 1:75.5



	1 2-	-8-0 5-10-0	11-8-4	₁ 13-2-8 ₁ 17	-0-12 _I	24-9-11	1	31-5-3	1 38-0-8	₁ 40-8-8 ₁
	2-	-8-0 3-2-0	5-10-4	1-6-4 3-	10-4	7-8-15	1	6-7-8	6-7-5	2-8-0
Plate Offse	ets (X,Y)	[4:0-5-8,0-2-8], [6:0-5-8	8,0-2-8], [10:0-3	-4,0-3-0], [19:	0-3-8,0-2-1	2], [23:0-2-12,Edge]				
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl L/d	d PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.79	Vert(LL) -0.	29 18-19	>999 240	0 MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.94	Vert(CT) -0.	67 18-19	>727 180	0	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(CT) 0.	30 13	n/a n/a	a	
BCDL	10.0	Code FBC2020	/TPI2014	Matr	ix-MS	, ,			Weight: 3	00 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x4 SP No.2

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

3-26,5-22,7-20,11-14: 2x4 SP No.3

WEBS

2x4 SP No.3 *Except*

21-23,19-21: 2x4 SP No.2

REACTIONS. (size) 13=0-8-0, 27=0-8-0

Max Horz 27=151(LC 8)

Max Uplift 13=-418(LC 8), 27=-481(LC 8) Max Grav 13=1611(LC 1), 27=1821(LC 1)

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

TOP CHORD 2-3=-1276/372, 3-4=-2124/572, 4-5=-3356/885, 5-6=-3304/870, 6-7=-3545/924,

7-8=-3516/945, 8-9=-3067/813, 9-10=-3067/813, 10-11=-742/195, 11-12=-721/189,

12-13=-1574/415

BOT CHORD $3-25 = -1035/249,\ 24-25 = -461/1196,\ 23-24 = -610/1970,\ 5-23 = -269/140,\ 18-19 = -854/3122,$

16-18=-590/2251, 15-16=-590/2249, 11-15=-319/140, 27-28=-1762/646, 2-28=-1715/571 **WEBS**

3-24=-242/1032, 4-24=-540/187, 4-23=-407/1664, 21-23=-892/3330, 6-23=-478/1560,

6-21=-3117/886, 19-21=-832/3056, 6-19=-157/611, 8-19=-248/915, 9-18=-422/184,

10-18=-291/1027, 10-16=0/270, 10-15=-1903/500, 12-15=-451/1714, 2-25=-440/1608

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) -2-4-0 to 1-8-14, Interior(1) 1-8-14 to 5-10-0, Exterior(2R) 5-10-0 to 9-10-14, Interior(1) 9-10-14 to 18-2-4, Exterior(2R) 18-2-4 to 22-3-2, Interior(1) 22-3-2 to 40-6-12 zone; cantilever left exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) The Fabrication Tolerance at joint 23 = 0%
- 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) 13=418, 27=481.

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Structural wood sheathing directly applied or 2-2-0 oc purlins,

12-13, 6-21, 8-18, 10-15

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

except end verticals.

1 Row at midpt

REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192120 3179185 T27 **ROOF SPECIAL** Job Reference (optional)

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:29 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-nUNN0YLZkHIGSZSrovpcMNpAn2kPl494GHOMqTz_piW

2-8-0 2-8-0 7-10-0 11_8_/ 19-0-12 26-3-6 32-2-13 38-0-8 40-8-8 6-1-2 5-2-0 3-10-4 3-6-4 3-10-4 5-9-11 2-8-0

Scale = 1:75.5

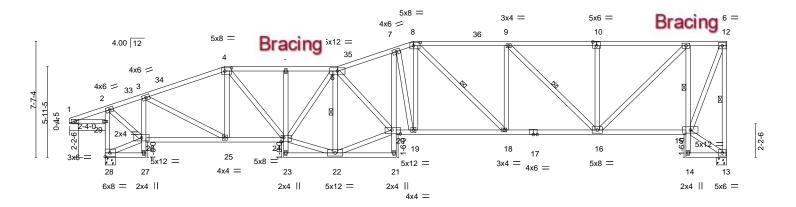


Plate Offs	eats (X V)	2-8-0	5-2-0 5-4,0-2-8], [8:0-5-4,0	3-10-4	3-6-4	3-10-4	1-1-8	6-1-2		5-1	1-7	5-9-11	2-8-0
Tate On	3013 (71, 17)	[4.0	5 4,6 2 6j, [6.6 5 4,6	7 Z 0J, [10.0 0 C	7,0 0 0], [20.0	7 0 12,0 0 0],	24.0 2 0,0	, -,					
LOADING	G (psf)		SPACING-	2-0-0	CSI.		DEFL	. in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0		Plate Grip DOL	1.25	TC	0.51	Vert(I	L) -0.23	21	>999	240	MT20	244/190
TCDL	10.0		Lumber DOL	1.25	BC	0.88	Vert(0	T) -0.46	21	>999	180		
BCLL	0.0 *		Rep Stress Incr	YES	WB	0.65	Horz(CŤ) 0.24	13	n/a	n/a		
BCDL	10.0		Code FBC2020/T	PI2014	Matri	x-MS	,					Weight: 323 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

20-2-4

26-3-6

32-2-13

except end verticals.

1 Row at midpt

1 Row at midpt

38-0-8

12-13, 6-22, 8-18, 9-16

Structural wood sheathing directly applied or 3-0-9 oc purlins,

Rigid ceiling directly applied or 4-2-4 oc bracing. Except: 11-15

40-8-8

19-0-12

LUMBER-TOP CHORD 2x4 SP No.2

7-10-0

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

3-27,5-23,7-21,11-14: 2x4 SP No.3

WFBS

2-8-0

2x4 SP No.3 *Except*

22-24,20-22: 2x4 SP No.2

REACTIONS. (size) 13=0-8-0, 28=0-8-0

Max Horz 28=174(LC 8)

Max Uplift 13=-422(LC 8), 28=-477(LC 8) Max Grav 13=1611(LC 1), 28=1821(LC 1)

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

TOP CHORD 2-3=-1294/381, 3-4=-2332/617, 4-5=-2852/768, 5-6=-2838/763, 6-7=-3193/842,

7-8=-2960/802, 8-9=-2595/697, 9-10=-1872/496, 10-11=-1869/494, 11-12=-638/169,

12-13=-1572/420

BOT CHORD $3-26 = -1034/270,\ 25-26 = -506/1247,\ 24-25 = -667/2148,\ 7-20 = -210/721,\ 19-20 = -829/2976,\ 19-20 =$

11-8-4

15-2-8

18-19=-771/2818, 16-18=-697/2595, 15-16=-174/656, 11-15=-1466/438, 28-29=-1763/642,

2-29=-1711/565

WEBS 3-25=-222/1032, 4-25=-365/134, 4-24=-264/1081, 22-24=-740/2646, 6-24=-156/293,

6-22=-1764/544, 20-22=-790/2794, 6-20=-123/452, 7-19=-762/276, 8-19=-241/883, 8-18=-308/155, 9-18=-69/403, 9-16=-1011/293, 10-16=-359/155, 11-16=-448/1696,

12-15=-442/1663, 2-26=-463/1656

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) -2-4-0 to 1-8-14, Interior(1) 1-8-14 to 7-10-0, Exterior(2R) 7-10-0 to 11-10-0, Interior(1) 11-10-0 to 20-2-4, Exterior(2R) 20-2-4 to 24-3-2, Interior(1) 24-3-2 to 40-6-12 zone; cantilever left exposed; end vertical left 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=422, 28=477.

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

Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

July 7,2022

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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



REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192121 3179185 T28 **ROOF SPECIAL** Job Reference (optional)

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:31 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-jtV7REMpGuY_htbDwKr4RouUcsU5my8MjbtSvLz_piU

38-0-8

Structural wood sheathing directly applied or 3-1-11 oc purlins,

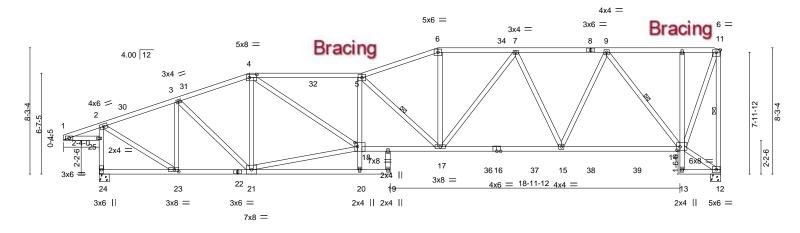
5-17, 9-14, 11-12

Rigid ceiling directly applied or 4-1-15 oc bracing.

40-8-8

40-8-8 40-3-4 2-2-12 0-5-4 9-10-0 19-0-12 33-2-14 38-0-8 5-0-12 1-10-4 5-11-7 4-9-10

Scale = 1:75.5



		5-0-12 4-9-	4	7-4-8	1-10-4	3-1-8	8-1-0		7-9-4	2-8-0
Plate Off	sets (X,Y)	[4:0-5-12,0-2-8], [14:0-2-	8,0-2-12], [18:0	0-2-0,0-3-0], [23:0-3	3-8,0-1-8]					
LOADING	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	1	Vert(LL)	-0.25 20-21 >	999 240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC 0.61	1	Vert(CT)	-0.48 20-21 >	999 180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.81	1	Horz(CT)	0.20 12	n/a n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-MS					Weight: 302 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

19-0-12 22-2-4

30-3-4

except end verticals.

1 Row at midpt

LUMBER-TOP CHORD 2x4 SP No.2 *Except*

4-5: 2x4 SP M 31

BOT CHORD 2x4 SP No.2 *Except*

16-18,14-16: 2x4 SP M 31, 10-13: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. (size) 24=0-8-0, 12=0-8-0

Max Horz 24=197(LC 8)

Max Uplift 24=-466(LC 8), 12=-421(LC 8) Max Grav 24=1959(LC 2), 12=1811(LC 2)

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

TOP CHORD $2\hbox{-}3\hbox{--}1753/386, 3\hbox{-}4\hbox{--}2265/515, 4\hbox{-}5\hbox{--}3751/857, 5\hbox{-}6\hbox{--}3014/688, 6\hbox{-}7\hbox{--}2835/677, }$

7-9=-2186/493, 9-10=-651/149, 10-11=-637/146, 11-12=-1776/418

BOT CHORD 21-23=-501/1622, 17-18=-930/3776, 15-17=-604/2515, 14-15=-406/1692,

24-25=-1876/594, 2-25=-1843/521

WEBS 3-23=-870/241, 3-21=-125/690, 4-21=-704/247, 4-18=-420/1967, 5-18=-394/147,

5-17=-1312/349, 6-17=-96/712, 7-17=-152/528, 7-15=-793/274, 9-15=-217/1186,

9-14=-1716/425, 11-14=-423/1840, 2-23=-409/1929, 18-21=-577/2116

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) -2-4-0 to 1-8-14, Interior(1) 1-8-14 to 9-10-0, Exterior(2R) 9-10-0 to 13-10-14, Interior(1) 13-10-14 to 22-2-4, Exterior(2R) 22-2-4 to 26-3-2, Interior(1) 26-3-2 to 40-6-12 zone; cantilever left exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

17-2-8

- 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 100 lb uplift at joint(s) except (jt=lb) 24=466, 12=421,

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Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

July 7,2022

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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



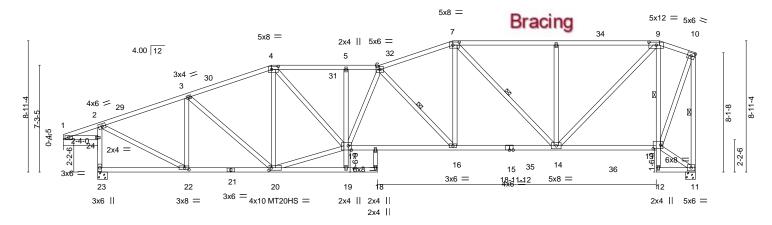
16023 Swingley Ridge Rd

REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192122 3179185 T29 **ROOF SPECIAL** Job Reference (optional)

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:33 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-fGdtswO3nWohxBlc1luYWDzq4f6tEr5fBvMZzEz_piS 6-0-12 11-10-0 17-0-12 19-2-8 31-2-12 38-3-4 40-8-8 2-1-12 6-0-12 5-9-4 5-2-12 4-11-12 7-0-8 7-0-8 2-5-4

Scale = 1:78.5



	6-0-12	5-9-4	5-2-12	2-0-0	5-1-8	1	7-0-8	6-9-12	2-8-0
Plate Offsets (X,Y)	[4:0-5-8,0-2-8], [7:0-5-4,	0-2-8], [9:0-6-0,0	-2-7], [13:0-6-0,0-	·3-0], [17:0)-2-8,Edge], [20:0	0-2-0,0-2-0], [22:0-3-8,0-1-8]		
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl L/d	d PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.61		Vert(LL)	-0.26 18	>999 240	0 MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.85		Vert(CT)	-0.49 16-17	>986 180	0 MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.84	.	Horz(CT)	0.18 11	n/a n/a	a	
BCDL 10.0	Code FBC2020/7	ΓPI2014	Matrix-MS					Weight: 3	309 lb FT = 20%

19-0-12

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

11-10-0

17-0-12

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

5-19,9-12: 2x4 SP No.3, 15-17: 2x4 SP M 31

WEBS 2x4 SP No.3 TOP CHORD

24-2-4

Structural wood sheathing directly applied or 2-10-4 oc purlins,

38-0-8

40-8-8

except end verticals.

31-2-12

BOT CHORD Rigid ceiling directly applied or 4-2-5 oc bracing. Except:

1 Row at midpt 9-13

10-0-0 oc bracing: 17-19

WEBS 1 Row at midpt 6-16, 7-14, 10-11

REACTIONS. (size) 23=0-8-0, 11=0-8-0

Max Horz 23=205(LC 12)

Max Uplift 23=-464(LC 8), 11=-397(LC 8) Max Grav 23=1961(LC 2), 11=1819(LC 2)

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

TOP CHORD $2\text{-}3\text{=-}1951/424,\ 3\text{-}4\text{=-}2321/537,\ 4\text{-}5\text{=-}3268/772,\ 5\text{-}6\text{=-}3279/772,\ 6\text{-}7\text{=-}2667/635,}$

7-8=-1881/479, 8-9=-1881/478, 9-10=-635/162, 10-11=-1785/441

BOT CHORD 20-22=-535/1805, 16-17=-832/3321, 14-16=-607/2521, 13-14=-147/609, 9-13=-1344/407,

23-24=-1868/593, 2-24=-1841/522

WEBS 3-22=-738/235, 3-20=-71/459, 4-20=-760/239, 17-20=-569/2210, 4-17=-358/1663,

6-16=-1208/335, 7-16=-201/1191, 7-14=-915/224, 8-14=-480/208, 9-14=-437/1828,

2-22=-429/2037, 10-13=-400/1658

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) -2-4-0 to 1-8-14, Interior(1) 1-8-14 to 11-10-0, Exterior(2R) 11-10-0 to 15-10-14, Interior(1) 15-10-14 to 24-2-4, Exterior(2R) 24-2-4 to 28-3-2, Interior(1) 28-3-2 to 38-2-4, Exterior(2E) 38-2-4 to 40-6-12 zone; cantilever left exposed; end vertical left 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 MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 23=464, 11=397.

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Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

July 7,2022

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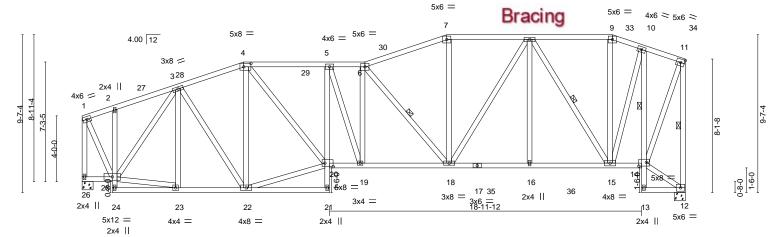




Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-celeHbQKJ72PAUv_99w0ce3DUTqVhkayeDrg27z_piQ <u>5-10-</u>0 9-10-0 15-0-12 17-2-8 22-2-4 4-11-12 32-3-4 34-0-8 36-8-8 27-2-12 1-9-4 4-0-0 4-0-0 5-2-12 2-1-12 5-0-8 5-0-8

Scale = 1:70.1



	1-10-0	5-10-0	9-10-0	15-0-12	17-2-8	22-2-4	27-2-12	32-3-4	34-0-8	36-8-8	
Г	1-10-0	4-0-0	4-0-0	5-2-12	2-1-12	4-11-12	5-0-8	5-0-8	1-9-4	2-8-0	_

Plate Offsets (X,Y)	[4:0-5-4,0-2-8], [14:0-5-8,0-2-12], [20:0-6-0,0-2-8]

LOADING	G (psf)		0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1	.25	TC	0.43	Vert(LL)	-0.14 18-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL 1	.25	BC	0.65	Vert(CT)	-0.27 18-19	>999	180		
BCLL	0.0 *	Rep Stress Incr Y	ES	WB	0.91	Horz(CT)	0.13 12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI201	14	Matri	x-MS					Weight: 341 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x4 SP No 2

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

2-24,5-21,10-13: 2x4 SP No.3

WFBS 2x4 SP No.3

REACTIONS. (size) 26=0-8-0, 12=0-8-0

Max Horz 26=140(LC 12)

Max Uplift 26=-340(LC 8), 12=-342(LC 8) Max Grav 26=1566(LC 2), 12=1602(LC 2)

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

TOP CHORD 1-2=-665/159, 2-3=-683/199, 3-4=-1599/416, 4-5=-2270/604, 5-6=-2343/609,

6-7=-1915/506, 7-8=-1788/508, 8-9=-811/251, 9-10=-864/253, 10-11=-550/152,

1-26=-1489/349, 11-12=-1547/413

BOT CHORD 22-23=-383/1211, 5-20=-411/121, 19-20=-617/2273, 18-19=-624/2345, 16-18=-367/1462,

15-16=-367/1462, 14-15=-130/510, 10-14=-1236/333

WEBS 23-25=-349/1071, 3-25=-1046/205, 3-22=-90/499, 4-22=-687/229, 20-22=-434/1468, 4-20=-309/1250, 6-18=-881/260, 7-18=-23/349, 8-18=-182/623, 8-16=0/281,

8-15=-1233/312, 10-15=-261/1092, 1-25=-317/1387, 11-14=-357/1403

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) 0-1-12 to 3-9-13, Interior(1) 3-9-13 to 9-10-0, Exterior(2R) 9-10-0 to 13-6-1, Interior(1) 13-6-1 to 22-2-4, Exterior(2R) 22-2-4 to 25-10-5, Interior(1) 25-10-5 to 32-3-4, Exterior(2R) 32-3-4 to 35-11-5, Interior(1) 35-11-5 to 36-6-12 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) 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 100 lb uplift at joint(s) except (jt=lb) 26=340, 12=342,

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Structural wood sheathing directly applied or 3-6-10 oc purlins,

10-14

6-18, 8-15, 11-12

Rigid ceiling directly applied or 7-6-5 oc bracing. Except:

except end verticals.

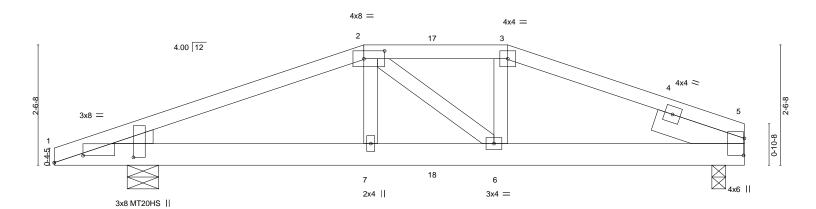
1 Row at midpt

1 Row at midpt

REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192124 3179185 T31 Hip Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:36 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-4ql0UxQy4RAGoeUBjtRF8rbM?tAKQP56ttbDaZz_piP 9-7-0 14-7-0 3-0-8

Scale = 1:24.3

FT = 20%



	1-6-8 1-6-8	1-10-8 0-4-0	6-6-8 4-8-0	+	9-7-0 3-0-8				14-2-4 4-7-4	14-7-0 0-4-12
Plate Off	sets (X,Y)	[1:0-1-6,1-8-1], [1:0-7-	5,0-1-13], [2:0-5-4	4,0-2-0], [5:0-4-5,0-0-	4]					
LOADIN	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (lo	c) I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.57	Vert(LL)	-0.04 6	7 >999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC 0.67	Vert(CT)	-0.08 6	7 >999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Inci	· NO	WB 0.06	Horz(CT)	0.01	5 n/a	n/a		

Matrix-MS

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

WEDGE

Left: 2x4 SP No.3

SLIDER Right 2x6 SP No.2 1-11-8

REACTIONS. (size) 1=0-8-0, 5=0-3-8

Max Horz 1=43(LC 8)

Max Uplift 1=-256(LC 4), 5=-225(LC 5) Max Grav 1=807(LC 1), 5=678(LC 1)

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

Code FBC2020/TPI2014

1-2=-982/366, 2-3=-954/383, 3-5=-1045/393 TOP CHORD **BOT CHORD** 1-7=-328/873, 6-7=-326/869, 5-6=-330/951

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; cantilever left exposed; 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 MT20 plates 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=256, 5=225,
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 72 lb down and 64 lb up at 6-6-8, and 53 lb down and 57 lb up at 8-0-12, and 139 lb down and 120 lb up at 9-7-0 on top chord, and 100 lb down and 77 lb up at 6-6-8, and 36 lb down at 8-0-12, and 100 lb down and 77 lb up at 9-6-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-2=-60, 2-3=-60, 3-5=-60, 1-11=-20

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Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

July 7,2022

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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



Structural wood sheathing directly applied or 5-3-4 oc purlins.

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

Weight: 73 lb

Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - PATEL RES.
		l <u>.</u>			T28192124
3179185	T31	Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:37 2022 Page 2 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-Y1sOiHRarkl7Po3NGayUh38XlHWZ9sLF6XKn6?z_piO

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 2=-53(B) 3=-92(B) 7=-50(B) 6=-50(B) 17=-53(B) 18=-20(B)



Qty T28192125 3179185 T32 Common Girder 2 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:38 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-0DQmvdSCc2Q_1yeZqlTjDGhlBgxUuDuOKB4KfRz_piN

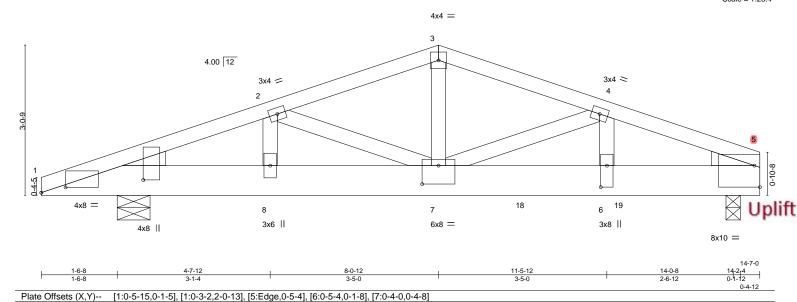
Plv

Scale = 1:23.4

REED MCDANIEL - PATEL RES.

Structural wood sheathing directly applied or 5-2-3 oc purlins.

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



LOADING (psf) SPACING-2-0-0 CSI. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.34 Vert(LL) -0.05 6-7 >999 240 MT20 244/190 TCDL 10.0 Lumber DOL 1.25 вс 0.37 Vert(CT) -0.09 6-7 >999 180 WB **BCLL** 0.0 Rep Stress Incr NO 0.42 Horz(CT) 0.01 5 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 173 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Job

Truss

Truss Type

TOP CHORD 2x4 SP No.2 BOT CHORD 2x8 SP 2400F 2 0F

2x4 SP No 3 WFBS

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (size) 1=0-8-0, 5=0-3-8

Max Horz 1=50(LC 8)

Max Uplift 1=-500(LC 4), 5=-1125(LC 5) Max Grav 1=1858(LC 1), 5=4160(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. $1\hbox{-}2\hbox{--}2609/725, 2\hbox{-}3\hbox{--}3947/1122, 3\hbox{-}4\hbox{--}3939/1117, 4\hbox{-}5\hbox{--}5377/1510}$ TOP CHORD $1\text{-}8\text{-}682/2437, \, 7\text{-}8\text{-}682/2437, \, 6\text{-}7\text{-}-1396/5038, \, 5\text{-}6\text{-}-1396/5038}$ BOT CHORD

WEBS 2-8=-1058/327, 2-7=-422/1449, 3-7=-619/2212, 4-7=-1482/436, 4-6=-343/1100

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: 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; cantilever left exposed; 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 (it=lb) 1=500, 5=1125
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2612 lb down and 819 lb up at 9-9-8, and 1118 lb down and 299 lb up at 11-9-8, and 1120 lb down and 293 lb up at 13-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

July 7,2022

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Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - PATEL RES.
					T28192125
3179185	T32	Common Girder	1	2	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:38 2022 Page 2 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-0DQmvdSCc2Q_1yeZqlTjDGhlBgxUuDuOKB4KfRz_piN

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-3=-60, 3-5=-60, 1-13=-20

Concentrated Loads (lb) Vert: 17=-1120(F) 18=-2612(F) 19=-1118(F)



REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192126 3179185 T33 Hip Girder 2 Job Reference (optional) Builders FirstSource (Lake City,FL), 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:40 2022 Page 1

Lake City, FL - 32055, ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-ycYXKJTS8fgiGFnyyjWBJhm2AUbAM9khoVZRjKz_piL 12-4-8 16-2-8 20-10-4

3-10-0

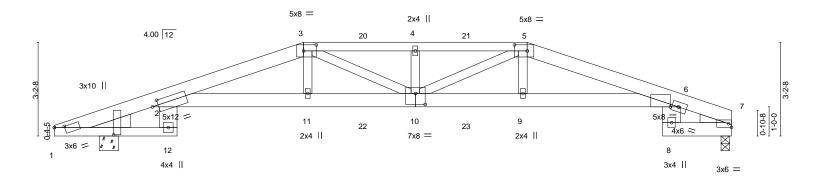
Scale = 1:39.5

2-4-4

4-7-12

Structural wood sheathing directly applied or 5-1-14 oc purlins.

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



	-6-8	4-2-8 2-4-0			12-4-8 3-10-0		16-2-8 3-10-0			20-10-4 4-7-12		23-1-12 23 ₇ 2-8 2-3-8 0-0-12
Plate Offs	Plate Offsets (X,Y) [1:0-3-0,2-0-6], [1:0-4-1,0-0-14], [2:0-2-7,0-2-1], [3:0-5-4,0-2-8], [5:0-5-4,0-2-8], [6:0-3-4,0-0-0], [10:0-4-0,0-4-8]											
LOADING	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	0.56	Vert(LL)	-0.20	10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.38	10	>732	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.25	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matri	x-MS						Weight: 2	260 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP M 26 *Except* 3-5: 2x4 SP No 2 **BOT CHORD** 2x6 SP M 26 *Except*

1-12: 2x4 SP No.2, 2-12,6-8: 2x8 SP 2400F 2.0E, 7-8: 2x6 SP No.2

WEBS 2x4 SP No.3

WEDGE

Left: 2x6 SP No.2, Right: 2x4 SP No.3

REACTIONS. (size) 7=0-3-8, 1=0-8-0

Max Horz 1=-38(LC 9)

Max Uplift 7=-490(LC 5). 1=-494(LC 4) Max Grav 7=1601(LC 1), 1=1660(LC 1)

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

TOP CHORD 2-19=-873/290, 2-3=-5435/1768, 3-4=-5491/1773, 4-5=-5490/1772, 5-6=-5543/1753,

6-7=-689/223

BOT CHORD 2-12=-178/550, 2-11=-1662/5177, 10-11=-1690/5267, 9-10=-1643/5348, 6-9=-1619/5262,

6-8=-82/306

WEBS 3-11=-300/969, 3-10=-139/391, 4-10=-412/191, 5-10=-175/316, 5-9=-310/1091

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc, 2x4 1 row at 0-9-0 oc.
 - Bottom chords connected as follows: 2x4 1 row at 0-9-0 oc, 2x8 2 rows staggered at 0-9-0 oc, 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; cantilever left exposed; 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) Provide adequate drainage to prevent water ponding.
- 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) except (jt=lb) 7=490, 1=494.

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July 7,2022

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Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - PATEL RES.
					T28192126
3179185	T33	Hip Girder	1	2	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:40 2022 Page 2 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-ycYXKJTS8fgiGFnyyjWBJhm2AUbAM9khoVZRjKz_piL

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 119 lb down and 82 lb up at 8-6-8, 100 lb down and 82 lb up at 10-7-4, 100 lb down and 75 lb up at 12-4-8, and 100 lb down and 82 lb up at 14-1-12, and 119 lb down and 82 lb up at 16-2-8 on top chord, and 386 lb down and 203 lb up at 8-6-8, 87 lb down and 28 lb up at 10-7-4, 87 lb down and 28 lb up at 12-4-8, and 87 lb down and 28 lb up at 14-1-12, and 386 lb down and 187 lb up at 16-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert: 2-18=-60, 2-3=-60, 3-5=-60, 5-6=-60, 6-7=-60, 1-12=-20, 2-6=-20, 8-13=-20

Concentrated Loads (lb)

Vert: 3=-100(F) 5=-100(F) 11=-386(F) 10=-80(F) 4=-100(F) 9=-386(F) 20=-100(F) 21=-100(F) 22=-80(F) 23=-80(F)



REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192127 3179185 T34 qiH Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:41 2022 Page 1

10-6-8

3-0-0

10-6-8

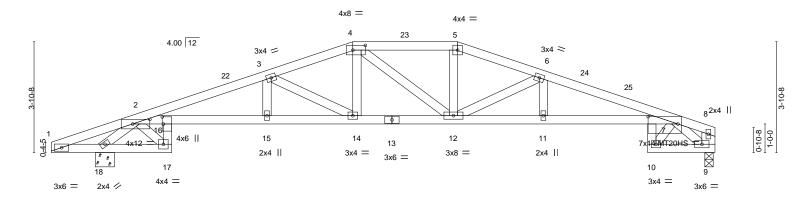
ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-Qo6vYfU5vzoZuPM8VQ1QrvJ64upF5cEr19I_Gmz_piK 20-10-4 3-8-0 3-0-0

20-10-4

Structural wood sheathing directly applied or 2-2-0 oc purlins.

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

Scale = 1:40.3



	1-6-8 0 <u>-4-</u> 0	2-4-0 ' 3-4	-0	3-0-0	1	3-8-0	1	3-0-0	'	3-7-12	2 ' 2-3-8	3 0-0 ' 12	
Plate Off	sets (X,Y)	[2:0-7-4,0-1-15], [4:0-5-4	,0-2-0], [7:1-0-	3,0-3-2], [16:	0-3-0,0-0-8]								
													_
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	0.93	Vert(LL)	-0.29	7-11	>888	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	ВС	0.95	Vert(CT)	-0.58	7-11	>438	180	MT20HS	187/143	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.51	9	n/a	n/a			
BCDL	10.0	Code FBC2020/TPI2014		Matri	x-MS						Weight: 111 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

14-2-8

17-2-8

LUMBER-

TOP CHORD 2x4 SP No 2 *Except* 5-8: 2x4 SP M 31

4-2-8

BOT CHORD 2x4 SP No.2 *Except*

1-6-8 1-10_r8

16-17,7-10: 2x4 SP No.3, 2-13,7-13: 2x4 SP M 31

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

REACTIONS. (size) 18=0-8-0, 9=0-3-8

Max Horz 18=64(LC 12)

Max Uplift 18=-253(LC 8), 9=-187(LC 9) Max Grav 18=992(LC 1), 9=855(LC 1)

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

TOP CHORD 2-3=-2564/719, 3-4=-1797/546, 4-5=-1690/520, 5-6=-1806/535, 6-7=-2614/710,

7-6-8

7-8=-263/77

BOT CHORD 17-18=-245/969, 16-17=-265/1087, 2-16=-640/2365, 15-16=-651/2421, 14-15=-651/2421,

12-14=-438/1689, 11-12=-639/2496, 7-11=-638/2492

WEBS 2-18=-1350/448, 4-14=-81/387, 5-12=-89/423, 2-17=-1339/351, 8-9=-841/231,

3-14=-843/244, 6-12=-928/284, 3-15=-42/326, 6-11=-20/266

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 3-2-12, Interior(1) 3-2-12 to 10-6-8, Exterior(2E) 10-6-8 to 14-2-8, Exterior(2R) 14-2-8 to 18-5-7, Interior(1) 18-5-7 to 22-11-12 zone; cantilever left 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 MT20 plates 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=253, 9=187,

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23-1-12 23-2-8

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July 7,2022

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REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192128 3179185 T35 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:42 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-u_gHI_VjgHxQWZxK38YfO6rHql8Bq01_Fp2YoDz_piJ

16-5-8

20-10-4

4-4-12

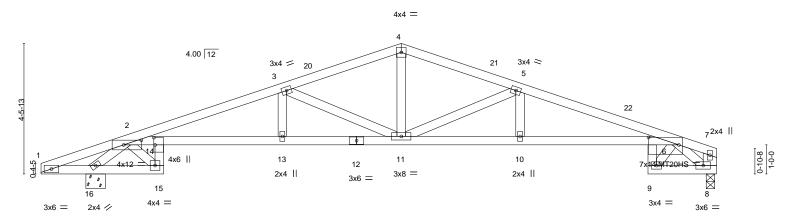
Structural wood sheathing directly applied or 2-2-0 oc purlins.

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

12-4-8

4-1-0

Scale = 1:39.6



₁ 1-6-8 1 ₁ 10 ₁ 8	4-2-8	8-3-8	12-4-8	16-5-8	20-10-4	23-1-12	23₁2-8
1-6-8 0-4-0	2-4-0	4-1-0	4-1-0	4-1-0	4-4-12	2-3-8	0-0 <mark>-</mark> 12
Plate Offsets (X,Y)	[2:0-7-4,0-1-	15], [6:1-0-8,0-3-2], [14:0-3-0,0	0-0-8]				

LOADING	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	0.93	Vert(LL)	-0.33	6-10	>779	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	-0.67	6-10	>382	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.57	8	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS						Weight: 106 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No 2 *Except* 4-7: 2x4 SP M 31 **BOT CHORD** 2x4 SP No.2 *Except*

14-15,6-9: 2x4 SP No.3, 2-12,6-12: 2x4 SP M 31

WEBS 2x4 SP No.3 *Except* 7-8: 2x6 SP No.2

REACTIONS. (size) 16=0-8-0, 8=0-3-8

Max Horz 16=73(LC 12)

Max Uplift 16=-243(LC 8), 8=-177(LC 9) Max Grav 16=992(LC 1), 8=855(LC 1)

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

2-3=-2431/584, 3-4=-1522/405, 4-5=-1528/412, 5-6=-2469/604, 6-7=-263/72 TOP CHORD BOT CHORD

15-16=-254/971, 14-15=-270/1081, 2-14=-503/2233, 13-14=-514/2290, 11-13=-514/2290, 10-11=-534/2346, 6-10=-533/2343

WEBS 2-16=-1352/418, 3-13=-31/353, 3-11=-980/283, 4-11=-165/783, 5-11=-1041/285,

2-15=-1331/348, 5-10=-12/305, 7-8=-841/213

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 3-2-12, Interior(1) 3-2-12 to 12-4-8, Exterior(2R) 12-4-8 to 15-4-8, Interior(1) 15-4-8 to 22-11-12 zone; cantilever left 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) All plates are MT20 plates unless otherwise indicated.
- 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) except (jt=lb) 16=243, 8=177.

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July 7,2022

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REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192129 3179185 T36 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:43 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-NBEfyKWLRa3H7jWXdr3uwKOWrhZ0ZNK7UTn5Kfz_pil 12-4-8

5-8-3

Scale = 1:38.3

23-2-8 0-0-12

7-1-7

Structural wood sheathing directly applied or 3-3-14 oc purlins.

Rigid ceiling directly applied or 9-10-6 oc bracing.

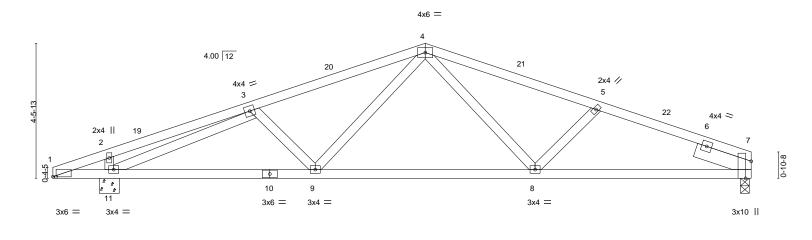


Plate Off	Plate Offsets (X,Y) [1:0-1-5,0-0-1], [7:0-6-13,Edge]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	-0.10	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	ВС	0.67	Vert(CT)	-0.23	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.06	7	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	, ,					Weight: 108 lb	FT = 20%

16-0-5

7-3-11

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

1-6-8 1₁10₁8

1-6-8 0-4-0

SLIDER Right 2x6 SP No.2 1-11-8

REACTIONS.

(size) 7=0-3-8, 11=0-8-0 Max Horz 11=71(LC 12) Max Uplift 7=-180(LC 9), 11=-250(LC 8) Max Grav 7=847(LC 1), 11=1010(LC 1)

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

8-8-10

6-10-2

TOP CHORD 3-4=-1423/365. 4-5=-1417/380. 5-7=-1583/418 BOT CHORD 9-11=-326/1391. 8-9=-229/1079. 7-8=-352/1452

4-9=-78/373, 4-8=-81/391, 5-8=-250/152, 2-11=-259/158, 3-11=-1443/473 **WEBS**

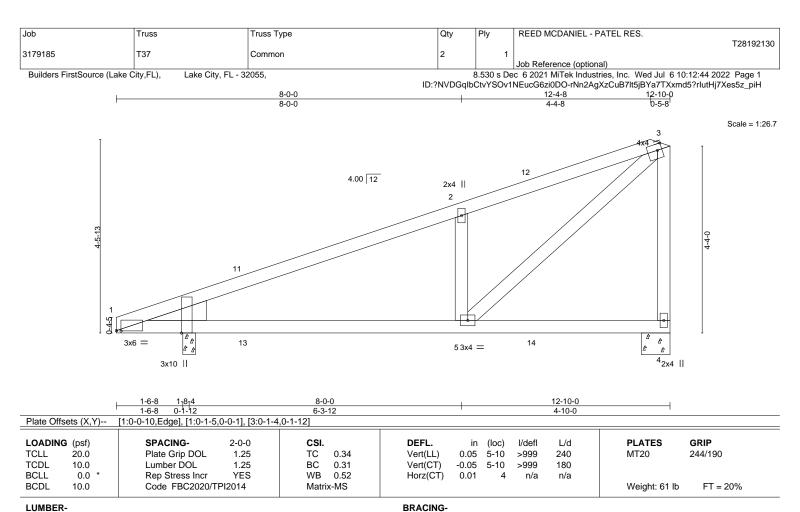
NOTES-

- 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 3-0-0, Interior(1) 3-0-0 to 12-4-8, Exterior(2R) 12-4-8 to 15-4-8, Interior(1) 15-4-8 to 23-2-8 zone; cantilever left 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) except (jt=lb) 7=180, 11=250.

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July 7,2022



BOT CHORD

LUMBER-

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

WFBS WEDGE

Left: 2x6 SP No.2

REACTIONS. (size) 4=0-8-0, 1=0-3-8

Max Horz 1=146(LC 8)

Max Uplift 4=-227(LC 8), 1=-234(LC 8) Max Grav 4=437(LC 1), 1=578(LC 1)

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

1-2=-584/461, 2-3=-579/534, 3-4=-396/374 TOP CHORD

BOT CHORD 1-5=-530/500

WEBS 2-5=-340/192, 3-5=-702/663

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 12-8-4 zone; cantilever left exposed; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=227, 1=234.

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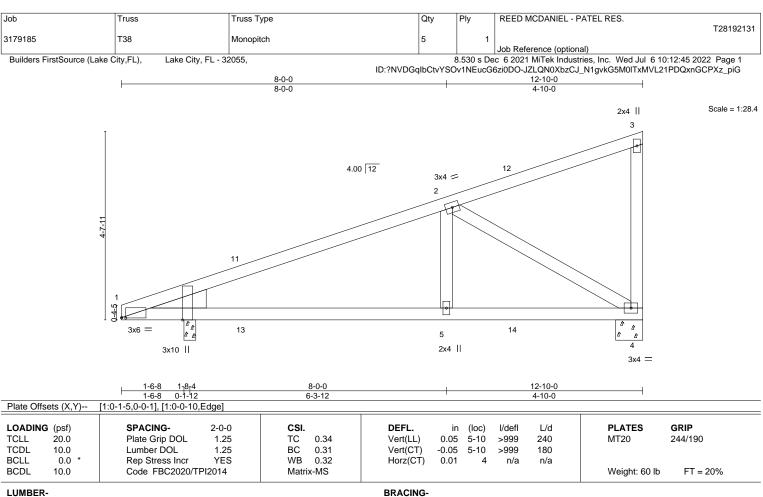
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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

Rigid ceiling directly applied or 7-9-15 oc bracing.

except end verticals.



BOT CHORD

LUMBER-

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

WEDGE

Left: 2x6 SP No.2

REACTIONS. (size) 4=0-8-0, 1=0-3-8

Max Horz 1=146(LC 8)

Max Uplift 4=-227(LC 8), 1=-234(LC 8) Max Grav 4=437(LC 1), 1=578(LC 1)

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

TOP CHORD 1-2=-586/463

BOT CHORD 1-5=-532/502, 4-5=-532/502 WEBS 2-5=-283/226, 2-4=-569/602

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 12-8-4 zone; cantilever left exposed; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=227, 1=234.

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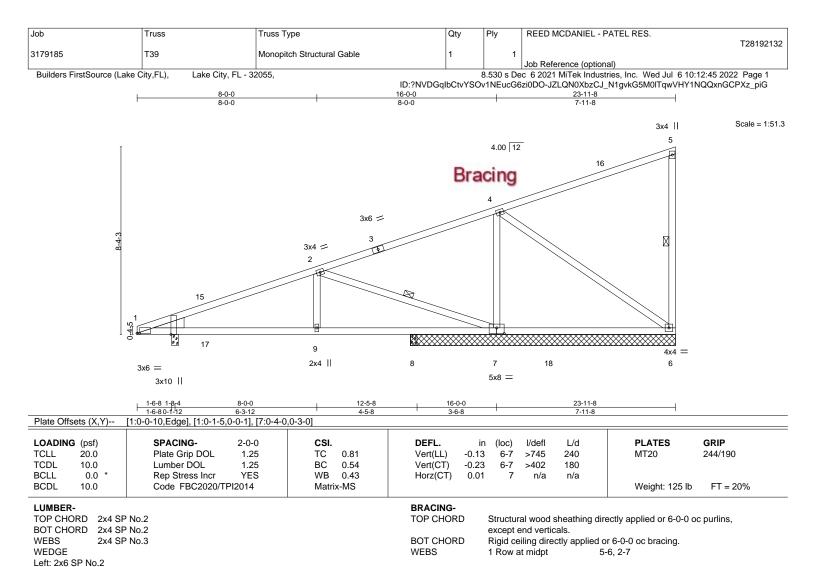




Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 7-9-13 oc bracing.

except end verticals.



REACTIONS. All bearings 11-9-8 except (jt=length) 1=0-3-8, 8=0-3-8.

Max Horz 1=273(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 6, 8 except 7=-348(LC 8), 1=-230(LC 8) All reactions 250 lb or less at joint(s) 6, 8 except 7=1229(LC 2), 1=615(LC 2)

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

TOP CHORD 1-2=-622/430, 2-4=-228/297

BOT CHORD 1-9=-609/549, 8-9=-609/549, 7-8=-609/549

WEBS 2-9=-263/212, 2-7=-802/721, 4-7=-759/328, 4-6=-96/275

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 23-9-12 zone; cantilever left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 8 except (jt=lb) 7=348, 1=230.

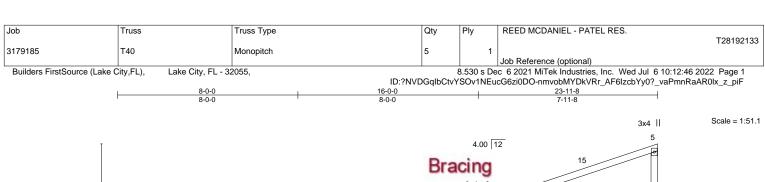
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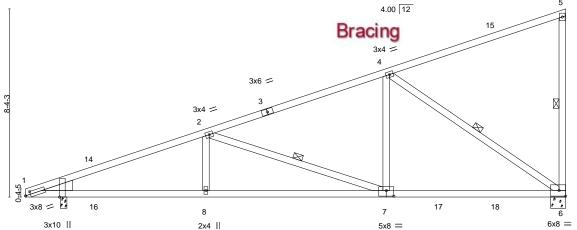
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July 7,2022









1-6-8 1-8₁4 1-6-8 0-1-12 Plate Offsets (X,Y)--[1:0-0-10,Edge], [1:0-2-11,0-1-8], [7:0-4-0,0-3-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 ТС 0.79 Vert(LL) 0.25 7-8 >999 240 MT20 244/190 TCDL Lumber DOL вс 0.75 Vert(CT) 10.0 1.25 -0.33 7-8 >878 180 WB 0.58 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.04 6 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 125 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 *Except* 1-7: 2x4 SP M 31

WFBS 2x4 SP No.3

WEDGE

Left: 2x6 SP No.2

REACTIONS. (size) 6=0-8-0, 1=0-3-8

Max Horz 1=273(LC 12)

Max Uplift 6=-453(LC 8), 1=-414(LC 8) Max Grav 6=966(LC 2), 1=1092(LC 2)

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

1-2=-1772/1384, 2-4=-1133/826 TOP CHORD

BOT CHORD 1-8=-1501/1623, 7-8=-1501/1623, 6-7=-910/1024

WEBS 2-8=-262/203, 2-7=-633/626, 4-7=-657/572, 4-6=-1226/1089

- 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 23-9-12 zone; cantilever left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=453, 1=414.

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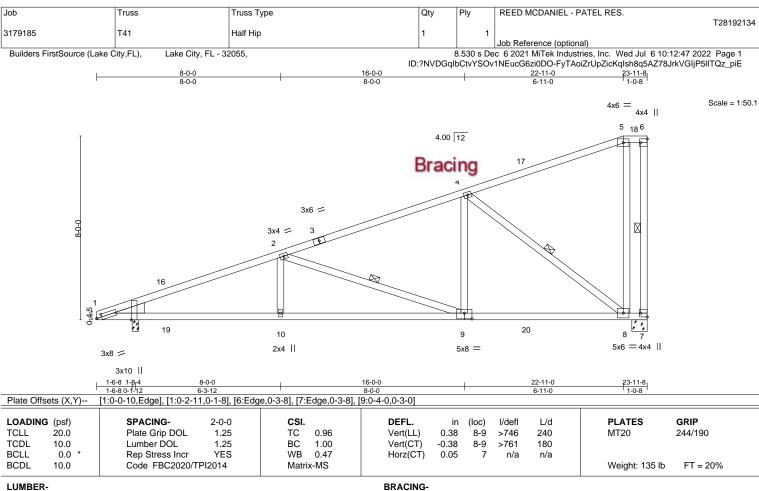
Structural wood sheathing directly applied or 3-3-7 oc purlins,

5-6, 2-7, 4-6

Rigid ceiling directly applied or 5-5-1 oc bracing.

except end verticals.

1 Row at midpt



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

2x4 SP No 3 WFBS

WEDGE

REACTIONS.

Left: 2x6 SP No.2

TOP CHORD Structural wood sheathing directly applied or 3-3-1 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 1-4-12 oc bracing. WEBS 1 Row at midpt 6-7, 2-9, 4-8

(size) 7=0-8-0, 1=0-3-8

Max Horz 1=263(LC 8)

Max Uplift 7=-437(LC 8), 1=-417(LC 8) Max Grav 7=887(LC 1), 1=1018(LC 1)

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

TOP CHORD 1-2=-1655/1400, 2-4=-1061/862, 6-7=-259/331 BOT CHORD 1-10=-1513/1503, 9-10=-1513/1503, 8-9=-947/944

WEBS 2-10=-266/208, 2-9=-591/613, 4-9=-693/536, 4-8=-1132/1131

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 22-11-0, Exterior(2E) 22-11-0 to 23-9-12 zone; cantilever left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=437, 1=417.

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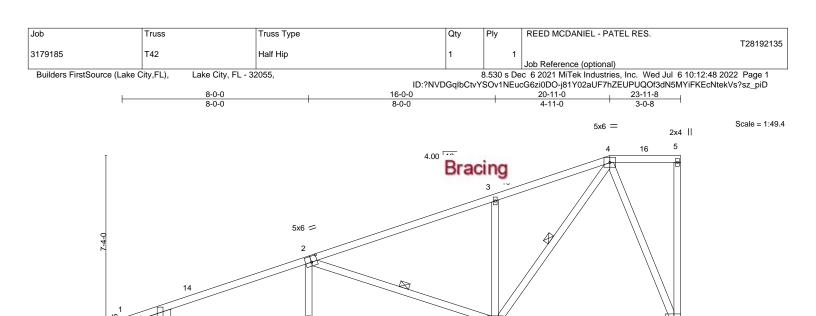
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	1-6-8	8-0-0	16-0-0	23-11-8
ı	1-6-8	6-5-8	8-0-0	7-11-8

18

except end verticals.

1 Row at midpt

7

5x8 =

LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	CSI. TC 0.73	DEFL. in (loc) I/defl L/d Vert(LL) 0.25 7-8 >999 240	PLATES GRIP MT20 244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.72	Vert(CT) -0.32 7-8 >897 180	25 2.111.00
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code FBC2020/TPI2014	WB 0.93 Matrix-MS	Horz(CT) 0.03 6 n/a n/a	Weight: 133 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No 2

BOT CHORD 2x4 SP No.2 *Except* 1-7: 2x4 SP M 31

WFBS 2x4 SP No.3

WEDGE

Left: 2x6 SP No.2

REACTIONS. (size) 6=0-8-0, 1=0-3-8

Max Horz 1=240(LC 8)

3x10 ||

Max Uplift 6=-442(LC 8), 1=-425(LC 8) Max Grav 6=984(LC 2), 1=1090(LC 2)

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

Plate Offsets (X,Y)-- [1:0-0-10,Edge], [1:0-2-11,0-1-8], [2:0-3-0,0-3-0], [7:0-4-0,0-3-0]

1-2=-1768/1441, 2-3=-1114/894, 3-4=-1111/982 TOP CHORD **BOT CHORD** 1-8=-1533/1620, 7-8=-1527/1617, 6-7=-305/330

WEBS $2-8 = -258/202, \ 2-7 = -651/626, \ 3-7 = -454/238, \ 4-7 = -1128/1174, \ 4-6 = -838/766$

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 20-11-0, Exterior(2E) 20-11-0 to 23-9-12 zone; cantilever left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

8

2x4 ||

- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=442, 1=425.

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*

6x8 =

20

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

2-7, 4-7

Rigid ceiling directly applied or 5-11-10 oc bracing.

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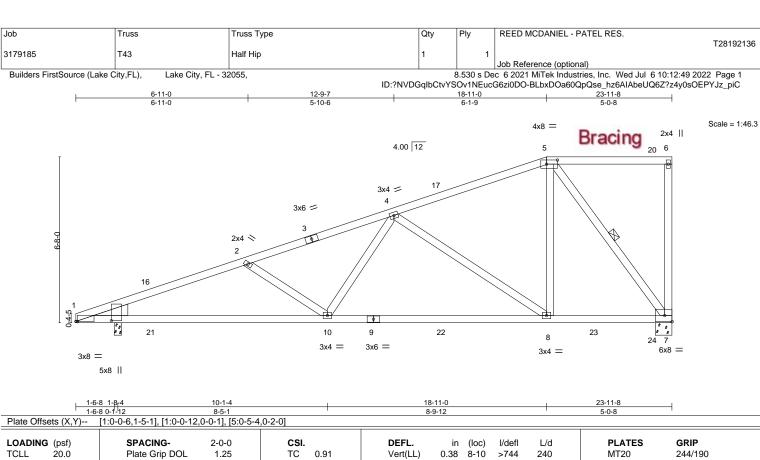
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TCDL Lumber DOL вс 0.89 Vert(CT) 10.0 1.25 -0.36 8-10 >787 180 WB 0.85 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.04 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 129 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SP No 3 WFBS WEDGE

Left: 2x6 SP No.2

REACTIONS. (size) 7=0-8-0, 1=0-3-8

Max Horz 1=217(LC 8) Max Uplift 7=-435(LC 8), 1=-432(LC 8) Max Grav 7=887(LC 1), 1=1018(LC 1)

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

TOP CHORD 1-2=-1655/1418, 2-4=-1430/1399, 4-5=-649/594 BOT CHORD 1-10=-1488/1497, 8-10=-1163/1172, 7-8=-612/566 WEBS 4-10=-527/406, 4-8=-751/692, 5-8=-825/610, 5-7=-919/999

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 18-11-0, Exterior(2R) 18-11-0 to 23-1-15, Interior(1) 23-1-15 to 23-9-12 zone; cantilever left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=435, 1=432.

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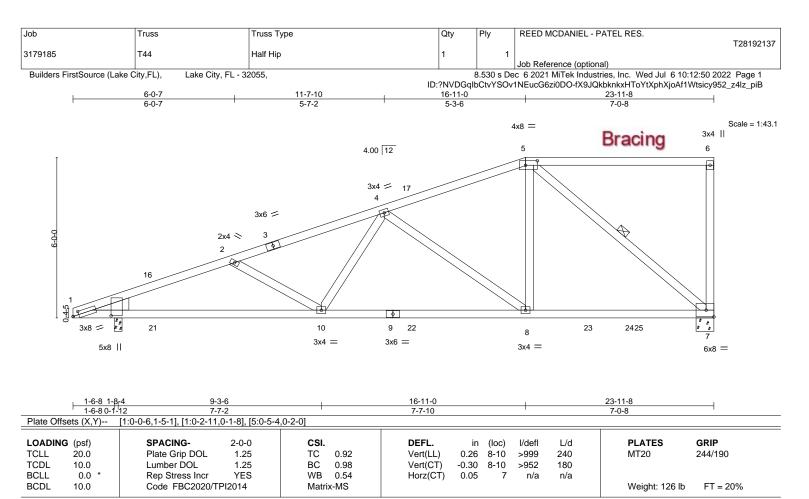


Structural wood sheathing directly applied or 2-2-0 oc purlins,

Rigid ceiling directly applied or 4-3-1 oc bracing.

except end verticals.

1 Row at midpt



LUMBER-

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

2x4 SP No 3 WFBS

WEDGE

Left: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins,

except end verticals.

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

WEBS 1 Row at midpt

REACTIONS. (size) 7=0-8-0, 1=0-3-8

Max Horz 1=194(LC 8)

Max Uplift 7=-429(LC 8), 1=-438(LC 8) Max Grav 7=967(LC 2), 1=1090(LC 2)

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

1-2=-1728/1437, 2-4=-1606/1451, 4-5=-940/825 TOP CHORD BOT CHORD 1-10=-1481/1571, 8-10=-1272/1350, 7-8=-828/865

WEBS 4-10=-405/310, 4-8=-621/573, 5-8=-769/687, 5-7=-1093/1053

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 16-11-0, Exterior(2R) 16-11-0 to 21-1-15, Interior(1) 21-1-15 to 23-9-12 zone; cantilever left exposed; 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.
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- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=429, 1=438.

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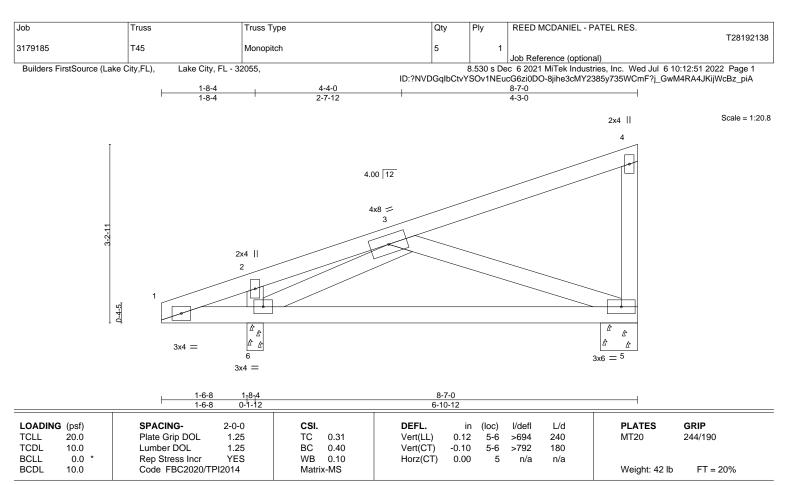
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LUMBER-

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

BRACING-

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

except end verticals

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

REACTIONS. (size) 5=0-8-0, 6=0-3-8

Max Horz 6=97(LC 8)

Max Uplift 5=-136(LC 8), 6=-171(LC 8) Max Grav 5=253(LC 1), 6=422(LC 1)

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

BOT CHORD 5-6=-337/266

WEBS 3-5=-258/312. 3-6=-330/123

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 8-5-4 zone; cantilever left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=136, 6=171.

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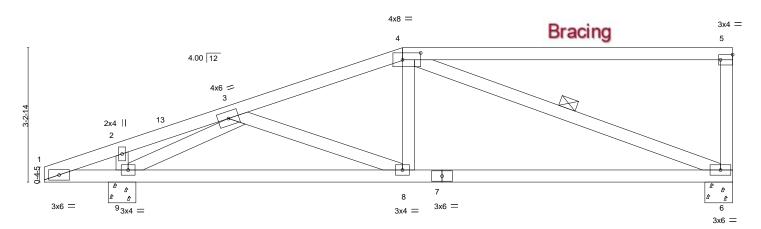
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REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192139 3179185 T46 Half Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:51 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-8jihe3cMY2385y735WCmF?js0wKRR7MJKijWcBz_piA

8-7-9 3-11-9

Scale = 1:27.8



1-6-8 1-6-8 0-4-0 Plate Offsets (X,Y)--[4:0-5-4,0-2-0], [5: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	0.78	Vert(LL)	-0.09	6-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.18	6-8	>945	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code FBC2020/Ti	PI2014	Matri	x-MS						Weight: 81 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

1-10-8

1-10-8

2x4 SP No.3 WFBS

REACTIONS. (size) 6=0-8-0, 9=0-8-0

Max Horz 9=99(LC 8)

Max Uplift 6=-152(LC 8), 9=-208(LC 8) Max Grav 6=573(LC 1), 9=742(LC 1)

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

TOP CHORD 3-4=-842/233

BOT CHORD 8-9=-296/727 6-8=-247/779

WFBS 4-8=0/286, 4-6=-753/240, 3-9=-873/391

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 8-7-9, Exterior(2R) 8-7-9 to 12-10-8, Interior(1) 12-10-8 to 16-5-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=152, 9=208.

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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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

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

except end verticals.

1 Row at midpt

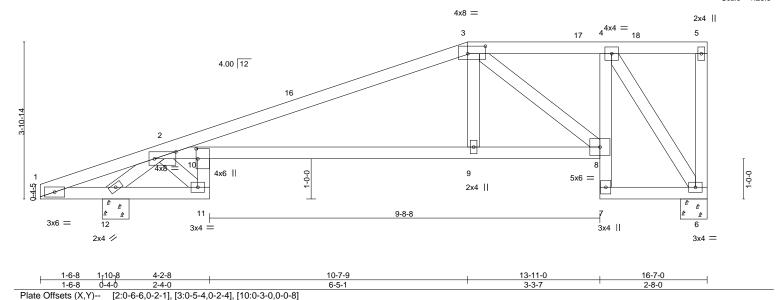
REED MCDANIEL - PATEL RES. Job Truss Truss Type Qty Ply T28192140 3179185 T47 Half Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 10:12:52 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-cvG3rPd_JLB?j5iFfEj?oDG_EKbxAavSYMT38ez_pi9 10-7-9 13-11-0 16-7-0

3-3-7

6-5-1

Scale = 1:28.6

2-8-0



DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

(loc)

9-10

6

0.27 9-10

-0.54

0.25

I/defI

>654

>326

6-0-0 oc bracing: 1-12.

n/a

L/d

240

180

n/a

PLATES

Weight: 82 lb

MT20

Structural wood sheathing directly applied, except end verticals.

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

GRIP

244/190

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

4-2-8

10-11,4-7: 2x4 SP No.3, 2-8: 2x4 SP M 31

SPACING-

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

WFBS 2x4 SP No.3

20.0

10.0

0.0

10.0

REACTIONS. (size) 6=0-8-0, 12=0-8-0

Max Horz 12=122(LC 8) Max Uplift 6=-159(LC 8), 12=-197(LC 8)

Max Grav 6=583(LC 1), 12=732(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1060/322, 3-4=-394/145

BOT CHORD 11-12=-278/667, 10-11=-257/683, 2-10=-299/875, 9-10=-353/959, 8-9=-356/980,

2-0-0

1.25

1.25

YES

CSI.

TC

вс

WB

Matrix-MS

1.00

0.87

0.26

4-8=-125/397, 6-7=-120/335

WEBS 2-12=-985/359, 3-9=-57/429, 3-8=-736/280, 4-6=-601/216, 2-11=-833/335

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 3-2-12, Interior(1) 3-2-12 to 10-7-9, Exterior(2R) 10-7-9 to 14-10-8, Interior(1) 14-10-8 to 16-5-4 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=159, 12=197.

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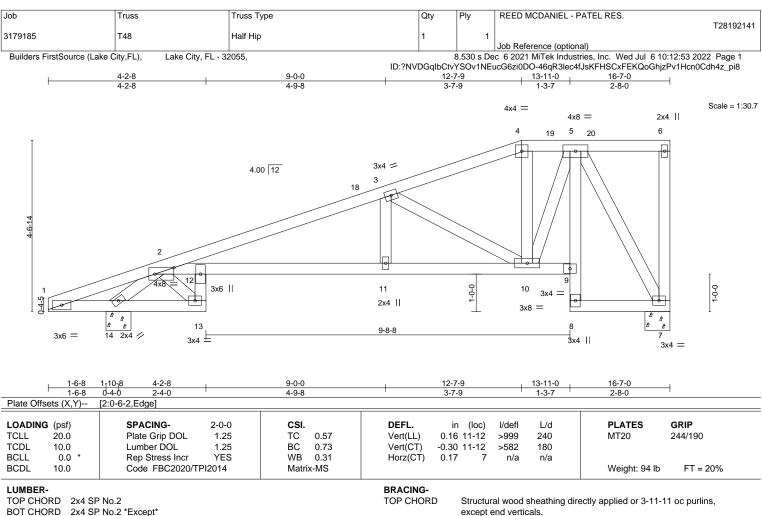
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BOT CHORD

12-13,5-8: 2x4 SP No.3, 2-9: 2x4 SP M 31

WFBS 2x4 SP No.3

REACTIONS. (size) 7=0-8-0, 14=0-8-0 Max Horz 14=145(LC 8)

Max Uplift 7=-166(LC 8), 14=-191(LC 8) Max Grav 7=583(LC 1), 14=732(LC 1)

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

TOP CHORD 2-3=-1314/390, 3-4=-551/177, 4-5=-476/185

BOT CHORD 13-14=-272/642, 12-13=-284/699, 2-12=-443/1171, 11-12=-461/1220, 10-11=-461/1220,

9-10=-121/320, 7-8=-108/285

WEBS 2-14=-956/307, 3-11=-38/326, 3-10=-851/314, 5-10=-175/428, 5-7=-582/221,

2-13=-856/363

- 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 3-2-12, Interior(1) 3-2-12 to 12-7-9, Exterior(2E) 12-7-9 to 16-5-4 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60
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- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=166, 14=191.

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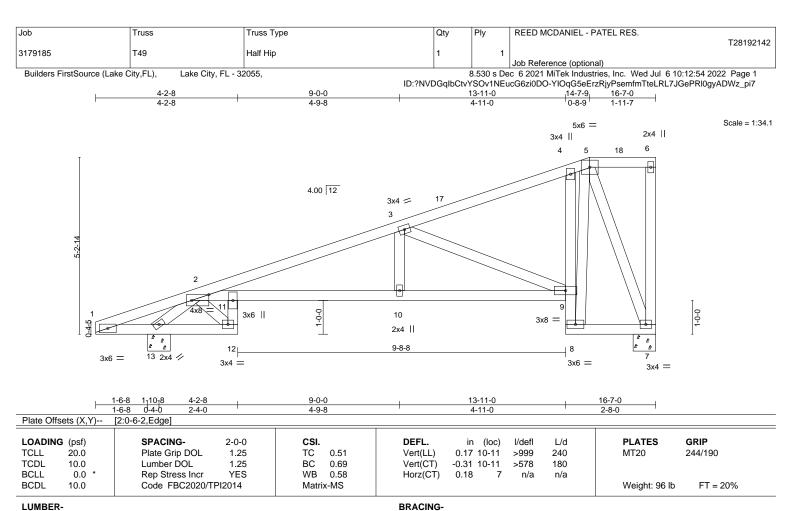
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ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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

6-0-0 oc bracing: 1-14.



BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

11-12,4-8: 2x4 SP No.3, 2-9: 2x4 SP M 31

WFBS 2x4 SP No.3

REACTIONS. (size) 7=0-8-0, 13=0-8-0

Max Horz 13=168(LC 8)

Max Uplift 7=-174(LC 8), 13=-184(LC 8) Max Grav 7=580(LC 1), 13=732(LC 1)

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

TOP CHORD 2-3=-1321/337. 3-4=-374/92

BOT CHORD 12-13=-285/640, 11-12=-300/699, 2-11=-418/1181, 10-11=-435/1228, 9-10=-435/1228,

8-9=-303/171

WEBS 2-13=-954/287, 3-10=-31/348, 3-9=-1004/334, 5-8=-197/405, 5-7=-603/246,

2-12=-857/383

- 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 3-2-12, Interior(1) 3-2-12 to 14-7-9, Exterior(2E) 14-7-9 to 16-5-4 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=174, 13=184.

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

Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

July 7,2022

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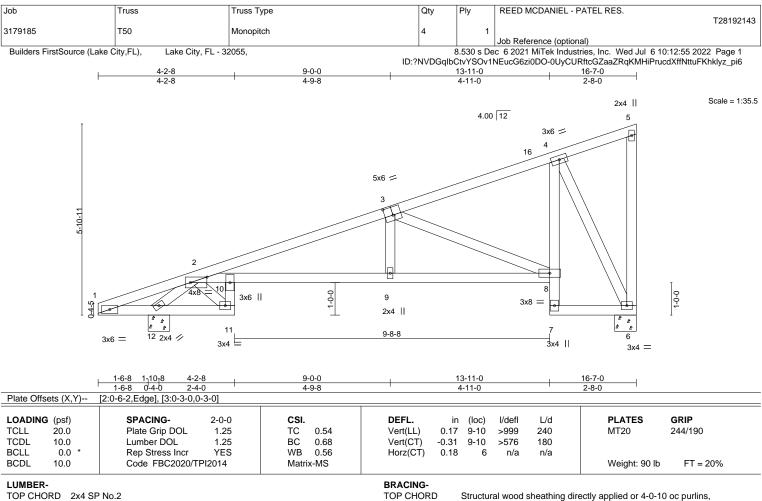
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied or 4-1-11 oc purlins,

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

except end verticals.



BOT CHORD

except end verticals.

6-0-0 oc bracing: 1-12 9-9-2 oc bracing: 10-11.

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

BOT CHORD 2x4 SP No.2 *Except*

10-11,4-7: 2x4 SP No.3, 2-8: 2x4 SP M 31

WFBS 2x4 SP No.3

REACTIONS. (size) 6=0-8-0, 12=0-8-0 Max Horz 12=189(LC 8)

Max Uplift 6=-182(LC 12), 12=-176(LC 8) Max Grav 6=583(LC 1), 12=732(LC 1)

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

TOP CHORD 2-3=-1316/304, 3-4=-382/54

BOT CHORD 11-12=-296/642, 10-11=-312/699, 2-10=-380/1173, 9-10=-405/1222, 8-9=-405/1217,

4-8=-98/432, 6-7=-86/266

WEBS 2-12=-956/275, 3-9=-34/350, 3-8=-983/333, 4-6=-591/191, 2-11=-857/397

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 3-2-12, Interior(1) 3-2-12 to 16-5-4 zone; cantilever left 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=182, 12=176.

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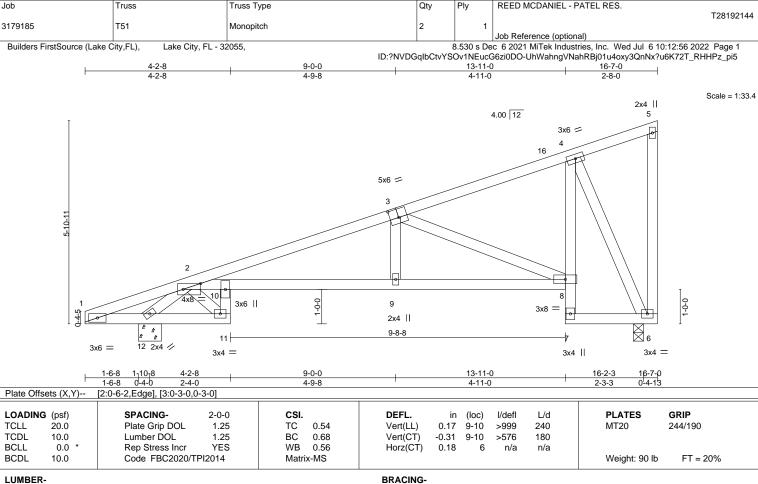
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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





BOT CHORD

REED MCDANIEL - PATEL RES.

Structural wood sheathing directly applied or 4-0-10 oc purlins,

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

except end verticals.

6-0-0 oc bracing: 1-12 9-9-2 oc bracing: 10-11.

Ply

LUMBER-

Job

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

10-11,4-7: 2x4 SP No.3, 2-8: 2x4 SP M 31

WFBS 2x4 SP No.3

REACTIONS. (size) 6=0-3-8, 12=0-8-0 Max Horz 12=189(LC 8)

Truss

Truss Type

Max Uplift 6=-182(LC 12), 12=-176(LC 8) Max Grav 6=583(LC 1), 12=732(LC 1)

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

TOP CHORD 2-3=-1316/304. 3-4=-382/54

BOT CHORD 11-12=-296/642, 10-11=-312/699, 2-10=-380/1173, 9-10=-405/1222, 8-9=-405/1217,

4-8=-98/432, 6-7=-86/266

WEBS 2-12=-956/275, 3-9=-34/350, 3-8=-983/333, 4-6=-591/191, 2-11=-857/397

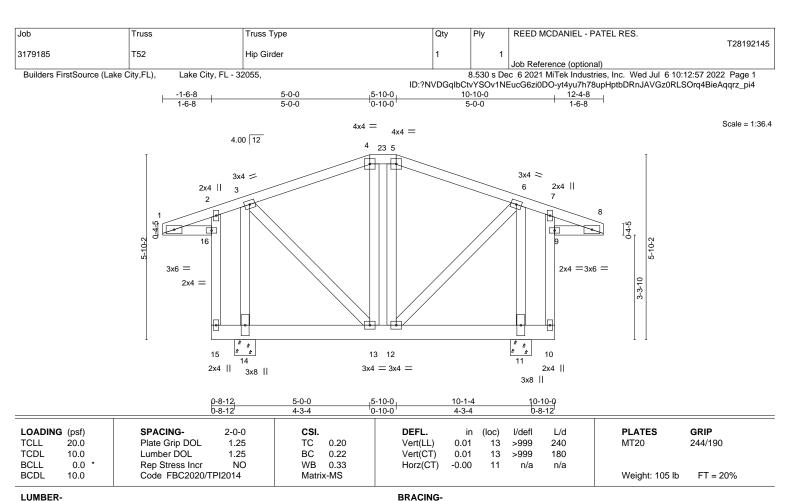
NOTES-

- 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 3-2-12, Interior(1) 3-2-12 to 16-5-4 zone; cantilever 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=182, 12=176.

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July 7,2022



BOT CHORD

LUMBER-

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

10-15: 2x6 SP No.2, 7-10,2-15: 2x4 SP No.3

WFBS 2x4 SP No 3

REACTIONS. (size) 14=0-8-0, 11=0-8-0

Max Horz 14=129(LC 4)

Max Uplift 14=-655(LC 4), 11=-694(LC 5) Max Grav 14=665(LC 1), 11=665(LC 1)

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

TOP CHORD 3-4=-223/430, 4-5=-169/424, 5-6=-223/435

BOT CHORD 12-13=-425/178

WFBS 3-13=-512/294, 3-14=-450/529, 6-12=-528/277, 6-11=-450/603

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; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=655, 11=694.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 75 lb down and 62 lb up at 5-0-0, and 75 lb down and 62 lb up at 5-10-0 on top chord, and 134 lb down and 463 lb up at 5-0-0, and 134 lb down and 463 lb up at 5-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-60, 4-5=-60, 5-8=-60, 10-15=-20, 16-17=-20, 9-20=-20

Concentrated Loads (lb)

Vert: 4=-56(F) 5=-56(F) 13=-52(F) 12=-52(F)

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

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

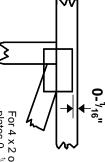
10-0-0 oc bracing: 12-13.

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ from outside edge of truss.

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

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

PLATE SIZE

4 × 4

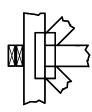
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

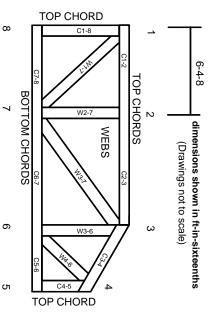
Min size shown is for crushing only

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

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- 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.
- 15. 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.