

RE: 2718981 - DETAILS

Site Information:

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

MiTek USA, Inc. 6904 Parke East Blvd.

Tampa, FL 33610-4115

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

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 Wind Code: ASCE 7-16 Roof Load: 37.0 psf

Design Program: MiTek 20/20 8.4 Wind Speed: 130 mph Floor Load: N/A psf

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

No.	Seal#	Detail Name	Date	No.	Seal#	Detail Name	Date	
1	T23399806	MII-REP10	4/2/21	15	T23399820	MII-VALLEY HIGH WIND2	4/2/21	
2	T23399807	MII-T-BRACE 2	4/2/21	16	T23399821	MII-VALLEY SP	4/2/21	
3	T23399808	MII-SCAB-BRACE	4/2/21	17	T23399822	MII-VALLEY SP	4/2/2	A STATISTICS AND A STAT
4	T23399809	MII-REP05	4/2/21	18	T23399823	MII-GE146-001	4/2/2	AN Risilar
5	T23399810	MII-GE130-D-SP	4/2/21	19	T23399824	MII-REP13B	4/2/2	inty would be
6	T23399811	MII-GE130-SP	4/2/21	20	T23399825	MII-STRGBCK	4/2/2	Our second secon
7	T23399812	MII-GE140-001	4/2/21					/ Plans
8	T23399813	MII-GE170-D-SP	4/2/21				mbia	Plans 8
9	T23399814	MII-GE180-D-SP	4/2/21				12	Reviewed
10	T23399815	MII-GE180-D-SP	4/2/21					for Code
11	T23399816	MII-PIGGY-ALT-7-16	4/2/21				12	
12	T23399817	MII-REP01A1	4/2/21				19	Compliance / S
13	T23399818	MII-TOENAIL_SP MII-VALLEY HIGH WIND1	4/2/21				10	141
14	T23399819		4/2/21					
								1 64. "******* × 18

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

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.



April 2,2021

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ORegan, Philip

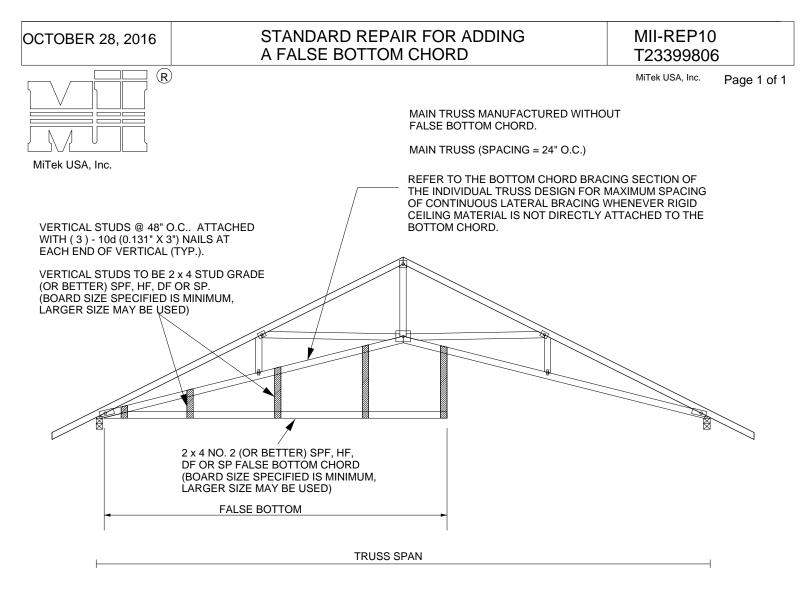


RE: \$JOBNAME - \$JOBDESC

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

Site Information:

Customer Info:\$SI_CUSTOMERProject Name:\$SI_JOBNAMEModel:\$SI_MODELLot/Block:\$SI_LOTNUMSubdivision:\$SI_SUBDIVAddress:\$SI_SITEADDRState:\$SI_SITESTATE



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.

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.

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

April 2,2021



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

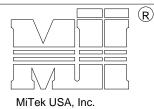
AUGUST 1, 2016

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

MII-T-BRACE 2 T23399807

Page 1 of 1

MiTek USA, Inc.

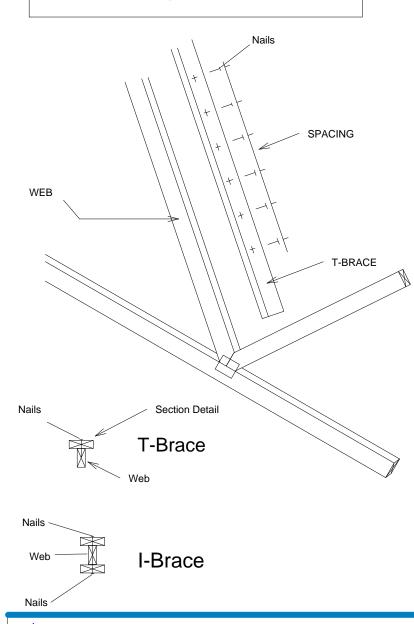


Note: T-Bracing / I-Bracing to be used when continuous lateral bracing is impractical. T-Brace / I-Brace must cover 90% of web length.

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

Nailing Pattern								
	1							
Nail Size	Nail Spacing							
10d (0 131" X 3")	6" o.c.							
100 (0:101 7.0)	0 0.0.							
entire length of T-Br	ace / I-Brace							

(On Two-Ply's Nail to Both Plies)



	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

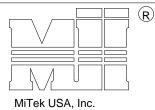


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AUGUST 1, 2016

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.

2 ROWS OF 10d SCAB MUST BE	CAB TO ONE FAC (0.131" X 3") NAI THE SAME GRA ETTER) AS THE V	CE OF WEB WITH ILS SPACED 6" O.C. DE, SIZE AND WEB.
	M	
SCAB BRACE		MAXIMUM WEB AXIAL FORCE = 2500 lb MAXIMUM WEB LENGTH = 12'-0" 2x4 MINIMUM WEB SIZE MINIMUM WEB GRADE OF #3
		M
Nails	Scab-Bra	on Detail
	🦳 Web	

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

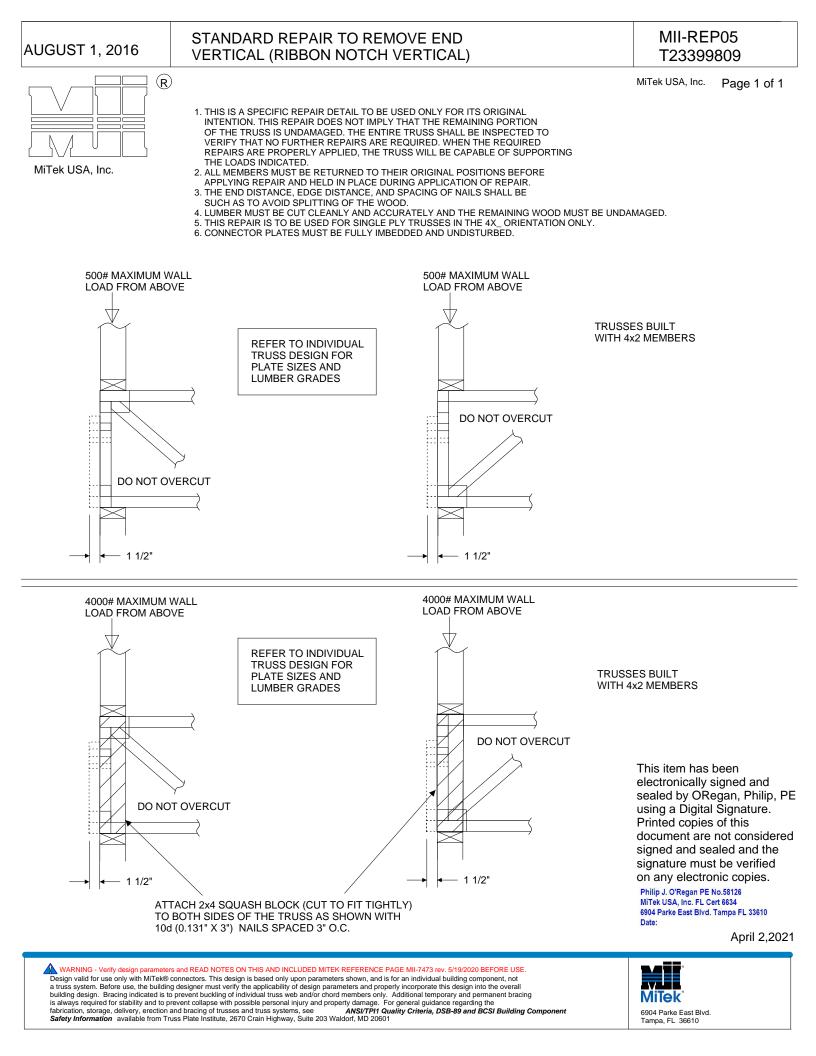
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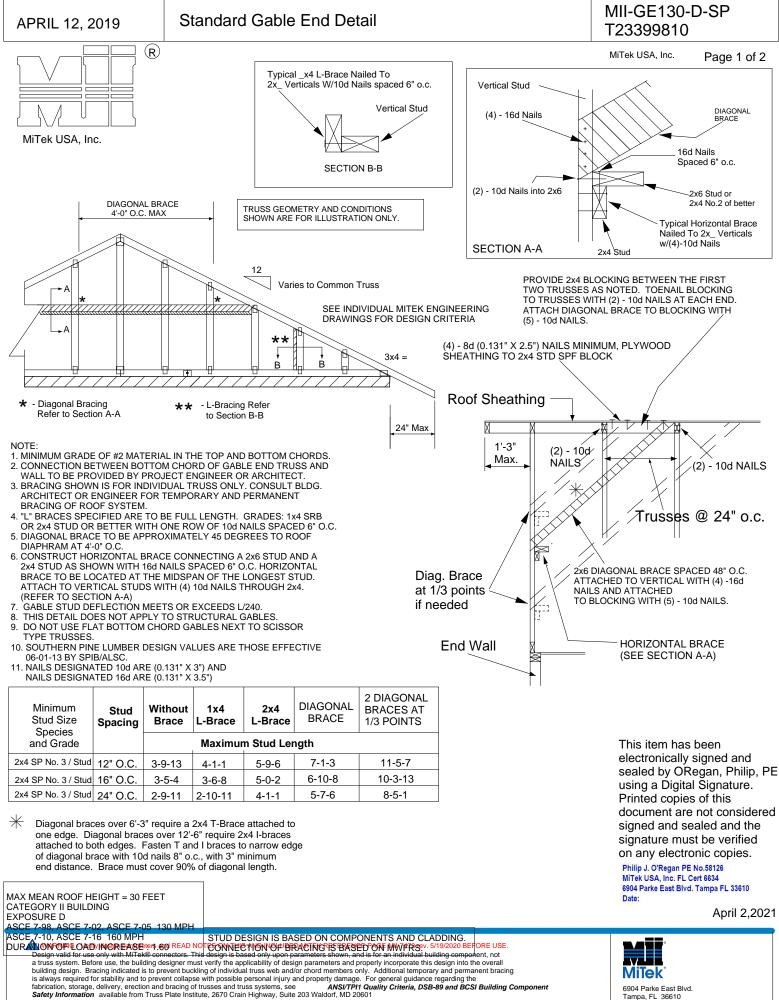
Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

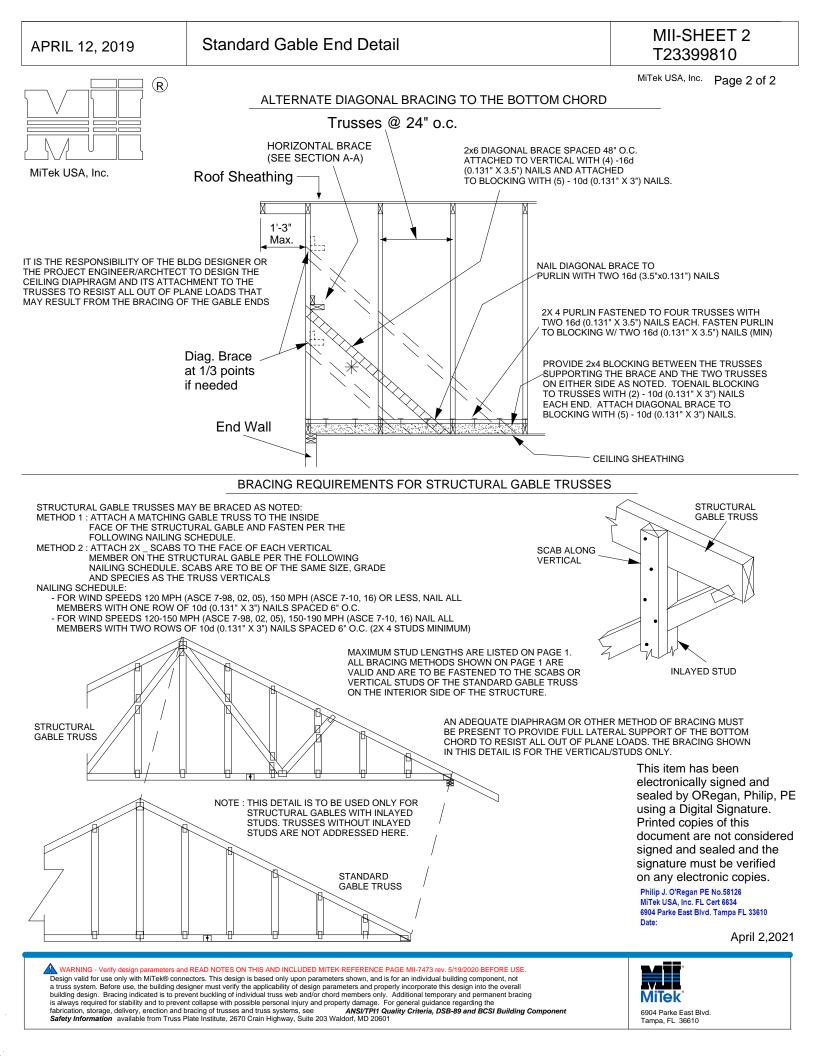
April 2,2021

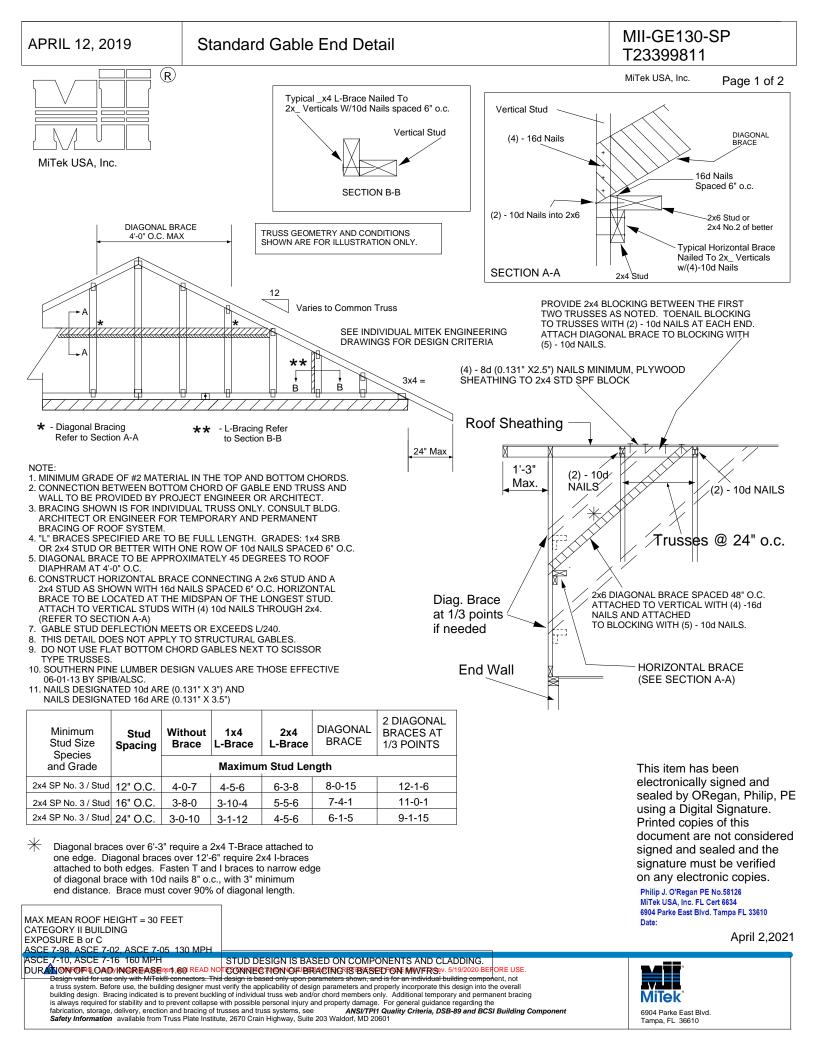


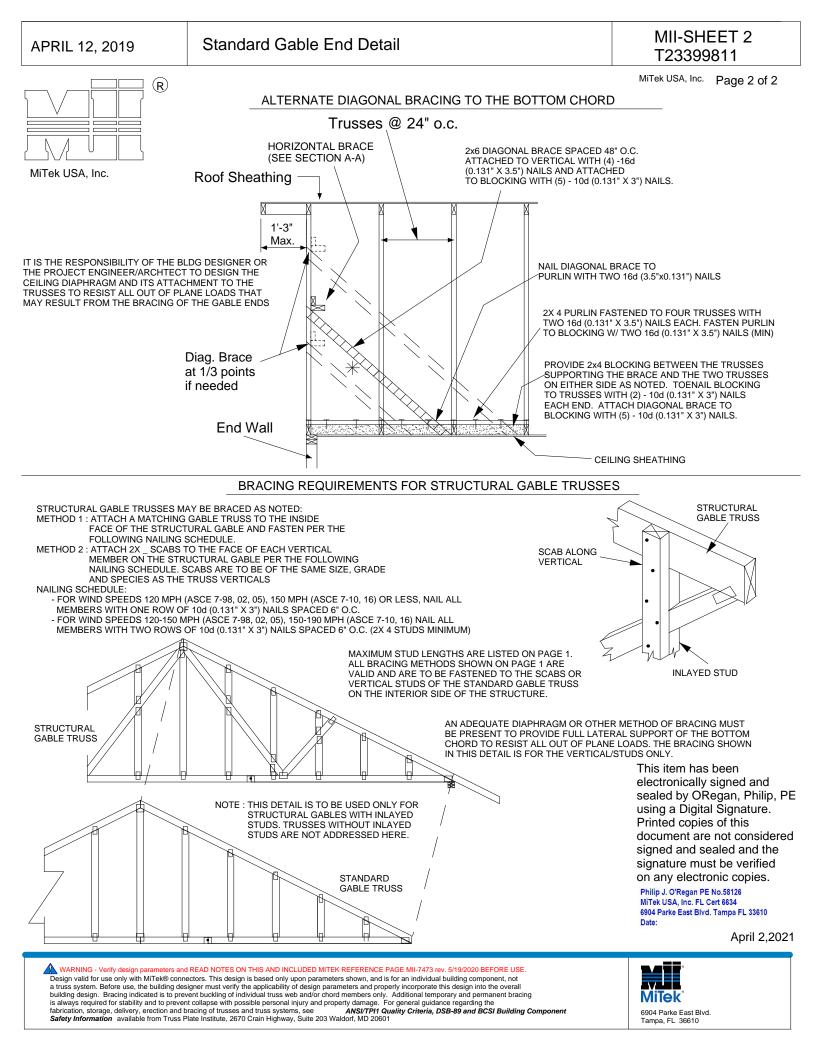
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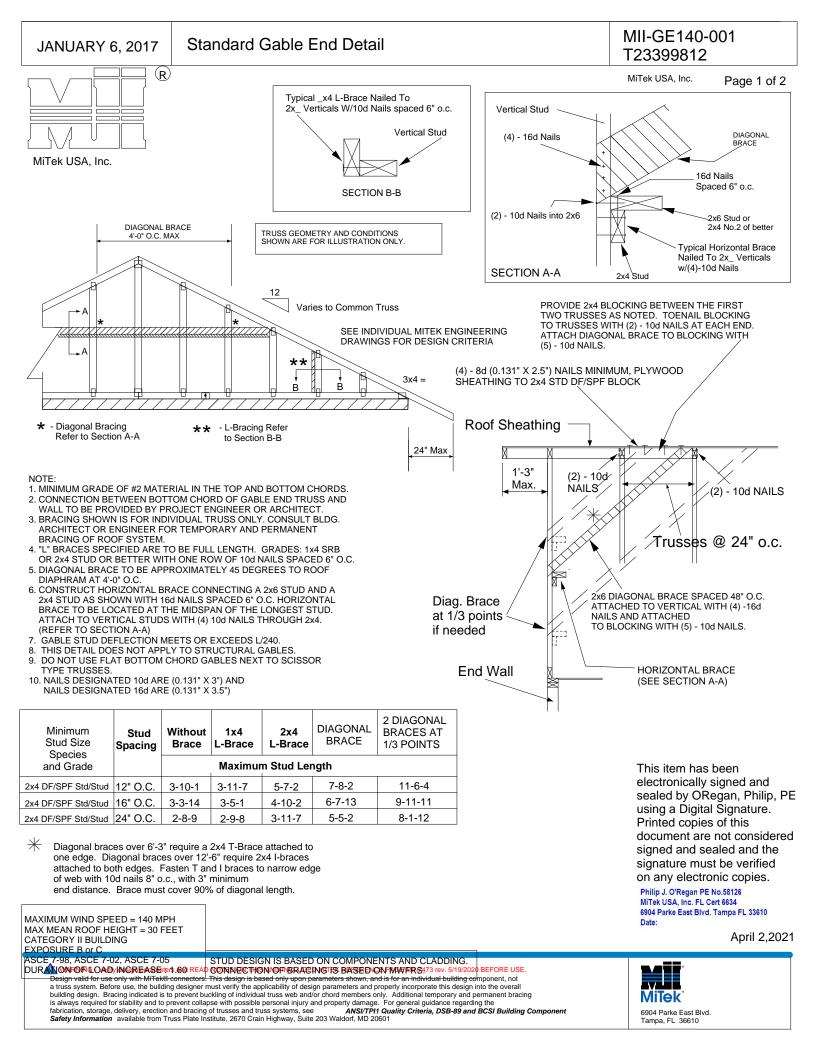


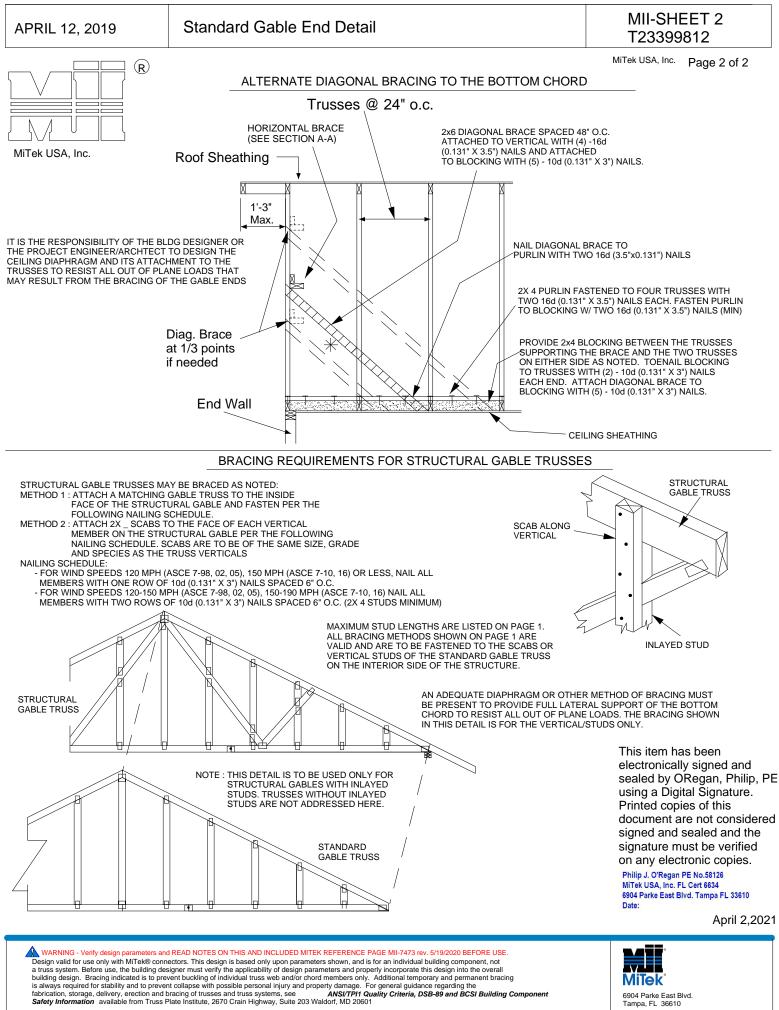




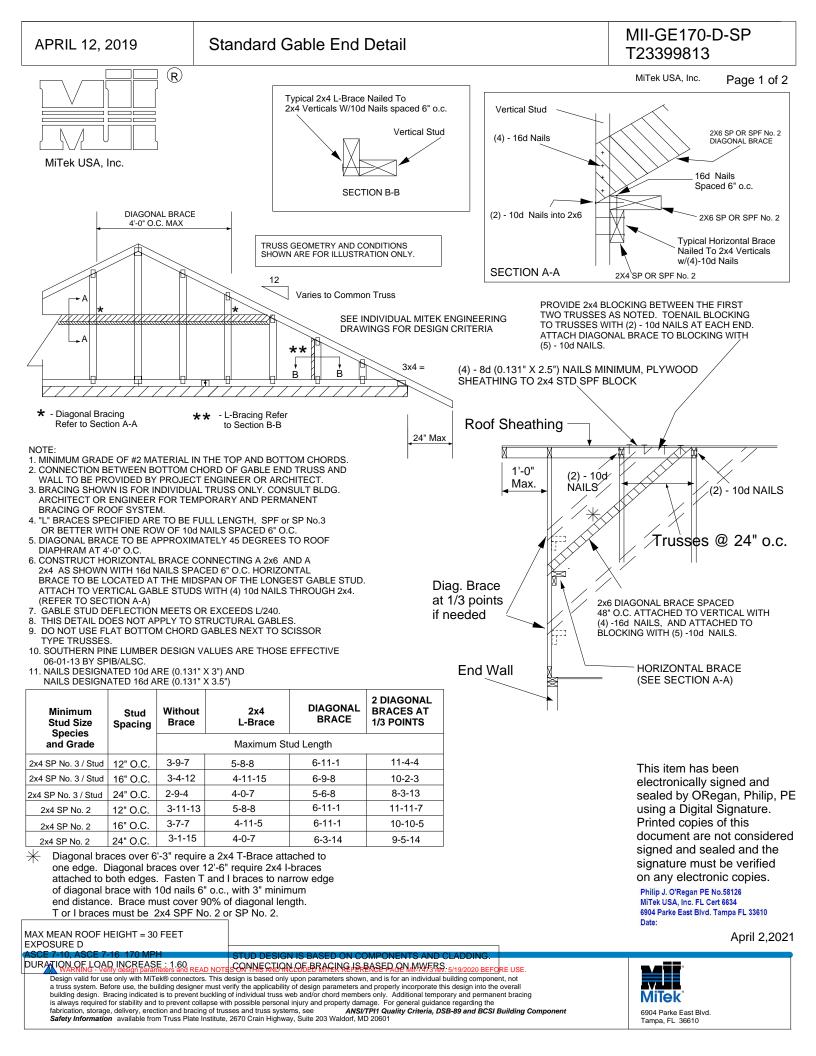


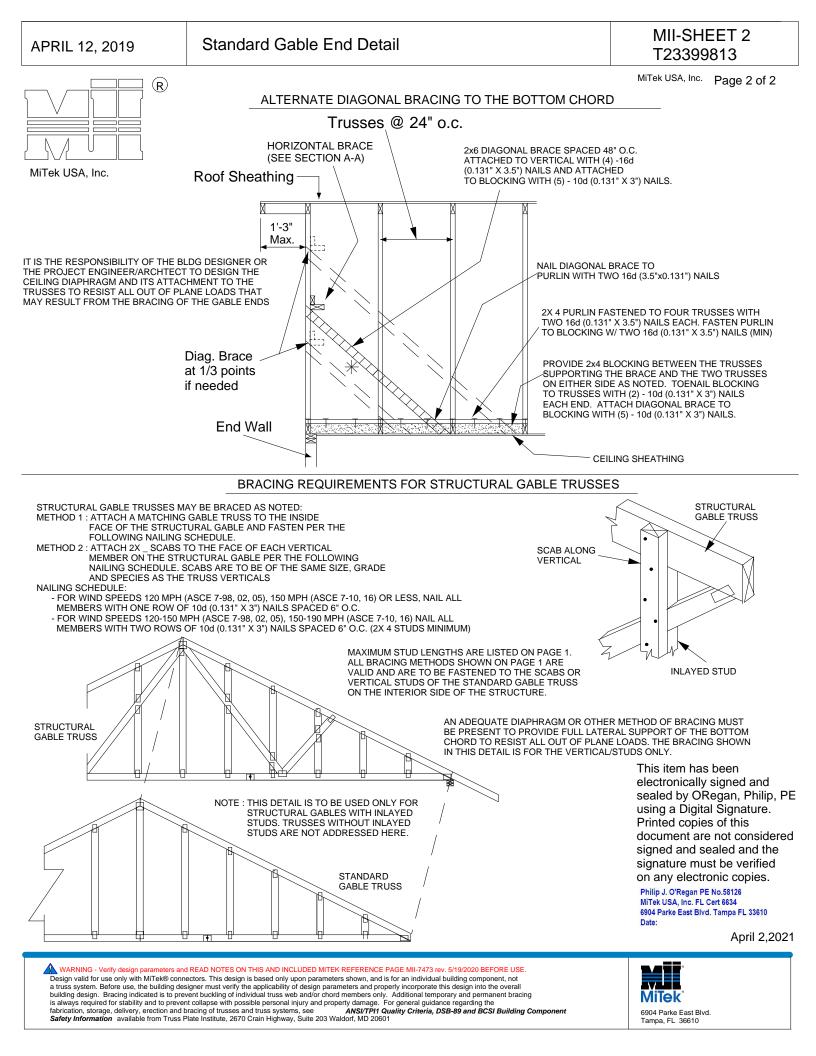


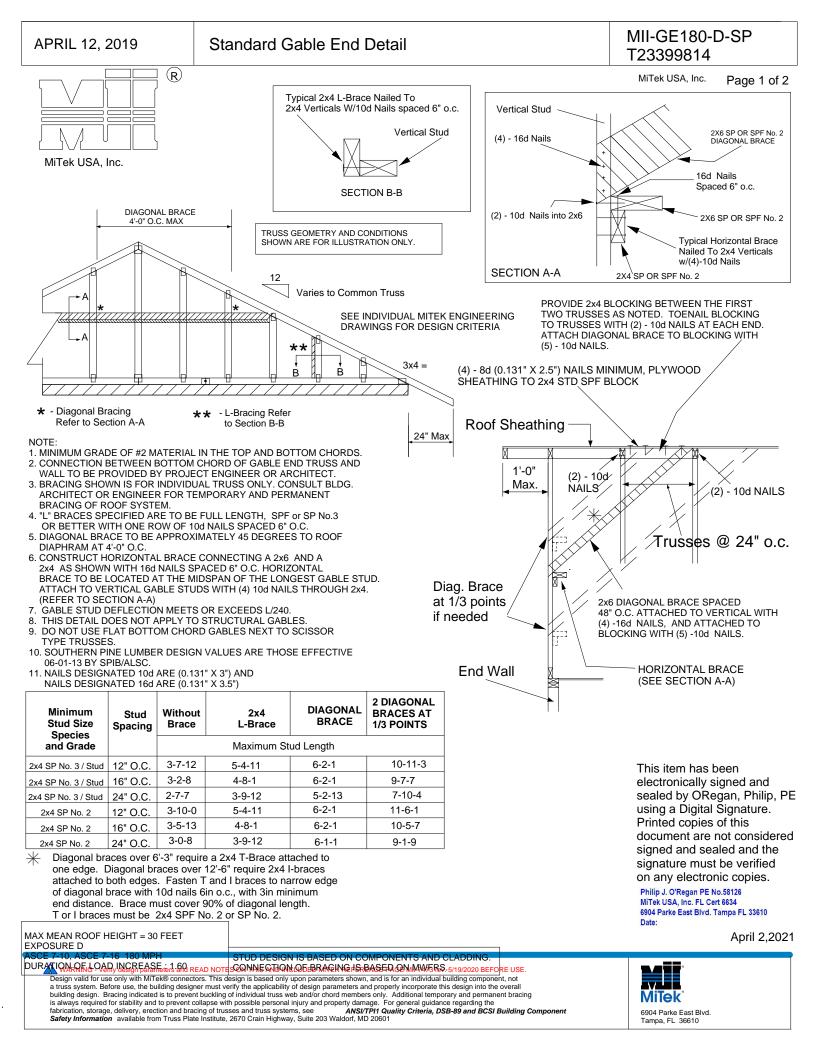


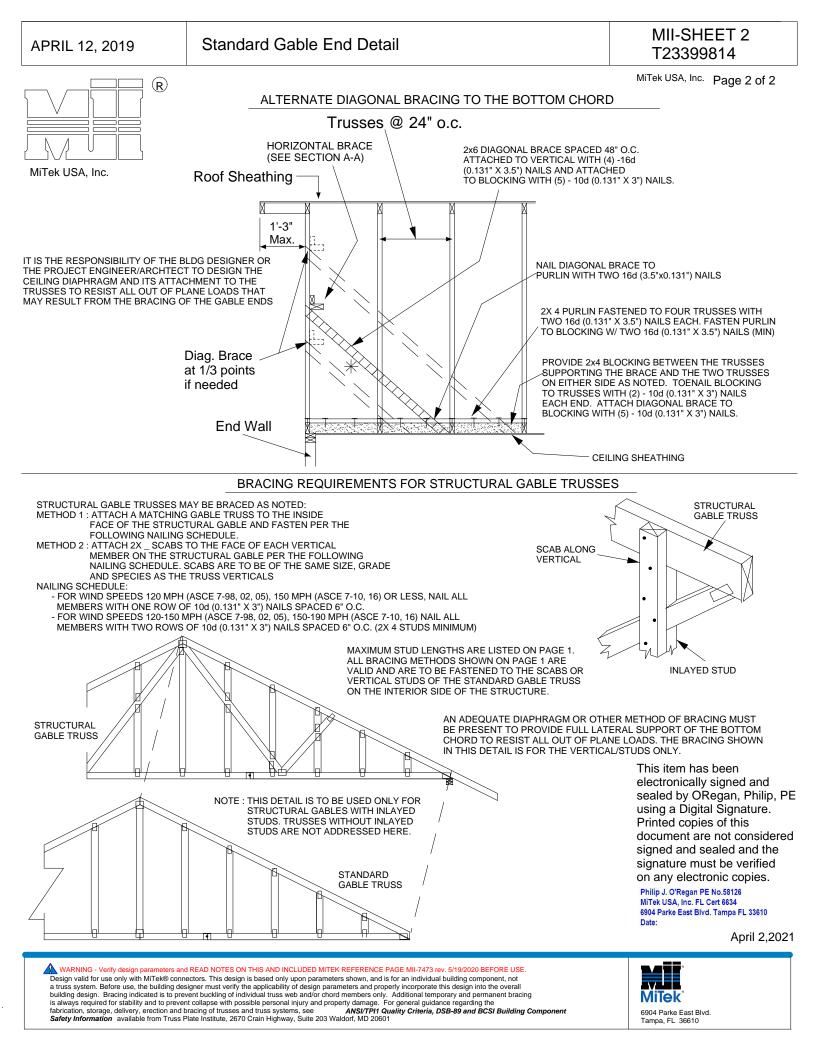


6904 Parke East Blvd Tampa, FL 36610









January 8, 2019

STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

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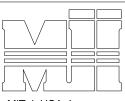
MII-PIGGY-7-16 T23399815

Page 1 of 1

MiTek USA, Inc.

D

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E





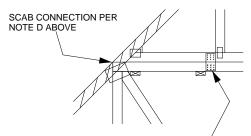
A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.

 (\mathbf{R})

- A PIGGBACK TRUSS, REFER TO WITEK TRUSS DESIGN DRAWING.
 SHALL BE CONNECTED TO EACH PURLIN WITH (2) (0.131" X 3.5") TOE-NAILED.
 B BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
 C PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.
 CONNECT TO PAGE TRUGGE TRUGGINITH (0.4 1041 VG EWAND E GADILICATION)
- 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 DIPECTIONS AND: D-2X 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

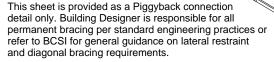
FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

- VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS 1) MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL
- 2) ATTACH 2 x _ x 4'-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH
- VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4) THIS CONNECTION IS ONLY VALID FOR A MAXIMUM 3) CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.
- FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
 CONCENTRATED LOAD MUST BE APPLIED TO BOTH

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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. Е

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



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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



JANUARY 8, 2019

STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-ALT-7-16 T23399816 Page 1 of 1 MiTek USA, Inc.

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E

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

LOADING = 5 PSF TCDL MINIMUM ASCE 7-10, ASCE 7-16

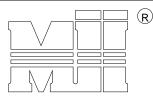
DURATION OF LOAD INCREASE : 1.60 DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

EXPOSURE B or C ENCLOSED BUILDING

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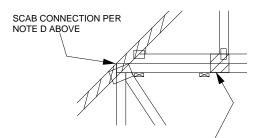




- A PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
- BIGBACK TRUSS, REFER TO WITEK TRUSS DESIGN DRAWING.
 SHALL BE CONNECTED TO EACH PURLIN
 WITH (2) 0(0.131" X 3.5") TOE-NAILED.
 BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
 PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
 UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. C
- ONLESS SPECIFIED CLOSER ON MITTER 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" 0.C. SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING D - 2 X 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:

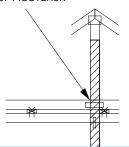
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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)

This sheet is provided as a Piggyback connection detail only. Building Designer is responsible for all permanent bracing per standard engineering practices or refer to BCSI for general guidance on lateral restraint and diagonal bracing requirements.

VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



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

- 1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL
- 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 2) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)
- THIS CONNECTION IS ONLY VALID FOR A MAXIMUM 3) 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 E PIGGYBACK AND THE BASE TRUSS DESIGN

🗼 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-7473 rev. 5/19/2/02/ BEFORE USE. Design valid for use only with MITER® 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 **ANS/TPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 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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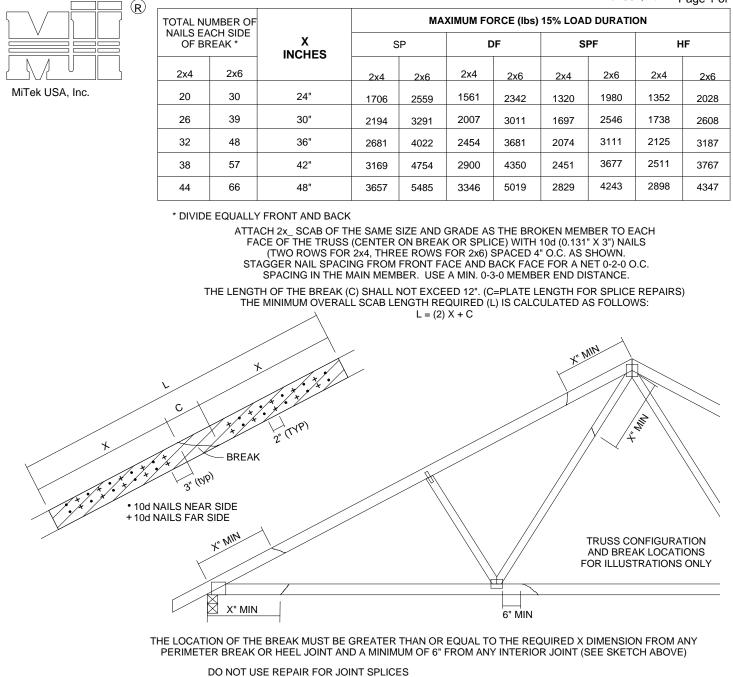


AUGUST 1, 2016

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

MII-REP01A1 T23399817

MiTek USA, Inc. Page 1 of 1



NOTES 1.

- THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
- 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. 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. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2X_ ORIENTATION ONLY.
- 5
- 6. THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.

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.

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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MAY 7, 2019

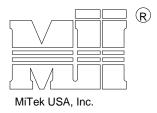
LATERAL TOE-NAIL DETAIL

MII-TOENAIL SP T23399818

Tampa, FL 36610

Page 1 of 1

MiTek USA. Inc.



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

	TOE-NAIL SINGLE SHEAR VALUES PER NDS 2018 (lb/nail)										
	DIAM.	SP	DF	HF	SPF	SPF-S					
G	.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					
ы.											
ġ	.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	74.5	64.6	63.2	52.5					
ŝ											

VALUES SHOWN ARE CAPACITY PER TOE-NAIL

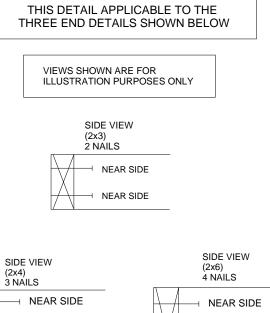
APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

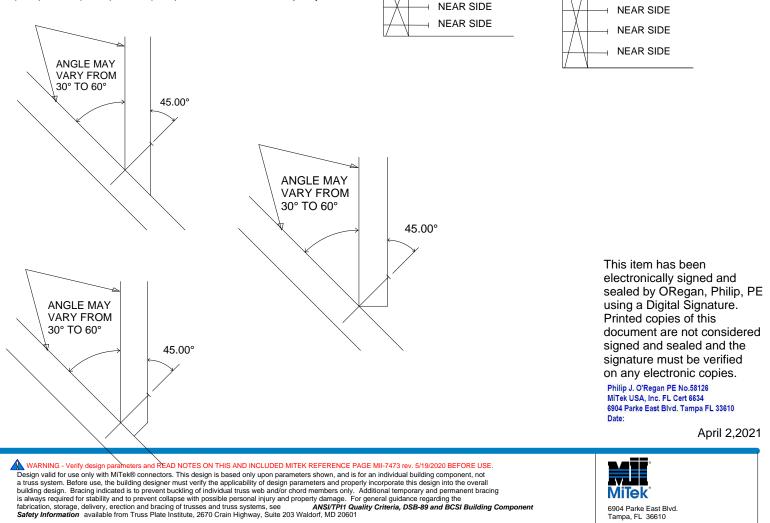
EXAMPLE:

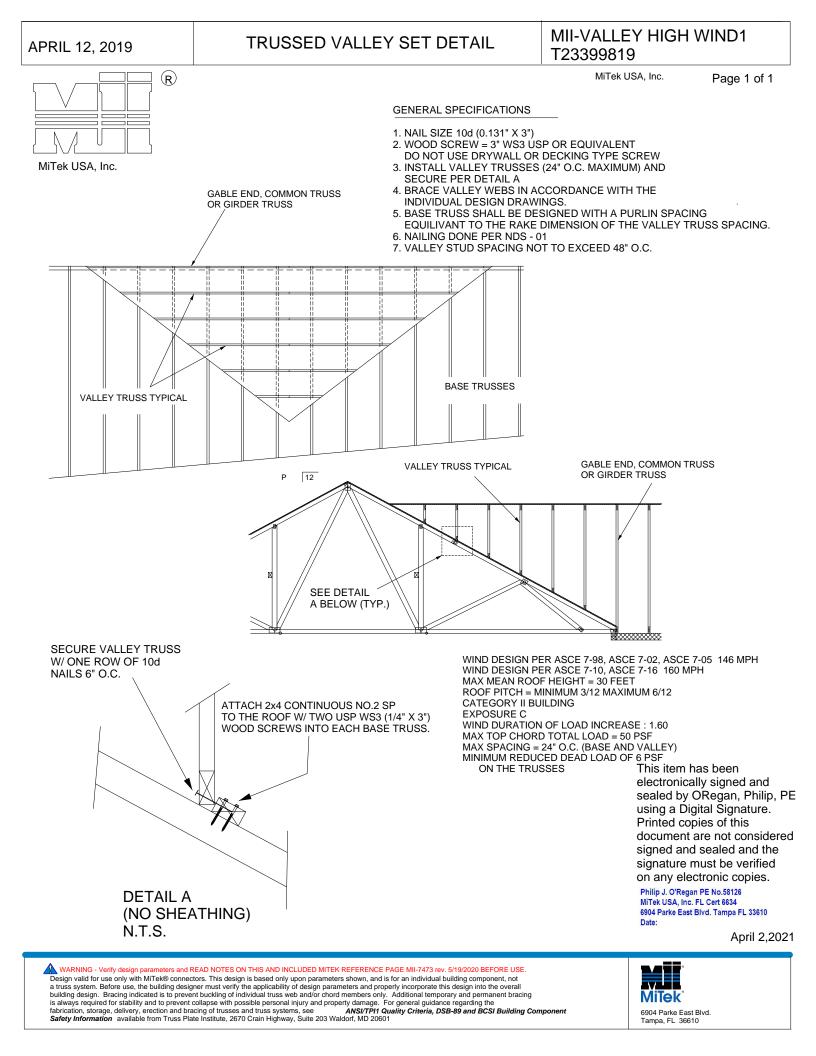
(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD

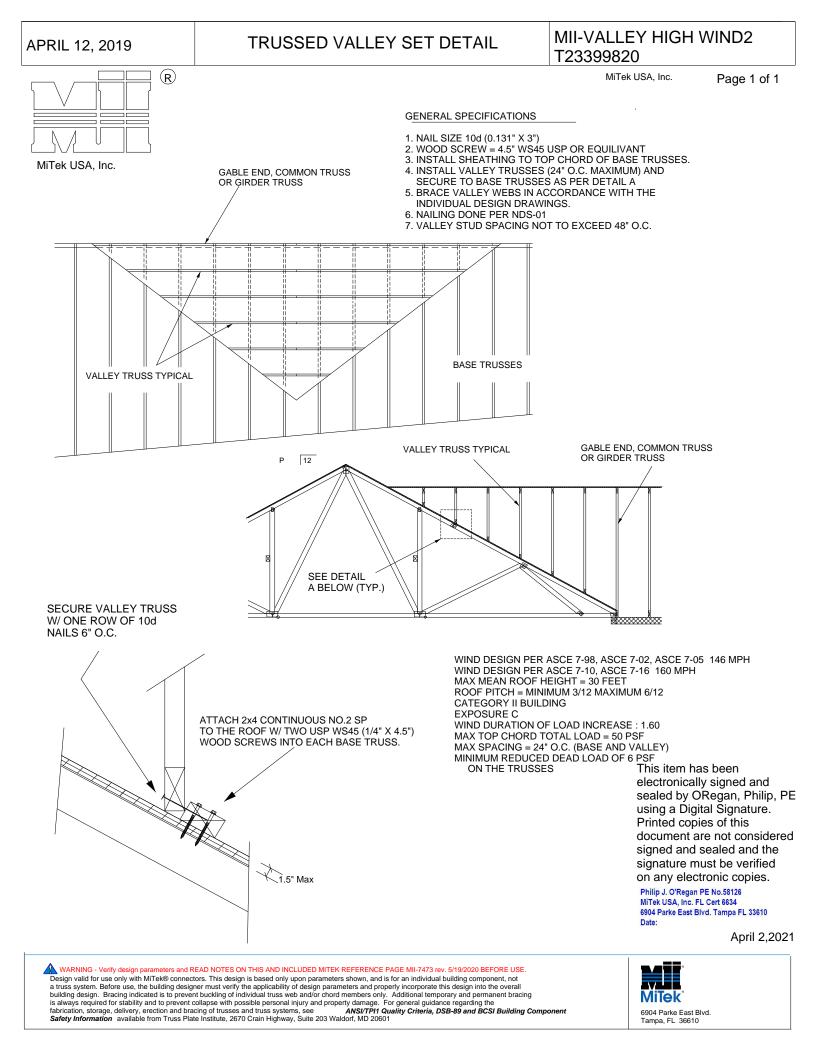
For load duration increase of 1.15:

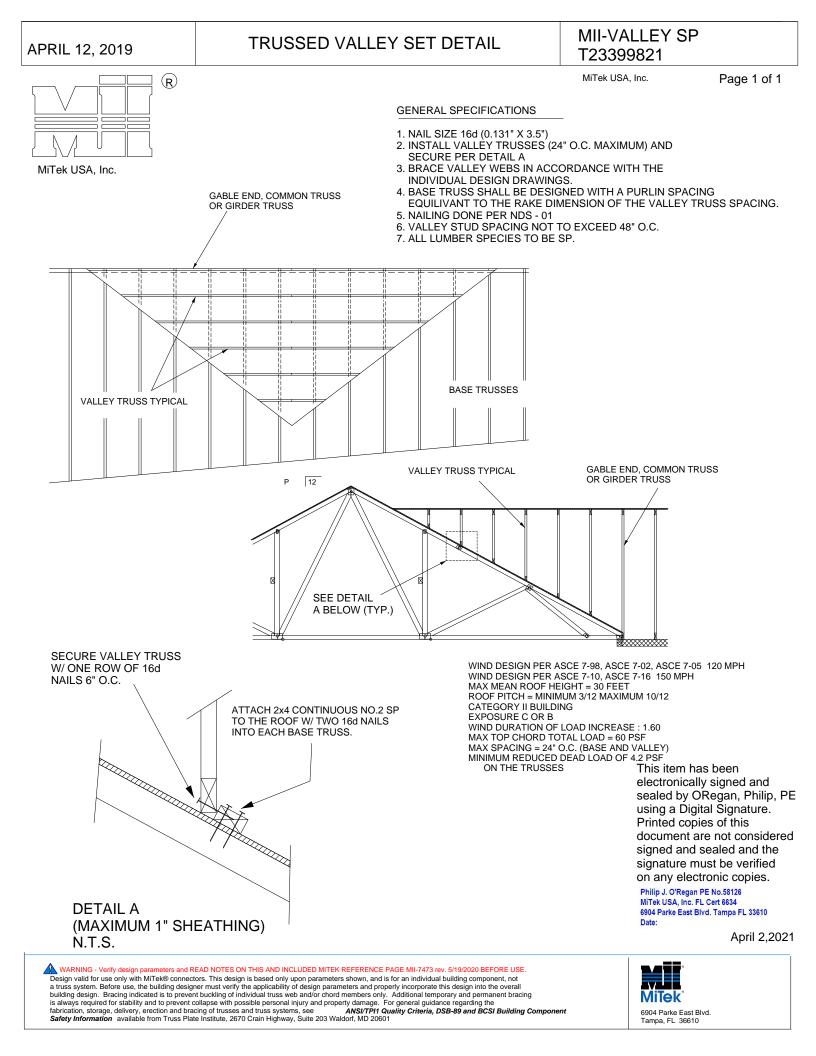
3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

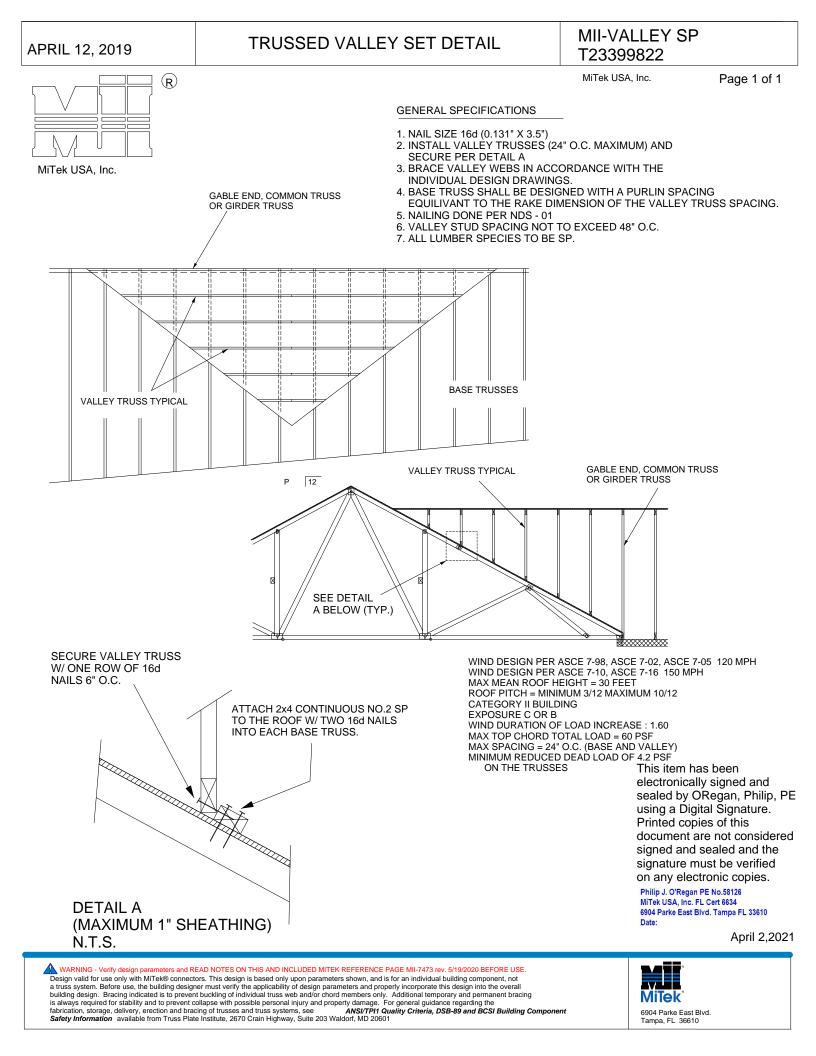


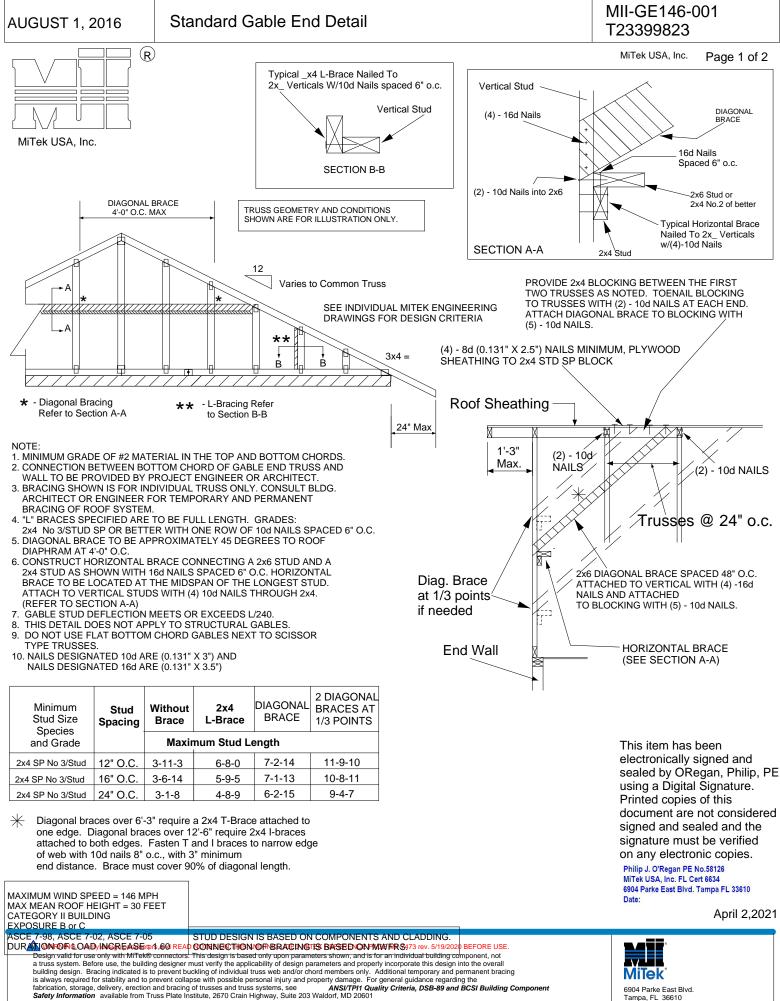




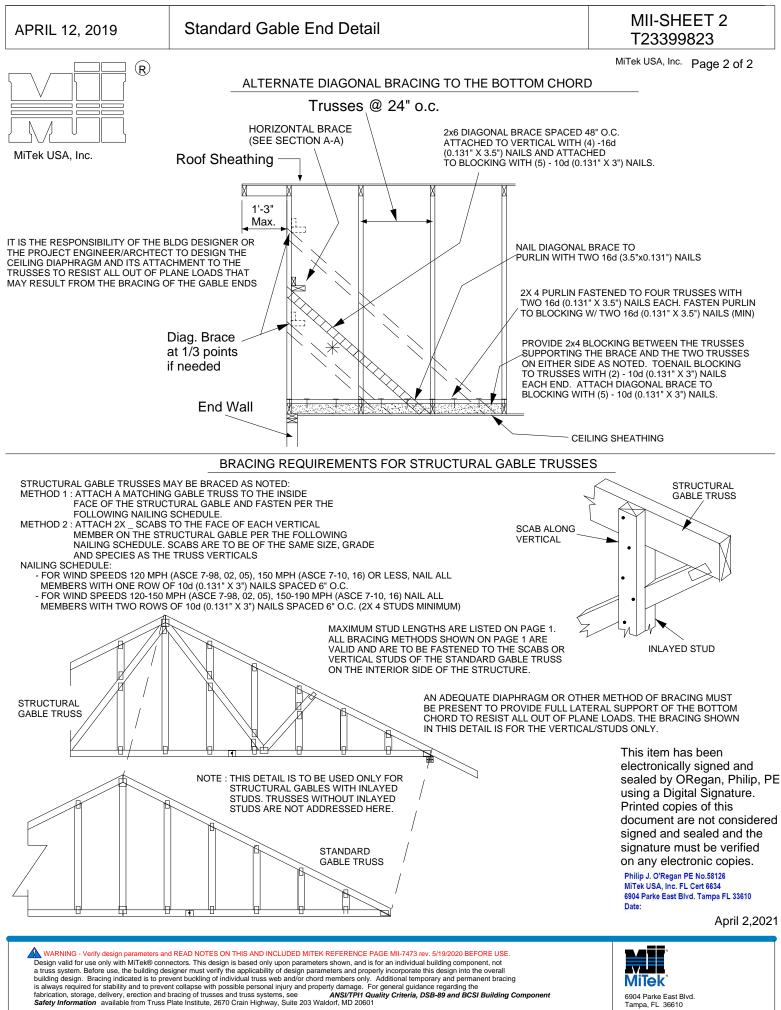




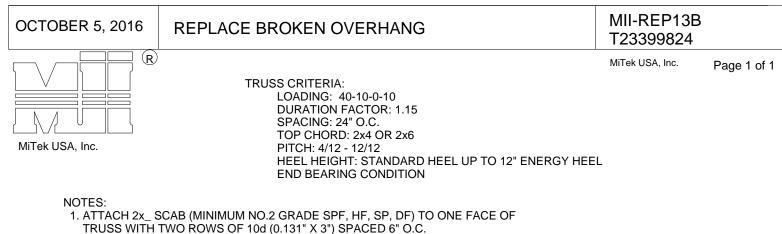




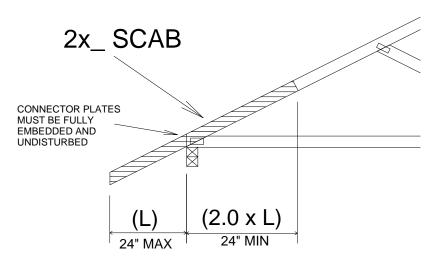
6904 Parke East Blvd Tampa, FL 36610



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- 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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April 2,2021



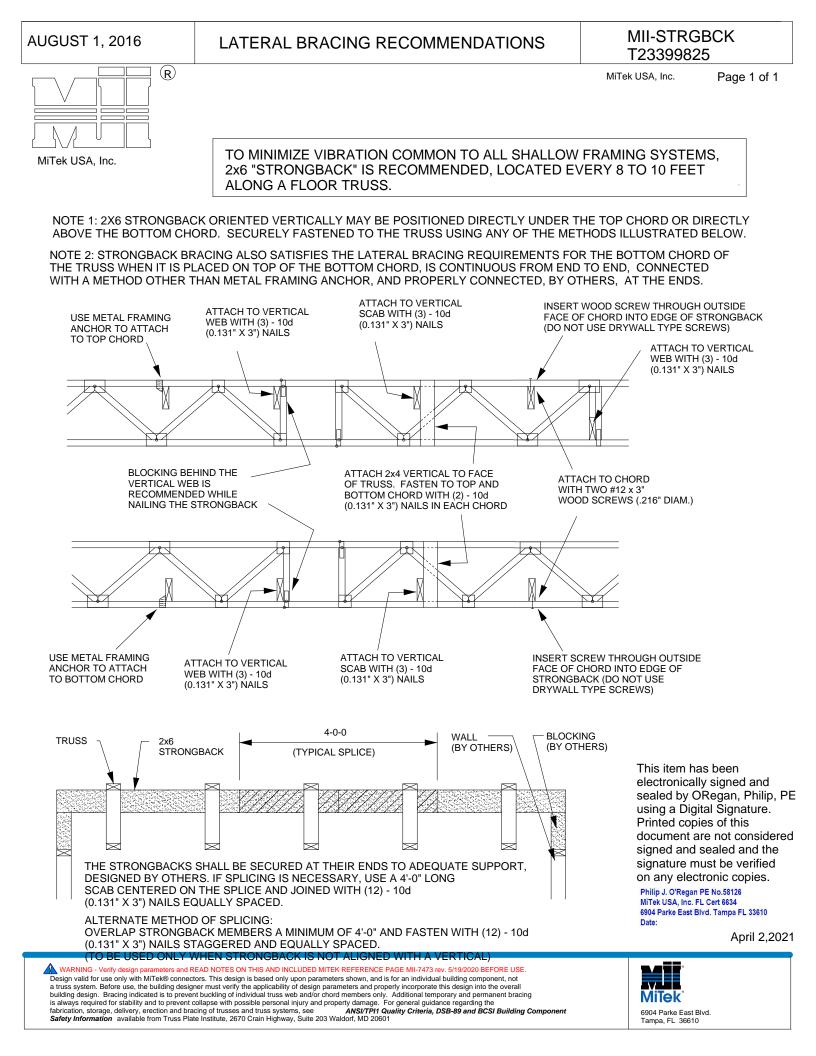
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Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

April 2,2021











RE: 3323964 - AMIRA BLDRS - VARNER RES. MiTek USA, Inc. 16023 Swinglev Ridge Rd Site Information: Chesterfield, MO 63017 Customer Info: AMIRA BLDRS. Project Name: Varner Res.. Model: Custom Lot/Block: N/A Subdivision: N/A Address: 114 SW Heron Drive, N/A City: Columbia Cty State: FL Name Address and License # of Structural Engineer of Record, If there is one, for the building. Name: License #: Address: City: State: General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions): Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5 Wind Code: ASCE 7-16 Wind Speed: 130 mph Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 49 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	T29755909	CJ01	2/7/23	15	T29755923	EJ01	2/7/23
2	T29755910	CJ02	2/7/23	16	T29755924	EJ01G	2/7/23
3	T29755911	CJ02A	2/7/23	17	T29755925	EJ02	2/7/23
4	T29755912	CJ03	2/7/23	18	T29755926	EJ03	2/7/23
5	T29755913	CJ03A	2/7/23	19	T29755927	EJ04	2/7/23
6	T29755914	CJ04	2/7/23	20	T29755928	EJ05	2/7/23
7	T29755915	CJ04A	2/7/23	21	T29755929	EJ06	2/7/23
8	T29755916	CJ05	2/7/23	22	T29755930	HJ08	2/7/23
9	T29755917	CJ05A	2/7/23	23	T29755931	HJ10	2/7/23
10	T29755918	CJ06A	2/7/23	24	T29755932	HJ10A	2/7/23
11	T29755919	CJ07	2/7/23	25	T29755933	HJ10B	2/7/23
12	T29755920	C109	2/7/23	26	T29755934	HJ11	2/7/23
13	T29755921	CJ11	2/7/23	27	T29755935	PB01	2/7/23
14	T29755922	CJ13	2/7/23	28	T29755936	PB02	2/7/23

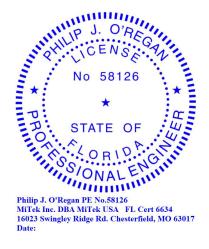
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The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip

My license renewal date for the state of Florida is February 28, 2025.

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 parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



February 7,2023

ORegan, Philip



RE: 3323964 - AMIRA BLDRS - VARNER RES.

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

Site Information:

Customer Info: AMIRA BLDRS. Project Name: Varner Res.. Model: Custom Lot/Block: N/A Subdivision: N/A Address: 114 SW Heron Drive, N/A City: Columbia Cty State: FL

No. 29 301 322 334 356 37 38 39 401 42 43 44 44	Seal# T29755937 T29755938 T29755939 T29755940 T29755941 T29755942 T29755943 T29755944 T29755945 T29755945 T29755946 T29755947 T29755948 T29755948 T29755950 T29755950 T29755950 T29755951 T29755952	Truss Name PB03 PB04 T01 T02 T03 T04 T05 T06 T07 T08 T09 T10 T11 T12 T13 T13G	Date 2/7/23 2/7/23 2/7/23 2/7/23 2/7/23 2/7/23 2/7/23 2/7/23 2/7/23 2/7/23 2/7/23 2/7/23 2/7/23 2/7/23 2/7/23 2/7/23 2/7/23
43	T29755951	Ť13	2/7/23

Job	Truss	Truss Typ		Qty	Ply	AMIRA BLDRS - VAR	NEN NEO.	T29755909
3323964	CJ01	Jack-Ope	'n	6	1	Job Reference (option	al)	
Builders FirstSource (L	ake City,FL), Lake	City, FL - 32055,	⊢ <u>-1</u>	ID:QT9?RVjmS3 I-0-8 0-11-8 -0-8 0-11-8		g 11 2022 MiTek Industr TjqyMd2g-bEjuJOBx2A2	ies, Inc. Mon Feb 6	
			6.00					Scale = 1:28.
				4x4 $323x6 = 0.11-8$				
				0-11-8 0-11-8			1	
LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl l/d	PLATES	GRIP

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)	-0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.08	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matri	ix-MR						Weight: 15 lb	FT = 20%

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x6 SP No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 0-11-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-5-0, 3=Mechanical, 4=Mechanical Max Horz 5=-100(LC 10) Max Uplift 5=-260(LC 10), 3=-134(LC 9), 4=-201(LC 9)

Max Grav 5=321(LC 9), 3=103(LC 10), 4=192(LC 10)

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

NOTES-

 Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; end vertical left exposed; C-C for members and forces &

MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 Building Designer / Project engineer responsible for verifying applied roof live load shown source rais loading requirements appoints

 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) except (jt=lb) 5=260, 3=134, 4=201.

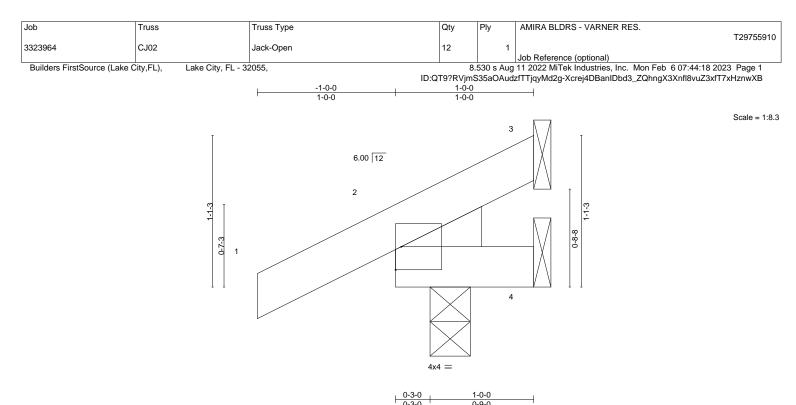
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February 7,2023



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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	0.06	Vert(LL)	-0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.01	Vert(CT)	-0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matri	x-MP						Weight: 6 lb	FT = 20%

```
LUMBER-
```

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEDGE Left: 2x4 SP No.3

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

Max Horz 2=32(LC 12) Max Uplift 3=-8(LC 12), 4=-1(LC 12), 2=-32(LC 12) Max Grav 3=8(LC 1), 4=12(LC 3), 2=118(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 ; porch left and right

exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4, 2.

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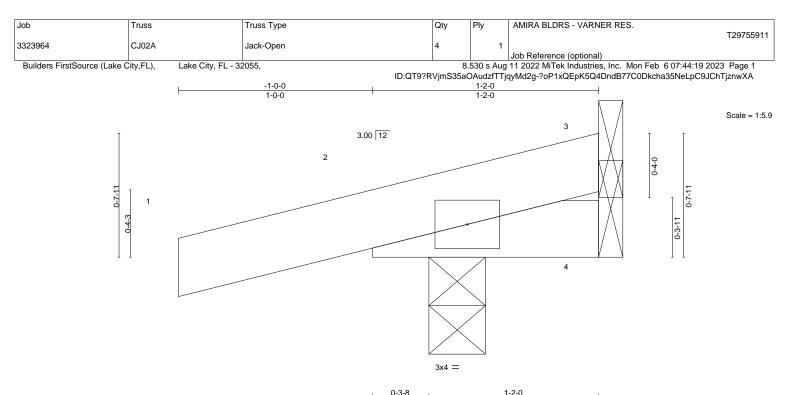
February 7,2023



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BRACING-TOP CHORD BOT CHORD

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



	0-3-8	0-10-					
LOADING (psf) TCLL 20.0 TCDL 7.0 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 0.05 BC 0.01 WB 0.00 Matrix-MP	DEFL. Vert(LL) Vert(CT) Horz(CT)	-0.00 5 >9 -0.00 5 >9	defl L/d 999 240 999 180 n/a n/a	PLATES MT20 Weight: 5 lb	GRIP 244/190 FT = 20%

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LUMBER-
```

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

Structural wood sheathing directly applied or 1-2-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-3-8 Max Horz 2=21(LC 8)

Max Uplift 3=-3(LC 12), 4=-1(LC 12), 2=-64(LC 8) Max Grav 3=14(LC 3), 4=11(LC 3), 2=120(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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 ; porch left and right

exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

 Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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, 2.

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Job	Truss	Truss Type	Qty	Ply	AMIRA BLDRS - VARNER RES.	
						T2975591
3323964	CJ03	Jack-Open	4		1	
					Job Reference (optional)	
Builders FirstSourc	e (Lake City,FL), Lake	City, FL - 32055,		8.530 s Au	ug 11 2022 MiTek Industries, Inc. Mon Feb 6 07	7:44:20 2023 Page 1
			ID:QT9?RVjmS	35aOAudzl	fTTjqyMd2g-T?yP8mFS5OYxqwCNhrkFly8ldSFI	Nn2MOzyE?9znwX9
		<u>−1-0-8</u> <u>−1-0-8</u>	2-11-8			
		' 1-0-8 '	2-11-8			
						Scale = 1:33
		6.0) 12	3		Scale = 1.33
		т		1		
			6	<u>N</u>		
			- / /			
		3x6	///			
		2				
			X			
		q				
		0-0-0				
		4-6-4				
		4				
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			\leq			
			∑ 5 3x6 =	4		
			- axo —	4		
			0 11 0			
		H	<u>2-11-8</u> 2-11-8			
Plate Offsets (X,Y)) [2:0-0-12,0-1-8]		2-11-0			

OADING (psf) CLL 20.0 CDL 7.0 CLL 0.0 CDL 10.0	Plate Grip DOL 1 Lumber DOL 1	2-0-0 CSI. 1.25 TC 1.25 BC YES WB 014 Matrix	0.48 Ve 0.80 Ve	FL. in rt(LL) 0.03 rt(CT) 0.03 rz(CT) -0.33	4-5 4-5	l/defl >962 >983 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 21 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP	No.2			ACING- P CHORD	Structu	al wood	sheathing dir	ectly applied or 2-11-8	3 oc purlins,

BOT CHORD

except end verticals.

Rigid ceiling directly applied or 8-7-2 oc bracing.

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x6 SP No.2

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

Max Horz 5=117(LC 9) Max Uplift 5=-20(LC 10), 3=-76(LC 9), 4=-63(LC 9)

Max Grav 5=184(LC 1), 3=72(LC 9), 4=03(LC 9)Max Grav 5=184(LC 1), 3=72(LC 19), 4=71(LC 10)

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

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl.,

GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-8 to 1-11-8, Interior(1) 1-11-8 to 2-10-12 zone; 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) 5, 3, 4.

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Philip J. O'Regan PE. No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

February 7,2023



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

	Truss	Truss Type	Qty	Ply	AMIRA BLDRS - VARNER RES.	T00766040
323964	CJ03A	Jack-Open	2	1		T29755913
					Job Reference (optional)	
Builders FirstSourc	e (Lake City,FL), Lake Ci	ity, FL - 32055,	ID:QT9?RVjmS35a 2-5-0 2-11-8 2-5-0 0-6-8		11 2022 MiTek Industries, Inc. Mo gyMd2g-PN49ZRGid0pf4EMmoGm	
			<u>2-5-0 3x</u> 2-1 ‡-8 2-5-0 0-6-8			

TOP CHORD

BOT CHORD

LUMBER-

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2 *Except*

 6-8: 2x4 SP No.3
 2x6 SP No.2 *Except*

2-5: 2x4 SP No.3

REACTIONS. (size) 9=0-5-0, 3=Mechanical, 4=Mechanical Max Horz 9=117(LC 9) Max Uplift 9=-20(LC 10), 3=-37(LC 12), 4=-121(LC 9) Max Grav 9=184(LC 1), 3=55(LC 1), 4=108(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-5=-193/333

NOTES-

 Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-8 to 1-11-8, Interior(1) 1-11-8 to 2-10-12 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

 Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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) 9, 3 except (jt=lb) 4=121.

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Structural wood sheathing directly applied or 2-11-8 oc purlins,

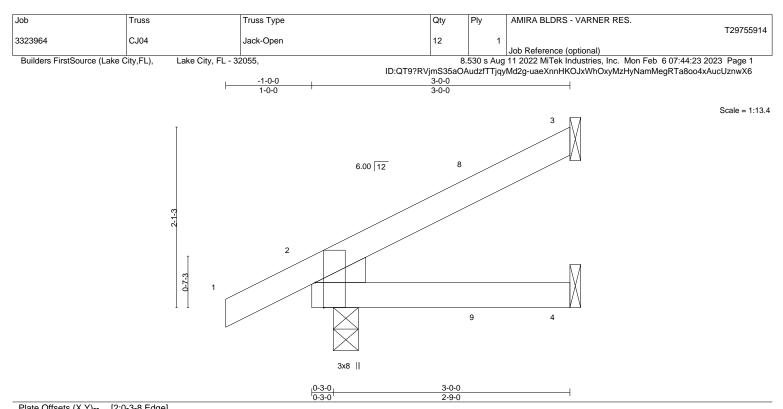
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

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February 7,2023





	· • •			
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 0.11	Vert(LL) 0.01 4-7 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.13	Vert(CT) -0.01 4-7 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP		Weight: 12 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEDGE Left: 2x4 SP No.3

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-3-8 Max Horz 2=65(LC 12) Max Uplift 3=-39(LC 12), 4=-19(LC 9), 2=-36(LC 12)

Max Grav 3=64(LC 1), 4=51(LC 3), 2=172(LC 1)

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

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 2-11-4 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
- 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 airder(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, 2.

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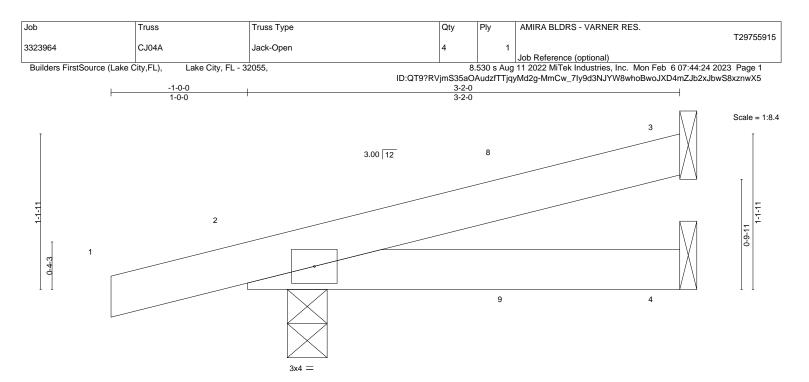
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

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

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

February 7,2023





	0-3-8 0-3-8	-	<u>3-2-0</u> 2-10-8	I
LOADING (psf) TCLL 20.0 TCDL 7.0 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 0.13 BC 0.13 WB 0.00 Matrix-MP	DEFL. in (loc) l/defl L/d Vert(LL) 0.01 4-7 >999 240 Vert(CT) -0.01 4-7 >999 180 Horz(CT) -0.00 2 n/a n/a	PLATES GRIP MT20 244/190 Weight: 11 lb FT = 20%

```
LUMBER-
```

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

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

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-3-8 Max Horz 2=38(LC 8) Max Uplift 3=-34(LC 8), 4=-20(LC 8), 2=-96(LC 8) Max Grav 3=67(LC 1), 4=52(LC 3), 2=178(LC 1)

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

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl.,

GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-1-4 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

 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.

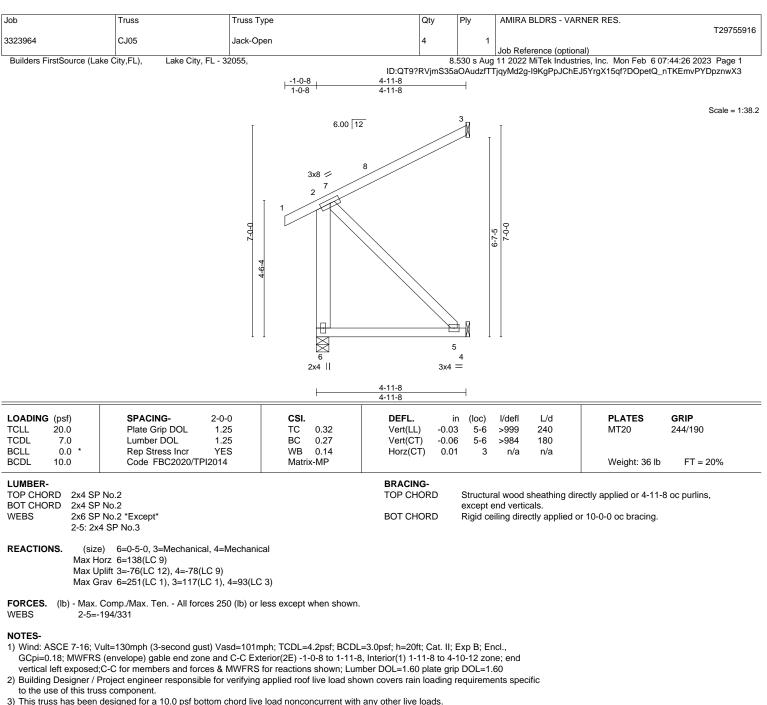
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4, 2.

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February 7,2023





4) * This truss has been designed for a too par bottom chord invertible invertinvertible invertible invertible invertible invertible invertib

5) Refer to girder(s) for truss to truss connections.

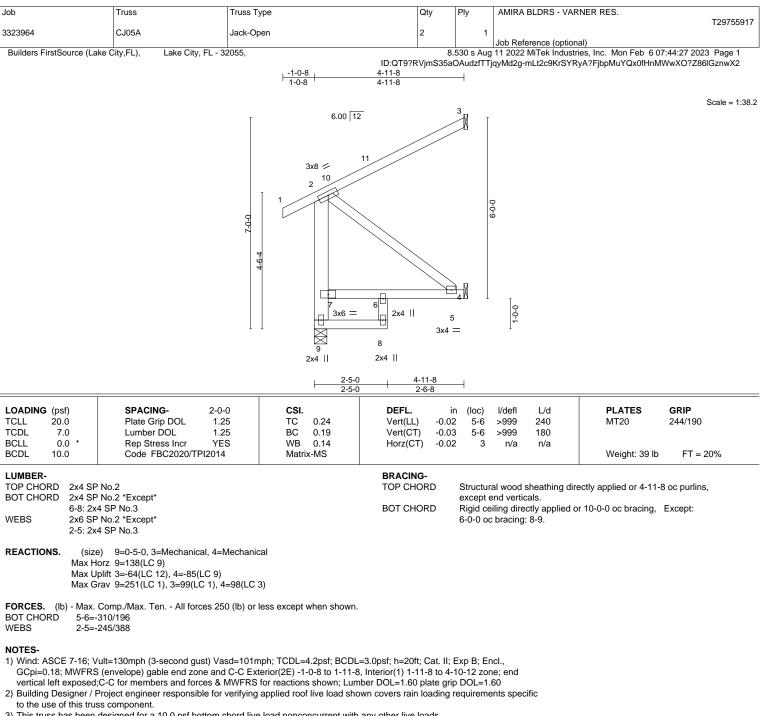
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.

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3) 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 4) will fit between the bottom chord and any other members.

5) Refer to girder(s) for truss to truss connections.

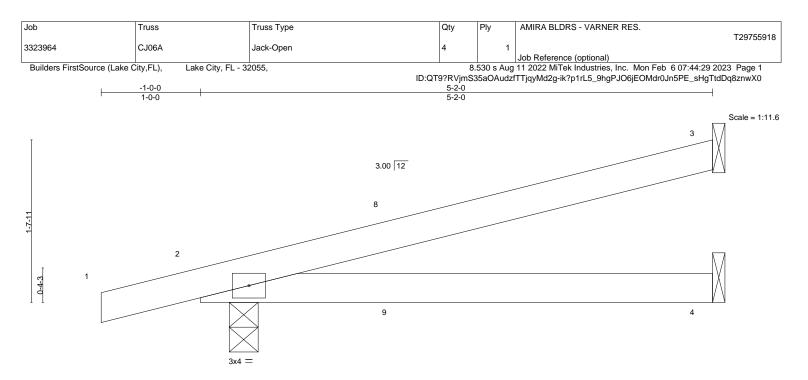
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.

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	0-3-8		<u>5-2</u> 4-10	-				
LOADING (psf) TCLL 20.0 TCDL 7.0 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 0.39 BC 0.42 WB 0.00 Matrix-MP	DEFL. Vert(LL) 0.1 Vert(CT) 0.0 Horz(CT) -0.0	9 4-7	l/defl >590 >677 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 17 lb	GRIP 244/190 FT = 20%

LUMBER-

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

Structural wood sheathing directly applied or 5-2-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-3-8 Max Horz 2=55(LC 8) Max Uplift 3=-61(LC 8), 4=-34(LC 8), 2=-128(LC 8)

Max Grav 3=118(LC 1), 4=89(LC 3), 2=248(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl.,
- GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 5-1-4 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

 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.

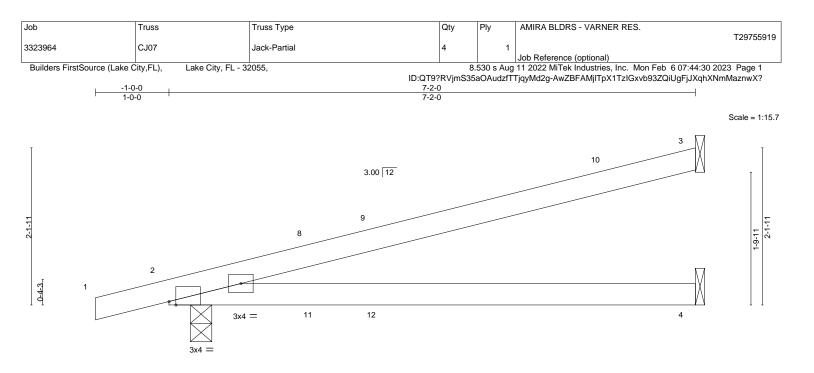
 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=128.

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February 7,2023





	<mark>0-3-8</mark> 0-3-8	<u> </u>		
Plate Offsets (X,Y)	[2:0-1-2,Edge]	0-10-0		
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 *	SPACING-2-0-0Plate Grip DOL1.25Lumber DOL1.25Rep Stress IncrYES	CSI. DEFL. in (loc) TC 0.70 Vert(LL) 0.34 4-7 BC 0.76 Vert(CT) 0.29 4-7 WB 0.00 Horz(CT) -0.01 3		GRIP 244/190
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Weight: 23 lb	FT = 20%

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 9-10-2 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-3-8 Max Horz 2=73(LC 8) Max Uplift 3=-88(LC 8), 4=-47(LC 8), 2=-161(LC 8) Max Grav 3=168(LC 1), 4=126(LC 3), 2=321(LC 1)

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

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 7-1-4 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.

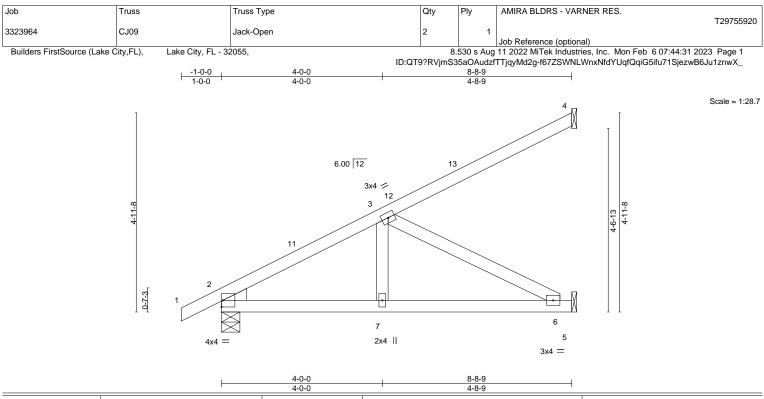
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=161.

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		4-0-0	4-0-9	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.24	Vert(LL) -0.02 6-7 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.27	Vert(CT) -0.05 6-7 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.20	Horz(CT) 0.00 5 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 40 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x4 SP No.3

 WEDGE
 Left: 2x4 SP No.3

REACTIONS. (size) 4=Mechanical, 2=0-5-8, 5=Mechanical Max Horz 2=150(LC 12) Max Uplift 4=-42(LC 12), 2=-69(LC 12), 5=-55(LC 12) Max Grav 4=104(LC 1), 2=377(LC 1), 5=213(LC 1)

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

TOP CHORD 2-3=-429/67

BOT CHORD 2-7=-214/355, 6-7=-214/355

WEBS 3-6=-400/241

NOTES-

 Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 8-7-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

 Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.

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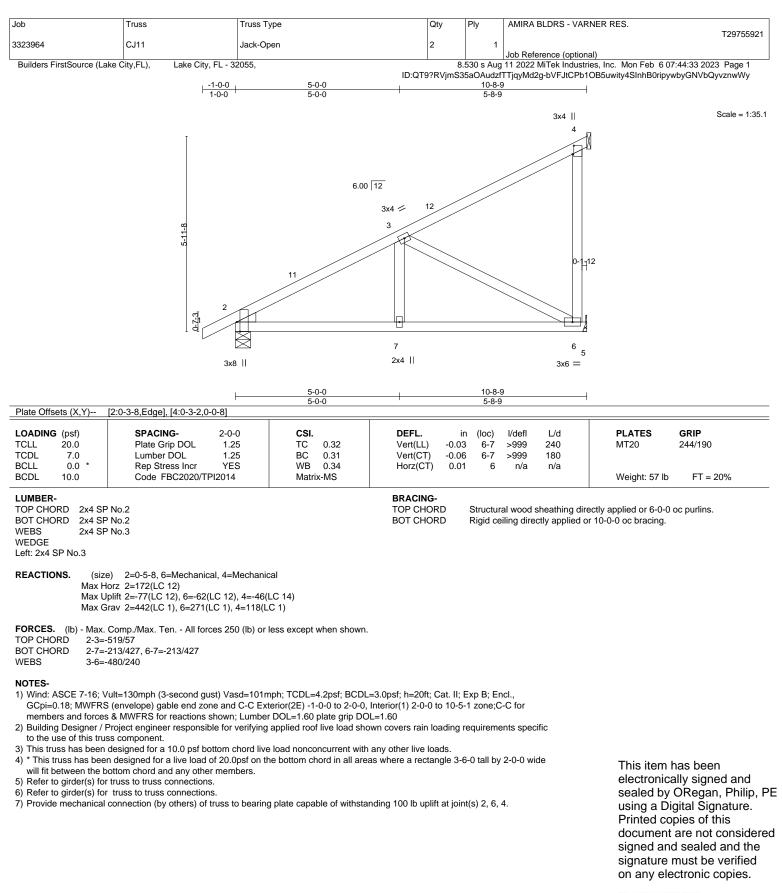
Philip J. O'Regan PE. No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

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

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

February 7,2023

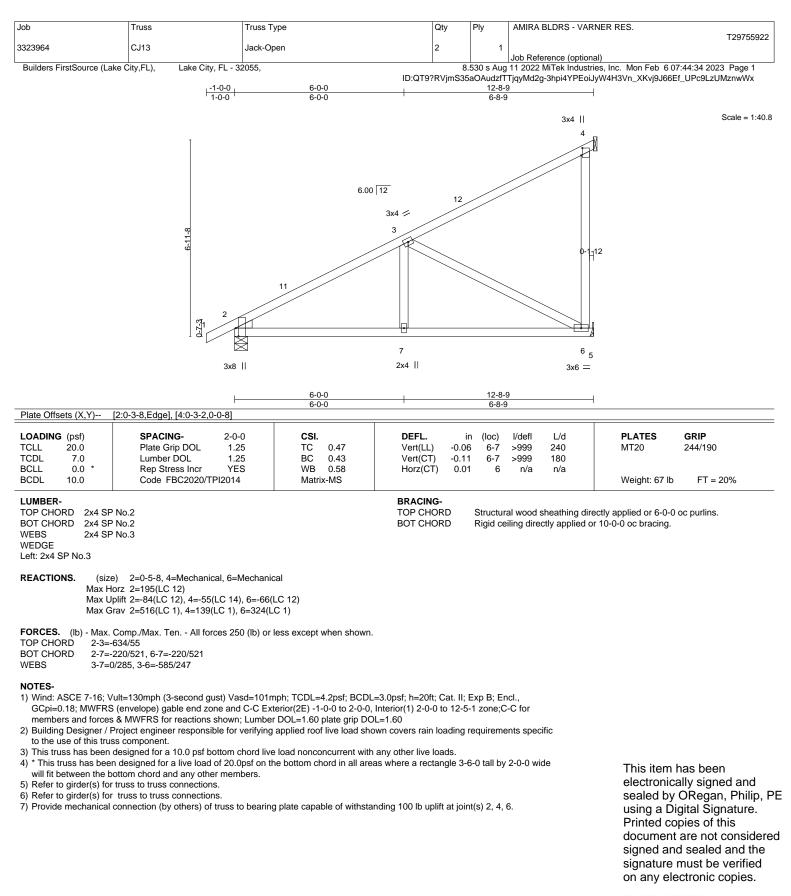




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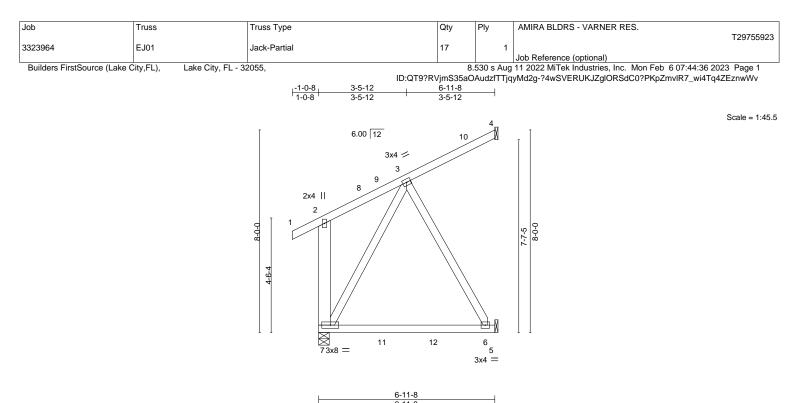




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February 7,2023





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 0.15 Vert(LL) -0.13 6-7 >638 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.58 Vert(CT) -0.21 6-7 >375 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.20 Horz(CT) 0.02 4 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Weight: 53 lb FT = 20%

LUMBER-	
---------	--

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except*
	2-7: 2x6 SP No.2

BRACING-

BOT CHORD

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

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

Max Horz 7=159(LC 9) Max Uplift 4=-37(LC 12), 5=-111(LC 12), 7=-3(LC 12)

Max Grav 4=76(LC 1), 5=231(LC 19), 7=340(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-6=-213/322

NOTES-

 Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-8 to 1-11-8, Interior(1) 1-11-8 to 6-10-12 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

 Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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) Refer to girder(s) for truss to truss connections.

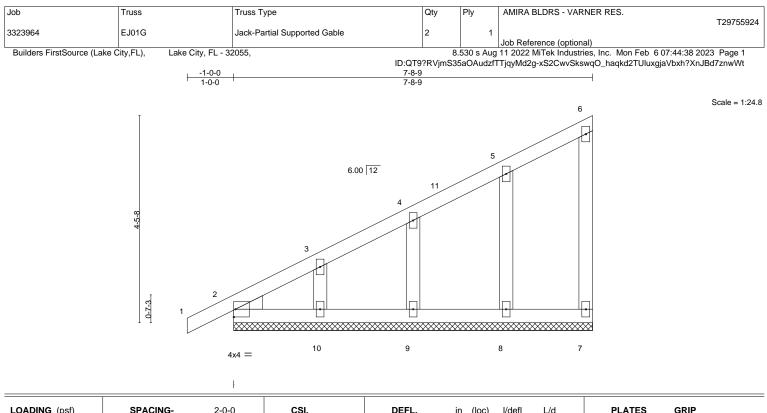
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 7 except (jt=lb) 5=111.

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Philip J. O'Regan PE. No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

February 7,2023





LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.25Lumber DOL1.25Rep Stress IncrYESCodeFBC2020/TPI2014	CSI. TC 0.06 BC 0.03 WB 0.05 Matrix-S		n/r 120 n/r 120	PLATES GRIP MT20 244/190 Weight: 42 lb FT = 20%
LUMBER-			BRACING-		

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3 WEDGE Left: 2x4 SP No.3

TOP CHORD

BOT CHORD

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

REACTIONS. All bearings 7-8-9.

Max Horz 2=146(LC 12) (lb) -Max Uplift All uplift 100 lb or less at joint(s) 7, 9, 10, 8 Max Grav All reactions 250 lb or less at joint(s) 7, 2, 9, 10, 8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-283/97

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(3E) -1-0-0 to 1-10-5, Exterior(2N) 1-10-5 to 7-6-13 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

6) Gable studs spaced at 2-0-0 oc.

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

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 8) will fit between the bottom chord and any other members.

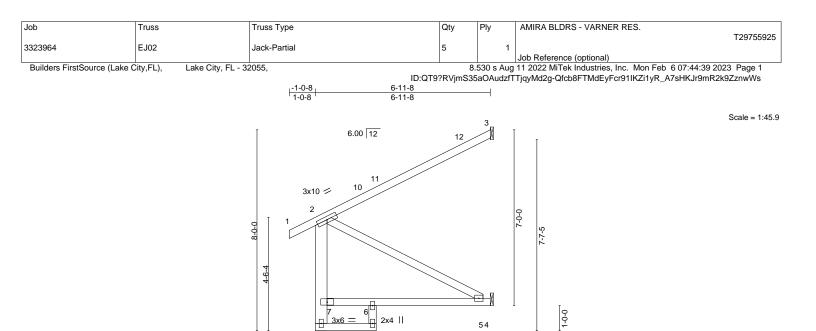
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 9, 10, 8.

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February 7,2023





		<u>2-5-0</u> 2-5-0	<u>6-11-8</u> 4-6-8	—				
LOADING (psf) TCLL 20.0 TCDL 7.0 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 0.53 BC 0.31 WB 0.32 Matrix-MS	DEFL. Vert(LL) -0.0 Vert(CT) -0.1 Horz(CT) 0.0	0 5-6	l/defl >999 >767 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 48 lb	GRIP 244/190 FT = 20%

BRACING-TOP CHORD

BOT CHORD

3x4 =

except end verticals.

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

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

X

ĉ 2x4 || 8

2x4 ||

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except*
	6-8: 2x4 SP No.3
WEBS	2x6 SP No.2 *Except*

2-5: 2x4 SP No.3

REACTIONS. (size) 9=0-5-0, 3=Mechanical, 4=Mechanical Max Horz 9=159(LC 9) Max Uplift 9=-3(LC 12), 3=-80(LC 12), 4=-70(LC 9) Max Grav 9=322(LC 1), 3=141(LC 1), 4=143(LC 3)

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

TOP CHORD 7-9=-273/80

BOT CHORD 6-7=-320/296, 5-6=-385/278

WEBS 2-5=-313/434

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) -1-0-8 to 1-11-8, Interior(1) 1-11-8 to 6-10-12 zone; 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.

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 4) will fit between the bottom chord and any other members.

5) Refer to girder(s) for truss to truss connections.

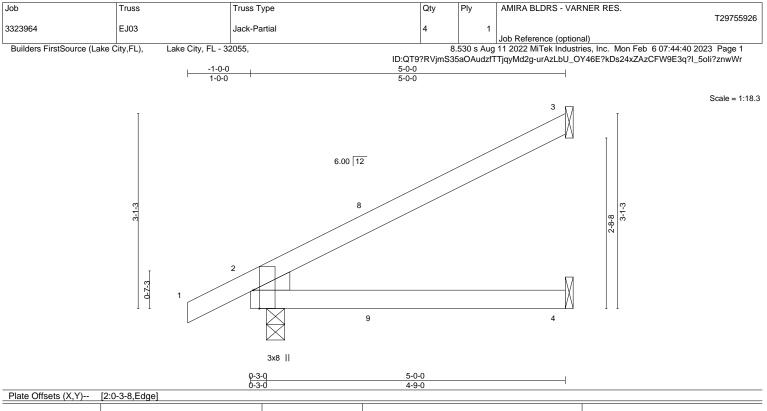
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 3, 4.

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.

Philip J. O'Regan PE. No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

February 7,2023





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	0.38	Vert(LL)	0.09	4-7	>631	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	0.08	4-7	>724	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matri	x-MP						Weight: 18 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEDGE Left: 2x4 SP No.3

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-3-8 Max Horz 2=100(LC 12) Max Uplift 3=-69(LC 12), 4=-31(LC 9), 2=-49(LC 9) Max Grav 3=115(LC 1), 4=89(LC 3), 2=242(LC 1)

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

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 4-11-4 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
- 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 airder(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, 2.

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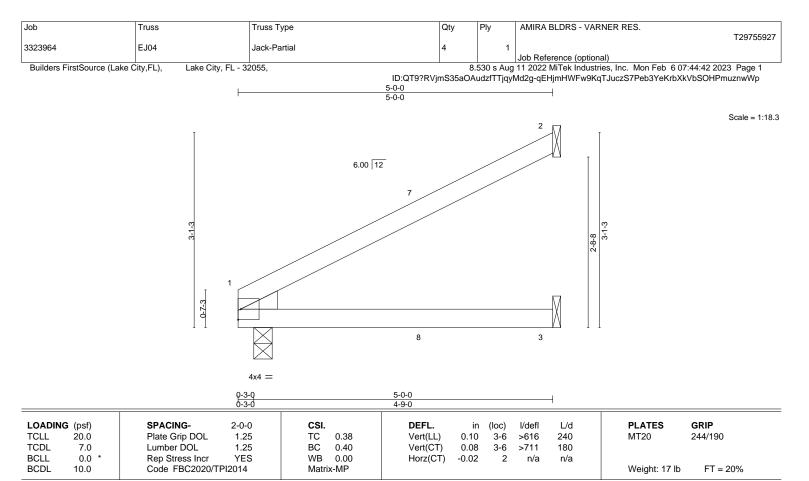
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

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

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

February 7,2023





BRACING-

TOP CHORD

BOT CHORD

11	JMI	RF	P-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEDGE Left: 2x4 SP No.3

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

Max Horz 1=85(LC 12) Max Uplift 2=-70(LC 12), 3=-31(LC 9), 1=-41(LC 9) Max Grav 2=118(LC 1), 3=89(LC 3), 1=183(LC 1)

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

NOTES-

 Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-11-4 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

 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, 1.

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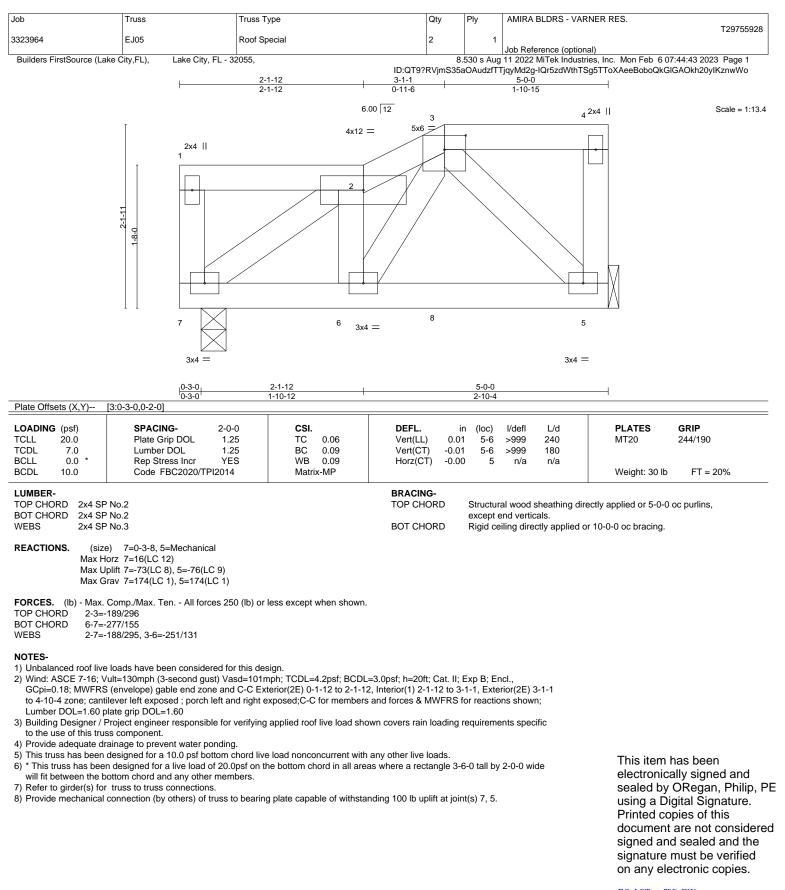
Structural wood sheathing directly applied or 5-0-0 oc purlins.

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

Philip J. O'Regan PE. No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

February 7,2023

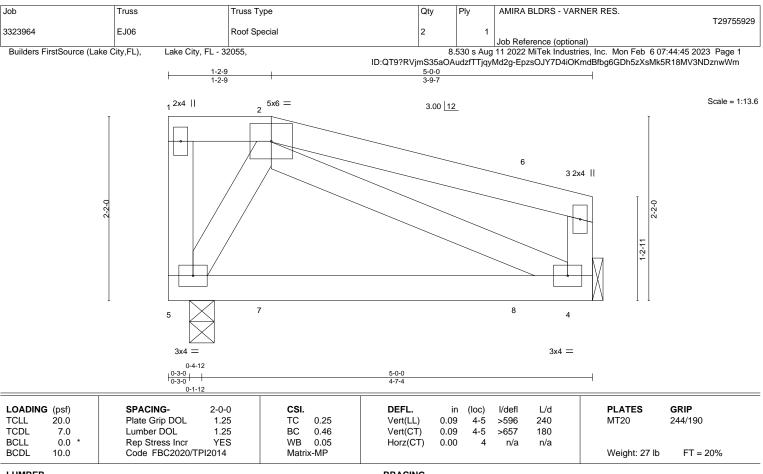




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February 7,2023





LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 4=Mechanical Max Horz 5=-31(LC 9)

Max Uplift 5=-95(LC 9), 4=-76(LC 9)

Max Grav 5=174(LC 1), 4=174(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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) 0-1-12 to 1-2-9, Exterior(2R) 1-2-9 to 4-2-9, Interior(1) 4-2-9 to 4-10-4 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
- 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.

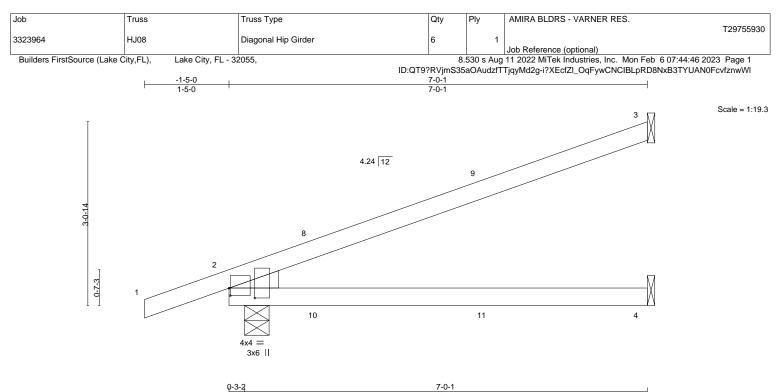
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.

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		0-3-2			6-	8-15					
Plate Offsets (X,Y)	[2:0-0-4,0-1-8], [2:0-2-0,0-3	5-3]	1							1	
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC	0.72	Vert(LL)	0.18	4-7	>457	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.23	4-7	>362	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.03	2	n/a	n/a		
BCDL 10.0	Code FBC2020/TP	12014	Matrix	-MS						Weight: 25 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

Left: 2x4 SP No.3

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-4-15 Max Horz 2=107(LC 4)

Max Uplift 3=-95(LC 4), 4=-52(LC 4), 2=-173(LC 4) Max Grav 3=165(LC 1), 4=126(LC 3), 2=343(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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; 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=173
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 53 lb down and 9 lb up at 1-5-15, 53 lb down and 9 lb up at 1-6-1, and 23 lb down and 43 lb up at 4-3-14, and 23 lb down and 43 lb up at 4-4-0 on top chord, and 29 lb down and 3 lb up at 1-5-15, 29 lb down and 3 lb up at 1-6-1, and 21 lb down and 28 lb up at 4-3-14, and 21 lb down and 28 lb up at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-3=-54, 4-5=-20 Concentrated Loads (lb) Vert: 9=-2(F=-1, B=-1) 10=6(F=3, B=3) 11=-17(F=-8, B=-8) 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.

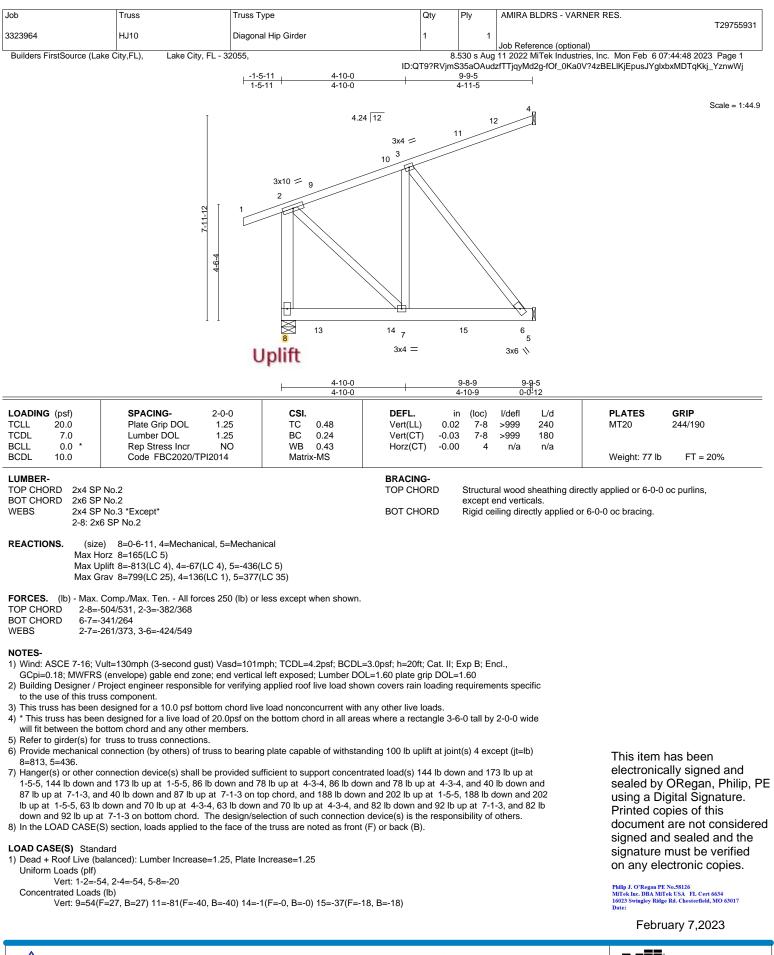
Philip J. O'Regan PE.No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

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

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

February 7,2023

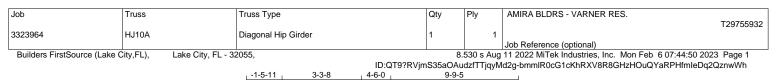


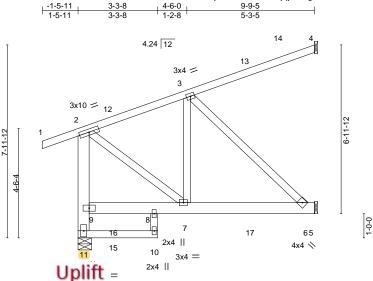


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss system. See **MSIVTPI1 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 Chesterfield, MO 63017

MiTek





	Uplift = ^{2x4}				
		4-6-0 9-8-9 1-2-8 5-2-9	9-9-5 0-0-12		
SPACING-2-0-0Plate Grip DOL1.25Lumber DOL1.25Rep Stress IncrNO	CSI. TC 0.46 BC 0.40 WB 0.37	DEFL. in Vert(LL) 0.04 Vert(CT) -0.03 Horz(CT) -0.01	(loc) l/defl L/d 6-7 >999 240 6-7 >999 180 5 n/a n/a		4/190
Code FBC2020/TPI2014	Matrix-MS			Weight: 79 lb	FT = 20%

LUMBER- TOP CHORD BOT CHORD	2x4 SP No.2 2x6 SP No.2 *Except*	 BRACING- TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
WEBS	10-11: 2x4 SP No.2, 8-10: 2x4 SP No.3 2x4 SP No.3 *Except* 2-11: 2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 7-8.

REACTIONS. (size) 11=0-6-11, 4=Mechanical, 5=Mechanical Max Horz 11=167(LC 5) Max Uplift 11=-830(LC 4), 4=-69(LC 4), 5=-453(LC 5) Max Grav 11=787(LC 31), 4=133(LC 1), 5=377(LC 35)

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

- 9-11=-529/596, 2-9=-515/587, 2-3=-394/463 TOP CHORD
- BOT CHORD 6-7=-443/317

WEBS 2-7=-348/418, 3-7=-336/320, 3-6=-437/610

NOTES

LOADING (psf)

TCLL TCDL

BCLL

BCDL

20.0

7.0

0.0

10.0

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; end vertical 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.

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 4) 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) 11=830, 5=453

7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 144 lb down and 173 lb up at 1-5-5, 144 lb down and 173 lb up at 1-5-5, 16 lb down and 38 lb up at 4-3-4, 16 lb down and 38 lb up at 4-3-4, and 32 lb down and 72 lb up at 7-1-3, and 32 lb down and 72 lb up at 7-1-3 on top chord, and 188 lb down and 202 lb up at 1-5-5, 188 lb down and 202 Ib up at 1-5-5, 100 lb down and 129 lb up at 4-3-4, 100 lb down and 129 lb up at 4-3-4, and 89 lb down and 102 lb up at 7-1-3, and 89 lb down and 102 lb up at 7-1-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others

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

LOAD CASE(S) Standard

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

Vert: 1-2=-54, 2-4=-54, 10-11=-20, 5-8=-20

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to preven tbuckling 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/TP11 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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Scale: 1/4"=1'

Philip J. O'Regan PE.No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

February 7,2023

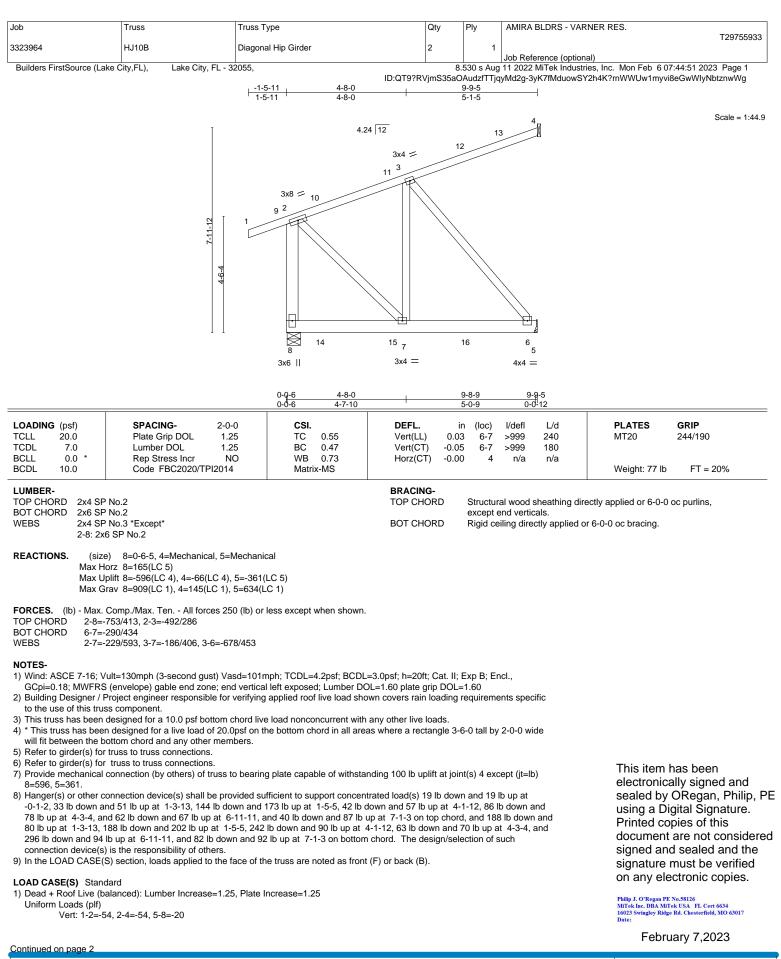


Job	Truss	Truss Type	Qty	Ply	AMIRA BLDRS - VARNER RES.			
					T29755932			
3323964	HJ10A	Diagonal Hip Girder	1	1				
					Job Reference (optional)			
Builders FirstSource (Lake City,FL), Lake City, FL - 3		2055,	8.	8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Feb 6 07:44:50 2023 Page 2				
			ID:QT9?RVjmS35aOAudzfTTjqyMd2g-bmmlR0cG1cKhRXV8R8GHzHOuQYaRPHfmleDq2QznwWh					

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 7=-2(F=-1, B=-1) 12=54(F=27, B=27) 13=-45(F=-23, B=-23) 17=-72(F=-36, B=-36)





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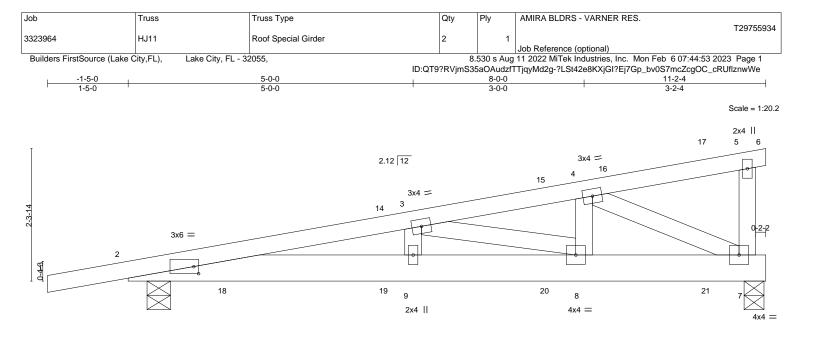
[Job	Truss	Truss Type	Qty	Ply	AMIRA BLDRS - VARNER RES.		
	0000004					T29755933		
	3323964	HJ10B	Diagonal Hip Girder	2	1	Job Reference (optional)		
						Job Reference (optional)		
	Builders FirstSource (Lake City,FL), Lake City, FL - 32055,		2055,	8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Feb 6 07:44:52 2023 Page 2				
	ID:QT9?RVjmS35aOAudzfTTjqyMd2g-X9uVsidWZEbPgrfXZZII2iTCVMFwt5V3Iyiw7Jz					zfTTjqyMd2g-X9uVsidWZEbPgrfXZZII2iTCVMFwt5V3lyiw7JznwWf		

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 9=-4 10=-1(F=27, B=-28) 11=-42(B) 12=-103(F=-40, B=-62) 14=-188(B) 15=-243(F=-0, B=-242) 16=-315(F=-18, B=-296)





		0-0 8-0		8-0-0 3-0-0		<u>11-1-14</u> 3-1-14	<u>11-</u> 2-4 0-0-6
Plate Offsets (X,Y)	[2:0-1-0,0-1-8]						
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.25Lumber DOL1.25Rep Stress IncrNOCodeFBC2020/TPI2014	CSI. TC 0.24 BC 0.38 WB 0.25 Matrix-MS	DEFL. i Vert(LL) 0.00 Vert(CT) -0.0 Horz(CT) 0.0	5 9 >999 2 7 9 >999	240 MT 180 n/a	ATES GRIP '20 244/190 eight: 58 lb FT = 20%	%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x6 SF WEBS 2x4 SF	P No.2		BRACING- TOP CHORD BOT CHORD	except end verticals		ed or 4-9-5 oc purlins, bracing.	
Max H Max U	e) 7=0-4-3, 2=0-4-15 lorz 2=75(LC 4) lplift 7=-436(LC 4), 2=-312(LC 4) grav 7=828(LC 1), 2=610(LC 1)						
TOP CHORD 2-3= BOT CHORD 2-9=	Comp./Max. Ten All forces 250 (lb) or -1466/703, 3-4=-986/485 -723/1434, 8-9=-723/1434, 7-8=-497/96 -492/236, 4-8=-153/341, 4-7=-1012/522	·					
GCpi=0.18; MWFRS DOL=1.60	/ult=130mph (3-second gust) Vasd=101 S (envelope) gable end zone; cantilever Project engineer responsible for verifyin	left exposed ; porch left ar	nd right exposed; Lumbe	er DOL=1.60 plate gri			
to the use of this tru 3) This truss has been 4) * This truss has bee will fit between the b	ss component. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on pottom chord and any other members.	e load nonconcurrent with he bottom chord in all are	any other live loads. as where a rectangle 3-	6-0 tall by 2-0-0 wide			
 7=436, 2=312. 6) Hanger(s) or other of 4-6-13, 24 lb down at and 98 lb up at 10-4 6 lb up at 1-8-14, 2 down and 50 lb up at The design/selection 7) In the LOAD CASE(LOAD CASE(S) Stan 1) Dead + Roof Live (b 	connection (by others) of truss to bearin connection device(s) shall be provided si and 39 lb up at 4-6-13, 44 lb down and 2-11, and 104 lb down and 98 lb up at 1 1 lb down and 29 lb up at 4-6-13, 21 lb at 7-4-12, and 82 lb down and 70 lb up at n of such connection device(s) is the res S) section, loads applied to the face of t dard balanced): Lumber Increase=1.25, Plate	ufficient to support concen 74 lb up at 7-4-12, 44 lb d 0-2-11 on top chord, and l down and 29 lb up at 4-6- at 10-2-11, and 82 lb down ponsibility of others. he truss are noted as front	trated load(s) 24 lb dow own and 74 lb up at 7 5 lb down and 6 lb up at 13, 42 lb down and 50 ll n and 70 lb up at 10-2-1	n and 39 lb up at 4-12, and 104 lb dowr 1-8-14, 5 lb down ar b up at 7-4-12, 42 lb	ek n se nd us Pr dc sig sig	nis item has been ectronically signed ealed by ORegan, sing a Digital Signa rinted copies of this ocument are not co gned and sealed a gnature must be ven any electronic co	Philip, PE ature. s onsidered nd the erified
Uniform Loads (plf) Vert: 1-5=-5	54, 5-6=-54, 2-7=-20				MiT	lip J. O'Regan PE No.58126 Fek Inc. DBA MiTek USA FL Cert 663 23 Swingley Ridge Rd. Chesterfield, MG ie:	44 D 63017

February 7,2023



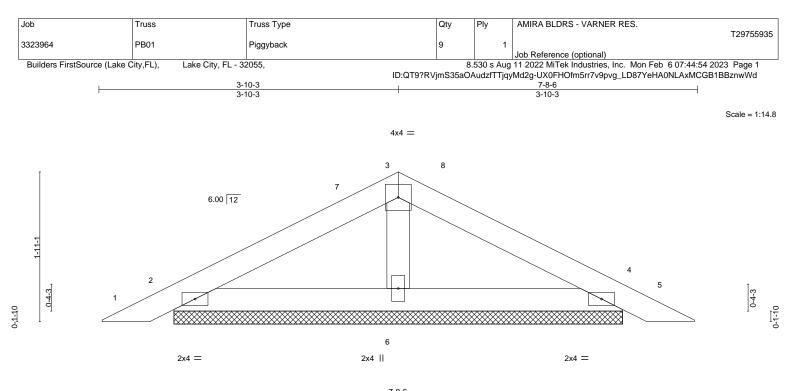
Continued on page 2

Job	Truss	Truss Type	Qty	Ply	AMIRA BLDRS - VARNER RES.		
					T29755934		
3323964	HJ11	Roof Special Girder	2	1			
					Job Reference (optional)		
Builders FirstSource (Lak	Builders FirstSource (Lake City,FL), Lake City, FL - 32055,		8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Feb 6 07:44:53 2023 Page 2				
			ID:QT9?RVjmS35aOAudzfTTjqyMd2g-?LSt42e8KXjGI?Ej7Gp_bv0S7mcZcgOC_cRUflznwWe				

LOAD CASE(S) Standard Concentrated Loads (Ib)

Vert: 14=-6(F=-3, B=-3) 15=-83(F=-42, B=-42) 17=-208(F=-104, B=-104) 18=-11(F=-5, B=-5) 19=-23(F=-12, B=-12) 20=-75(F=-37, B=-37) 21=-134(F=-67, B=-67)





7-8-6										—
LOADING (psf)	SPACING- 2	2-0-0 CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25 TC	0.15	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25 BC	0.08	Vert(CT)	0.01	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
3CDL 10.0	Code FBC2020/TPI20	014 Mati	ix-P	()					Weight: 23 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 2=5-9-4, 4=5-9-4, 6=5-9-4 (size) Max Horz 2=-26(LC 17) Max Uplift 2=-48(LC 12), 4=-53(LC 13), 6=-19(LC 12) Max Grav 2=144(LC 1), 4=144(LC 1), 6=206(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl.,

GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-3 to 3-4-3, Interior(1) 3-4-3 to 3-10-3, Exterior(2R) 3-10-3 to 6-8-13, Interior(1) 6-8-13 to 7-4-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Gable requires continuous bottom chord bearing.

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

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.

8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer

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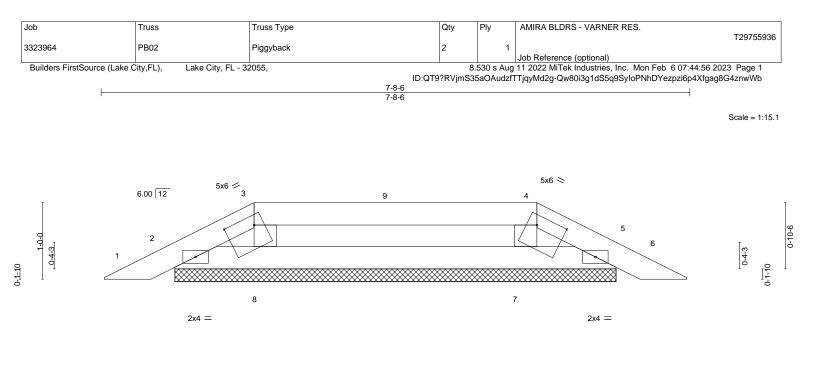
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

February 7,2023





1			7-8-6
			7-8-6
Plate Offsets (X,Y)	[3:0-4-8,0-1-8], [4:0-4-8,0-1-8]		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL 20.0 TCDL 7.0 BCLL 0.0 *	Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES	TC 0.21 BC 0.07 WB 0.03	Vert(LL) -0.00 5 n/r 120 MT20 244/190 Vert(CT) -0.00 5 n/r 120 Horz(CT) 0.00 5 n/a n/a
BCDL 10.0	Code FBC2020/TPI2014	Matrix-P	Weight: 21 lb FT = 20%
LUMBER- TOP CHORD 2x4 SF	P No.2		BRACING- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD

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

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

REACTIONS. All bearings 5-9-4.

(lb) - Max Horz 2=-12(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 8, 7

Max Grav All reactions 250 lb or less at joint(s) 2, 5, 8, 7

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

NOTES-

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl.,
- GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Gable requires continuous bottom chord bearing.

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

7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 8, 7.

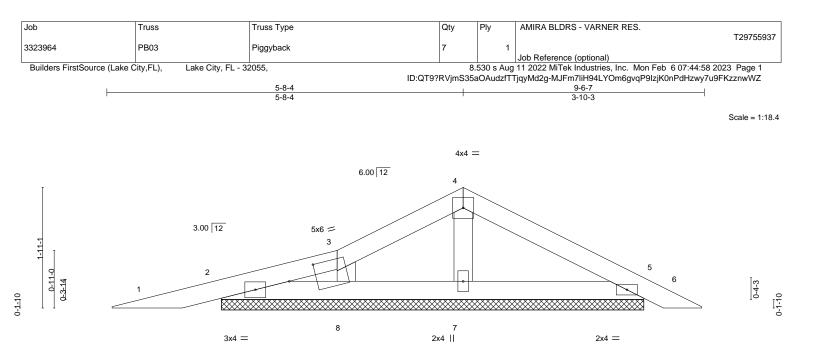
 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer. This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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February 7,2023



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



			9-6-7	
			9-6-7	
Plate Offsets (X,Y)	[3:0-5-3,0-2-0]			
LOADING (psf) TCLL 20.0 TCDL 7.0 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 0.16 BC 0.06 WB 0.04 Matrix-P	DEFL. in (loc) l/defl L/d Vert(LL) 0.00 6 n/r 120 Vert(CT) 0.01 6 n/r 120 Horz(CT) 0.00 5 n/a n/a	PLATES GRIP MT20 244/190 Weight: 28 lb FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP	No.2		BRACING- TOP CHORD Structural wood sheathing dire BOT CHORD Rigid ceiling directly applied or	ctly applied or 6-0-0 oc purlins.

REACTIONS. All bearings 6-8-15.

(lb) - Max Horz 2=-26(LC 13)

2x4 SP No.3

Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 7, 8 Max Grav All reactions 250 lb or less at joint(s) 2, 5, 7, 8

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

NOTES-

OTHERS

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

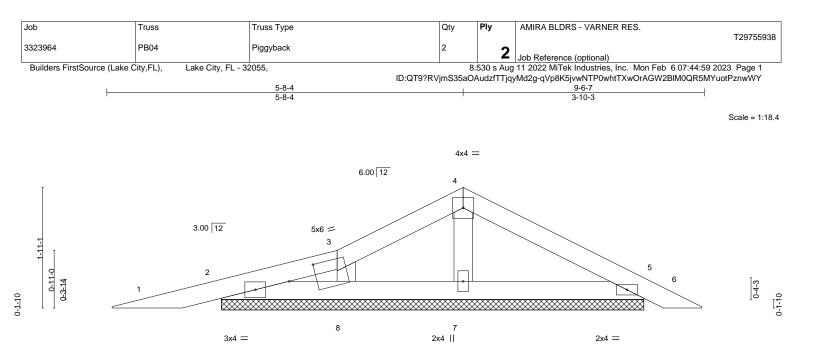
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-11 to 3-8-2, Interior(1) 3-8-2 to 5-8-4, Exterior(2R) 5-8-4 to 8-6-14, Interior(1) 8-6-14 to 9-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 7, 8.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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February 7,2023





⊢––			<u>9-6-7</u> 9-6-7			
Plate Offsets (X,Y) [3:0-5-3,0-2-0]					
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.25Lumber DOL1.25Rep Stress IncrYESCodeFBC2020/TPI2014	CSI. TC 0.08 BC 0.03 WB 0.02 Matrix-P	DEFL. in (loc) l/defl L/d Vert(LL) 0.00 6 n/r 120 Vert(CT) 0.00 6 n/r 120 Horz(CT) 0.00 5 n/a n/a	PLATES GRIP MT20 244/190 Weight: 55 lb FT = 20%		
LUMBER- TOP CHORD BRACING- TOP CHORD BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3						

REACTIONS. All bearings 6-8-15.

(lb) - Max Horz 2=-26(LC 13)

2x4 SP No.3

Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 7, 8 Max Grav All reactions 250 lb or less at joint(s) 2, 5, 7, 8

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

NOTES-

OTHERS

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

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

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

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

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 and C-C Exterior(2E) 0-7-11 to 3-8-2, Interior(1) 3-8-2 to 5-8-4, Exterior(2R) 5-8-4 to 8-6-14, Interior(1) 8-6-14 to 9-2-4 zone; C-C for members and forces & MWFRS for reactions shown; 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) Gable requires continuous bottom chord bearing.

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

8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 7, 8.

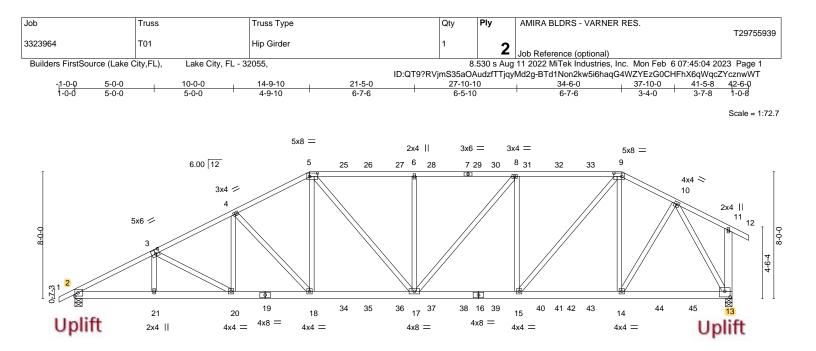
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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February 7,2023





<u> 5-0-</u> 5-0-			27-10-		34-6-0 6-7-6	41-5-8	
Plate Offsets (X,Y)	[3:0-3-0,0-3-0], [5:0-6-0,0-2-8], [9:0-6-0,		1-6-0	J	0-7-0	0-11-0	
LOADING (psf) TCLL 20.0 TCDL 7.0 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 0.52 BC 0.75 WB 0.69 Matrix-MS	Vert(LL) 0.2	in (loc) l/defl 1 17-18 >999 2 17-18 >999 8 13 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 617 lb	GRIP 244/190 FT = 20%
		1	BRACING- TOP CHORD BOT CHORD	except end vertic	als.	ctly applied or 5-1-3 o 10-0-0 oc bracing.	oc purlins,
Max H Max U	e) 2=0-5-8, 13=0-5-0 lorz 2=195(LC 8) lplift 2=-1274(LC 8), 13=-1704(LC 9) irav 2=2946(LC 2), 13=3409(LC 2)						
TOP CHORD 2-3=- 8-9=- BOT CHORD 2-21: 15-1 WEBS 3-20: 6-17:	Comp./Max. Ten All forces 250 (lb) or -5519/2443, 3-4=-5433/2538, 4-5=-5121/ -4415/2243, 9-10=-3136/1702 =-2303/4877, 20-21=-2304/4878, 18-20= 7=-2167/4415, 14-15=-1427/2770, 13-14 =-359/265, 4-20=-108/375, 4-18=-570/26 =-453/218, 8-17=-429/934, 8-15=-1135/4 4=-1033/1939, 10-13=-3586/1857	2529, 5-6=-5008/2520, 6 -2316/4832, 17-18=-2229 =-920/1794 2, 5-18=-725/1486, 5-17=	-8=-5008/2520, //4560, =-462/785,				
 Top chords connect Bottom chords conn Webs connected as 2) All loads are consid ply connections hav 3) Unbalanced roof live 4) Wind: ASCE 7-16; \/ GCpi=0.18; MWFRS 5) Building Designer / to the use of this tru 6) Provide adequate d 7) This truss has been will fit between the b 	Anected together with 10d (0.131"x3") nai ed as follows: 2x4 - 1 row at 0-9-0 oc, 2x lected as follows: 2x6 - 2 rows staggered follows: 2x4 - 1 row at 0-9-0 oc. ered equally applied to all plies, except if e been provided to distribute only loads r e loads have been considered for this de /ult=130mph (3-second gust) Vasd=101r 6 (envelope) gable end zone; Lumber DC Project engineer responsible for verifying ss component. rainage to prevent water ponding. designed for a 10.0 psf bottom chord livu n designed for a live load of 20.0psf on t bottom chord and any other members, wi connection (by others) of truss to bearin	6 - 2 rows staggered at 0 at 0-9-0 oc. noted as front (F) or back noted as (F) or (B), unless sign. nph; TCDL=4.2psf; BCDL DL=1.60 plate grip DOL=1 applied roof live load sho e load nonconcurrent with the bottom chord in all are th BCDL = 10.0psf.	(B) face in the LOAD (o therwise indicated. =3.0psf; h=20ft; Cat. II; .60 own covers rain loading any other live loads. as where a rectangle 3-	Exp B; Encl., requirements spec	ific	sealed by C using a Dig Printed cop document a signed and signature n on any elec	Ily signed and DRegan, Philip, PE jital Signature. bies of this are not considered sealed and the nust be verified ctronic copies.

February 7,2023



Continued on page 2

Job	Truss	Truss Type	Qty	Ply	AMIRA BLDRS - VARNER RES.
					T29755939
3323964	T01	Hip Girder	1	2	
				2	Job Reference (optional)
Builders FirstSource (Lake C	2055,	8.	530 s Aug	11 2022 MiTek Industries, Inc. Mon Feb 6 07:45:04 2023 Page 2	

ID:QT9?RVjmS35aOAudzfTTjqyMd2g-BTd1Non2kw5i6haqG4WZYEzG0CHFhX6qWqcZYcznwWT

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 41 lb down and 39 lb up at 14-9-10, 26 lb down and 39 lb up at 16-10-6, 26 lb down and 39 lb up at 18-4-12, 26 lb down and 39 lb up at 20-4-12, 26 lb down and 39 lb up at 20-4-12, 26 lb down and 39 lb up at 26-5-4, 26 lb down and 39 lb up at 28-5-4, 26 lb down and 39 lb up at 20-4-12, 26 lb down and 39 lb up at 28-5-4, 26 lb down and 39 lb up at 30-5-4, and 26 lb down and 39 lb up at 32-5-4, and 41 lb down and 39 lb up at 34-6-0 on top chord, and 749 lb down and 521 lb up at 14-9-10, 158 lb down and 131 lb up at 16-10-6, 168 lb down and 131 lb up at 18-4-12, 173 lb down and 131 lb up at 20-4-12, 173 lb down and 131 lb up at 22-4-12, 168 lb down and 131 lb up at 28-5-4, 172 lb down and 131 lb up at 30-5-4, and 158 lb down and 131 lb up at 32-5-4, and 493 lb down and 595 lb up at 34-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

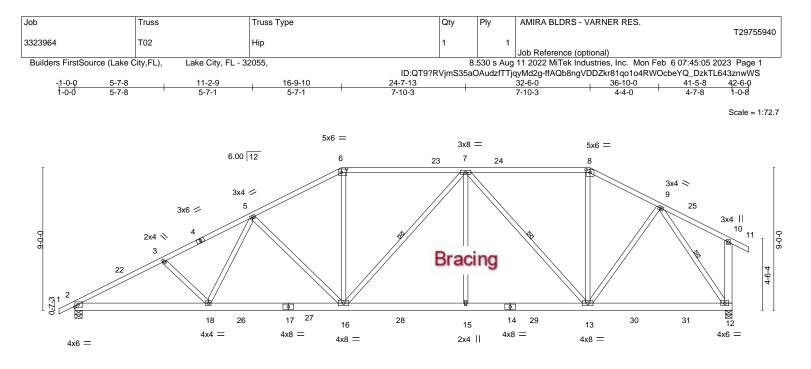
Uniform Loads (plf)

Vert: 1-5=-54, 5-9=-54, 9-11=-54, 11-12=-54, 13-22=-20

Concentrated Loads (lb)

Vert: 5=-22(B) 9=-22(B) 18=-749(B) 14=-401(B) 25=-22(B) 26=-22(B) 27=-22(B) 28=-22(B) 29=-22(B) 30=-22(B) 31=-22(B) 32=-22(B) 33=-22(B) 34=-144(B) 35=-144(B) 36=-144(B) 36=-144





	8-5-1	16-9-			24-7-13			32-6-0		41-5-8	
	8-5-1	8-4-	9		7-10-3	1		7-10-3	1	8-11-8	1
ate Offsets (X,	Y) [6:0-4-0,0-2-8], [8:0-3-0,	0-2-0]									
DADING (psf)	SPACING-	2-0-0	CSI.		DEFL.		n (loc)	l/defl	L/d	PLATES	GRIP
CLL 20.0	Plate Grip DOL	1.25	TC	0.72	Vert(LL)		16-18	>999	240	MT20	244/190
DL 7.0	Lumber DOL	1.25	BC	0.69	Vert(CT)		16-18	>999	180		
CLL 0.0 CDL 10.0	* Rep Stress Incr Code FBC2020/	YES	WB	0.70	Horz(CT)	0.09	12	n/a	n/a	Waisht 204 lb	FT 200/
CDL 10.0	Code FBC2020/	I PI2014	Matrix	(-11/15						Weight: 294 lb	FT = 20%
JMBER-					BRACING-						
	2x4 SP No.2				TOP CHOR	D	Structu	ral wood	sheathing di	rectly applied or 2-2-0 o	c purlins.
DT CHORD 2	2x6 SP No.2							end verti			· · · · /
EBS 2	2x4 SP No.3 *Except*				BOT CHOR	BOT CHORD Rigid ceiling directly applied or 9-1-12 oc bracing.					
1	0-12: 2x6 SP No.2				WEBS		1 Row	at midpt	7	7-16, 7-13, 9-12	
	Max Horz 2=199(LC 11) Max Uplift 2=-371(LC 12), 12= Max Grav 2=1756(LC 2), 12=1										
DRCES. (Ib) - DP CHORD	Max. Comp./Max. Ten All fc 2-3=-3153/658, 3-5=-2992/62	· · /									
OT CHORD	8-9=-1667/385	2424 45 40 20	1/2007 42	15 204/200		4					
EBS	2-18=-652/2767, 16-18=-504/ 5-18=-66/465, 5-16=-560/238	,	,		,	4					
LDO	9-13=-121/751. 9-12=-1771/3	, ,	7-13-0/402,	1-13511/2	240, 0-1304/404,						
DTES-											
	oof live loads have been consid										
	-16; Vult=130mph (3-second g										
	WFRS (envelope) gable end z										
	8-0, Interior(1) 22-8-0 to 32-6-							ical right			

exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific

to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

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

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

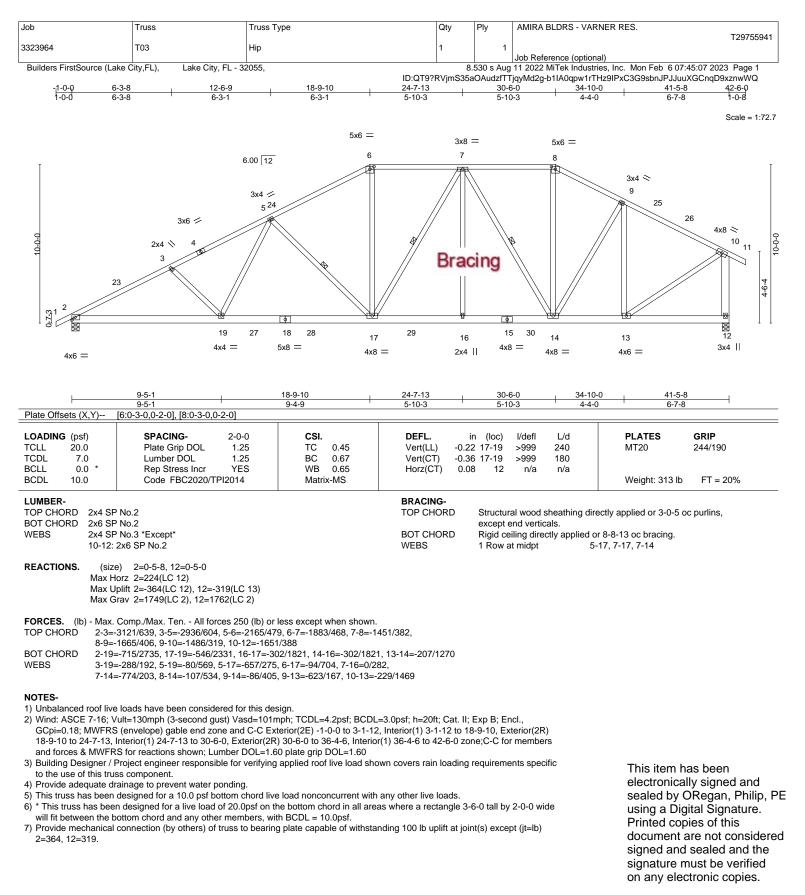
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=371, 12=325.

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Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

February 7,2023

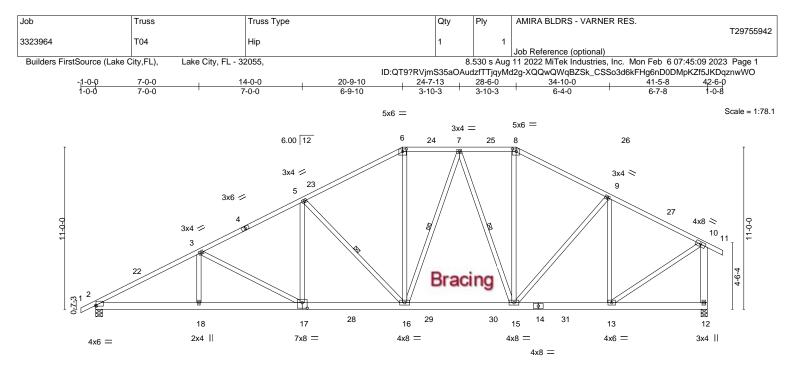




Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

February 7,2023





	7-0-0 14-0-0 7-0-0 7-0-0	<u>20-9-10</u> 6-9-10	28-6-0		34-10-0 6-4-0	41-5-8			
Plate Offsets (X,Y)	[2:0-0-4,0-0-10], [6:0-3-0,0-2-0], [8:0-3		100		0 + 0	010			
LOADING (psf) TCLL 20.0 TCDL 7.0 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 0.51 BC 0.64 WB 0.63 Matrix-MS	Vert(LL) -0.16	(loc) l/defi 17-18 >999 17-18 >999 12 n/a	240 180	PLATES MT20 Weight: 316 lb	GRIP 244/190 FT = 20%		
		Structural wood sheathing directly applied or 2-11-11 oc purlins, except end verticals. Rigid ceiling directly applied or 9-3-9 oc bracing. 1 Row at midpt 5-16, 7-16, 7-15							
REACTIONS. (size) 2=0-5-8, 12=0-5-0 Max Horz 2=221(LC 11) Max Uplift 2=-364(LC 12), 12=-318(LC 13) Max Grav 2=1738(LC 2), 12=1780(LC 2)									
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3097/620, 3-5=-2593/542, 5-6=-1974/465, 6-7=-1705/447, 7-8=-1470/416, 8-9=-1707/424, 9-10=-1512/341, 10-12=-1675/390 BOT CHORD 2-18=-634/2708, 17-18=-634/2708, 16-17=-447/2261, 15-16=-277/1613, 13-15=-238/1298 WEBS 3-17=-513/211, 5-17=-58/535, 5-16=-816/298, 6-16=-96/627, 7-16=-117/335, 7-15=-516/179, 8-15=-107/531, 9-15=-71/326, 9-13=-604/177, 10-13=-237/1510									

NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl.,

GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 3-1-12, Interior(1) 3-1-12 to 20-9-10, Exterior(2R) 20-9-10 to 26-8-0, Interior(1) 26-8-0 to 28-6-0, Exterior(2R) 28-6-0 to 34-4-6, Interior(1) 34-4-6 to 42-6-0 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

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

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

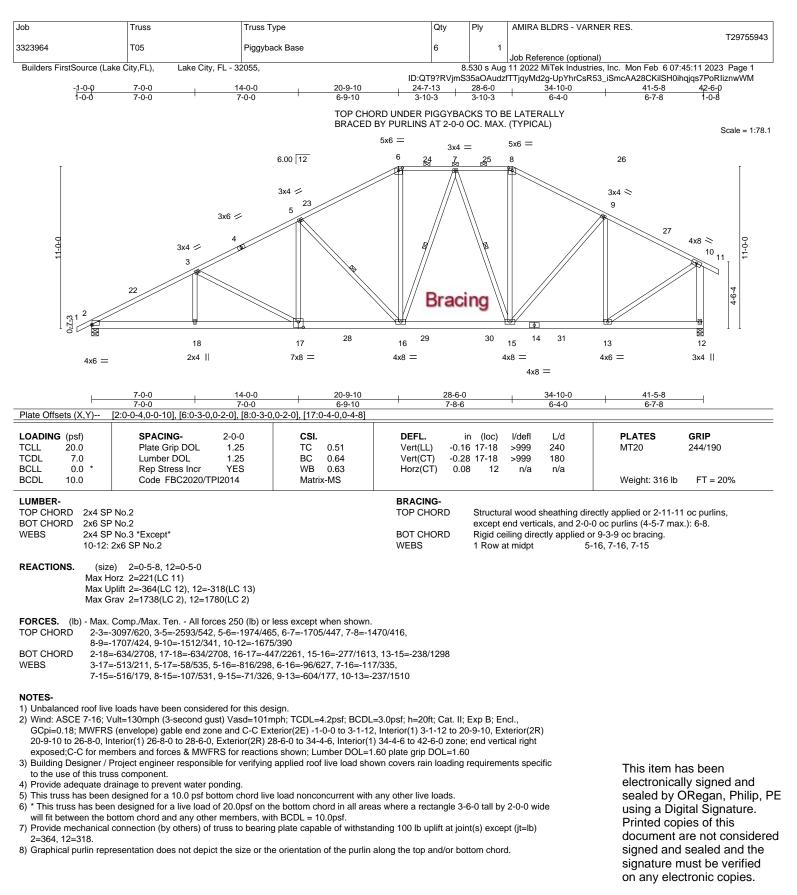
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=364, 12=318.

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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February 7,2023

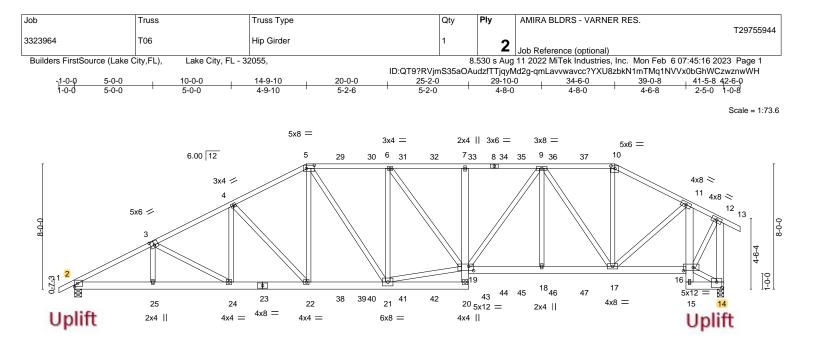




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February 7,2023





	5-0-0		14-9-10	20-0-0	25-2-0	29-10-0	34-6-0	39-0-8	41-5-8
Plate Offset	5-0-0		4-9-10 2-81 [10:0-3-0 0-1	5-2-6 2-01 [14:0-4-0 0-4-4] [<u>5-2-0</u> 16:0-7-8 0-2-81 [1	<u>4-8-0</u> 9:0-3-12 0-3-41	4-8-0	4-6-8	2-5-0
TCDL BCLL	(psf) 20.0 7.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/TPI	2-0-0 1.25 1.25 NO 2014	CSI. TC 0.33 BC 0.73 WB 0.76 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) I/d 0.21 21-22 >99 -0.30 21-22 >99 0.11 14 r	99 240	PLATES MT20 Weight: 687	GRIP 244/190 Ib FT = 20%
LUMBER- BRACING- TOP CHORD 2x4 SP No.2 TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-2-9 oc purlins, except end verticals. WEBS 2x4 SP No.3 *Except* BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-16.									•
REACTION	Max H Max U	e) 2=0-5-8, 14=0-5-0 lorz 2=188(LC 26) plift 2=-1276(LC 8), 14=-17 irav 2=2852(LC 2), 14=316							
	FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-5328/2447, 3-4=-5241/2548, 4-5=-4894/2523, 5-6=-4742/2519, 6-7=-5069/2727, 7-9=-5126/2757, 9-10=-2953/1788, 10-11=-3326/1950, 11-12=-1598/897, 12-14=-3026/1684								
BOT CHOR	2-25= 20-21	2235/4706, 24-25=-2236/ 1=-432/824, 19-20=-189/38 7=-843/1463, 11-16=-2149/	9, 7-19=-370/189	,	,	,			
WEBS	3-24= 6-21=	=-367/273, 4-24=-85/370, 4 =-873/518, 19-21=-2042/40 =-2396/1146, 10-17=-709/1	-22=-566/241, 5- 03, 6-19=-449/63	35, 9-19=-612/1420, 9-	18=-209/513,				
Top chorn Bottom cl Webs coi 2) All loads ply conne 3) Unbaland 4) Wind: AS GCpi=0.1 5) Building I to the use 6) Provide a 7) This truss 8) * This tru will fit bet 9) Provide n	rds connected chords conn- innected as are conside ections have ced roof live SCE 7-16; V 18; MWFRS Designer / F e of this trus adequate dr is has been iss has been tween the b	anected together with 10d ((ed as follows: 2x4 - 1 row a ected as follows: 2x6 - 2 ro follows: 2x4 - 1 row at 0-9- ered equally applied to all p e been provided to distribut b loads have been consider /ult=130mph (3-second gus 6 (envelope) gable end zon- Project engineer responsibl ss component. rainage to prevent water po designed for a 10.0 psf bot n designed for a live load o vottom chord and any other connection (by others) of tr	t 0-9-0 oc, 2x6 - ws staggered at 0 oc. lies, except if noi e only loads note ed for this desigr t) Vasd=101mph e; end vertical ric e for verifying ap nding. tom chord live lo f 20.0psf on the l members, with E	2 rows staggered at 0- 0-9-0 oc. ted as front (F) or back ed as (F) or (B), unless h. t; TCDL=4.2psf; BCDL plied roof live load sho ad nonconcurrent with bottom chord in all area 3CDL = 10.0psf.	: (B) face in the LC otherwise indicate =3.0psf; h=20ft; C IOL=1.60 plate gri wh covers rain loa any other live load as where a rectang	ed. at. II; Exp B; Encl., p DOL=1.60 ading requirements ds. gle 3-6-0 tall by 2-0-	specific -0 wide	electronic sealed by using a D Printed co documen signed ar signature on any el Philip J. O'Regar P MITec In: DBA M 16023 Swingley Rid Date:	has been cally signed and / ORegan, Philip, PE Digital Signature. opies of this t are not considered nd sealed and the e must be verified ectronic copies.
Continued or	n page 2							Pebi	uary 1,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd Chesterfield, MO 63017

MiTek

Job	Truss	Truss Type	Qty	Ply	AMIRA BLDRS - VARNER RES.
					T29755944
3323964	T06	Hip Girder	1	ົ	
				_	Job Reference (optional)
Builders FirstSource (Lake C	City,FL), Lake City, FL - 32	2055,	8.	530 s Aug	11 2022 MiTek Industries, Inc. Mon Feb 6 07:45:16 2023 Page 2

ID:QT9?RVjmS35aOAudzfTTjqyMd2g-qmLavvwavcc?YXU8zbkN1mTMq1NVVx0bGhWCzwznwWH

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 41 lb down and 39 lb up at 14-9-10, 26 lb down and 39 lb up at 16-10-6, 26 lb down and 39 lb up at 20-10-6, 26 lb down and 39 lb up at 22-10-6, 26 lb down and 39 lb up at 24-5-4, 87 lb down and 39 lb up at 26-5-4, 87 lb down and 85 lb up at 28-5-4, 87 lb down and 85 lb up at 30-5-4, and 87 lb down and 85 lb up at 32-5-4, and 106 lb down and 85 lb up at 34-6-0 on top chord, and 749 lb down and 521 lb up at 14-9-10, 162 lb down and 131 lb up at 16-10-6, 173 lb down and 131 lb up at 18-10-6, 173 lb down and 131 lb up at 22-10-6, 173 lb down and 90 lb up at 22-5-4, 103 lb down and 90 lb up at 30-5-4, and 571 lb up at 34-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-54, 5-10=-54, 10-12=-54, 12-13=-54, 20-26=-20, 16-19=-20, 14-15=-20

Concentrated Loads (lb)

Vert: 5=-22(F) 10=-87(F) 22=-749(F) 17=-339(F) 29=-22(F) 30=-22(F) 31=-22(F) 32=-22(F) 33=-22(F) 34=-87(F) 35=-87(F) 36=-87(F) 37=-87(F) 38=-144(F) 40=-144(F) 41=-144(F) 42=-144(F) 43=-144(F) 44=-79(F) 45=-79(F) 46=-79(F) 47=-79(F)



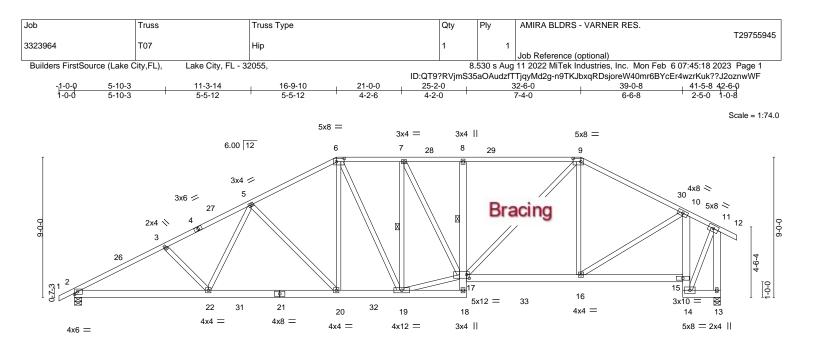


Plate Offsets (X,Y)		9-10 21-0- 2-9 4-2-6 2-0.0-2-12]		32-6		39-0-8 6-6-8	41-5-8 2-5-0
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2020/TPI2014	CSI. TC 0.72 BC 0.66 WB 0.71 Matrix-MS		-0.20 20-22 >9 -0.34 20-22 >9	defl L/d 999 240 999 180 n/a n/a	PLATES MT20 Weight: 332 lb	GRIP 244/190 FT = 20%
			BRACING- TOP CHORD BOT CHORD	except end Rigid ceiling 9-2-1 oc bra	verticals. g directly applied o acing: 2-22 bracing: 14-15.	ectly applied or 2-2-0 c r 10-0-0 oc bracing, I	•
REACTIONS. (size) 2=0-5-8, 13=0-5-0 Max Horz 2=199(LC 11) Max Uplift 2=-373(LC 12), 13=-323(LC 13) Max Grav 2=1733(LC 2), 13=1750(LC 2)							
· · ·	Comp./Max. Ten All forces 250 (lb) -3097/657, 3-5=-2936/631, 5-6=-2289						

76.

	8-9=-2230/507, 9-10=-1855/393, 10-11=-747/200, 11-13=-1794/392
BOT CHORD	2-22=-648/2715, 20-22=-505/2382, 19-20=-368/2003, 18-19=-87/275, 8-17=-362/-
	16-17=-276/1590, 15-16=-180/775, 14-15=-1221/246, 10-15=-1142/266

- WEBS 5-22=-69/485, 5-20=-571/241, 6-20=-138/720, 6-19=-135/270, 7-19=-530/172,
 - 17-19=-314/1834, 7-17=-110/380, 9-17=-240/955, 10-16=-177/960, 11-14=-274/1468

NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 3-1-12, Interior(1) 3-1-12 to 16-9-10, Exterior(2R) 16-9-10 to 22-8-0, Interior(1) 22-8-0, Exterior(2R) 32-6-0 to 38-4-6, Interior(1) 38-4-6 to 42-6-0 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

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

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

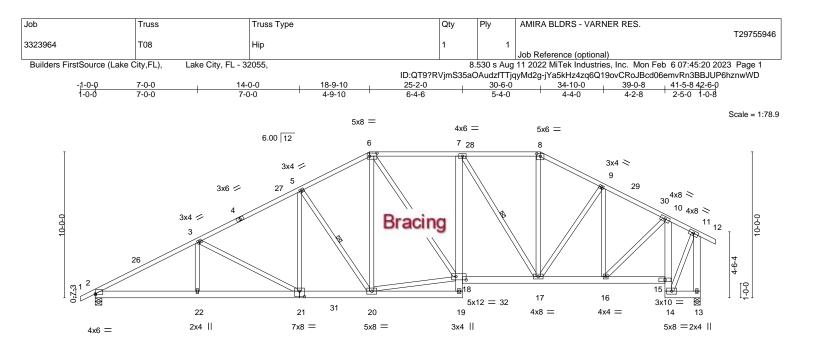
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=373, 13=323.

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	7-0-0 14-0-0 7-0-0 7-0-0	<u>18-9-10</u> 4-9-10	<u>25-2-0</u> 6-4-6	<u>30-6-0</u> 5-4-0	34-10-0 4-4-0	39-0-8 41-5-			
Plate Offsets (X,Y)	[2:0-0-4,0-0-10], [6:0-6-0,0-2-8], [8:0-3-0	,0-2-0], [18:0-8-8,0-2-12], [
LOADING (psf) TCLL 20.0 TCDL 7.0 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 0.51 BC 0.63 WB 0.63 Matrix-MS	Vert(CT) -0	in (loc) l/def 17 21-22 >999 29 21-22 >999 13 13 n/a	240 180	PLATES MT20 Weight: 347 lb	GRIP 244/190 FT = 20%		
BOT CHORD 2x6 S WEBS 2x4 S	P No.2 P No.2 P No.3 *Except* : 2x6 SP No.2	BRACING- TOP CHORD BOT CHORD	except end ve Rigid ceiling d 9-4-3 oc bracii 6-0-0 oc bracii	rticals. irectly applied ong: 2-22,21-22 ng: 14-15.	rectly applied or 3-0-6 c	•			
Max I Max I	REACTIONS. (size) 2=0-5-8, 13=0-5-0 WEBS 1 Row at midpt 5-20, 7-17 Max Horz 2=210(LC 11) Max Uplift 2=368(LC 12), 13=-322(LC 13) 4								
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3044/629, 3-5=-2523/548, 5-6=-2069/501, 6-7=-1955/482, 7-8=-1577/412, 8-9=-1799/431, 9-10=-1633/367, 10-11=-738/205, 11-13=-1762/393 BOT CHORD 2-22=-628/2662, 21-22=-628/2662, 20-21=-436/2195, 7-18=-51/383, 17-18=-355/1966, 16-17=-269/1421, 15-16=-162/724, 14-15=-1177/227, 10-15=-1133/245 WEBS 3-21=-538/219, 5-21=-70/505, 5-20=-714/260, 6-20=-131/511, 18-20=-289/1597, 6-18=-114/373, 7-17=-779/204, 8-17=-117/594, 9-17=-82/329, 9-16=-488/123, 10-16=-148/962, 11-14=-255/1411									

NOTES-

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

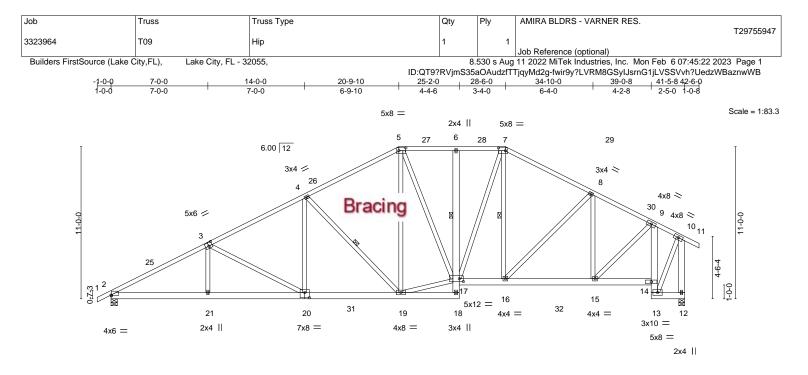
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 3-1-12, Interior(1) 3-1-12 to 18-9-10, Exterior(2R) 18-9-10 to 24-11-4, Interior(1) 24-11-4 to 30-6-0, Exterior(2R) 30-6-0 to 36-4-6, Interior(1) 36-4-6 to 42-6-0 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) 2=368, 13=322.

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February 7,2023





F	7-0-0 14-0-0 7-0-0 7-0-0	<u>20-9-10</u> 6-9-10	25-2-0	28-6-0	<u>34-10-0</u> 6-4-0	39-0-8	41-5-8	
Plate Offsets (X,Y)	[2:0-0-4,0-0-10], [3:0-3-0,0-3-0], [5:0-6-0							
LOADING (psf) TCLL 20.0 TCDL 7.0 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 0.51 BC 0.62 WB 0.60 Matrix-MS	Vert(CT) -	0.16 19-20 ×	l/defl L/d >999 240 >999 180 n/a n/a	PLA MT2 Weig		GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2 BRACING- TOP CHORD BOT CHORD 2x6 SP No.2 TOP CHORD Structural wood sheathing directly applied or 3-0-4 oc purlins, except end verticals. WEBS 2x4 SP No.3 *Except* 10-12: 2x6 SP No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 9-3-6 oc bracing: 2-21 9-3-8 oc bracing: 20-21 6-0-0 oc bracing: 13-14. 1 Row at midpt 6-17								
Max I Max I	ze) 2=0-5-8, 12=0-5-0 Horz 2=221(LC 11) Uplift 2=-366(LC 12), 12=-316(LC 13) Grav 2=1709(LC 2), 12=1735(LC 2)		WEBS	1 Row at I		4-19, 7-16		
TOP CHORD 2-3=	Comp./Max. Ten All forces 250 (lb) or =-3037/624, 3-4=-2535/545, 4-5=-1903/46 =-1803/436, 8-9=-1656/366, 9-10=-742/20	6, 5-6=-1703/455, 6-7=-1						
	1=-637/2655, 20-21=-637/2655, 19-20=-4 15=-158/718, 13-14=-1177/223, 9-14=-11		2, 15-16=-274/1451,					
WEBS 3-20 5-17	10=-511/211, 4-20=-57/553, 4-19=-832/297 7=-86/306, 7-17=-168/525, 8-16=-64/254, 13=-251/1409	, 5-19=-119/468, 17-19=-:	,					
NOTES- 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 3-1-12, Interior(1) 3-1-12 to 20-9-10, Exterior(2R) 20-9-10 to 26-8-0, Interior(1) 26-8-0 to 28-6-0, Exterior(2R) 28-6-0 to 34-4-6, Interior(1) 34-4-6 to 42-6-0 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 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								

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.

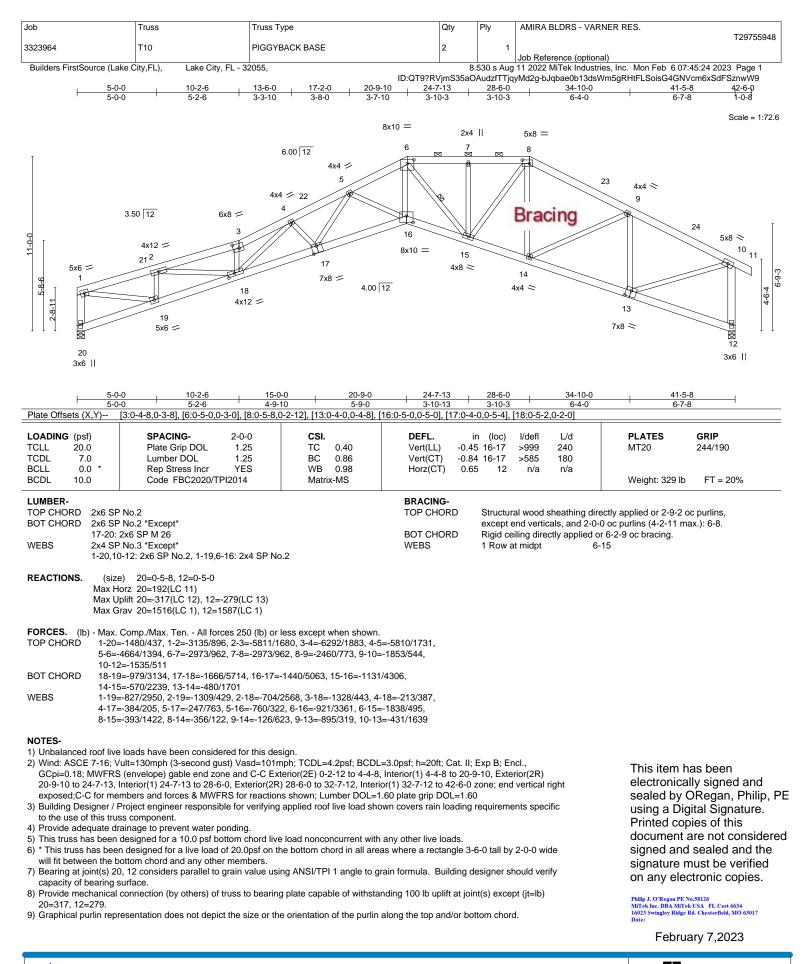
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=366, 12=316.

signed and sealed and the signature must be verified on any electronic copies.

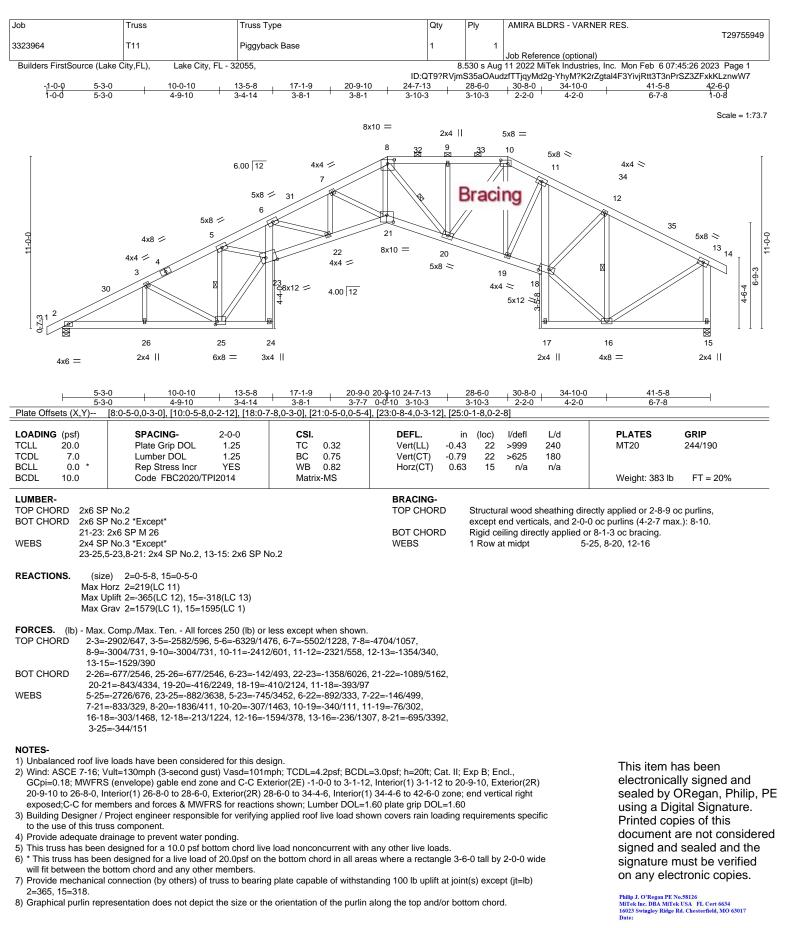
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

February 7,2023



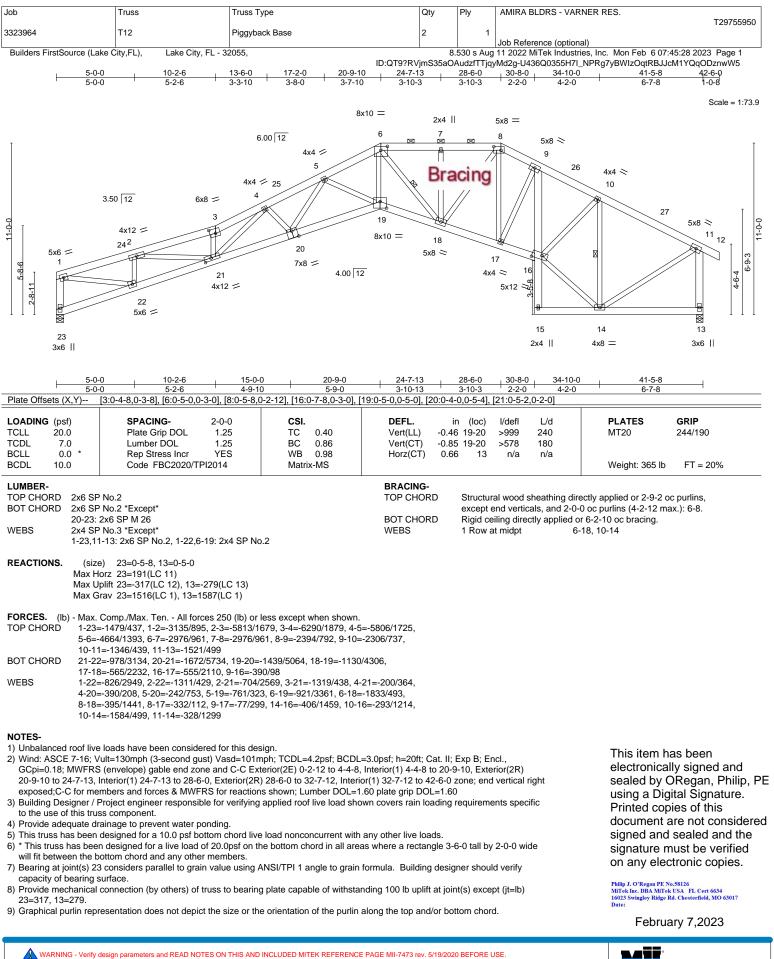


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February 7,2023

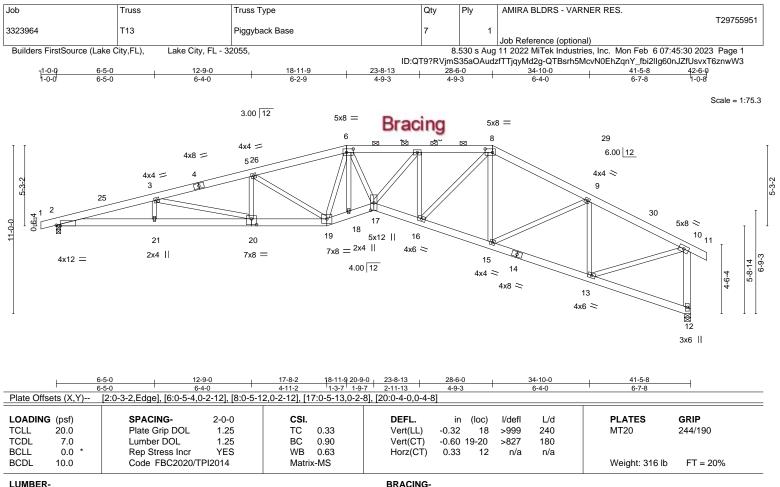




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TOP CHORD 2x6 SP No.2 Structural wood sheathing directly applied or 3-0-8 oc purlins, TOP CHORD BOT CHORD 2x6 SP No.2 except end verticals, and 2-0-0 oc purlins (3-6-3 max.): 6-8. 2x4 SP No.3 *Except* BOT CHORD Rigid ceiling directly applied or 6-7-9 oc bracing. WEBS 10-12: 2x6 SP No.2 REACTIONS. (size) 2=0-3-8, 12=0-5-0 Max Horz 2=-142(LC 13) Max Uplift 2=-419(LC 8), 12=-336(LC 13)

Max Grav 2=1579(LC 1), 12=1595(LC 1)

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

 TOP CHORD
 2-3=-5026/1402, 3-5=-4361/1276, 5-6=-3574/1084, 6-7=-4108/1225, 7-8=-3230/1020, 8-9=-2480/782, 9-10=-1866/569, 10-12=-1542/513

BOT CHORD 2-21=-1241/4851, 20-21=-1241/4851, 19-20=-1076/4208, 18-19=-912/3780, 17-18=-905/3766, 16-17=-811/3399, 15-16=-527/2260, 13-15=-465/1710

- WEBS 3-20=-685/221, 5-20=-23/386, 5-19=-944/300, 6-19=-628/158, 6-17=-282/1216,
- 7-17=-336/1413, 7-16=-1345/400, 8-16=-411/1551, 8-15=-346/116, 9-15=-115/636, 9-13=-901/326, 10-13=-445/1649

NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 3-1-12, Interior(1) 3-1-12 to 18-11-9, Exterior(2R) 18-11-9 to 24-9-15, Interior(1) 24-9-15 to 28-6-0, Exterior(2R) 28-6-0 to 34-4-6, Interior(1) 34-4-6 to 42-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=419, 12=336.

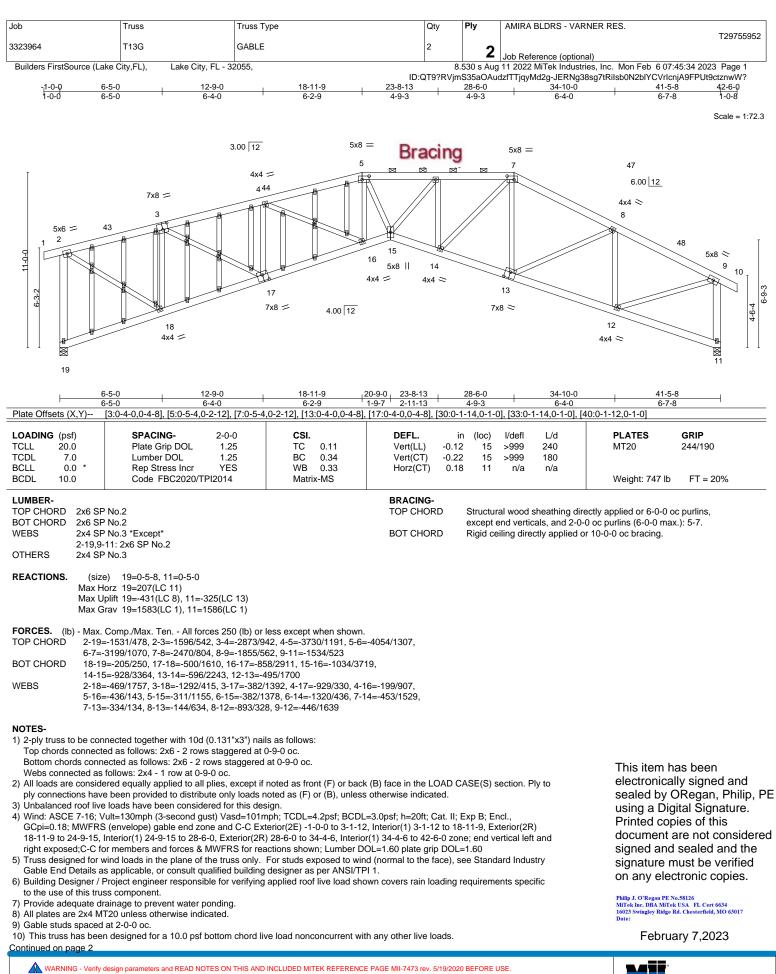
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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February 7,2023





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEX REFERENCE PAGE MIT-74/3 (ev. or)9/2/2/2 BEFURE 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 **ANS/TPI1 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 Chesterfield, MO 63017

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Job	Truss	Truss Type	Qty	Ply	AMIRA BLDRS - VARNER RES.
					T29755952
3323964	T13G	GABLE	2	2	
				_	Job Reference (optional)
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,		8.	530 s Aug	11 2022 MiTek Industries, Inc. Mon Feb 6 07:45:34 2023 Page 2	
ID:QT9?RVjmS35aOAudzfTTjqyMd2g-JERNg38sg7tRilsb0N2bIYCVrlcnjA9FPUt9ctznwV					

NOTES-

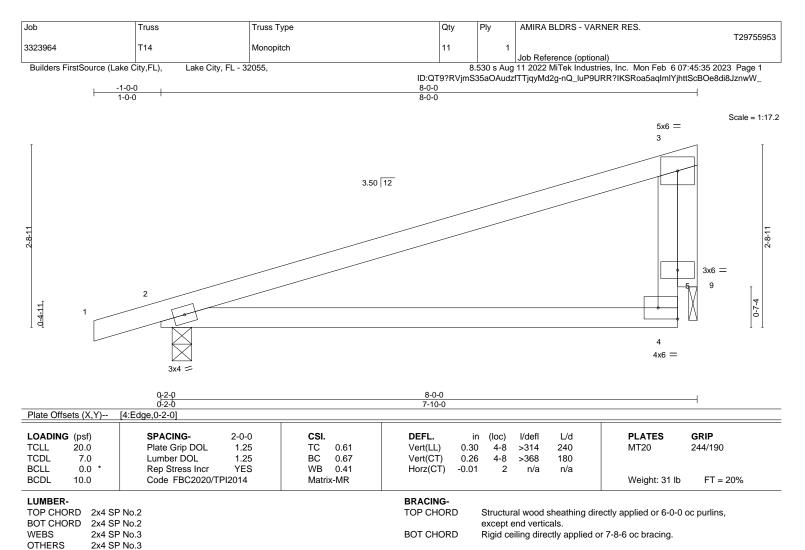
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

Bearing at joint(s) 19, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=431, 11=325.

14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

15) Studding applied to ply: 1(Front)





REACTIONS. (size) 2=0-3-8, 9=0-1-8 Max Horz 2=89(LC 8) Max Uplift 2=.173(LC 8) 0=

Max Holz 2=09(LC 8) Max Uplift 2=-173(LC 8), 9=-140(LC 8) Max Grav 2=350(LC 1), 9=263(LC 1)

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

TOP CHORD	4-5=-258/153, 3-5=-258/153
BOT CHORD	2-4=-261/163

WEBS 3-9=-277/437

NOTES-

 Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 7-6-12 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

 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) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.

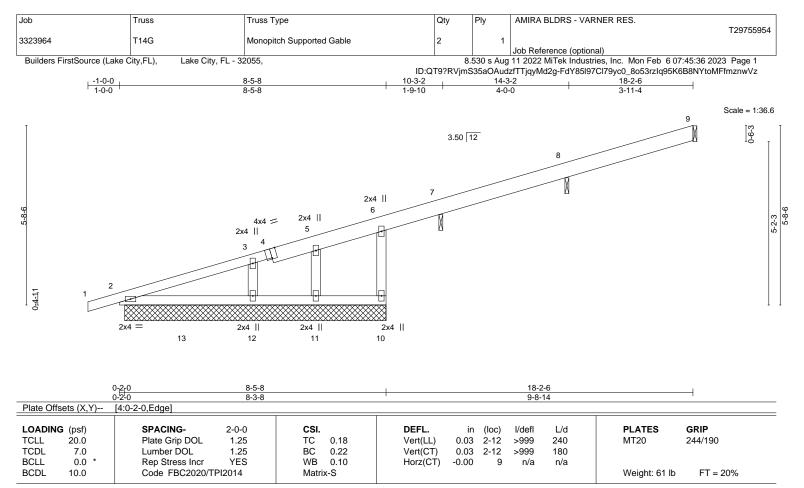
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=173, 9=140.

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February 7,2023





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD	2x6 SP No.2 *Except*
	1-4: 2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

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

REACTIONS. All bearings 8-3-8 except (jt=length) 9=Mechanical, 8=0-1-8, 7=0-1-8. (lb) - Max Horz 2=191(LC 8)

 Max Uplift
 All uplift 100 lb or less at joint(s) 9, 10, 2, 11, 7 except 12=-172(LC 8), 8=-115(LC 8)

 Max Grav
 All reactions 250 lb or less at joint(s) 9, 10, 2, 11, 8, 7 except 12=311(LC 1)

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

TOP CHORD 2-3=-355/107, 3-5=-255/72

WEBS 3-12=-219/324

NOTES-

 Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 18-1-10 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

 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.

 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 at joint(s) 8, 7.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 10, 2, 11, 7 except (jt=lb) 12=172, 8=115.

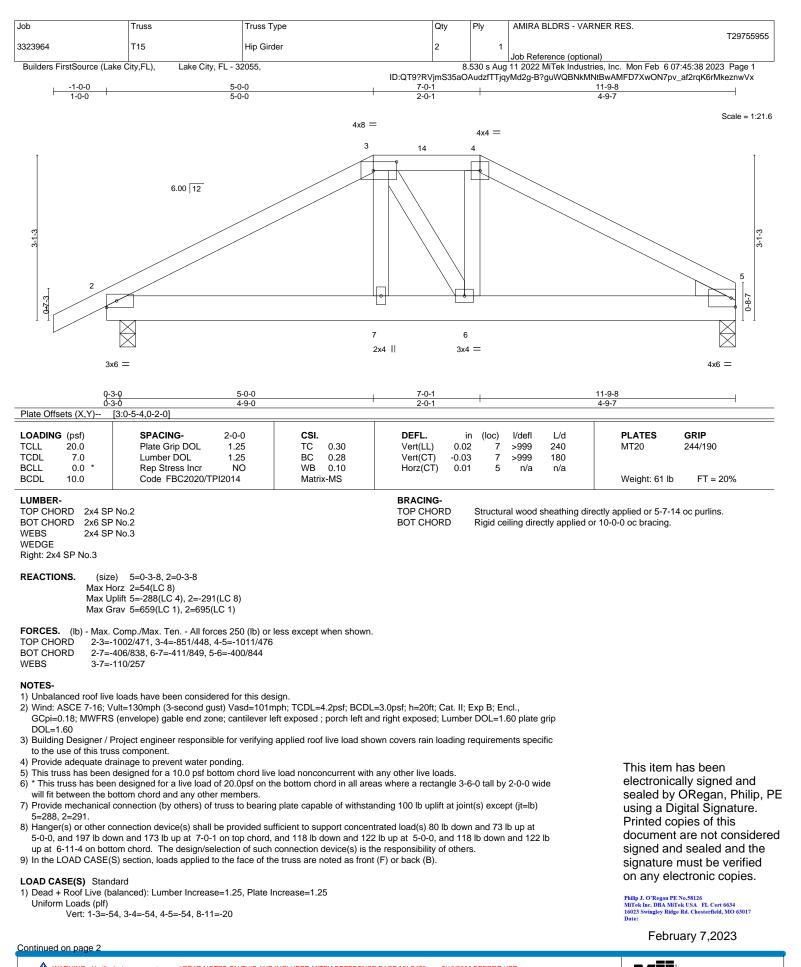
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8, 7.

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February 7,2023





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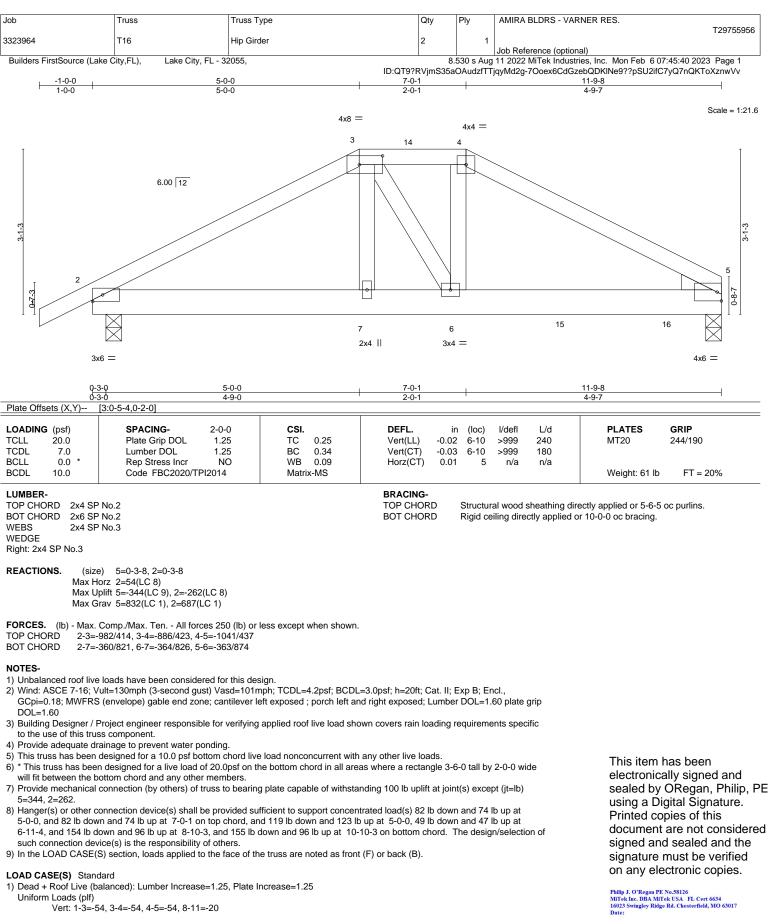
Job	Truss	Truss Type	Qty	Ply	AMIRA BLDRS - VARNER RES.
					T29755955
3323964	T15	Hip Girder	2	1	
					Job Reference (optional)
Builders FirstSource (Lake C	ity,FL), Lake City, FL - 32	2055,	8	530 s Aug	11 2022 MiTek Industries, Inc. Mon Feb 6 07:45:38 2023 Page 2

ID:QT9?RVjmS35aOAudzfTTjqyMd2g-B?guWQBNkMNtBwAMFD7XwON7pv_af2rqK6rMkeznwVx

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 3=-61(B) 4=-150(B) 7=-108(B) 6=-108(B)





February 7,2023



Continued on page 2

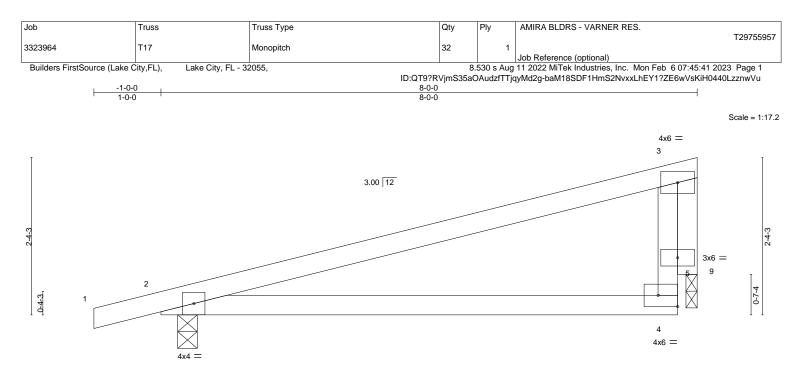
Job	Truss	Truss Type	Qty	Ply	AMIRA BLDRS - VARNER RES.
					T29755956
3323964	T16	Hip Girder	2	1	
					Job Reference (optional)
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,			8.	530 s Aug	11 2022 MiTek Industries, Inc. Mon Feb 6 07:45:40 2023 Page 2

s Aug 11 2022 MiTek Industries, Inc. Mon Feb 6 07:45:40 ID:QT9?RVjmS35aOAudzfTTjqyMd2g-7Ooex6CdGzebQDKINe9??pSU2ifC7yQ7nQKToXznwVv

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 3=-64(F) 4=-64(F) 7=-111(F) 6=-45(F) 15=-154(F) 16=-155(F)





0-3-0 0-3-0 Plate Offsets (X,Y) [4:Edge.0-2-0]				8-0-0 7-9-0						I		
LOADING (psf)	SPACING-	2-0-0	CSI.	0.04	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0 TCDL 7.0	Plate Grip DOL Lumber DOL	1.25 1.25	TC BC	0.61 0.65	Vert(LL) Vert(CT)	0.30 0.25	4-8 4-8	>321 >376	240 180	MT20	244/190	
BCLL 0.0 * BCDL 10.0	Rep Stress Incr Code FBC2020/T	YES PI2014	WB Matri	0.41 x-MR	Horz(CT)	-0.01	2	n/a	n/a	Weight: 30 lb	FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins,
BOT CHORD	2x4 SP No.2		except end verticals.
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 7-4-3 oc bracing.
OTHERS	2x4 SP No.3		

REACTIONS. (size) 2=0-3-8, 9=0-2-0 Max Horz 2=77(LC 8) Max Uplift 2=-176(LC 8), 9=-137(LC 8) Max Grav 2=350(LC 1), 9=264(LC 1)

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

TOP CHORD 2-3=-227/257, 4-5=-257/152, 3-5=-257/152

BOT CHORD 2-4=-304/193 WEBS 3-9=-283/441

NOTES-

 Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 7-6-12 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

 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) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=176, 9=137.

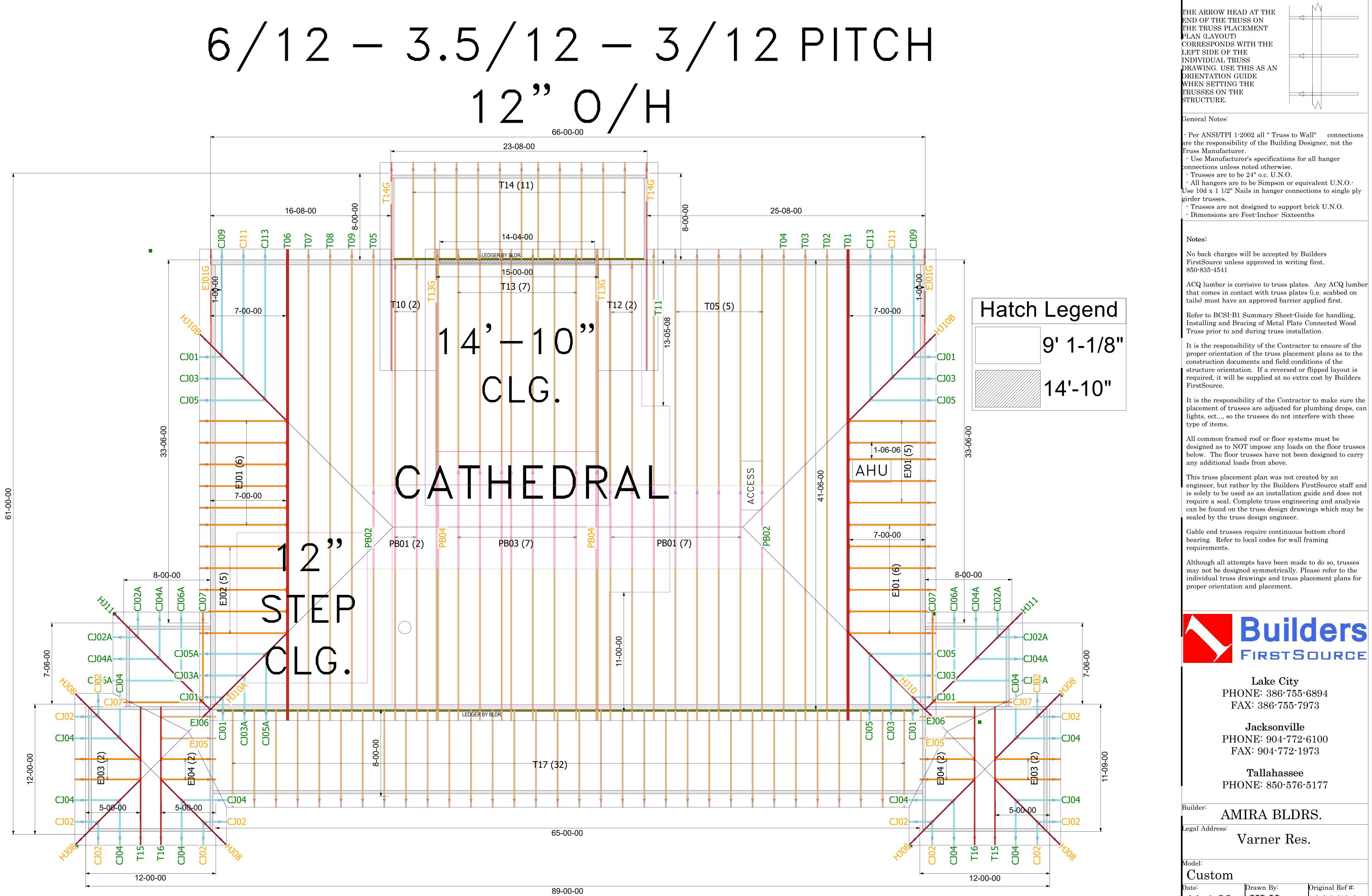
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February 7,2023







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

11-4-22 Floor 1 Job# N/A

KLH Floor 2 Job#: N/A

3323964 Roof Job #: 3323964