



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

RE: 2449137 - IC CONST. - WILKINSON RES.

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: IC Const. Project Name: Wilkinson Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Columbia Cty State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2017/TPI2014 Design Program: MiTek 20/20 8.2
Wind Code: ASCE 7-10 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 27 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	T21473160	PB01	10/2/20	23	T21473182	V01	10/2/20
2	T21473161	PB01G	10/2/20	24	T21473183	V02	10/2/20
3	T21473162	T01	10/2/20	25	T21473184	V03	10/2/20
4	T21473163	T01G	10/2/20	26	T21473185	V04	10/2/20
5	T21473164	T02	10/2/20	27	T21473186	V05	10/2/20
6	T21473165	T02A	10/2/20				
7	T21473166	T02G	10/2/20				
8	T21473167	T03	10/2/20				
9	T21473168	T04	10/2/20				
10	T21473169	T05	10/2/20				
11	T21473170	T06	10/2/20				
12	T21473171	T06G	10/2/20				
13	T21473172	T07	10/2/20				
14	T21473173	T07G	10/2/20				
15	T21473174	T08	10/2/20				
16	T21473175	T09	10/2/20				
17	T21473176	T10	10/2/20				
18	T21473177	T10D	10/2/20				
19	T21473178	T10G	10/2/20				
20	T21473179	T11	10/2/20				
21	T21473180	T12	10/2/20				
22	T21473181	T12G	10/2/20				

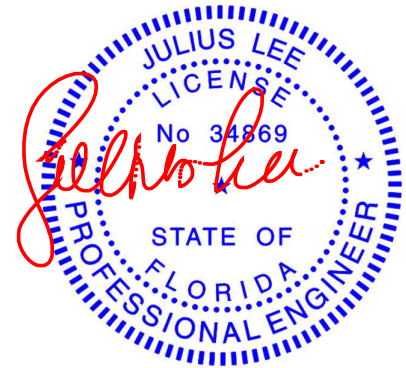


The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Jacksonville.

Truss Design Engineer's Name: Lee, Julius

My license renewal date for the state of Florida is February 28, 2021.

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.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

October 2, 2020

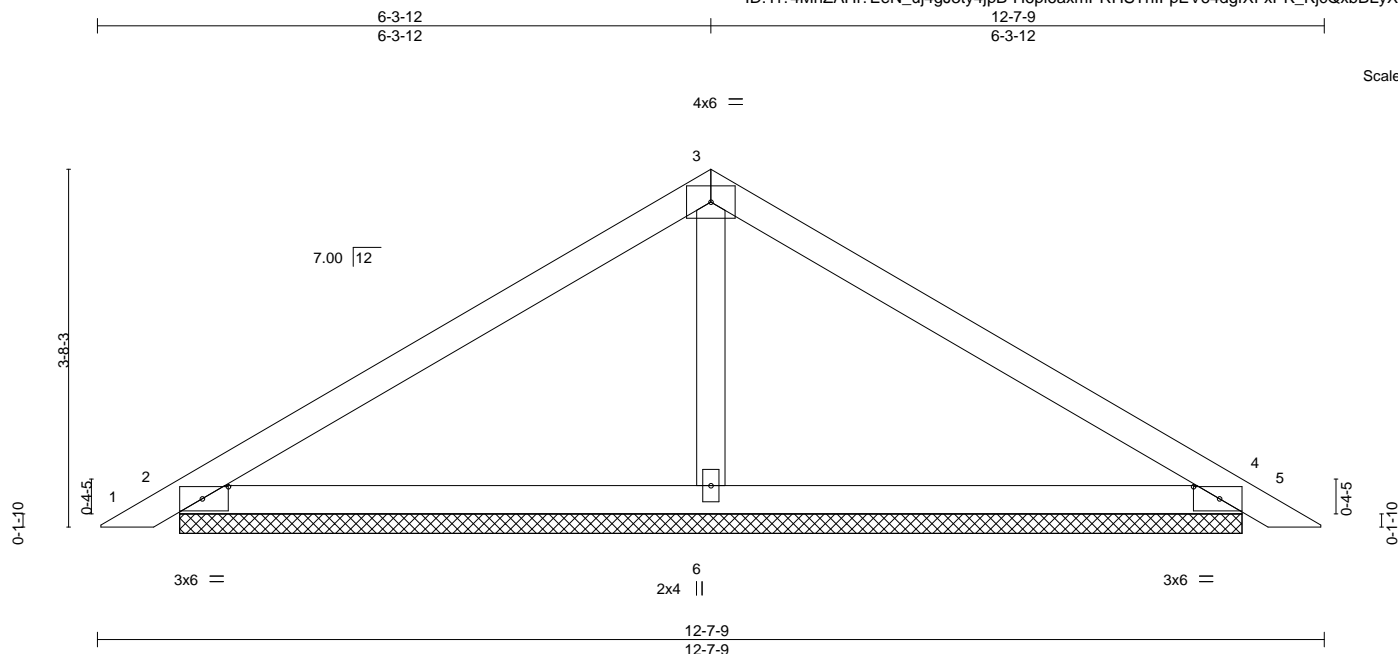
Job 2449137	Truss PB01	Truss Type Piggyback	Qty 16	Ply 1	IC CONST. - WILKINSON RES. Job Reference (optional)	T21473160
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Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 2 10:24:55 2020 Page 1

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Scale = 1:23.7

Plate Offsets (X,Y)-- [2:0-3-3,0-1-8], [4:0-3-3,0-1-8]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.34	Vert(LL)	0.01	5	n/r
TCDL 7.0	Lumber DOL	1.25	BC 0.29	Vert(CT)	0.02	5	n/r
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	4	n/a
BCDL 10.0	Code FBC2017/TPI2014		Matrix-S				
				PLATES	GRIP		
				MT20	244/190		
				Weight: 42 lb	FT = 20%		

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=10-11-4, 4=10-11-4, 6=10-11-4
Max Horz 2=-109(LC 10)
Max Uplift 2=-107(LC 12), 4=-122(LC 13), 6=-119(LC 12)
Max Grav 2=221(LC 23), 4=225(LC 20), 6=426(LC 1)

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

WEBS 3-6=-263/158

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=107, 4=122, 6=119.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Date:

October 2,2020

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

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



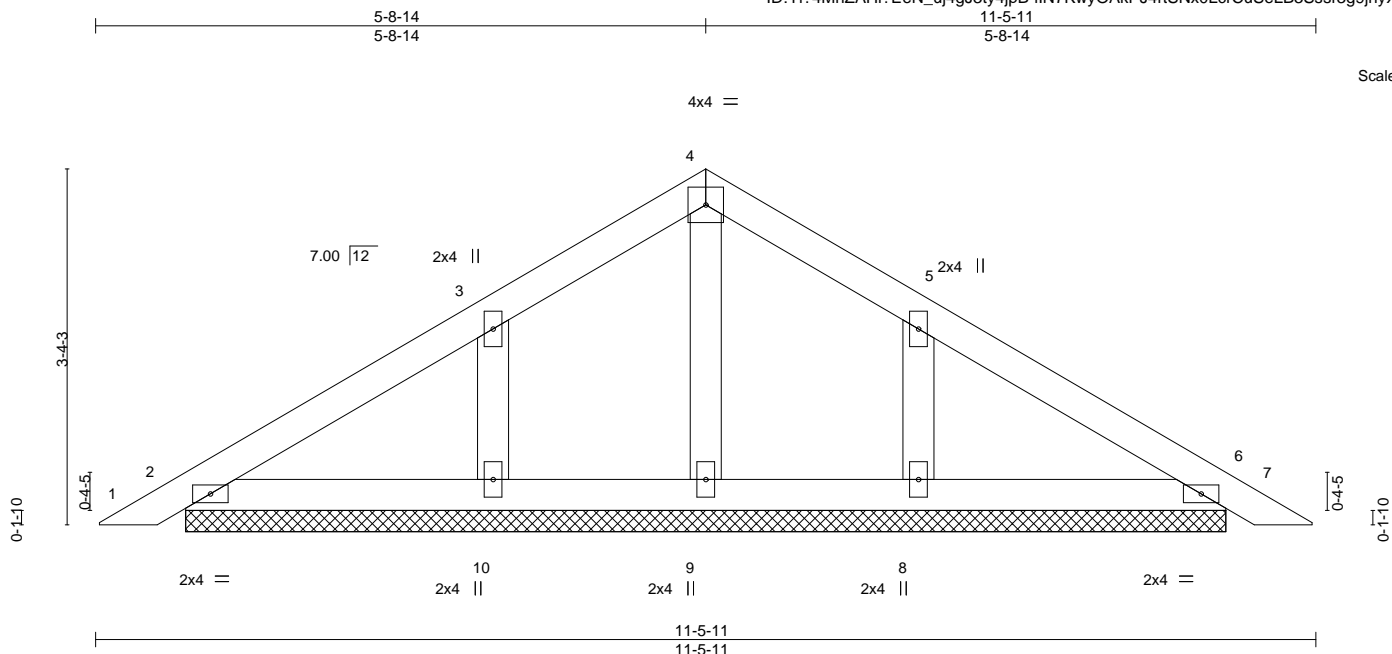
6904 Parke East Blvd.
Tampa, FL 33610

Job 2449137	Truss PB01G	Truss Type GABLE	Qty 2	Ply 1	IC CONST. - WILKINSON RES. Job Reference (optional)	T21473161
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Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 2 10:24:56 2020 Page 1
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Scale = 1:21.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.08	Vert(LL)	0.00	7	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	0.00	7	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-S						Weight: 42 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

- All bearings 9-9-6.
(lb) - Max Horz 2=-99(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-155(LC 12), 8=-154(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=155, 8=154.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Date:

October 2,2020

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6904 Parke East Blvd.
Tampa, FL 33610

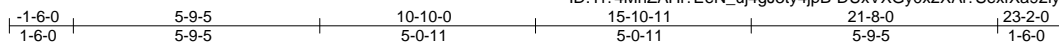
Job 2449137	Truss T01	Truss Type Common	Qty 2	Ply 1	IC CONST. - WILKINSON RES. T21473162
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Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 2 10:24:57 2020 Page 1

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4x6 ||

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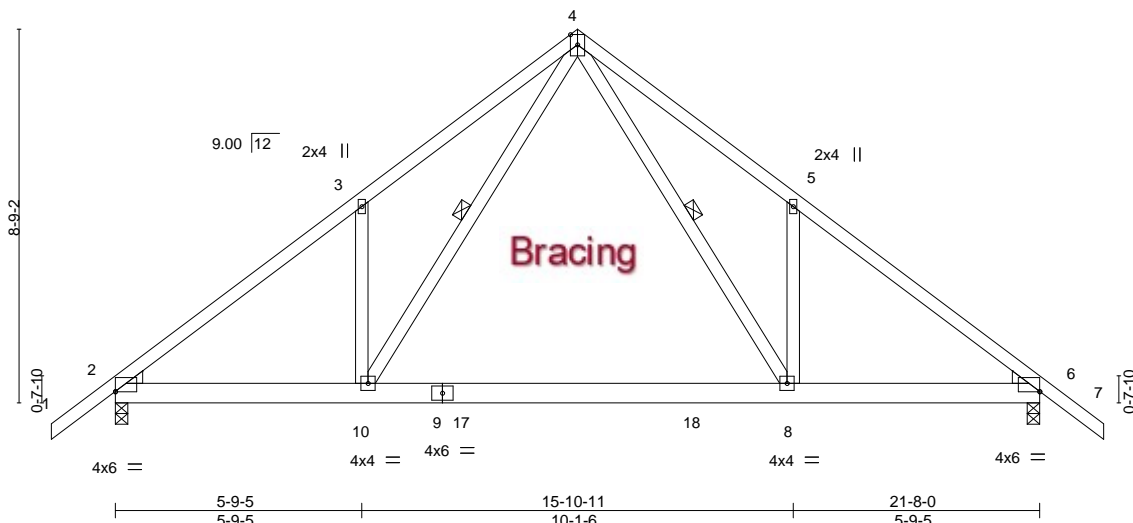


Plate Offsets (X,Y)-- [2:0-0-0,0-0-2], [6:0-0-0,0-0-2]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.48	Vert(LL)	-0.23 8-10	>999	240
TCDL 7.0	Lumber DOL	1.25	BC 0.97	Vert(CT)	-0.44 8-10	>597	180
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.36	Horz(CT)	0.03 6	n/a	n/a
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS				
				PLATES	GRIP		
				MT20	244/190		
				Weight: 139 lb		FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-1-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-6-0 oc bracing.
WEBS 1 Row at midpt 4-8, 4-10

REACTIONS.

(size) 2=0-3-8, 6=0-3-8
Max Horz 2=-288(LC 10)
Max Uplift 2=-472(LC 12), 6=-472(LC 13)
Max Grav 2=1212(LC 19), 6=1212(LC 20)

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

TOP CHORD 2-3=-1719/683, 3-4=-1781/917, 4-5=-1781/917, 5-6=-1719/683
BOT CHORD 2-10=-510/1484, 8-10=-202/888, 6-8=-387/1341
WEBS 4-8=-594/1152, 5-8=-389/378, 4-10=-594/1152, 3-10=-389/378

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=472, 6=472.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-7=-54, 10-11=-20, 8-10=-80(F=-60), 8-14=-20



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Date:

October 2,2020

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



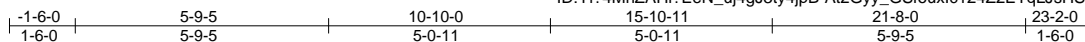
6904 Parke East Blvd.
Tampa, FL 33610

Job 2449137	Truss T01G	Truss Type GABLE	Qty 1	Ply 1	IC CONST. - WILKINSON RES. Job Reference (optional)	T21473163
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 2 10:24:59 2020 Page 1

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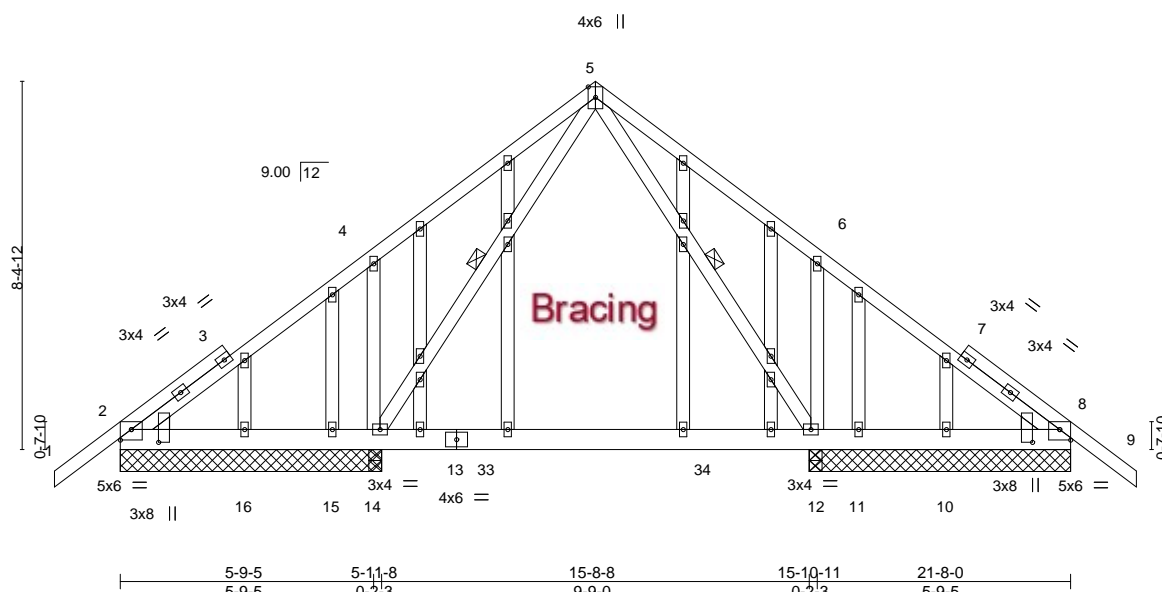


Plate Offsets (X,Y)--										[2:Edge,0-2-14], [2:0-3-8,0-7-7], [8:Edge,0-2-14], [8:0-3-8,0-7-7]									
LOADING (psf)		SPACING- 2-0-0				CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP					
TCLL	20.0	Plate Grip DOL 1.25				TC	0.29	Vert(LL)	-0.06	12-14	>999	240	MT20	244/190					
TCDL	7.0	Lumber DOL 1.25				BC	0.34	Vert(CT)	-0.10	12-14	>999	180							
BCLL	0.0 *	Rep Stress Incr YES				WB	0.13	Horz(CT)	0.01	8	n/a	n/a							
BCDL	10.0	Code FBC2017/TPI2014				Matrix-MS								Weight: 191 lb	FT = 20%				

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
WEBS 10-0-0 oc bracing: 12-14.
1 Row at midpt 5-12, 5-14

REACTIONS.

All bearings 5-11-8.
(lb) - Max Horz 2=-277(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 16, 10 except 12=-275(LC 13),
14=-297(LC 12), 15=-491(LC 18), 11=-491(LC 18)
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 16, 10 except 12=1027(LC
20), 12=732(LC 1), 14=1052(LC 19), 14=732(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 2-16=-205/277, 15-16=-193/273, 14-15=-193/273, 12-14=-152/267, 11-12=-188/257,
10-11=-188/257, 8-10=-197/263
WEBS 6-12=-403/368, 4-14=-404/368

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 16, 10 except (jt=lb) 12=275, 14=297, 15=491, 11=491.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

October 2,2020

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



6904 Parke East Blvd.
Tampa, FL 33610

Job 2449137	Truss T02	Truss Type Common	Qty 12	Ply 1	IC CONST. - WILKINSON RES. T21473164
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 2 10:25:00 2020 Page 1

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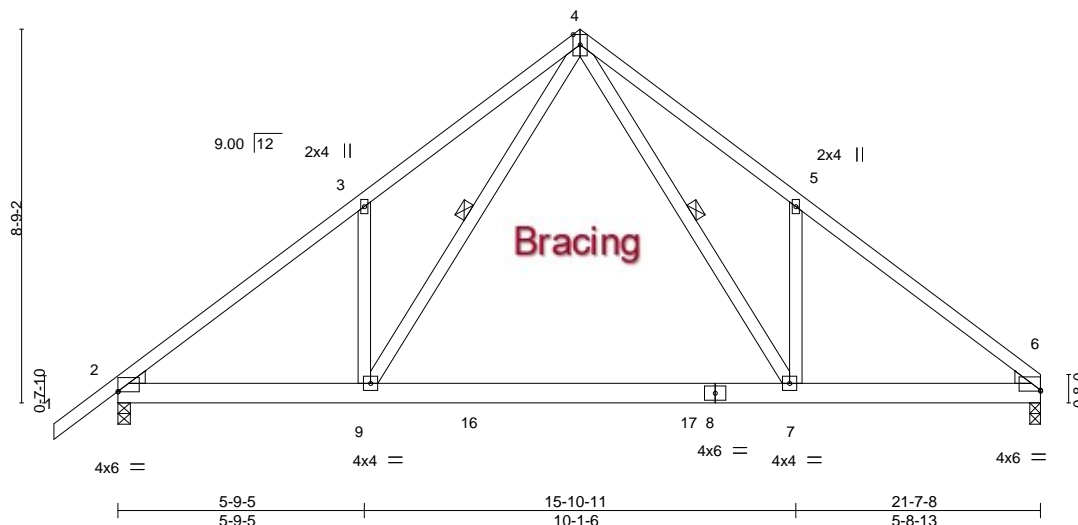


Plate Offsets (X,Y)--	[2:0-0-0,0-0-2], [6:0-0-0,0-0-5]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.48	Vert(LL)	-0.22	7-9	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.96	Vert(CT)	-0.43	7-9	>600	180	
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.36	Horz(CT)	0.03	6	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
								Weight: 136 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-1-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-7-6 oc bracing.
WEBS 1 Row at midpt 4-9, 4-7

REACTIONS.

(size) 6=0-3-0, 2=0-3-8
Max Horz 2=276(LC 9)
Max Uplift 6=419(LC 13), 2=473(LC 12)
Max Grav 6=1126(LC 20), 2=1207(LC 19)

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

TOP CHORD 2-3=-1711/688, 3-4=-1782/922, 4-5=-1769/928, 5-6=-1715/693
BOT CHORD 2-9=-534/1460, 7-9=-226/865, 6-7=-440/1314
WEBS 3-9=-389/378, 4-9=-593/1148, 4-7=-603/1151, 5-7=-386/380

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 6=419, 2=473.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 9-13=-20, 7-9=-80(F=-60), 7-10=-20



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

October 2,2020

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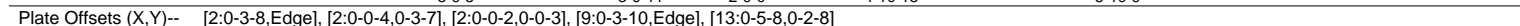
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 2 10:25:01 2020 Page 1

Job Reference (optional)

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Scale = 1:55.0



TOP CHORD	Structural wood sheathing directly applied or 4-1-14 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 9-11-5 oc bracing: 2-15 8-2-11 oc bracing: 11-12.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDF=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate, capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=278, 2=331.



October 2, 2020



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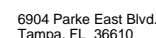
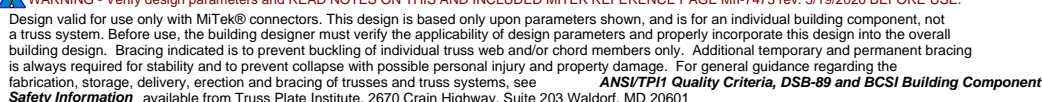


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T21473166

4x4 =

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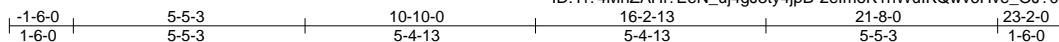


Job 2449137	Truss T03	Truss Type Common	Qty 1	Ply 1	IC CONST. - WILKINSON RES. Job Reference (optional)	T21473167
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 2 10:25:03 2020 Page 1

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4x6 ||

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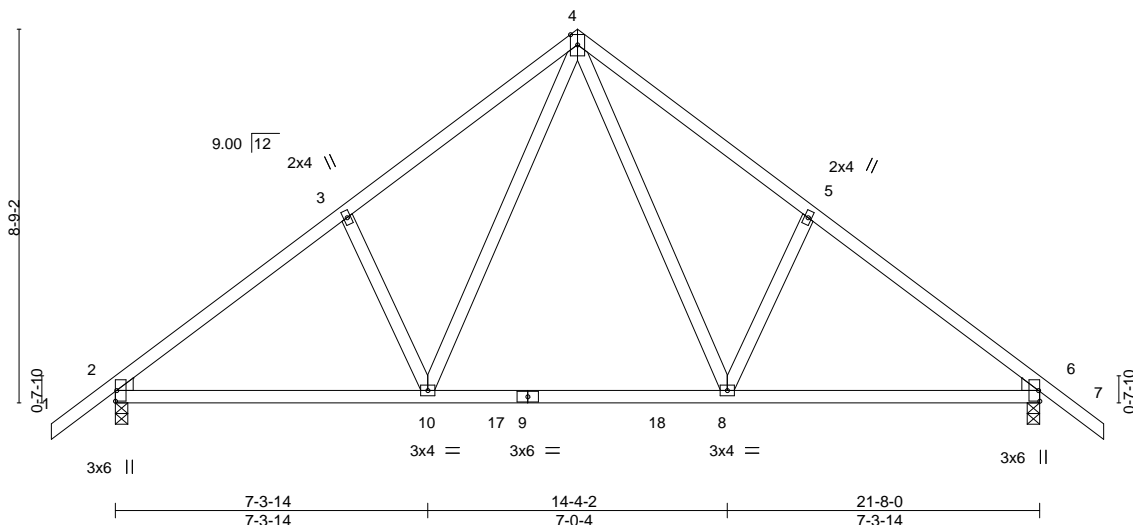


Plate Offsets (X,Y)-- [2:0-0-2,0-0-3], [2:0-0-4,0-3-7], [6:0-0-2,0-0-3], [6:0-0-4,0-3-7]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.35	Vert(LL)	-0.13	8-10	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.49	Vert(CT)	-0.18	8-10	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.45	Horz(CT)	0.02	6	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
								Weight: 120 lb	FT = 20%

LUMBER-

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

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 6=0-3-8
Max Horz 2=-288(LC 10)
Max Uplift 2=-331(LC 12), 6=-331(LC 13)
Max Grav 2=883(LC 1), 6=883(LC 1)

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

TOP CHORD 2-3=-1026/452, 3-4=-1018/543, 4-5=-1017/543, 5-6=-1026/452
BOT CHORD 2-10=-323/935, 8-10=-84/615, 6-8=-215/781
WEBS 4-8=-278/516, 5-8=-352/323, 4-10=-278/516, 3-10=-352/322

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=331, 6=331.



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Date:

October 2,2020

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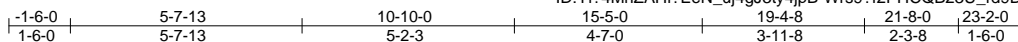
6904 Parke East Blvd.
Tampa, FL 33610

Job 2449137	Truss T04	Truss Type ROOF SPECIAL	Qty 5	Ply 1	IC CONST. - WILKINSON RES. T21473168
Job Reference (optional)					

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 2 10:25:04 2020 Page 1

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4x4 =

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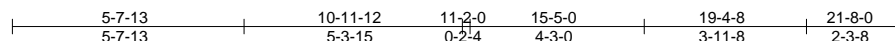
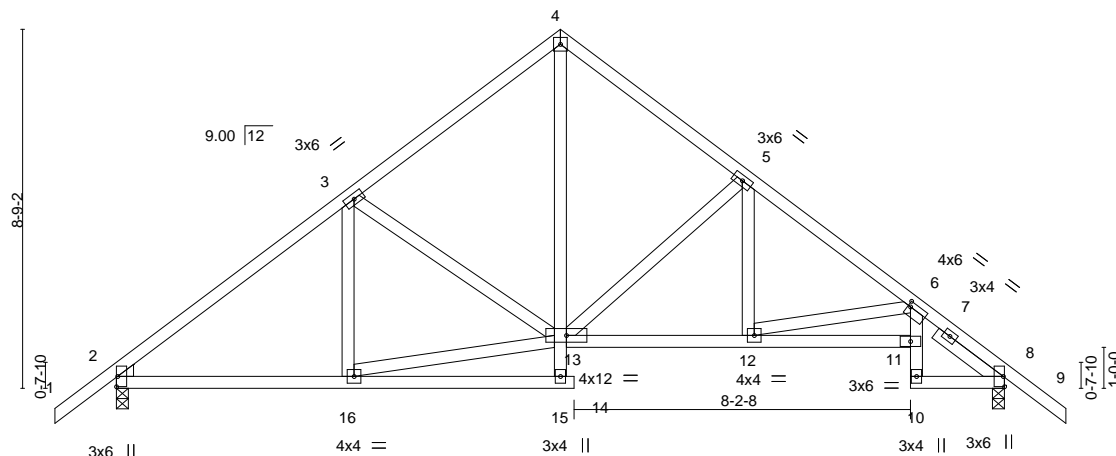


Plate Offsets (X,Y)-- [2:0-0-2,0-0-3], [2:0-0-4,0-3-7], [6:0-0-12,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.46	Vert(LL)	-0.06 11-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.44	Vert(CT)	-0.12 11-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.37	Horz(CT)	0.09 8	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS					Weight: 140 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 "Except"
 4-15: 2x4 SP No.3, 6-10: 2x4 SP M 31
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3
 SLIDER Right 2x4 SP No.3 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-2-7 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 8-6-11 oc bracing: 11-12.
 10-0-0 oc bracing: 13-15

REACTIONS.

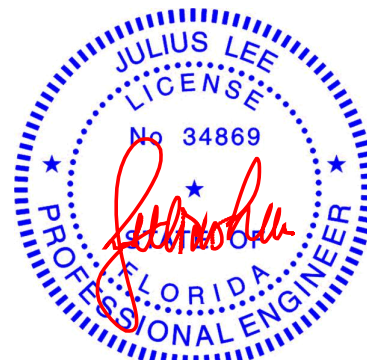
(size) 2=0-3-8, 8=0-3-8
 Max Horz 2=-289(LC 10)
 Max Uplift 2=-328(LC 12), 8=-332(LC 13)
 Max Grav 2=880(LC 1), 8=889(LC 1)

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

TOP CHORD 2-3=-1028/438, 3-4=-842/420, 4-5=-848/427, 5-6=-1162/486, 6-8=-1056/432
 BOT CHORD 2-16=-308/855, 4-13=-329/756, 12-13=-201/899, 11-12=-476/1556, 8-10=-207/729
 WEBS 13-16=-311/809, 3-13=-361/266, 5-13=-529/294, 5-12=-39/310, 6-12=-720/282

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=328, 8=332.



Julius Lee PE No.34869
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 6904 Parke East Blvd. Tampa FL 33610
 Date:

October 2,2020

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6904 Parke East Blvd.
 Tampa, FL 33610

Job 2449137	Truss T05	Truss Type Common	Qty 3	Ply 1	IC CONST. - WILKINSON RES. T21473169
Job Reference (optional)					

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 2 10:25:05 2020 Page 1

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4x6 ||

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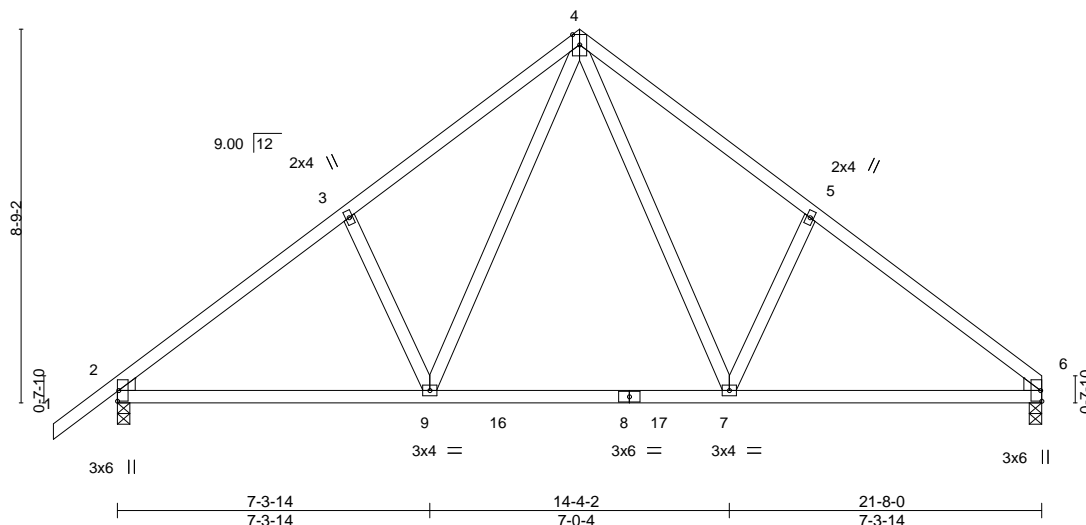


Plate Offsets (X,Y)-- [2:0-0-2,0-0-3], [2:0-0-4,0-3-7], [6:0-0-2,0-0-3], [6:0-0-4,0-3-7]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.36	Vert(LL)	-0.13	7-9	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.49	Vert(CT)	-0.18	7-9	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.46	Horz(CT)	0.02	6	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
									Weight: 117 lb FT = 20%

LUMBER-

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

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-11-5 oc bracing.

REACTIONS.

(size) 2=0-3-8, 6=0-3-8
Max Horz 2=276(LC 9)
Max Uplift 2=332(LC 12), 6=279(LC 13)
Max Grav 2=885(LC 1), 6=799(LC 1)

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

TOP CHORD 2-3=-1030/458, 3-4=-1022/549, 4-5=-1018/556, 5-6=-1037/463
BOT CHORD 2-9=-348/919, 7-9=-108/600, 6-7=-270/770
WEBS 4-7=-289/530, 5-7=-349/329, 4-9=-277/515, 3-9=-352/322

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=332, 6=279.



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Tampa, FL 33610

Job 2449137	Truss T06	Truss Type Common	Qty 3	Ply 1	IC CONST. - WILKINSON RES. Job Reference (optional)	T21473170
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 2 10:25:06 2020 Page 1
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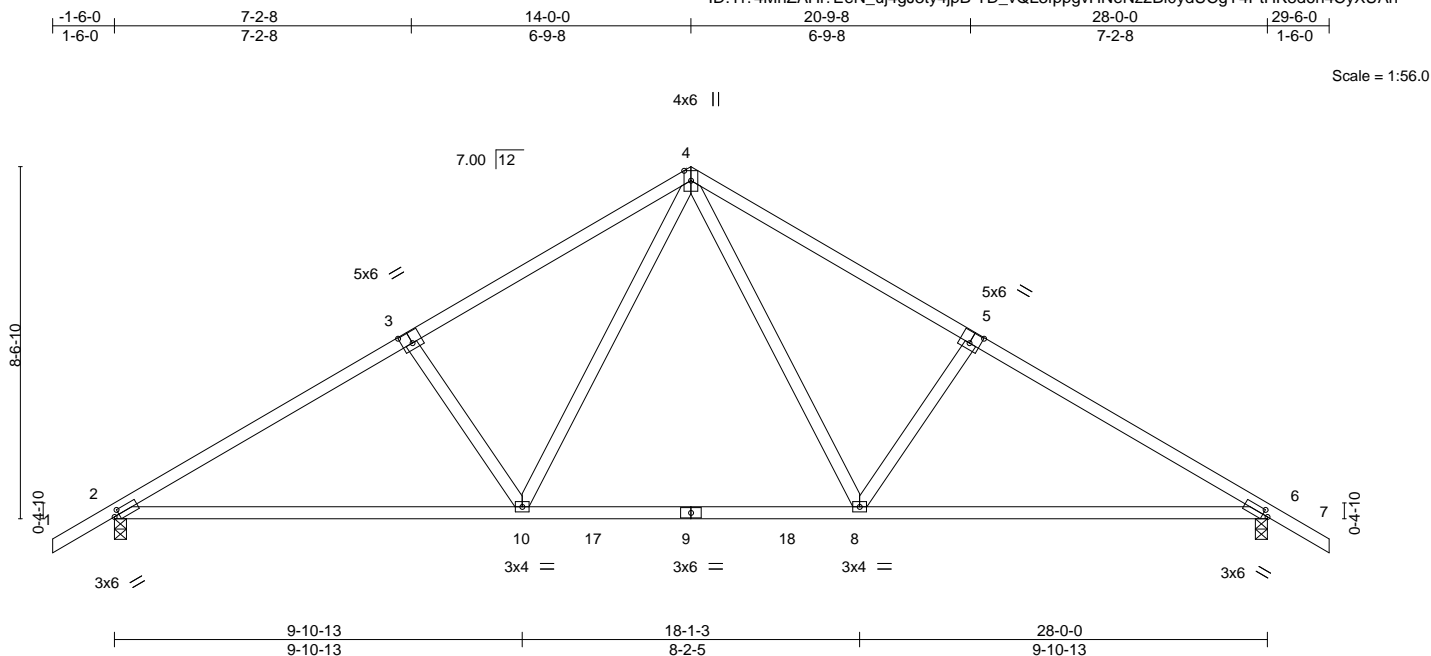


Plate Offsets (X,Y)-- [2:0-1-8,0-1-8], [3:0-3-0,0-3-4], [5:0-3-0,0-3-4], [6:0-1-8,0-1-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.25 8-10 >999 240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.46 8-16 >726 180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.05 6 n/a n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS				Weight: 136 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-8-15 oc bracing.

REACTIONS.

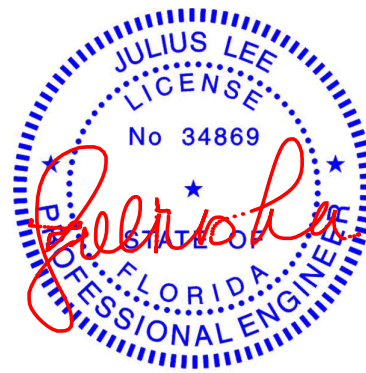
(size) 2=0-3-8, 6=0-3-8
Max Horz 2=282(LC 11)
Max Uplift 2=432(LC 12), 6=432(LC 13)
Max Grav 2=1120(LC 19), 6=1120(LC 20)

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

TOP CHORD 2-3=-1615/708, 3-4=-1478/721, 4-5=-1478/721, 5-6=-1615/708
BOT CHORD 2-10=-544/1522, 8-10=-204/979, 6-8=-471/1333
WEBS 4-8=-305/704, 5-8=-456/376, 4-10=-305/704, 3-10=-456/376

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=432, 6=432.



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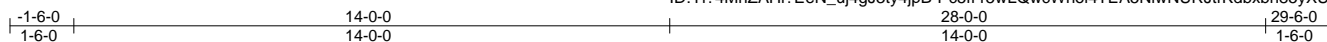
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WILKINSON RES.	T21473171
2449137	T06G	Common Supported Gable	1	1		
Job Reference (optional)						

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 2 10:25:08 2020 Page 1

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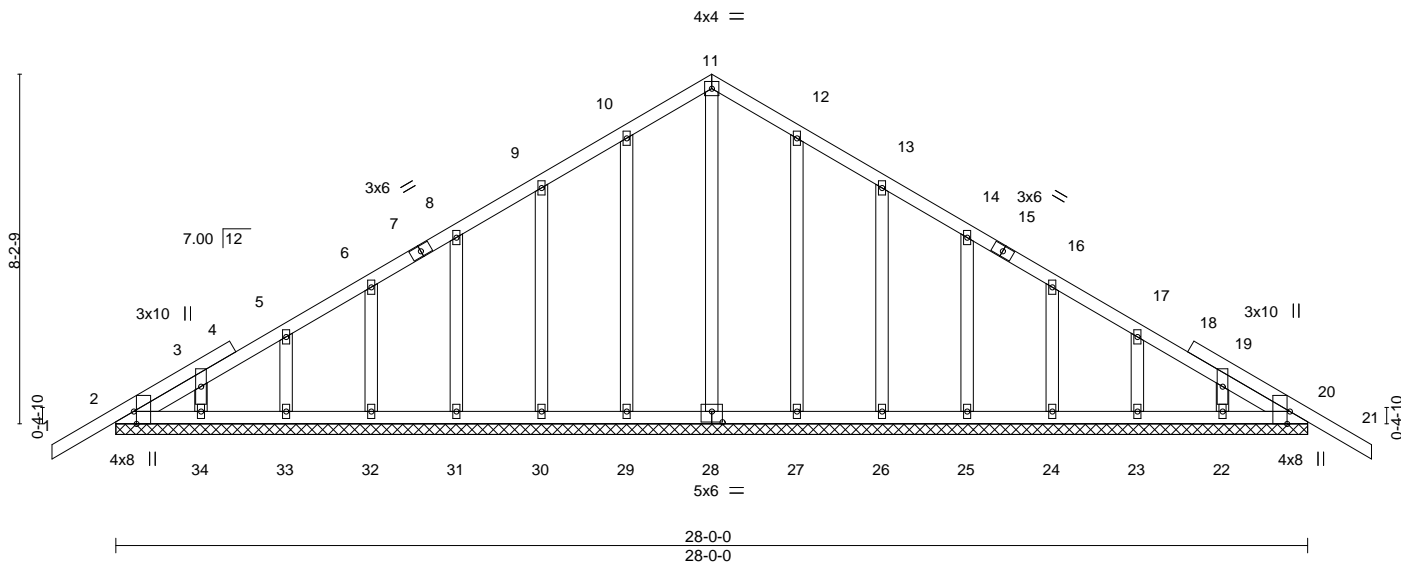


Plate Offsets (X,Y)--		[2:0-3-8,Edge], [20:0-3-8,Edge], [28:0-3-0,0-3-0]							
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	L/defl	L/d
TCLL	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	-0.01	21	n/r
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.01	21	n/r
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	20	n/a
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-S					
								PLATES	GRIP
								MT20	244/190
								Weight: 179 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 28-0-0.
(lb) - Max Horz 2=-271(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 33, 34, 27, 23, 22, 20 except 29=-101(LC 12), 30=-104(LC 12), 31=-101(LC 12), 32=-104(LC 12), 26=-105(LC 13), 25=-101(LC 13), 24=-103(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 28, 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23, 22, 20

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 10-11=-214/256, 11-12=-214/256

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 33, 34, 27, 23, 22, 20 except (jt=lb) 29=101, 30=104, 31=101, 32=104, 26=105, 25=101, 24=103.



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Date:

October 2,2020

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6904 Parke East Blvd.
Tampa, FL 33610

Job 2449137	Truss T07	Truss Type Piggyback Base	Qty 5	Ply 1	IC CONST. - WILKINSON RES.	T21473172
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,						8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 2 10:25:10 2020 Page 1
ID:YI?4MhZAHi?EeN_uj4gJ3ty4jpB-L_DQGj6At2AKm?x8CuGeBonBnluVLYcw3F4uDzyXUAd						Job Reference (optional)

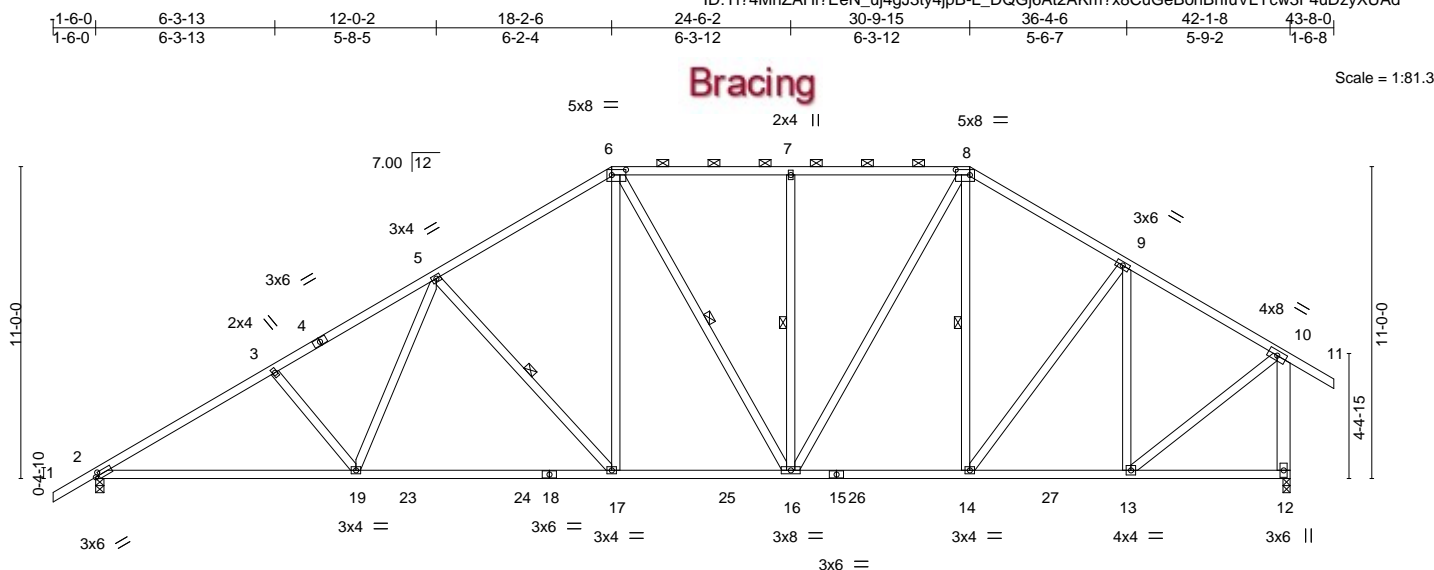


Plate Offsets (X,Y)--	9-2-2 9-2-2	18-2-6 9-0-4	24-6-2 6-3-12	30-9-15 6-3-12	36-4-6 5-6-7	42-1-8 5-9-2
	[2-0-1-8,0-1-8], [6-0-6-0,0-2-4], [8-0-6-0,0-2-4]					

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.47	Vert(LL)	-0.30 17-19	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.95	Vert(CT)	-0.51 17-19	>980	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.99	Horz(CT)	0.10 12	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS					Weight: 295 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-1-15 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-6 max.): 6-8.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 5-17, 6-16, 7-16, 8-14
10-12: 2x6 SP No.2	

REACTIONS.	(size) 2=0-3-8, 12=0-3-0
Max Horz 2=431(LC 11)	
Max Uplift 2=600(LC 12), 12=520(LC 13)	
Max Grav 2=1631(LC 1), 12=1662(LC 2)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2676/1176, 3-5=-2515/1163, 5-6=-1900/983, 6-7=-1560/924, 7-8=-1560/924, 8-9=-1519/841, 9-10=-1287/662, 10-12=-1613/820
BOT CHORD	2-19=-1113/2441, 17-19=-885/2036, 16-17=-616/1584, 14-16=-469/1252, 13-14=-451/1059
WEBS	3-19=-356/287, 5-19=-188/562, 5-17=-708/444, 6-17=-282/830, 6-16=-286/165, 7-16=-390/300, 8-16=-339/671, 9-14=-232/376, 9-13=-647/351, 10-13=-515/1313

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=600, 12=520.
 - 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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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WILKINSON RES.	T21473173
2449137	T07G	GABLE II	1	1		

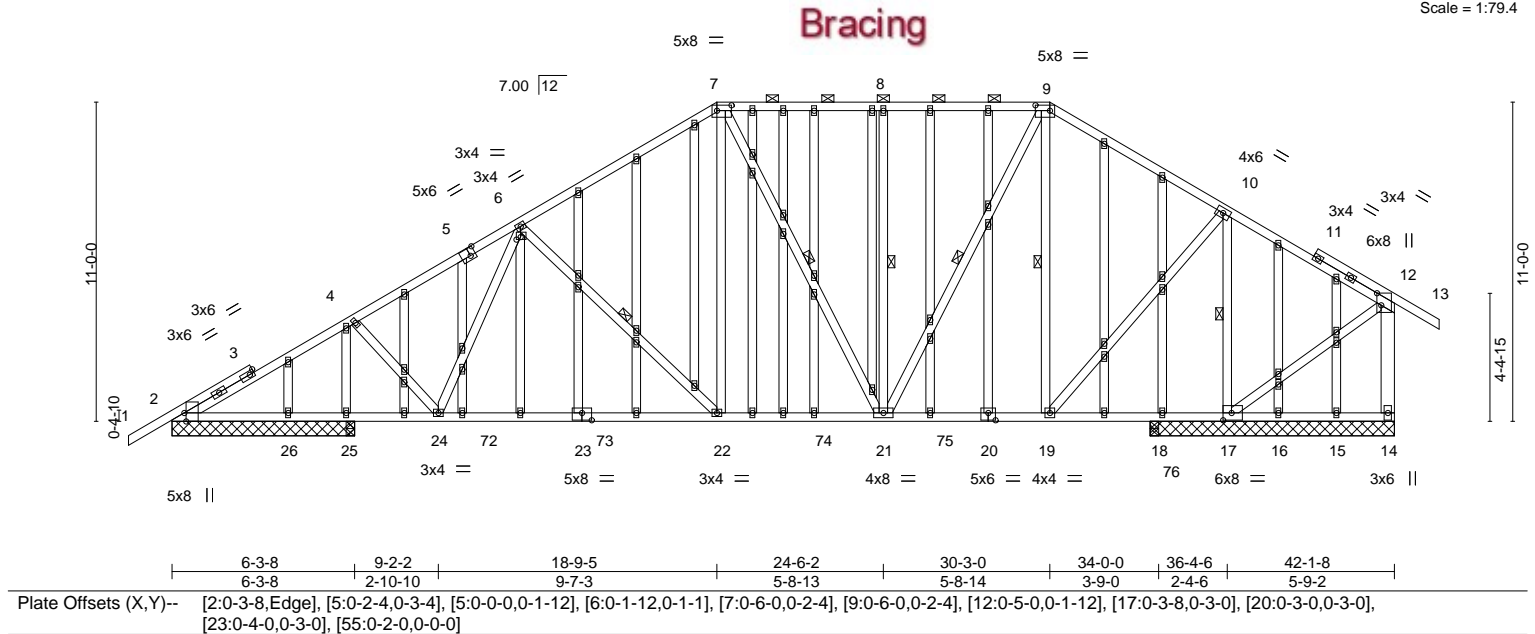
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 2 10:25:16 2020 Page 1

ID:YI?4MhZAH?EeN_uj4gJ3ty4jpB-A8ahWmBxSuxUUwPIY8N2Q319wiwhlVpRBXDRdyXUAX

1-6-0	6-3-13	12-0-2	18-9-5	24-6-2	30-3-0	36-4-6	42-1-8	43-8-0
1-6-0	6-3-13	5-8-5	6-9-3	5-8-13	5-8-14	6-1-6	5-9-2	1-6-8

Scale = 1:79.4



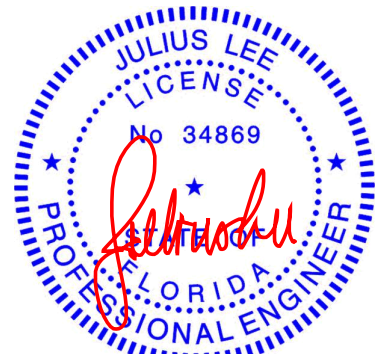
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.68	Vert(LL)	-0.32	22-24	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.97	Vert(CT)	-0.61	22-24	>546		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.84	Horz(CT)	0.06	18	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS					Weight: 501 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-0-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 6-22, 7-21, 8-21, 9-21, 9-19, 10-17
12-14: 2x6 SP No.2	
OTHERS 2x4 SP No.3	

REACTIONS.	All bearings 8-5-0 except (jt=length) 2=6-3-8, 26=6-3-8, 25=6-3-8, 25=6-3-8, 2=6-3-8.
(lb) - Max Horz	2=426(LC 11)
Max Uplift	All uplift 100 lb or less at joint(s) 26, 25 except 2=450(LC 12), 17=691(LC 12), 14=456(LC 25)
Max Grav	All reactions 250 lb or less at joint(s) 14, 15, 16, 18, 18, 26, 25, 25 except 2=1172(LC 19), 17=2036(LC 2), 2=1150(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=2035/891, 4-6=1892/861, 6-7=1253/688, 7-8=829/601, 8-9=829/601, 9-10=566/413, 10-12=237/583, 12-14=170/466
BOT CHORD	2-26=866/1985, 25-26=866/1985, 24-25=866/1985, 22-24=634/1546, 21-22=417/1055, 19-21=192/414, 18-19=506/353, 17-18=506/353
WEBS	4-24=379/294, 6-24=137/519, 6-22=701/437, 7-22=262/803, 7-21=575/237, 8-21=349/272, 9-21=414/901, 9-19=799/408, 10-19=489/1246, 10-17=1685/886, 12-17=551/353

NOTES-	
1) Unbalanced roof live loads have been considered for this design.	
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.	
4) Provide adequate drainage to prevent water ponding.	
5) All plates are 2x4 MT20 unless otherwise indicated.	
6) Gable studs spaced at 2-0-0 oc.	
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.	
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26, 25 except (jt=lb) 2=450, 17=691, 14=456, 2=450.	
10) 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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Date:

October 2,2020

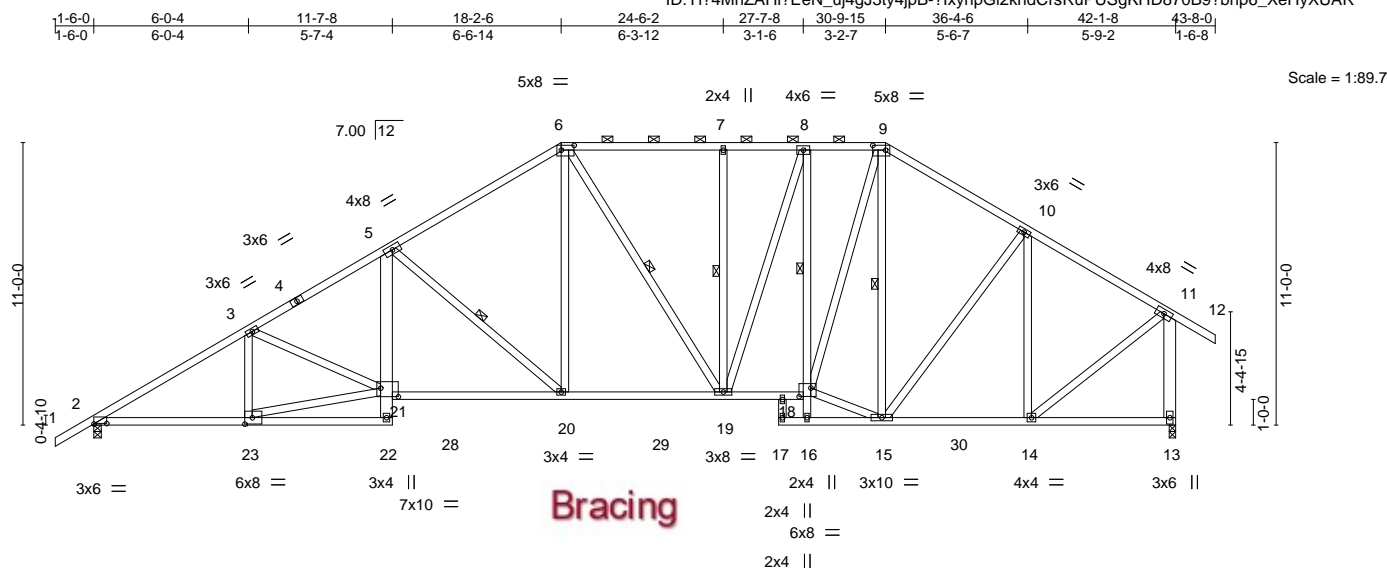
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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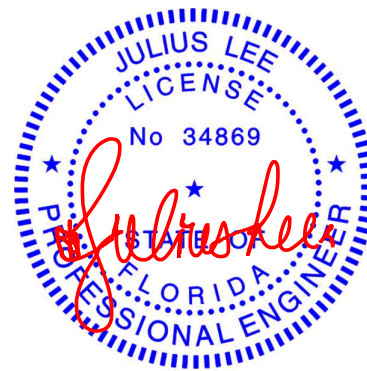
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 2 10:25:22 2020 Page 1
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[illegible]

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-3-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-6 max.): 6-9.
BOT CHORD	2x4 SP No.2 *Except* 5-22: 2x6 SP No.2, 8-16: 2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 5-6-14 oc bracing. Except:
WEBS	2x4 SP No.3 *Except* 11-13: 2x6 SP No.2	WEBS	1 Row at midpt 8-18 10-0-0 oc bracing: 16-18 1 Row at midpt 5-20, 6-19, 9-15, 7-19
REACTIONS. (size) 2=0-3-8, 13=0-3-0 Max Horz 2=431(LC 11) Max Uplift 2=597(LC 12), 13=516(LC 13) Max Grav 2=1638(LC 1), 13=1661(LC 1)			
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
TOP CHORD	2-3=-2703/1164, 3-5=-2754/1279, 5-6=-2029/1029, 6-7=-1656/958, 7-8=-1656/958, 8-9=-1536/897, 9-10=-1475/837, 10-11=-1261/658, 11-13=-1609/815		
BOT CHORD	2-23=-1108/2357, 5-21=-233/699, 20-21=-1104/2439, 19-20=-678/1673, 18-19=-612/1543, 8-18=-528/317, 14-15=-448/1026		
WEBS	3-23=-357/250, 21-23=-1011/2196, 5-20=-1056/562, 6-20=-294/855, 6-19=-282/168, 8-19=-229/435, 15-18=-476/1240, 9-18=-487/1132, 9-15=-608/341, 10-15=-226/361, 10-14=-653/352, 11-14=-512/1268, 7-19=-328/251		

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=597, 13=516.
- 7) 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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Date:

October 2, 2020



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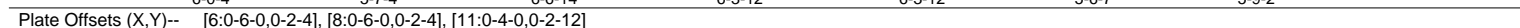
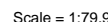


6904 Parke East Blvd.
Tampa, FL 36610

T21473175

Job Reference (optional)

ID:YI?4MhZAHi?EeN uj4qJ3ty4jpB-TVVK 9GKp1pUg ReS6?hCXgPQXSzyWCg2mj4AivXUAQ



TOP CHORD	Structural wood sheathing directly applied or 5-6-2 oc purlins, except end verticals, and 2-0-0 oc purlins (5-9-12 max.): 6-8.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 17-18 9-7-8 oc bracing: 12-14.	
WEBS	1 Row at midpt	6-17, 7-15

All bearings 11-7-8 except (jt=length) 11=0-3-0.
 Max Horz 2=402(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 19 except 18=445(LC 9), 20=162(LC 12), 11=359(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 19, 19 except 2=319(LC 23), 18=1345(LC 2), 20=340(LC 23),
 11=1098(LC 1), 2=316(LC 1)

TOP CHORD 2-3=-293/194, 3-5=-263/254, 5-6=-806/520, 6-7=-891/638, 7-8=-891/638,
8-9=-1040/625, 9-10=-987/515, 10-11=-1054/512

BOT CHORD 5-18=-1235/661, 15-17=-259/618, 14-15=-327/842, 12-14=-378/809

WEBS 5-17=-280/856, 6-17=-373/221, 6-15=-256/538, 7-15=-391/300, 8-14=-86/294,
9-12=-351/237, 10-12=-361/867

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) n/a
- 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) Bearing at joint(s) 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 2 except (jt=lb) 18=445, 20=162, 11=359.
- 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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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WILKINSON RES.	T21473176
2449137	T10	Piggyback Base	5	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 2 10:25:25 2020 Page 1

ID:YI?4MhZAHi?EeN_uj4gJ3ty4jpB-Ptd5PriaKf3C3lb0aX19lyvI5L66MP97W4CBFcyXUAO

1-6-0	4-8-10	9-1-12	15-10-6	22-2-2	28-5-15	34-0-6	39-9-8	41-4-0
1-6-0	4-8-10	4-5-2	6-8-10	6-3-12	6-3-12	5-6-7	5-9-2	1-6-8

Scale = 1:73.9

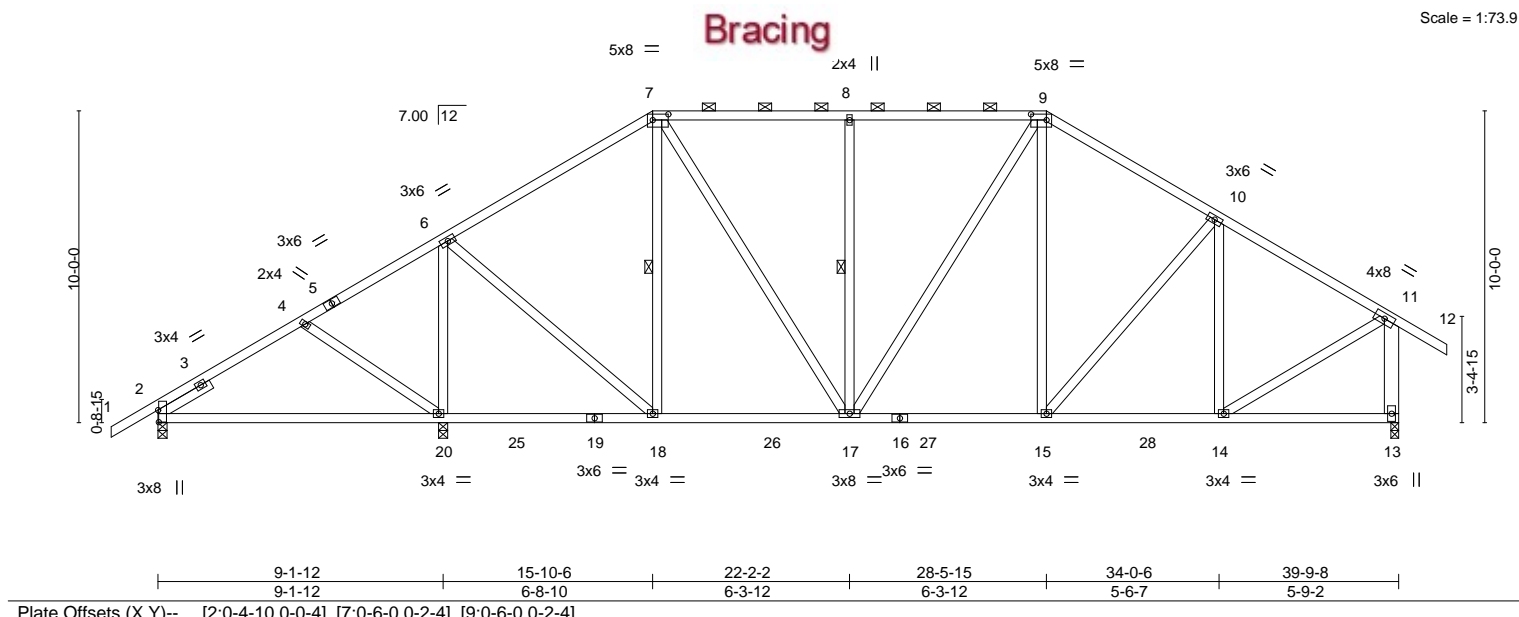


Plate Offsets (X, Y)--		[2:0-4-10,0-0-4], [7:0-6-0,0-2-4], [9:0-6-0,0-2-4]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.46	Vert(LL)	0.22 20-23	>489	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.56	Vert(CT)	-0.23 20-23	>480	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.74	Horz(CT)	0.03 13	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS					Weight: 275 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 11-13: 2x6 SP No.2
 SLIDER Left 2x4 SP No.3 1-11-18

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-6 oc purlins, except end verticals, and 2-0-0 oc purlins (5-8-12 max.): 7-9.
 BOT CHORD Rigid ceiling directly applied or 8-2-2 oc bracing.
 WEBS 1 Row at midpt 7-18, 8-17

REACTIONS.

(size) 2=0-3-8, 20=0-3-8, 13=0-3-0
 Max Horz 2=378(LC 11)
 Max Uplift 2=-158(LC 12), 20=-516(LC 12), 13=-426(LC 13)
 Max Grav 2=438(LC 23), 20=1471(LC 2), 13=1225(LC 1)

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

TOP CHORD 2-4=-647/739, 4-6=-182/304, 6-7=-835/574, 7-8=-917/682, 8-9=-917/682,
 9-10=-1062/662, 10-11=-1022/557, 11-13=-1173/649
 BOT CHORD 2-20=-380/316, 17-18=-322/647, 15-17=-299/862, 14-15=-351/831
 WEBS 4-20=-270/270, 6-20=-1153/441, 6-18=-139/790, 7-18=-359/149, 7-17=-270/531,
 8-17=-391/300, 9-15=-98/305, 10-14=-344/224, 11-14=-372/937

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=158, 20=516, 13=426.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Julius Lee PE No.34869
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

October 2,2020

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6904 Parke East Blvd.
 Tampa, FL 33610

Job 2449137	Truss T10D	Truss Type PIGGYBACK BASE	Qty 4	Ply 1	IC CONST. - WILKINSON RES. T21473177
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,					

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 2 10:25:26 2020 Page 1

ID:YI?4MhZAHi?EeN_uj4gJ3ty4jpB-t3BTdBJC5yB3hSAD7FYQq9SwpkSN5sFHkkykn2yXUAN

1-6-0	4-8-10	9-1-12	15-10-6	22-2-2	28-5-15	34-0-6	39-4-0	39-9-8
1-6-0	4-8-10	4-5-2	6-8-10	6-3-12	6-3-12	5-6-7	5-3-10	0-5-8

Bracing

Scale = 1:74.1

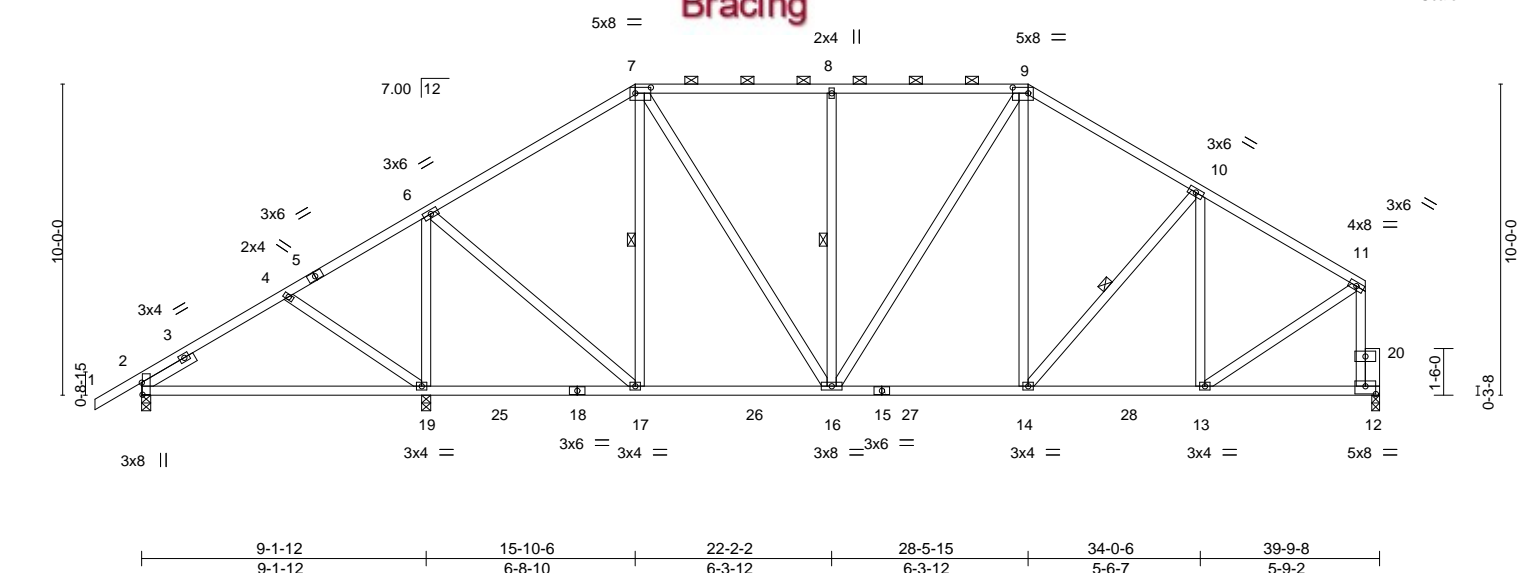


Plate Offsets (X,Y)--										[2-0-4-10,0-0-4], [7:0-6-0,0-2-4], [9:0-6-0,0-2-4], [12:0-4-0,0-3-0]									
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL 20.0		Plate Grip DOL		1.25		TC 0.47		Vert(LL)		0.23 19-23		>487		240		MT20		244/190	
TCDL 7.0		Lumber DOL		1.25		BC 0.56		Vert(CT)		-0.23 19-23		>479		180					
BCLL 0.0 *		Rep Stress Incr		YES		WB 0.75		Horz(CT)		0.03 12		n/a		n/a					
BCDL 10.0		Code FBC2017/TPI2014				Matrix-MS										Weight: 271 lb		FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
11-12: 2x4 SP No.2
OTHERS 2x6 SP No.2
SLIDER Left 2x4 SP No.3 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-10 oc purlins, except
2-0-0 oc purlins (5-8-12 max.): 7-9.
BOT CHORD Rigid ceiling directly applied or 8-1-7 oc bracing.
WEBS 1 Row at midpt 7-17, 8-16, 10-14

REACTIONS.

(size) 2=0-3-8, 19=0-3-8, 12=0-3-0
Max Horz 2=315(LC 12)
Max Uplift 2=167(LC 9), 19=544(LC 12), 12=352(LC 13)
Max Grav 2=431(LC 23), 19=1486(LC 2), 12=1104(LC 2)

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

TOP CHORD 2-4=-646/738, 6-7=-829/536, 7-8=-915/650, 8-9=-915/650, 9-10=-1064/628,
10-11=-1005/497
BOT CHORD 2-19=-384/278, 16-17=-280/641, 14-16=-311/862, 13-14=-365/840
WEBS 4-19=-277/272, 6-19=-1167/466, 6-17=-164/803, 7-17=-368/163, 7-16=-272/538,
8-16=-391/301, 9-14=-101/306, 10-13=-349/244, 11-12=-1062/523, 11-13=-370/871

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical right exposed; porch left exposed; C-C for members and MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=167, 19=544, 12=352.
- 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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Date:

October 2,2020

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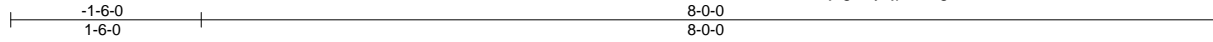
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WILKINSON RES.	T21473180
2449137	T12	MONO TRUSS	15	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 2 10:25:34 2020 Page 1
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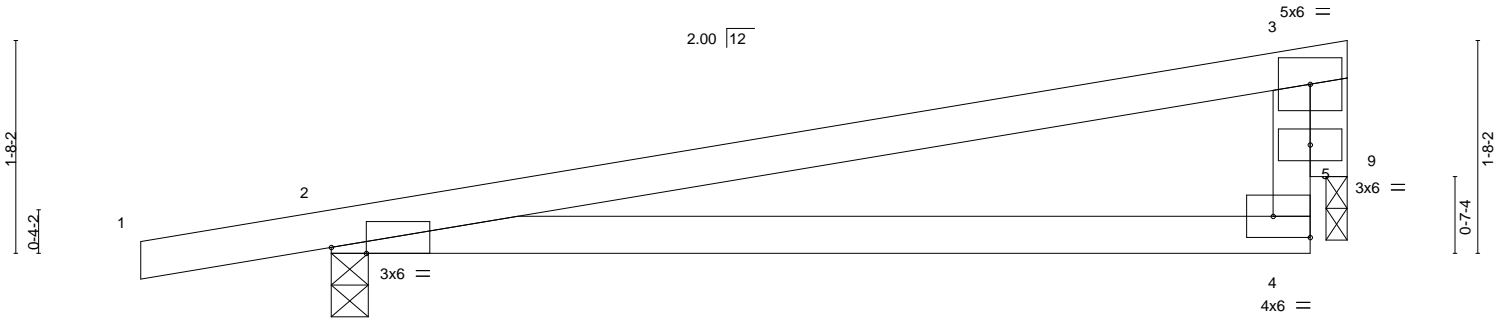


Plate Offsets (X,Y)--		[2:0-3-5,Edge], [4:Edge,0-2-0]		8-0-0 8-0-0	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	PLATES GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.64	in (loc) l/defl L/d	MT20 244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.63	Vert(LL) 0.28 4-8 >342 240	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.46	Vert(CT) 0.24 4-8 >401 180	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MR	Horz(CT) -0.01 2 n/a n/a	
				Weight: 29 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-3-5 oc bracing.

REACTIONS.

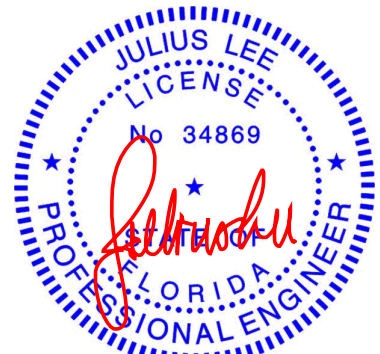
(size) 2=0-3-8, 9=0-2-0
Max Horz 2=78(LC 8)
Max Uplift 2=-314(LC 8), 9=-204(LC 8)
Max Grav 2=381(LC 1), 9=260(LC 1)

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

TOP CHORD 2-3=-304/432
BOT CHORD 2-4=-467/284
WEBS 3-9=-317/507

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=314, 9=204.



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

October 2,2020

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6904 Parke East Blvd.
Tampa, FL 33610

T21473181

Job Reference (optional)

$$\begin{array}{r} -1-6-0 \\ \hline 1-6-0 \end{array}$$
$$\begin{array}{r} 8-0-0 \\ \hline 8-0-0 \end{array}$$

Scale = 1:17.6



LUMBER	BRACING

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2'-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" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=224, 5=133.



October 2, 2020



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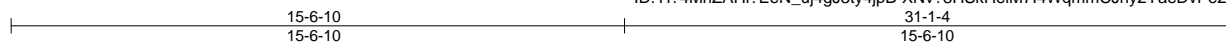
Job 2449137	Truss V01	Truss Type Valley	Qty 1	Ply 1	IC CONST. - WILKINSON RES. Job Reference (optional)	T21473182
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Builders FirstSource (Jacksonville, FL),

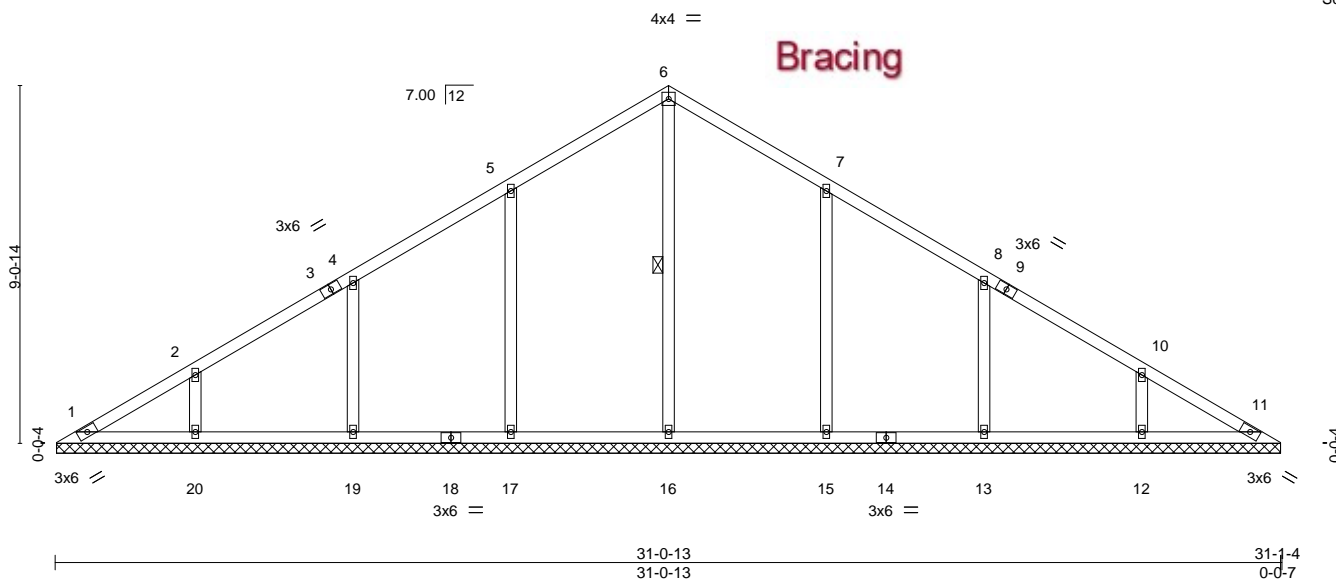
Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 2 10:25:38 2020 Page 1

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Scale = 1:58.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.16	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.18	Vert(CT)	n/a	-	n/a	999	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.22	Horz(CT)	0.01	11	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-S						
								Weight: 145 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-16

REACTIONS.

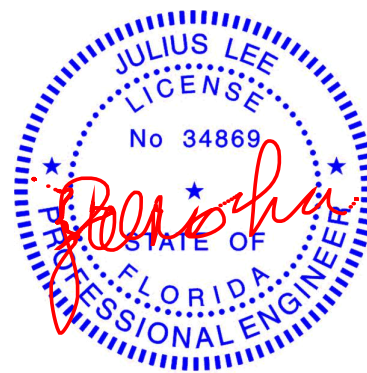
All bearings 31-0-7.
(lb) - Max Horz 1=-273(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 11 except 17=-219(LC 12), 19=-201(LC 12), 20=-199(LC 12), 15=-219(LC 13), 13=-202(LC 13), 12=-199(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 11 except 16=393(LC 22), 17=474(LC 19), 19=384(LC 19), 20=310(LC 19), 15=473(LC 20), 13=385(LC 20), 12=310(LC 20)

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

TOP CHORD 5-6=-233/261, 6-7=-233/257
WEBS 5-17=-274/243, 4-19=-260/227, 2-20=-250/217, 7-15=-274/242, 8-13=-260/227, 10-12=-250/217

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11 except (jt=lb) 17=219, 19=201, 20=199, 15=219, 13=202, 12=199.



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6904 Parke East Blvd. Tampa FL 33610
Date:

October 2,2020

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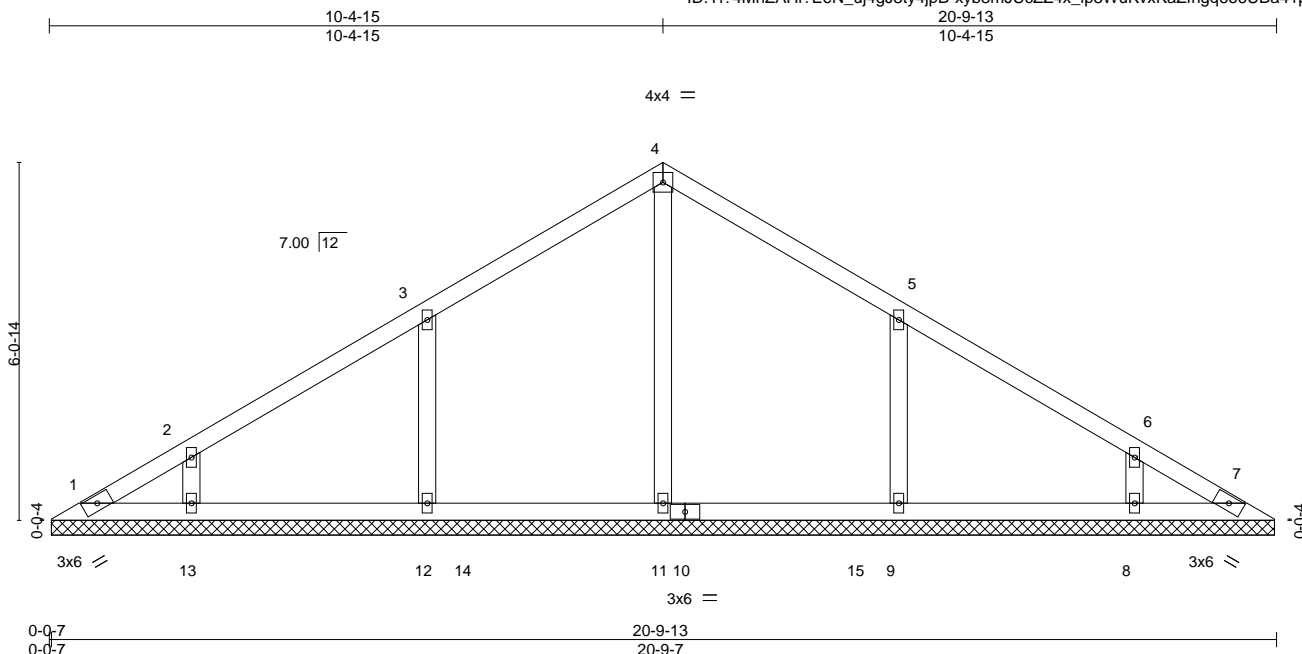
Job 2449137	Truss V03	Truss Type Valley	Qty 1	Ply 1	IC CONST. - WILKINSON RES. Job Reference (optional)	T21473184
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Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 2 10:25:41 2020 Page 1

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Scale = 1:39.1

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 0.17	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.18	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-S					Weight: 85 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 20-9-0.
(lb) - Max Horz 1=179(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=227(LC 12), 13=166(LC 12), 9=227(LC 13),
8=166(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=371(LC 19), 12=396(LC 19), 13=261(LC 19),
9=396(LC 20), 8=261(LC 20)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-12=-284/252, 5-9=-284/252

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl.,
GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions
shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb)
12=227, 13=166, 9=227, 8=166.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

October 2,2020

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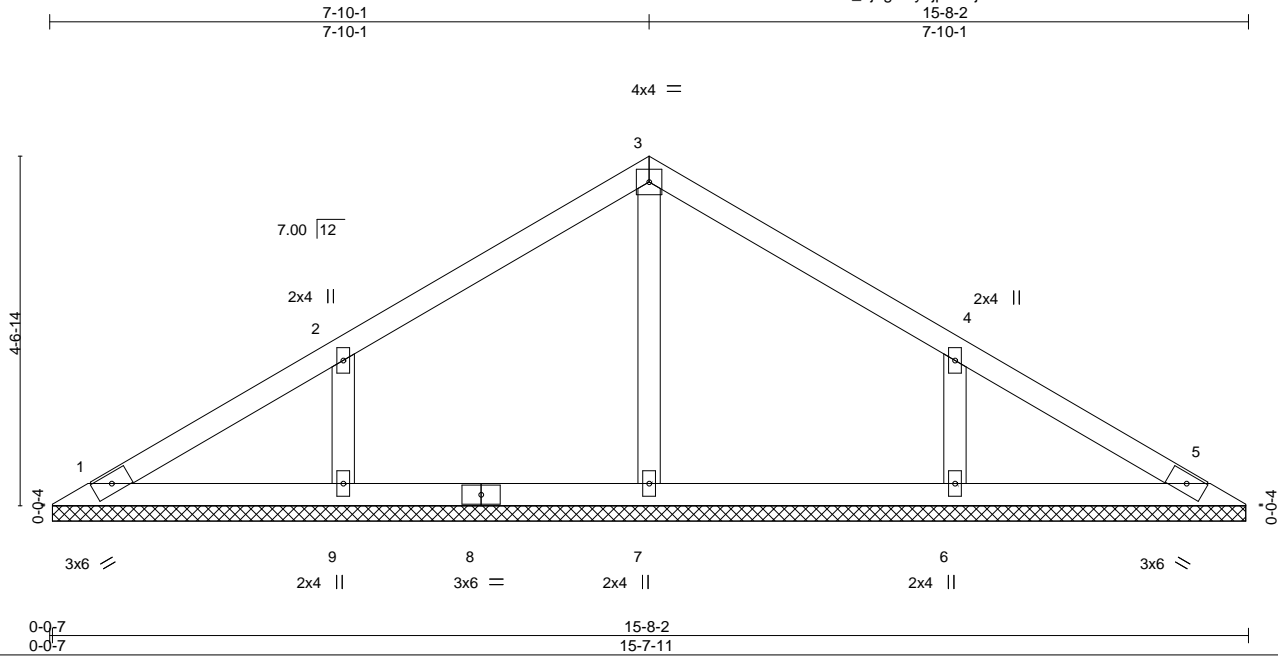


6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WILKINSON RES.	T21473185
2449137	V04	Valley	1	1	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 2 10:25:43 2020 Page 1
ID:YI?4MhZAHi?EeN_uj4gJ3ty4jpB-tLjuB?Wt5BKfD3zUdJMN0lfvibMRai6netZ8uZyXUA6



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 0.16	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.11	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-S					Weight: 59 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

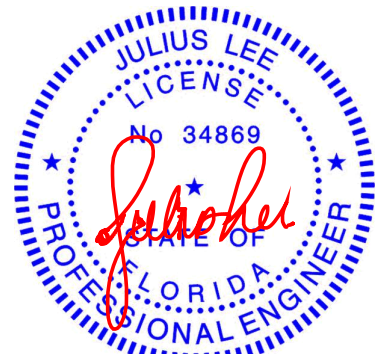
- All bearings 15-7-4.
(lb) - Max Horz 1=133(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 7 except 9=224(LC 12), 6=224(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 9=351(LC 19), 6=351(LC 20)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-278/243, 4-6=-278/243

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 7 except (jt=lb) 9=224, 6=224.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

October 2,2020

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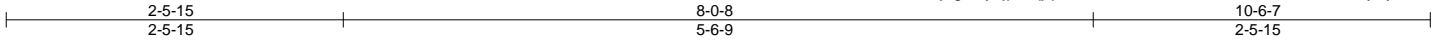
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WILKINSON RES.	T21473186
2449137	V05	Valley	1	1	Job Reference (optional)	

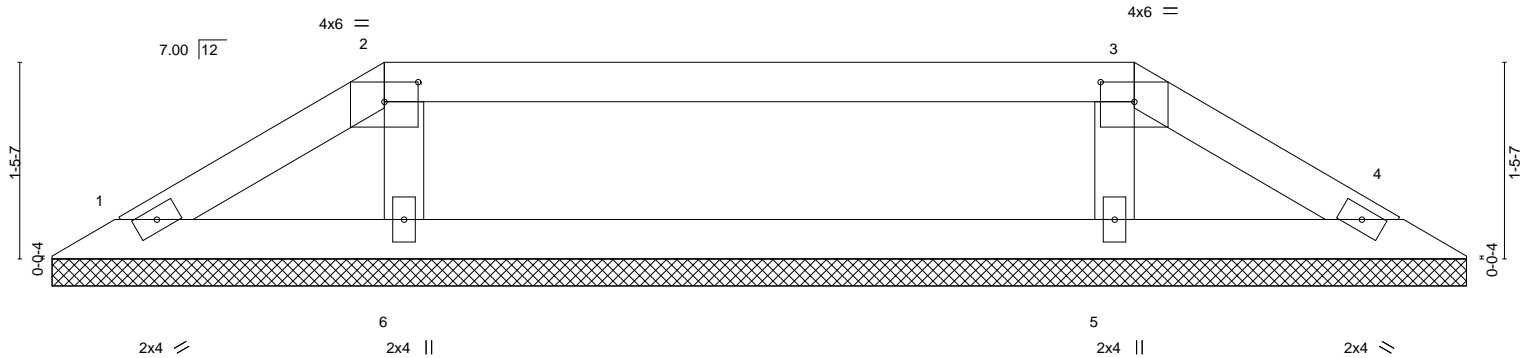
Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 2 10:25:45 2020 Page 1
ID:YI?4MhZAHi?EeN_uj4gJ3ty4jpB-qjqfchY7dobMTN7slkOr5AkB9P152dn46B2FySyXUA4



Scale = 1:17.0



0-0-7	2-5-15	10-6-7
0-0-7	2-5-8	8-0-8
Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [3:0-3-0,0-1-12]		
LOADING (psf)	SPACING-	CSL.
TCLL 20.0	2-0-0	TC 0.33
TCDL 7.0	Plate Grip DOL 1.25	BC 0.16
BCLL 0.0 *	Lumber DOL 1.25	WB 0.06
BCDL 10.0	Rep Stress Incr YES	Matrix-S
	Code FBC2017/TPI2014	
		DEFL.
		in (loc) l/defl L/d
		Vert(LL) n/a - n/a 999
		Vert(CT) n/a - n/a 999
		Horz(CT) -0.00 4 n/a n/a
		PLATES GRIP
		MT20 244/190
		Weight: 33 lb FT = 20%

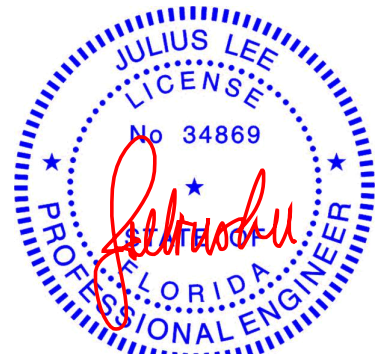
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 10-5-9.
(lb) - Max Horz 1=-36(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 4 except 5=-118(LC 8), 6=-127(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 1, 4 except 5=313(LC 24), 6=313(LC 23)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=118, 6=127.



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October 2,2020

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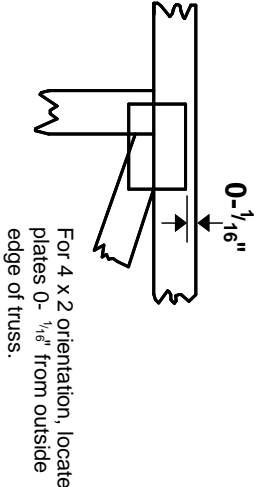
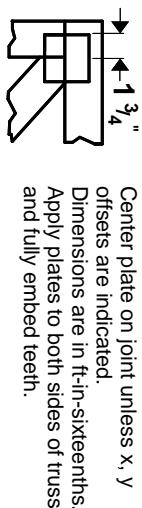
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Symbols

PLATE LOCATION AND ORIENTATION



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

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

PLATE SIZE

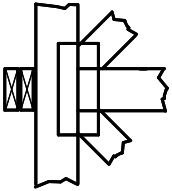
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

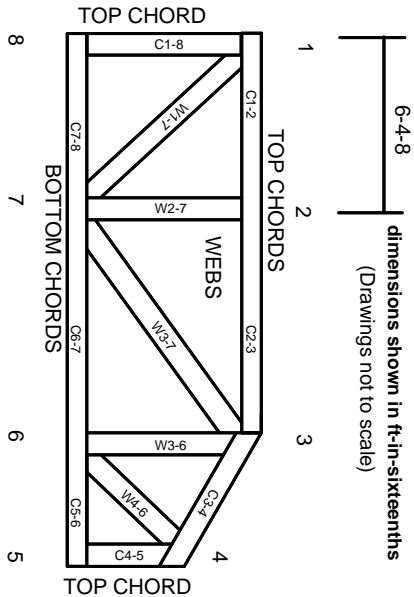
BEARING



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

Industry Standards:
ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:
ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.