



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

RE: 2830724 - WCH - SPEICHER RES.

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

**Site Information:**

Customer Info: Wade Custom Homes Project Name: Speicher Res. Model: Custom  
Lot/Block: 37 Subdivision: Foxwood  
Address: TBD SW Bryce Terrace, TBD  
City: Columbia Cty State: FL

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

Name: License #:  
Address:  
City: State:

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

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

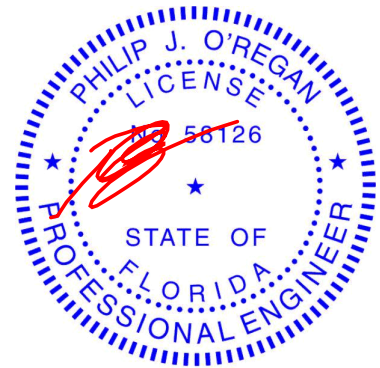
This package includes 21 individual, Truss Design Drawings and 0 Additional Drawings.  
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T24345574	T01	6/16/21
2	T24345575	T01G	6/16/21
3	T24345576	T02	6/16/21
4	T24345577	T03	6/16/21
5	T24345578	T03G	6/16/21
6	T24345579	T04	6/16/21
7	T24345580	T04G	6/16/21
8	T24345581	T05	6/16/21
9	T24345582	T05G	6/16/21
10	T24345583	T06	6/16/21
11	T24345584	T07	6/16/21
12	T24345585	T08	6/16/21
13	T24345586	T09	6/16/21
14	T24345587	V01	6/16/21
15	T24345588	V02	6/16/21
16	T24345589	V03	6/16/21
17	T24345590	V04	6/16/21
18	T24345591	V05	6/16/21
19	T24345592	V06	6/16/21
20	T24345593	V07	6/16/21
21	T24345594	V08	6/16/21

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

Truss Design Engineer's Name: ORegan, Philip  
My license renewal date for the state of Florida is February 28, 2023.

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



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

June 16,2021

Job 2830724	Truss T01	Truss Type Common	Qty 4	Ply 1	WCH - SPEICHER RES. Job Reference (optional)	T24345574
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-RvfD\_nYqtWJ0V/Ln3nxt\_h0RcyeROXUKWgBYLutz643Z

1-0-0 5-9-0 12-3-0 18-9-0 24-6-0 25-6-0  
1-0-0 5-9-0 6-6-0 6-6-0 5-9-0 1-0-0

4x6 ||

Scale = 1:54.1

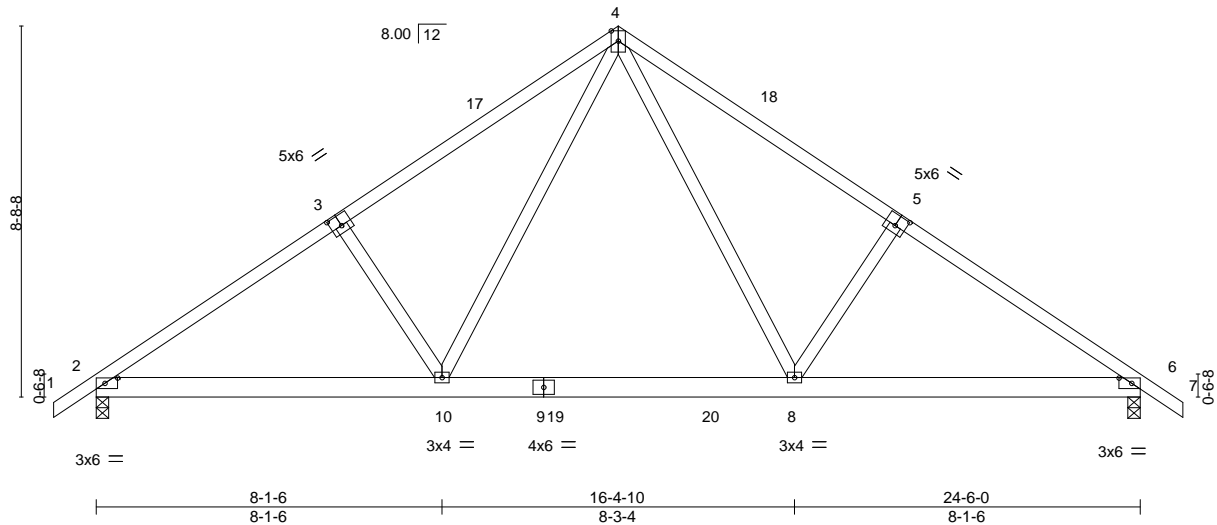


Plate Offsets (X,Y)-- [2:0-3-9,0-1-8], [3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [6:0-3-9,0-1-8]

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 0.67	Vert(LL)	-0.14	8-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.70	Vert(CT)	-0.26	8-10	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.41	Horz(CT)	0.03	6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 144 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-6-3 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

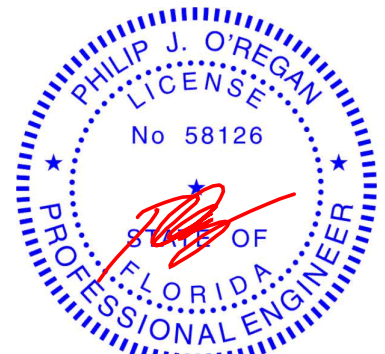
**REACTIONS.** (size) 2=0-3-8, 6=0-3-8  
Max Horz 2=-195(LC 10)  
Max Uplift 2=-267(LC 12), 6=-267(LC 13)  
Max Grav 2=1336(LC 19), 6=1336(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1935/395, 3-4=-1816/433, 4-5=-1816/433, 5-6=-1935/395  
BOT CHORD 2-10=-367/1688, 8-10=-137/1090, 6-8=-242/1549  
WEBS 4-8=-248/974, 5-8=-310/227, 4-10=-248/974, 3-10=-309/227

- 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 2-0-0, Interior(1) 2-0-0 to 12-3-0, Exterior(2R) 12-3-0 to 15-3-0, Interior(1) 15-3-0 to 25-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=267, 6=267.
  - 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

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



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Date:

June 16,2021

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

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

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

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



6904 Parke East Blvd.  
Tampa, FL 36610

Job 2830724	Truss T01G	Truss Type Common Supported Gable	Qty 1	Ply 1	WCH - SPEICHER RES. T24345575
Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 09:52:12 2021 Page 1 ID:7R_b7AxUtIWB3tgOsRwB2?zWJEt-NlmzOTZ4P7ZklfwSvMvSnRW61RGF?TLp7V1Sylz643X					

1-0-0 12-3-0 24-6-0 25-6-0  
1-0-0 12-3-0 12-3-0 1-0-0

4x4 =

Scale = 1:55.5

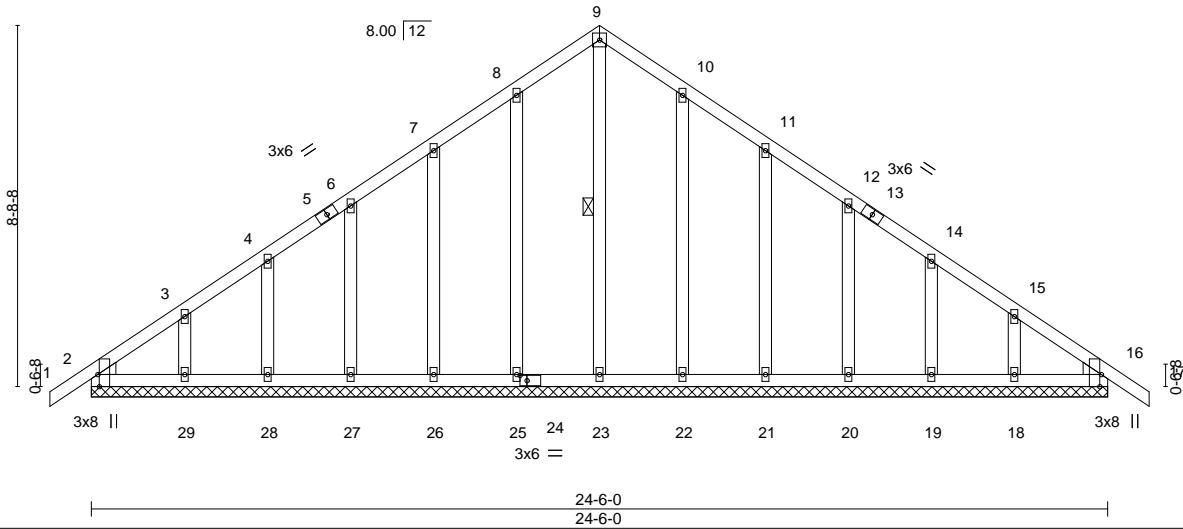


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [16:0-3-8,Edge], [24:0-2-0,0-1-8]

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 0.06	Vert(LL)	-0.00	17	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	-0.00	17	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.01	16	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 160 lb	FT = 20%

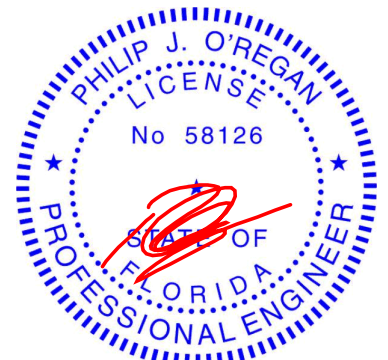
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3  
WEDGE  
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 9-23

**REACTIONS.** All bearings 24-6-0.  
(lb) - Max Horz 2=195(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 26, 27, 28, 29, 22, 21, 20, 19, 18, 16  
Max Grav All reactions 250 lb or less at joint(s) 2, 23, 25, 26, 27, 28, 29, 22, 21, 20, 19, 18, 16

**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 7-16; 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 2-3-0, Exterior(2N) 2-3-0 to 12-3-0, Corner(3R) 12-3-0 to 15-3-0, Exterior(2N) 15-3-0 to 25-6-0 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.
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 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, 25, 26, 27, 28, 29, 22, 21, 20, 19, 18, 16.



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Date:

June 16,2021

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



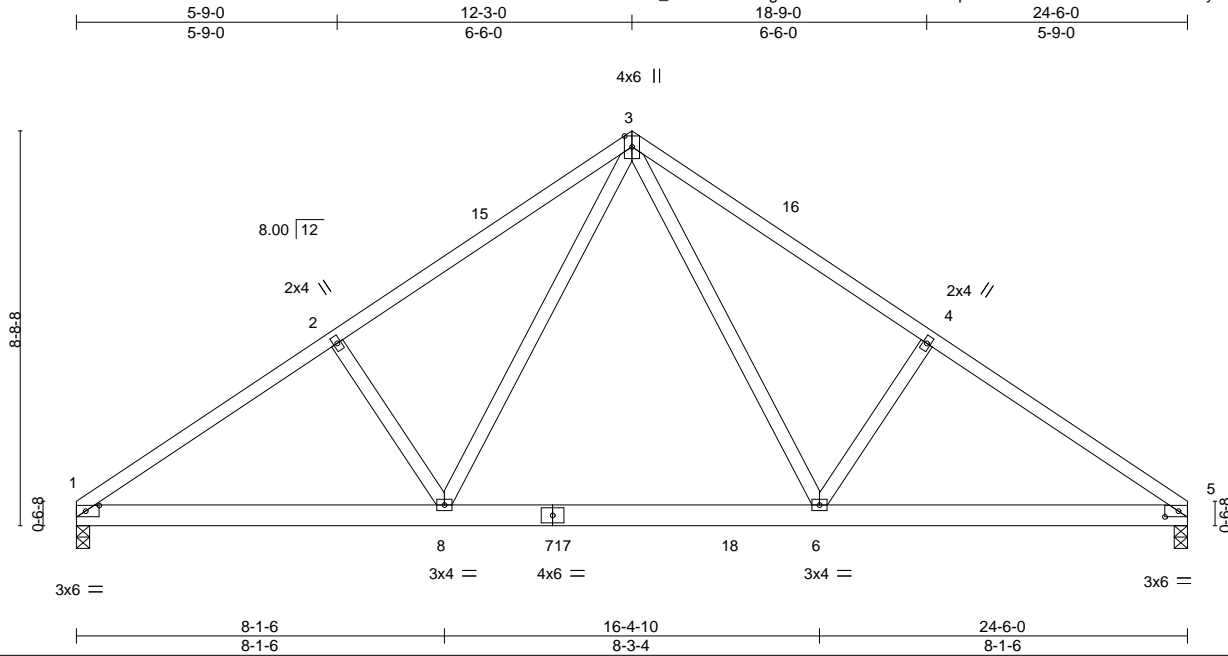
6904 Parke East Blvd.  
Tampa, FL 36610

Job 2830724	Truss T02	Truss Type Common	Qty 6	Ply 1	WCH - SPEICHER RES. Job Reference (optional)	T24345576
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

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Scale = 1:50.8

Plate Offsets (X,Y)-- [1:0-3-9,0-1-8], [5:0-3-9,0-1-8]

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 0.67	Vert(LL)	-0.14	6-8	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.70	Vert(CT)	-0.26	6-8	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.41	Horz(CT)	0.03	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 141 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-6-3 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 1=0-3-8, 5=0-3-8  
Max Horz 1=180(LC 8)  
Max Uplift 1=246(LC 12), 5=246(LC 13)  
Max Grav 1=1286(LC 19), 5=1286(LC 20)

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

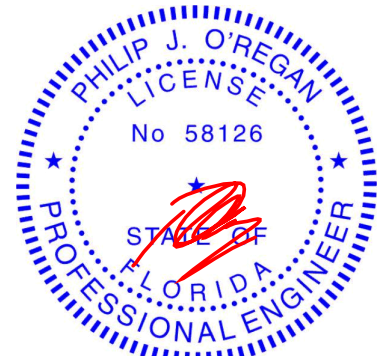
TOP CHORD 1-2=1941/398, 2-3=1822/436, 3-4=1822/436, 4-5=1941/398  
BOT CHORD 1-8=380/1687, 6-8=148/1086, 5-6=261/1552  
WEBS 3-6=250/978, 4-6=311/228, 3-8=250/978, 2-8=311/228

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 12-3-0, Exterior(2R) 12-3-0 to 15-3-0, Interior(1) 15-3-0 to 24-6-0 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.
- 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) 1=246, 5=246.
- 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: 1-3=54, 3-5=54, 8-9=20, 6-8=80(F=60), 6-12=20



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

June 16,2021

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

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

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



6904 Parke East Blvd.  
Tampa, FL 36610

Job 2830724	Truss T03	Truss Type Common	Qty 6	Ply 1	WCH - SPEICHER RES. T24345577
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

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Job Reference (optional)

1-0-0 6-7-9 12-5-10 18-2-0 23-10-6 29-8-7 36-4-0 37-4-0  
1-0-0 6-7-9 5-10-1 5-8-6 5-8-6 5-10-1 6-7-9 1-0-0

Scale: 3/16"=1'

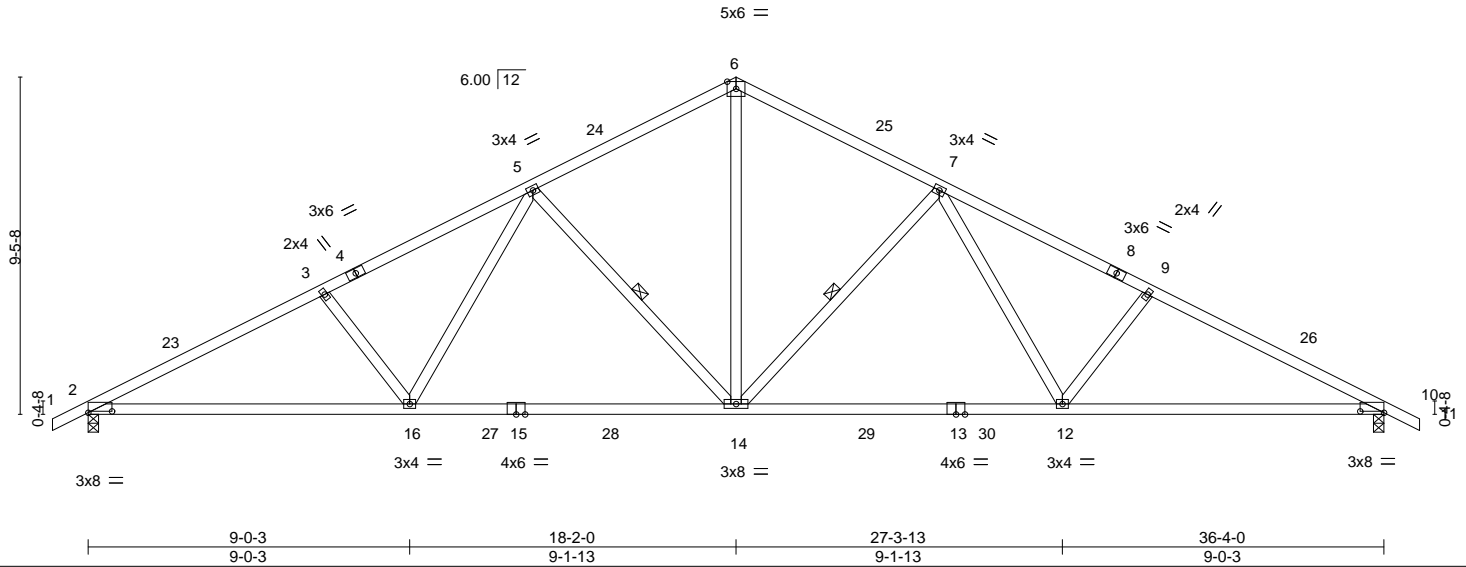


Plate Offsets (X,Y)-- [2:0-8-0,0-0-7], [10:0-8-0,0-0-7]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.49	Vert(LL)	-0.25 12-14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.43	Vert(CT)	-0.42 12-14	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.09 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 188 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-0-5 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 7-14, 5-14

**REACTIONS.** (size) 2=0-3-8, 10=0-3-8  
Max Horz 2=142(LC 12)  
Max Uplift 2=300(LC 12), 10=300(LC 13)  
Max Grav 2=1530(LC 2), 10=1530(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2754/515, 3-5=-2601/504, 5-6=-1776/411, 6-7=-1776/411, 7-9=-2601/504,  
9-10=-2754/515  
BOT CHORD 2-16=-520/2430, 14-16=-346/1957, 12-14=-254/1957, 10-12=-378/2430  
WEBS 6-14=-229/1301, 7-14=-636/271, 7-12=-123/659, 9-12=-315/194, 5-14=-636/271,  
5-16=-123/659, 3-16=-315/194

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-7-10, Interior(1) 2-7-10 to 18-2-0, Exterior(2R) 18-2-0 to 21-9-10, Interior(1) 21-9-10 to 37-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=300, 10=300.



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

June 16,2021

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

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6904 Parke East Blvd.  
Tampa, FL 36610



Job 2830724	Truss T03G	Truss Type Common Supported Gable	Qty 1	Ply 1	WCH - SPEICHER RES. Job Reference (optional)	T24345578
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

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ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-G30UErbTM4ADGED8C\_OxHhms2eDxHWP27?i5Xz643T

1-0-0 18-2-0 36-4-0 37-4-0  
1-0-0 18-2-0 18-2-0 1-0-0

Scale: 3/16"=1'

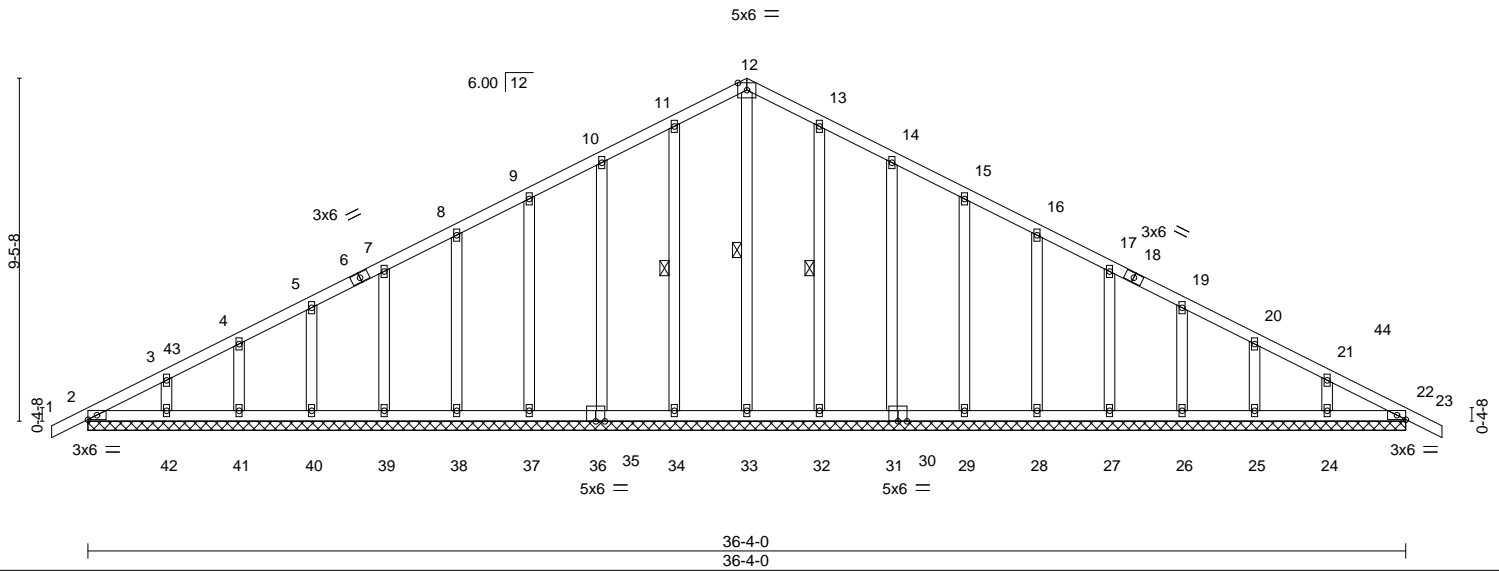


Plate Offsets (X,Y)-- [22:0-2-15,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.07	Vert(LL)	-0.00	23	n/r	120	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	-0.00	23	n/r	120	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.01	22	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						
								Weight: 236 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 12-33, 11-34, 13-32

**REACTIONS.** All bearings 36-4-0.  
(lb) - Max Horz 2=142(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 34, 35, 37, 38, 39, 40, 41, 42, 32, 31, 29, 28, 27, 26, 25, 24, 22  
Max Grav All reactions 250 lb or less at joint(s) 2, 33, 34, 35, 37, 38, 39, 40, 41, 42, 32, 31, 29, 28, 27, 26, 25, 24, 22

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 11-12=93/259, 12-13=93/259

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-0-0 to 2-7-10, Exterior(2N) 2-7-10 to 18-2-0, Corner(3R) 18-2-0 to 21-9-10, Exterior(2N) 21-9-10 to 37-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 5) All plates are 2x4 MT20 unless otherwise indicated.
  - 6) Gable requires continuous bottom chord bearing.
  - 7) Gable studs spaced at 2-0-0 oc.
  - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 34, 35, 37, 38, 39, 40, 41, 42, 32, 31, 29, 28, 27, 26, 25, 24, 22.



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6904 Parke East Blvd. Tampa FL 33610  
Date:

June 16,2021

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

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



6904 Parke East Blvd.  
Tampa, FL 36610

Job 2830724	Truss T04	Truss Type GABLE	Qty 10	Ply 1	WCH - SPEICHER RES. T24345579
Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 09:52:17 2021 Page 1 ID:7R_b7AxUtiWB3tgOsRwB2?zWJEt-kFasSBdEgC1rQpPhwVdUUEI?SlogYiYHnIDdz643S					

1-0-0 5-11-7 11-2-4 16-5-0 19-6-0 26-0-4 32-6-8 39-0-0 40-0-0  
1-0-0 5-11-7 5-2-12 5-2-12 3-1-0 6-6-4 6-6-4 6-5-8 1-0-0

Scale = 1:69.7

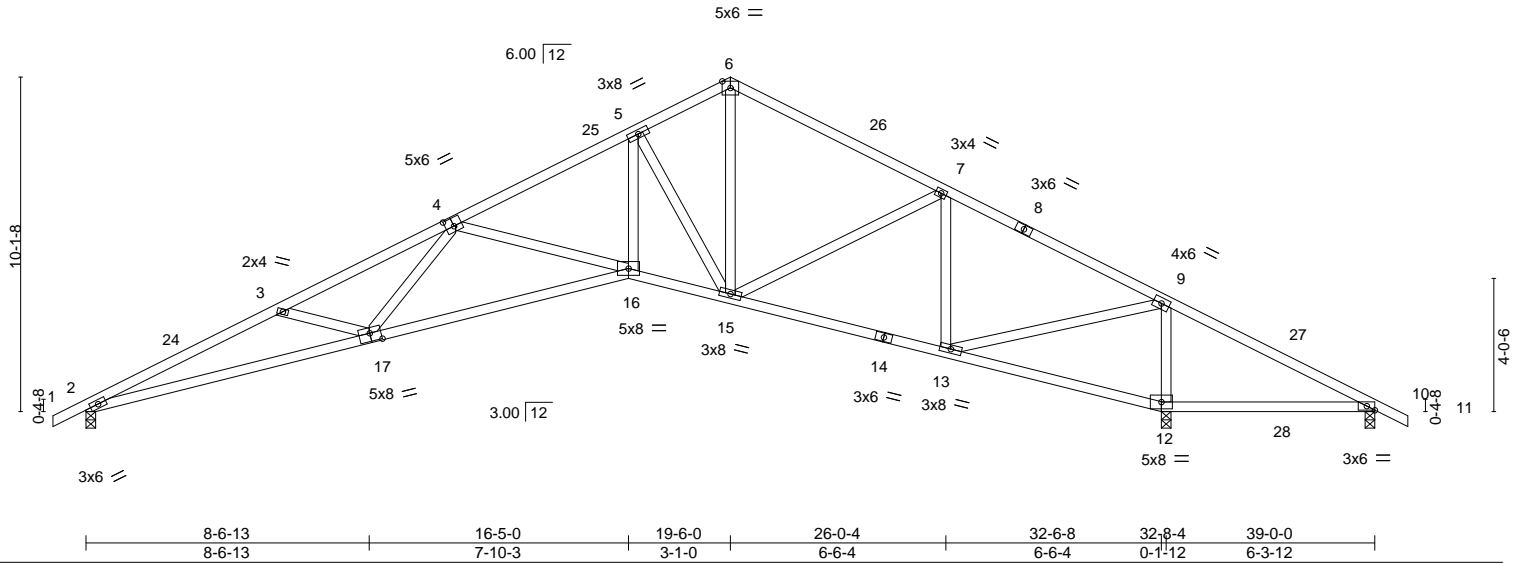


Plate Offsets (X,Y)-- [4:0-3-0,0-3-0], [10:0-2-15,Edge], [17:0-4-0,0-3-0]

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 0.87	Vert(LL)	-0.27 16-17	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.91	Vert(CT)	-0.57 16-17	>680	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.88	Horz(CT)	0.28 12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 202 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 3-0-2 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 3-11-11 oc bracing.

#### REACTIONS.

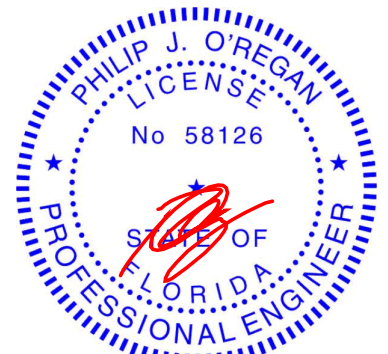
(size) 12=0-3-8, 10=0-3-8, 2=0-3-8  
Max Horz 2=-152(LC 13)  
Max Uplift 12=-447(LC 12), 10=-628(LC 23), 2=-247(LC 12)  
Max Grav 12=2501(LC 1), 10=175(LC 12), 2=1083(LC 1)

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

TOP CHORD 2-3=-3381/835, 3-4=-3027/693, 4-5=-1914/393, 5-6=-1076/306, 6-7=-1129/287,  
7-9=-594/210, 9-10=-424/1913  
BOT CHORD 2-17=-850/3072, 16-17=-578/2472, 15-16=-241/1658, 13-15=-7/487, 12-13=-1784/442,  
10-12=-1628/406  
WEBS 3-17=-330/222, 4-17=-92/574, 4-16=-767/327, 5-16=-260/1307, 5-15=-1342/366,  
6-15=-162/693, 7-15=-123/630, 7-13=-902/222, 9-13=-371/2173, 9-12=-1913/378

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-10-13, Interior(1) 2-10-13 to 19-6-0, Exterior(2R) 19-6-0 to 23-4-13, Interior(1) 23-4-13 to 40-0-0 zone; porch 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 2 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) 12=447, 10=628, 2=247.



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Date:

June 16,2021

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6904 Parke East Blvd.  
Tampa, FL 36610

Job 2830724	Truss T04G	Truss Type GABLE	Qty 1	Ply 1	WCH - SPEICHER RES. Job Reference (optional)	T24345580
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 09:52:19 2021 Page 1

ID:7R\_b7AxUtiWB3tgOsRwB2?zWJEt-gehdtstTmHSl4jzopKY5ZvJ5VGRD8SCrk5EJisz643Q

1-0-0 5-11-7 11-2-4 16-5-0 19-6-0 26-0-4 32-6-8 39-0-0 40-0-0  
1-0-0 5-11-7 5-2-12 5-2-12 3-1-0 6-6-4 6-6-4 6-5-8 1-0-0

Scale = 1:69.7

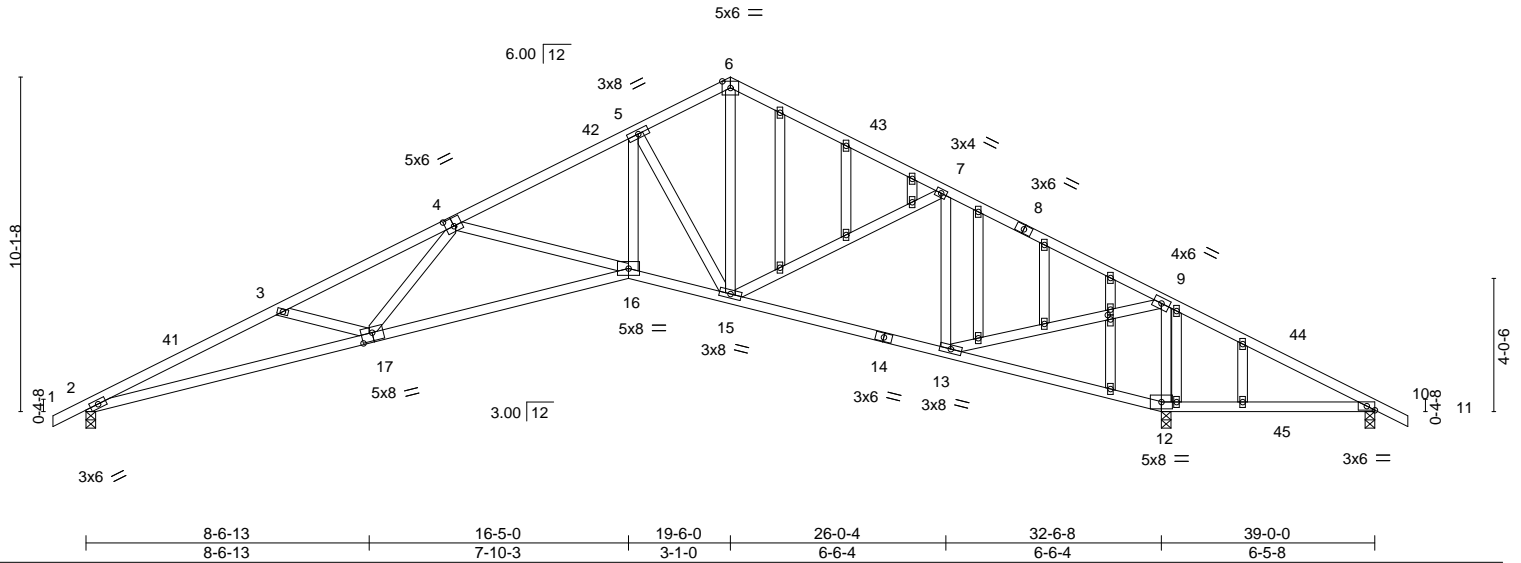


Plate Offsets (X,Y)-- [4:0-3-0,0-3-0], [10:0-2-15,Edge], [17:0-4-0,0-3-0], [24:0-1-10,0-1-0]

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 0.87	Vert(LL)	-0.27 16-17	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.91	Vert(CT)	-0.57 16-17	>686	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.88	Horz(CT)	0.28 12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 236 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

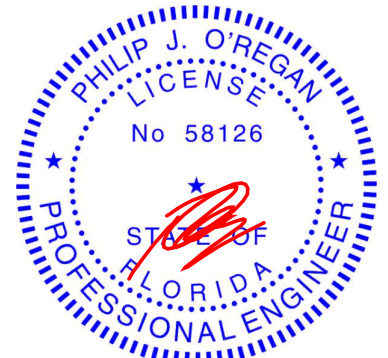
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-0-3 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 3-11-11 oc bracing.

**REACTIONS.** (size) 10=0-3-8, 2=0-3-8, 12=0-3-8  
Max Horz 2=-152(LC 13)  
Max Uplift 10=-627(LC 23), 2=-247(LC 12), 12=-447(LC 12)  
Max Grav 10=175(LC 12), 2=1083(LC 1), 12=2500(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-3379/836, 3-4=-3020/689, 4-5=-1914/393, 5-6=-1076/305, 6-7=-1129/287,  
7-9=-594/210, 9-10=-424/1912  
BOT CHORD 2-17=-850/3071, 16-17=-577/2474, 15-16=-241/1658, 13-15=-7/487, 12-13=-1783/442,  
10-12=-1628/407  
WEBS 3-17=-336/224, 4-17=-89/568, 4-16=-769/326, 5-16=-260/1307, 5-15=-1341/366,  
6-15=-162/693, 7-15=-123/630, 7-13=-902/222, 9-13=-372/2173, 9-12=-1913/378

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-10-13, Interior(1) 2-10-13 to 19-6-0, Exterior(2R) 19-6-0 to 23-4-13, Interior(1) 23-4-13 to 40-0-0 zone; porch 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.
- 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.
- Bearing at joint(s) 2 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) 10=627, 2=247, 12=447.



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

June 16,2021

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

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



6904 Parke East Blvd.  
Tampa, FL 33610



Job 2830724	Truss T05	Truss Type Common	Qty 4	Ply 1	WCH - SPEICHER RES. T24345581
Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 09:52:20 2021 Page 1 ID:7R_b7AxUtlWB3tgOsRwB2?zWJEt-8qF?4Cg5XbabitY_N23K57sJPgqxtxw_zlztElz643P					
Job Reference (optional)					

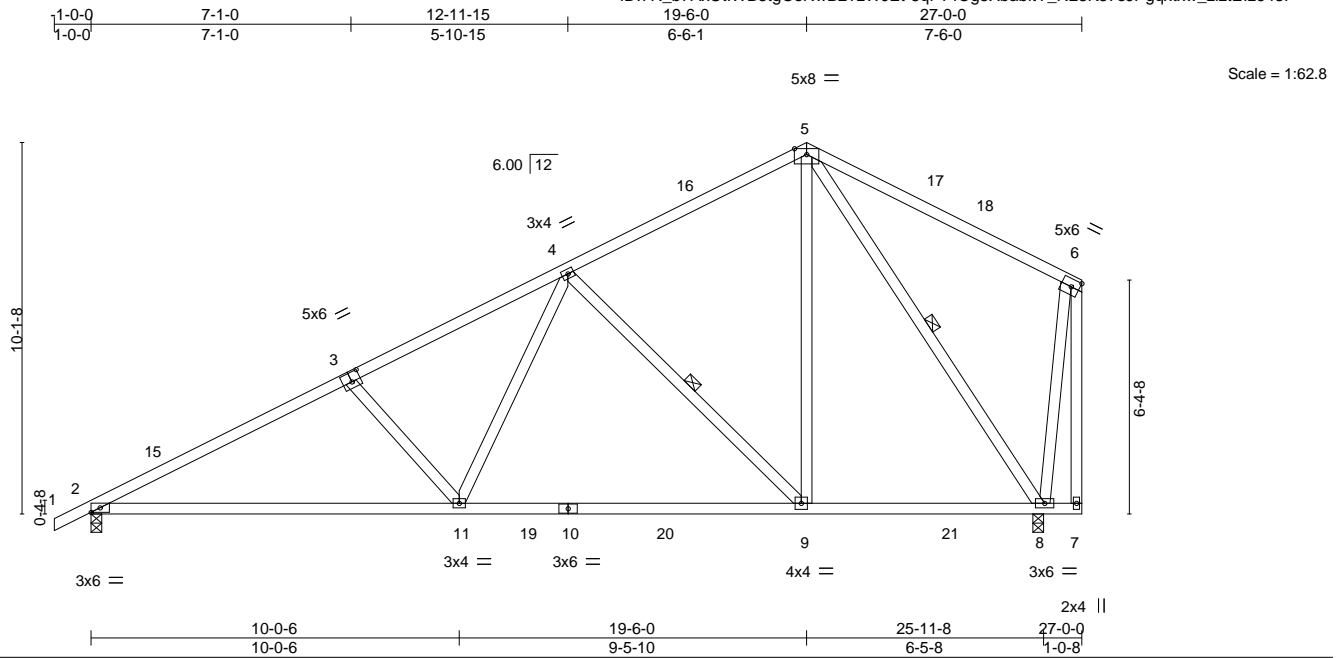


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0]

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 0.67	Vert(LL)	-0.23 9-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.75	Vert(CT)	-0.37 9-11	>835	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.72	Horz(CT)	0.04 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 166 lb	FT = 20%

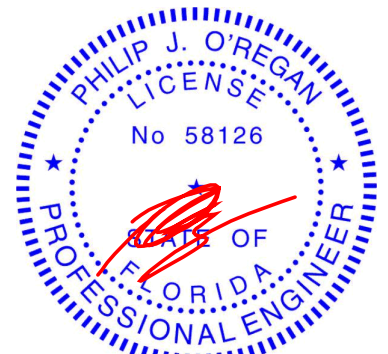
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
2-10: 2x4 SP M 31  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-7-2 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 4-9, 5-8

**REACTIONS.** (size) 2=0-3-8, 8=0-3-8  
Max Horz 2=278(LC 12)  
Max Uplift 2=227(LC 12), 8=222(LC 12)  
Max Grav 2=1103(LC 2), 8=1176(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=1780/347, 3-4=1598/323, 4-5=708/198  
BOT CHORD 2-11=501/1560, 9-11=323/1083, 8-9=120/576  
WEBS 3-11=341/203, 4-11=115/706, 4-9=732/289, 5-9=152/865, 5-8=1046/226

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 19-6-0, Exterior(2R) 19-6-0 to 22-6-0, Interior(1) 22-6-0 to 26-10-4 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.
  - 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=227, 8=222.



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Date:

June 16,2021

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

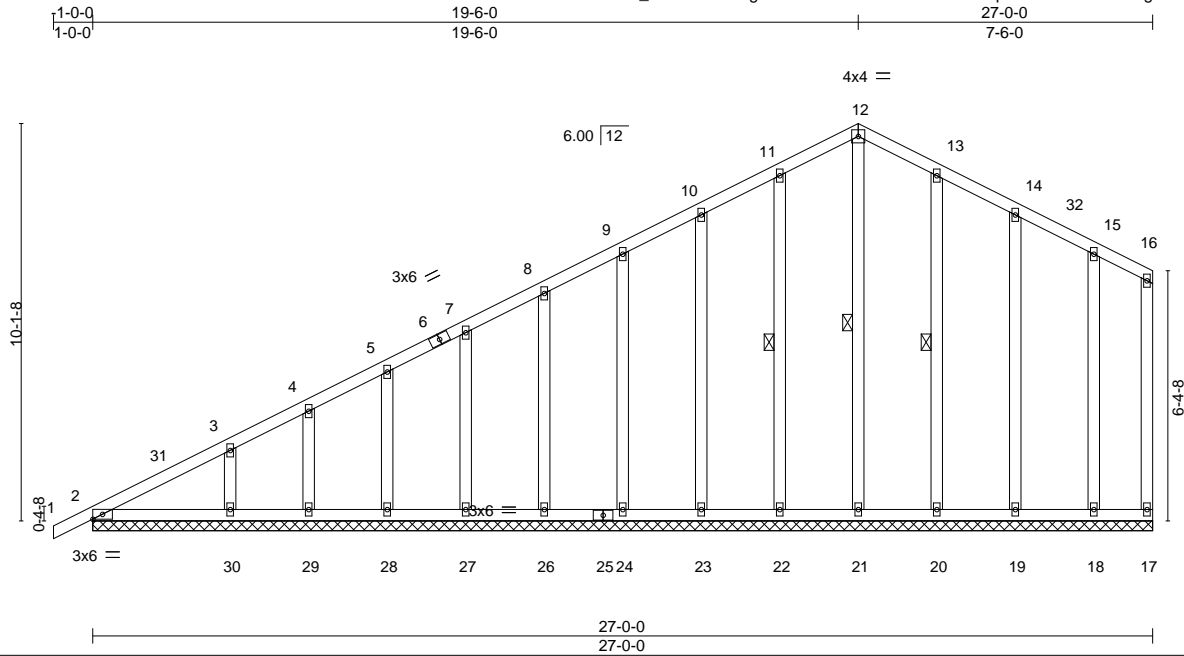


6904 Parke East Blvd.  
Tampa, FL 36610

Job 2830724	Truss T05G	Truss Type GABLE	Qty 1	Ply 1	WCH - SPEICHER RES. Job Reference (optional)	T24345582
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 09:52:22 2021 Page 1  
ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-4DNIVuhM2CqJxBhNUT5oBYxoiTgsLzdHQ3S\_JAz643N



Scale = 1:58.7

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.08	Vert(LL) -0.00 1 n/r 120		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.13	Vert(CT) 0.00 1 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 17 n/a n/a		
	Code FBC2020/TPI2014			Weight: 204 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 10-0-0 oc bracing.  
WEBS 1 Row at midpt 12-21, 11-22, 13-20

#### REACTIONS.

All bearings 27-0-0.  
(lb) - Max Horz 2=279(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 17, 2, 22, 23, 24, 26, 27, 28, 29, 30, 20, 19, 18  
Max Grav All reactions 250 lb or less at joint(s) 17, 2, 21, 22, 23, 24, 26, 27, 28, 29, 30, 20, 19, 18

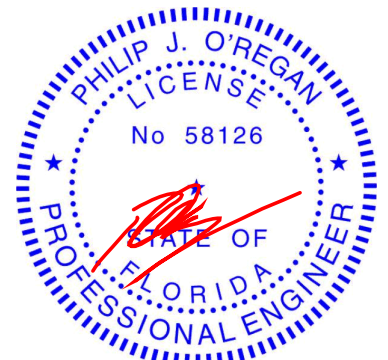
#### FORCES.

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

TOP CHORD 2-3=271/92

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 19-6-0, Corner(3R) 19-6-0 to 22-6-0, Exterior(2N) 22-6-0 to 26-10-4 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) 17, 2, 22, 23, 24, 26, 27, 28, 29, 30, 20, 19, 18.



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6904 Parke East Blvd. Tampa FL 33610  
Date:

June 16,2021

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

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



6904 Parke East Blvd.  
Tampa, FL 36610

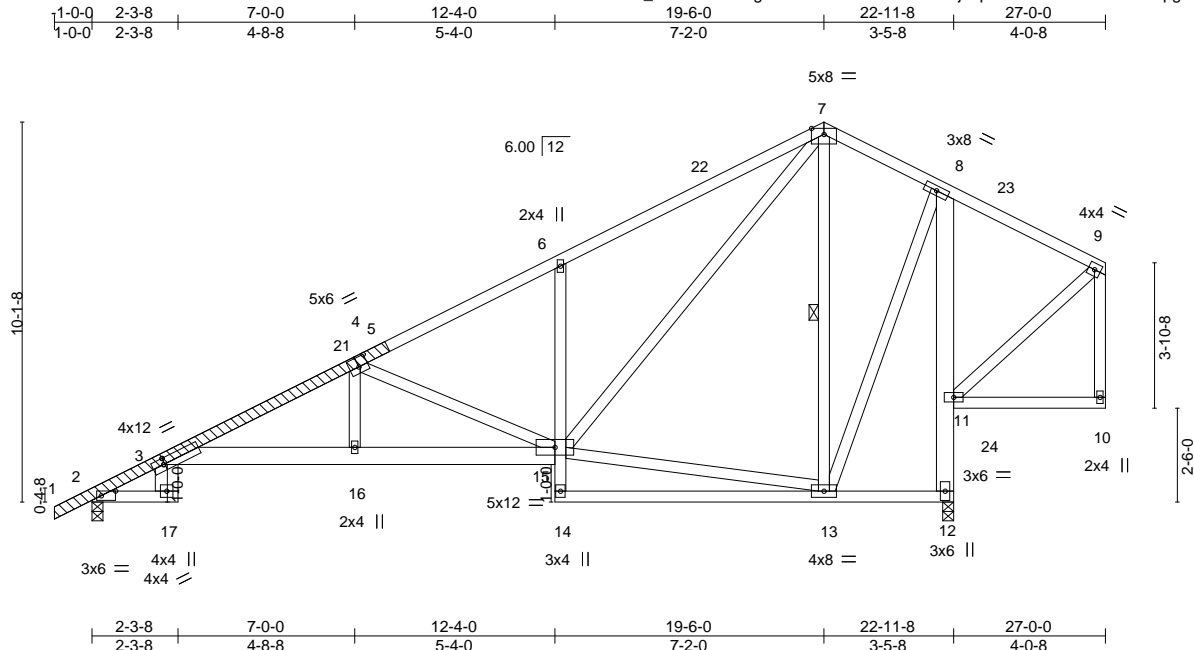
6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	WCH - SPEICHER RES.	T24345584
2830724	T07	Roof Special	2	1	Job Reference (optional)	

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 09:52:24 2021 Page 1

ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-1cVWwajcap41Bvricu7GGz01tHBWpgWauNx4N3z643L



Scale = 1:61.4

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

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 0.58	Vert(LL)	0.22	3-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.71	Vert(CT)	-0.39	3-16	>703	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 1.00	Horz(CT)	0.21	12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 218 lb	FT = 20%

#### LUMBER-

**TOP CHORD** 2x4 SP No.2 \*Except\*  
1-4: 2x4 SP M 31  
**BOT CHORD** 2x4 SP No.2 \*Except\*  
3-17: 2x8 SP 2400F 2.0E, 3-15: 2x6 SP M 26, 6-14: 2x4 SP No.3  
8-12: 2x6 SP No.2  
**WEBS** 2x4 SP No.3  
**OTHERS** 2x4 SP M 31  
**LBR SCAB** 1-5 2x4 SP M 31 one side

#### BRACING-

**TOP CHORD** Structural wood sheathing directly applied or 4-5-15 oc purlins, except end verticals.  
**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13,11-12.  
**WEBS** 1 Row at midpt 7-13

#### REACTIONS.

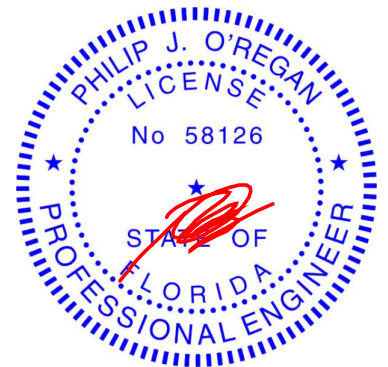
(size) 2=0-3-8, 12=0-3-8  
Max Horz 2=278(LC 12)  
Max Uplift 2=196(LC 12), 12=253(LC 12)  
Max Grav 2=873(LC 23), 12=1173(LC 1)

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

**TOP CHORD** 3-19=-602/9, 3-4=-1936/504, 4-6=-1041/263, 6-7=-1077/399, 7-8=-256/127  
**BOT CHORD** 3-17=-125/333, 3-16=-645/1731, 15-16=-643/1724, 6-15=-361/236, 11-12=-1175/541, 8-11=-1040/335  
**WEBS** 4-16=-91/460, 4-15=-935/351, 7-15=-430/1068, 7-13=-560/220, 8-13=-193/736

#### NOTES-

- Attached 9-11-14 scab 1 to 5, front face(s) 2x4 SP M 31 with 1 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-1-7 from end at joint 1, nail 2 row(s) at 3" o.c. for 4-3-6; starting at 7-11-0 from end at joint 1, nail 1 row(s) at 7" o.c. for 2-0-0.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-7, Interior(1) 2-0-7 to 19-6-0, Exterior(2R) 19-6-0 to 22-8-12, Interior(1) 22-8-12 to 26-10-4 zone; cantilever 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.
- 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=196, 12=253.



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Date:

June 16,2021

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

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

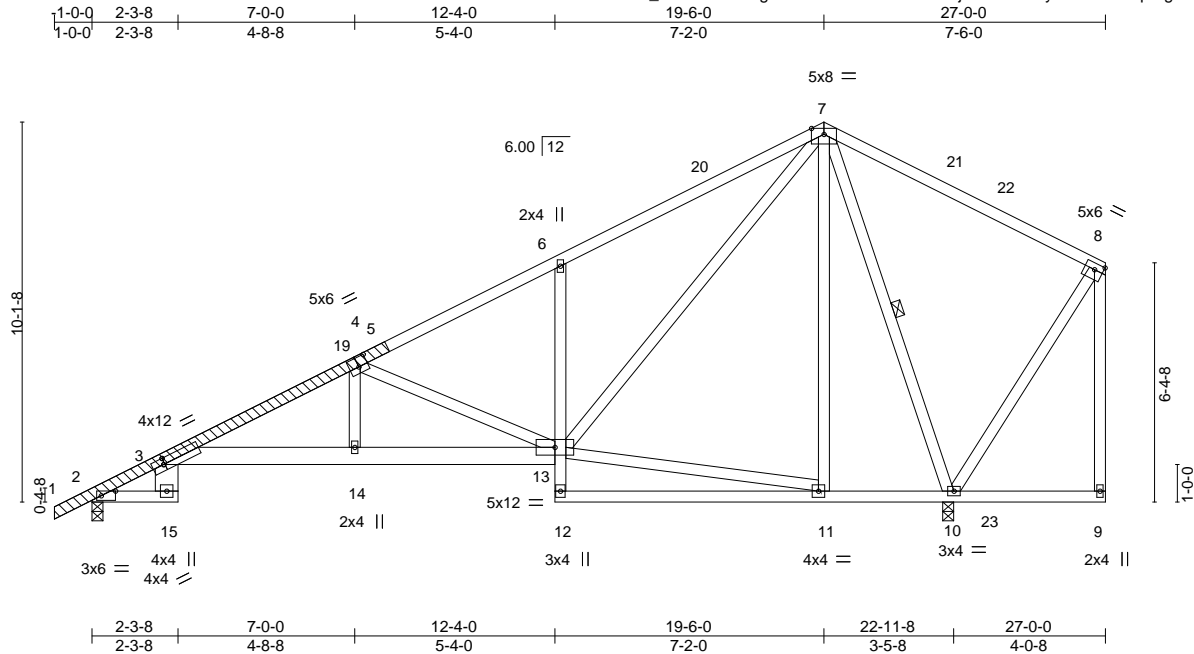


6904 Parke East Blvd.  
Tampa, FL 36610

Job 2830724	Truss T08	Truss Type Roof Special	Qty 5	Ply 1	WCH - SPEICHER RES. Job Reference (optional)	T24345585
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 09:52:25 2021 Page 1  
ID:7R\_b7AxUtlWB3tgOsRwB2?zVWJEt-Vo3u7wjEL7CuoeQy9beVoAZAqhXgY7pj61hewVz643K



Scale = 1:61.4

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.69	Vert(LL)	0.22	3-14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.72	Vert(CT)	-0.39	3-14	>704	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 1.00	Horz(CT)	0.21	10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 208 lb	FT = 20%

**LUMBER-**  
**TOP CHORD** 2x4 SP No.2 \*Except\*  
1-4: 2x4 SP M 31  
**BOT CHORD** 2x4 SP No.2 \*Except\*  
3-15: 2x8 SP 2400F 2.0E, 3-13: 2x6 SP M 26, 6-12: 2x4 SP No.3  
**WEBS** 2x4 SP No.3  
**OTHERS** 2x4 SP M 31  
**LBR SCAB** 1-5 2x4 SP M 31 one side

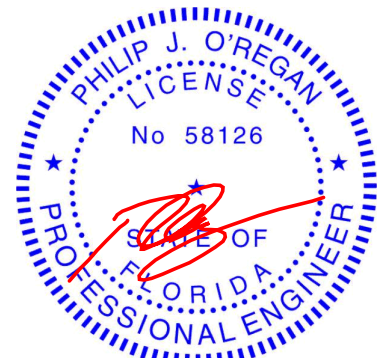
**BRACING-**  
**TOP CHORD** Structural wood sheathing directly applied or 4-5-0 oc purlins, except end verticals.  
**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.  
**WEBS** 1 Row at midpt 7-10

**REACTIONS.** (size) 2=0-3-8, 10=0-3-8  
Max Horz 2=278(LC 12)  
Max Uplift 2=-198(LC 12), 10=-252(LC 12)  
Max Grav 2=878(LC 23), 10=1166(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD** 3-17=-606/10, 3-4=-1952/509, 4-6=-1055/267, 6-7=-1092/401  
**BOT CHORD** 3-15=-126/335, 3-14=-649/1746, 13-14=-648/1738, 6-13=-361/233  
**WEBS** 4-14=-91/461, 4-13=-940/353, 7-13=-429/1074, 7-10=-977/263

#### NOTES-

- Attached 9-11-13 scab 1 to 5, front face(s) 2x4 SP M 31 with 1 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-1-7 from end at joint 1, nail 2 row(s) at 3" o.c. for 4-3-6; starting at 7-10-15 from end at joint 1, nail 1 row(s) at 7" o.c. for 2-0-0.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-7, Interior(1) 2-0-7 to 19-6-0, Exterior(2R) 19-6-0 to 22-6-0, Interior(1) 22-6-0 to 26-10-4 zone; cantilever 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.
- 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=198, 10=252.



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Date:

June 16,2021

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

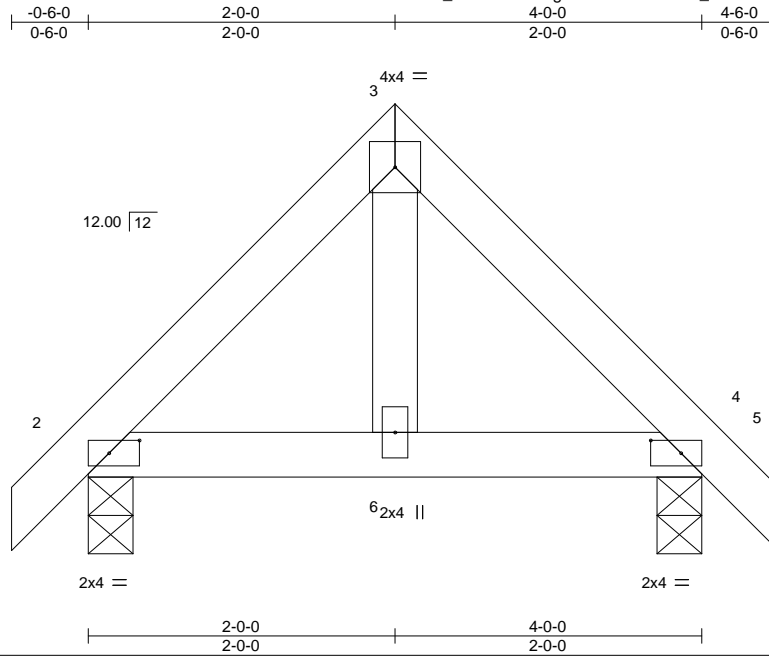
**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.  
Tampa, FL 36610



Job 2830724	Truss T09	Truss Type KINGPOST	Qty 8	Ply 1	WCH - SPEICHER RES. T24345586
Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 09:52:26 2021 Page 1 ID:7R_b7AxUtlWB3tgOsRwB2?zWJEt-z_dGLGks6RKlQo?8jJAKLO6U641zHp6tLhQBSyz643J					
Job Reference (optional)					



Scale = 1:15.0

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

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 0.08	Vert(LL)	-0.00	9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	-0.00	9	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP						Weight: 20 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

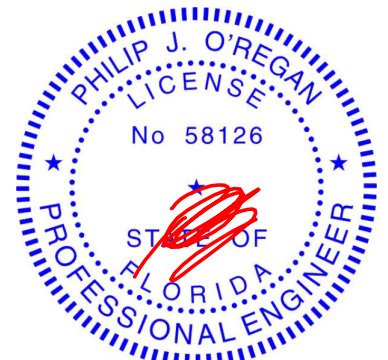
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 2=0-3-8, 4=0-3-8  
Max Horz 2=-55(LC 10)  
Max Uplift 2=-36(LC 12), 4=-36(LC 13)  
Max Grav 2=175(LC 1), 4=175(LC 1)

**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 7-16; 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.
- 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, 4.



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6904 Parke East Blvd. Tampa FL 33610  
Date:

June 16,2021

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



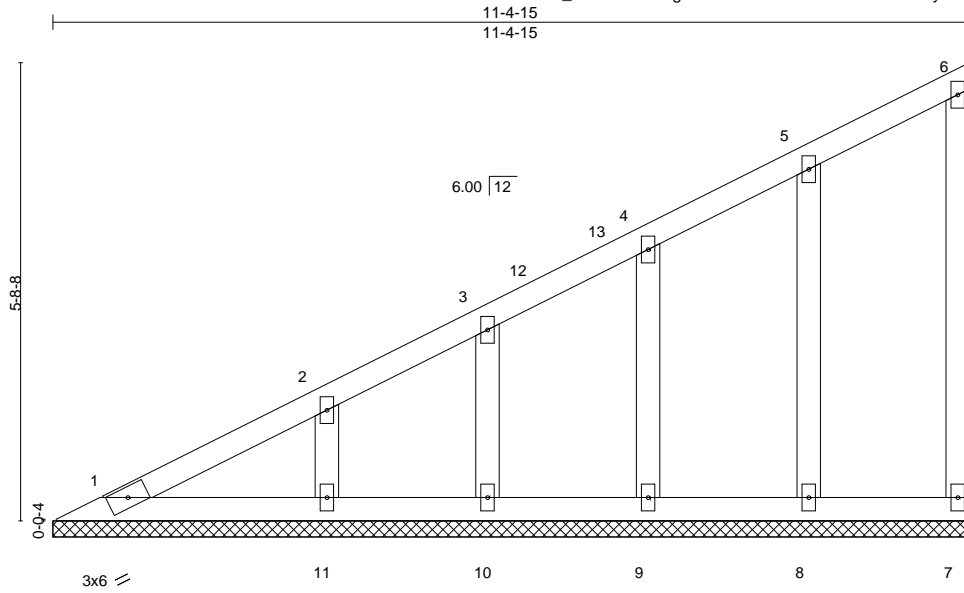
6904 Parke East Blvd.  
Tampa, FL 36610

Job 2830724	Truss V01	Truss Type GABLE	Qty 1	Ply 1	WCH - SPEICHER RES. Job Reference (optional)	T24345587
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 09:52:27 2021 Page 1

ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-RBAeYblUtkSc2yaKH0hzubefuUOU0GB0aLAI\_Oz643I



Scale = 1:28.7

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S					Weight: 58 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 10-0-0 oc bracing.

#### REACTIONS.

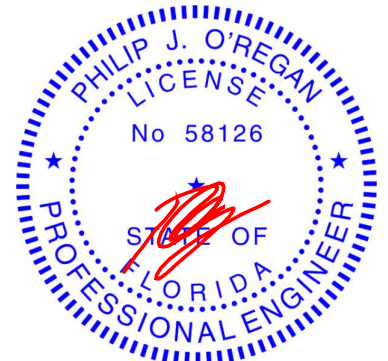
All bearings 11-4-15.  
(lb) - Max Horz 1=156(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 7, 8, 9, 10, 11  
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 8, 9, 10, 11

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.

**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) 0-7-9 to 3-4-15, Interior(1) 3-4-15 to 11-3-3 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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 8, 9, 10, 11.



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

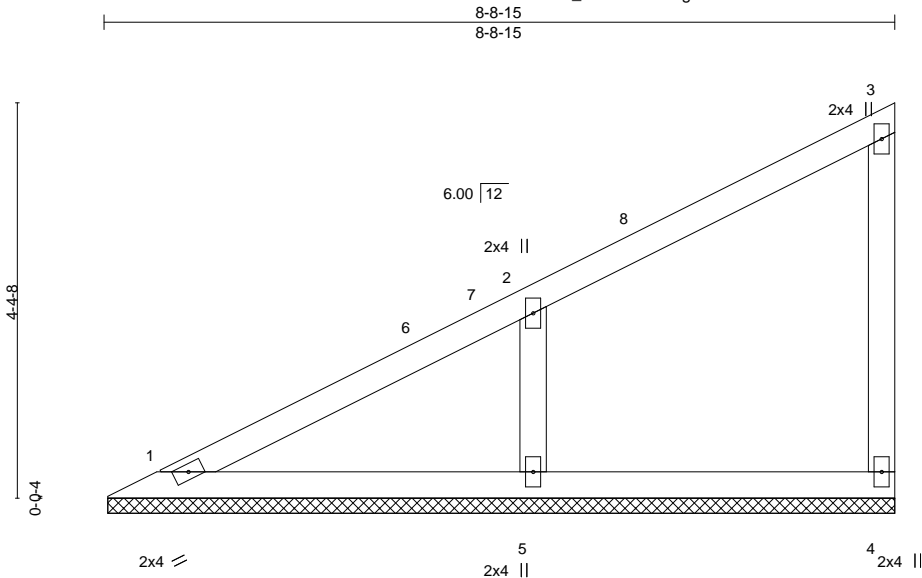


6904 Parke East Blvd.  
Tampa, FL 36610

Job 2830724	Truss V02	Truss Type Valley	Qty 1	Ply 1	WCH - SPEICHER RES. Job Reference (optional)	T24345588
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 09:52:28 2021 Page 1  
ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-vNk0lxm6e2aTf69WnjCCQpBojuiEli4Ap?vIWqz643H



Scale = 1:25.5

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.20	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.15	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.07	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 4 n/a n/a		
	Code FBC2020/TPI2014			Weight: 35 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 10-0-0 oc bracing.

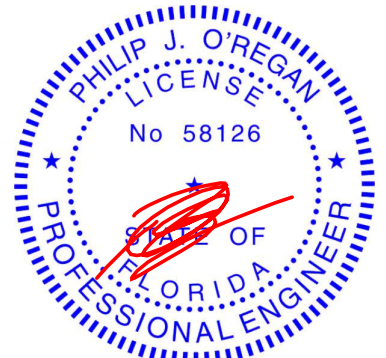
#### REACTIONS.

(size) 1=8-8-7, 4=8-8-7, 5=8-8-7  
Max Horz 1=124(LC 12)  
Max Uplift 4=-23(LC 14), 5=-126(LC 12)  
Max Grav 1=121(LC 1), 4=109(LC 1), 5=360(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 2-5=-258/226

#### 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) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 8-7-3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=126.



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Date:

June 16,2021

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



6904 Parke East Blvd.  
Tampa, FL 36610

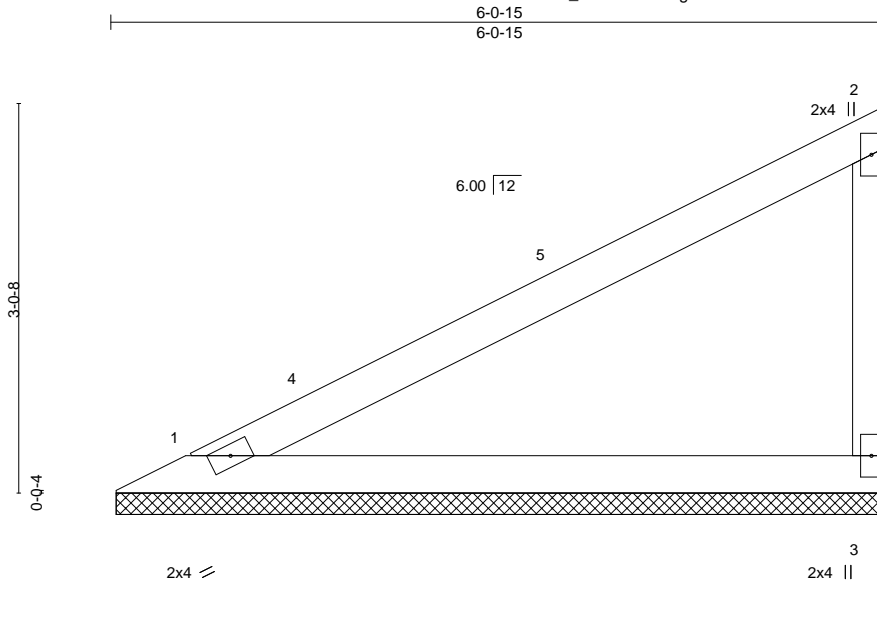
Job	Truss	Truss Type	Qty	Ply	WCH - SPEICHER RES.	T24345589
2830724	V03	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL),

Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 09:52:28 2021 Page 1

ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-vNk0lxm6e2aTf69WjrjCCQpBkauf3lj7Ap?vIWqz643H



Scale = 1:18.0

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)	n/a	-	n/a	999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.35	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-P						Weight: 22 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

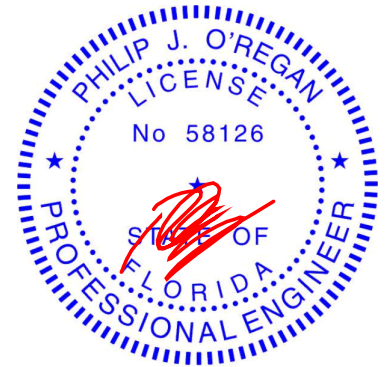
#### REACTIONS.

(size) 1=6-0-7, 3=6-0-7  
Max Horz 1=91(LC 12)  
Max Uplift 1=-30(LC 12), 3=-76(LC 12)  
Max Grav 1=196(LC 1), 3=196(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) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 5-11-3 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.
- 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, 3.



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Date:

June 16,2021

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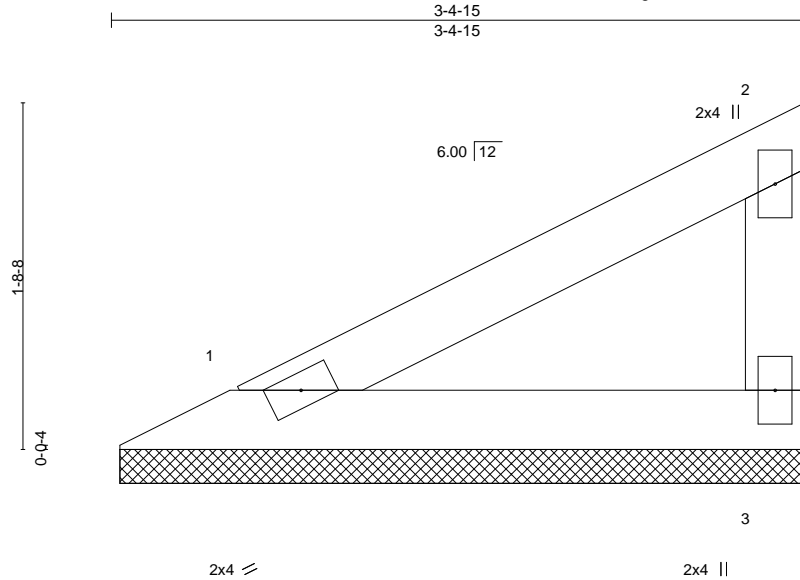
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd.  
Tampa, FL 36610

Job 2830724	Truss V04	Truss Type Valley	Qty 1	Ply 1	WCH - SPEICHER RES. Job Reference (optional)	T24345590
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 09:52:29 2021 Page 1  
ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-NZIPzHnIPMiKHGkjORjRz0j??i3cUANJ1ffr3Gz643G



Scale = 1:11.3

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 0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-P						Weight: 11 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 3-4-15 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

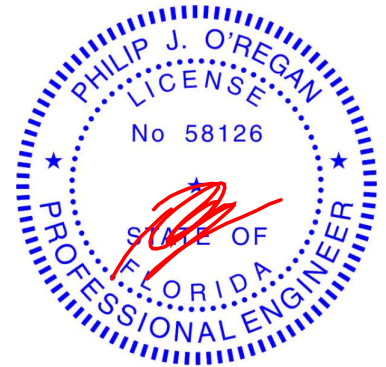
#### REACTIONS.

(size) 1=3-4-7, 3=3-4-7  
Max Horz 1=46(LC 12)  
Max Uplift 1=-15(LC 12), 3=-38(LC 12)  
Max Grav 1=98(LC 1), 3=98(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) 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.
- 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, 3.



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June 16, 2021

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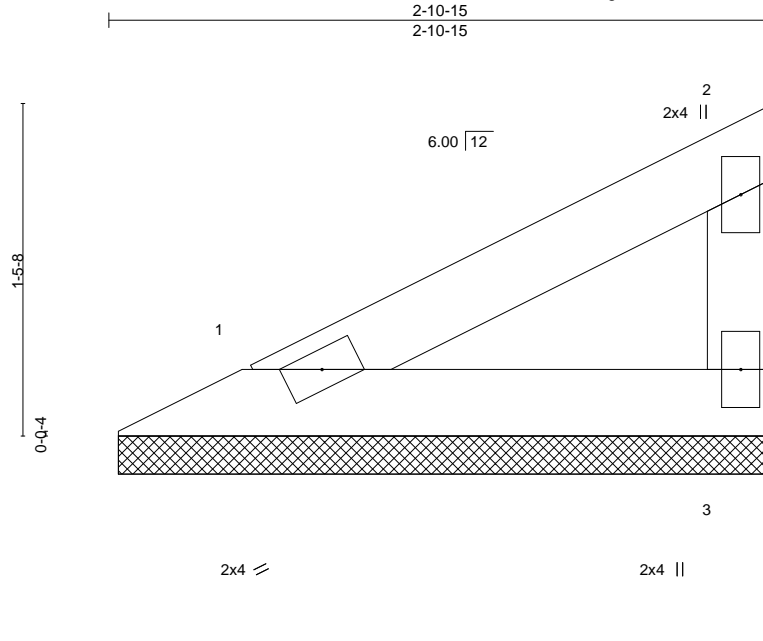


6904 Parke East Blvd.  
Tampa, FL 36610



Job 2830724	Truss V05	Truss Type Valley	Qty 1	Ply 1	WCH - SPEICHER RES. Job Reference (optional)	T24345591
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 09:52:30 2021 Page 1  
ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-rIsnAdnNAfqBvQlvY8EgVEGALiPHDdcSGJOPbjz643F



Scale = 1:10.1

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 0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-P						Weight: 9 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 2-10-15 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

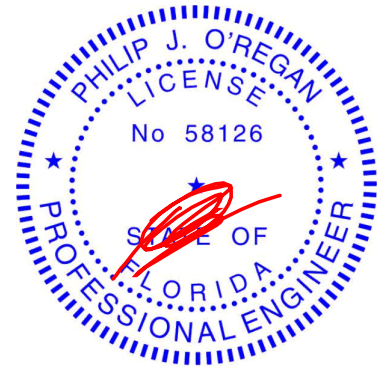
#### REACTIONS.

(size) 1=2-10-7, 3=2-10-7  
Max Horz 1=37(LC 12)  
Max Uplift 1=-12(LC 12), 3=-31(LC 12)  
Max Grav 1=79(LC 1), 3=79(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) 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.
- 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, 3.



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Date:

June 16,2021

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



6904 Parke East Blvd.  
Tampa, FL 36610

Job 2830724	Truss V06	Truss Type Valley	Qty 1	Ply 1	WCH - SPEICHER RES. Job Reference (optional)	T24345592
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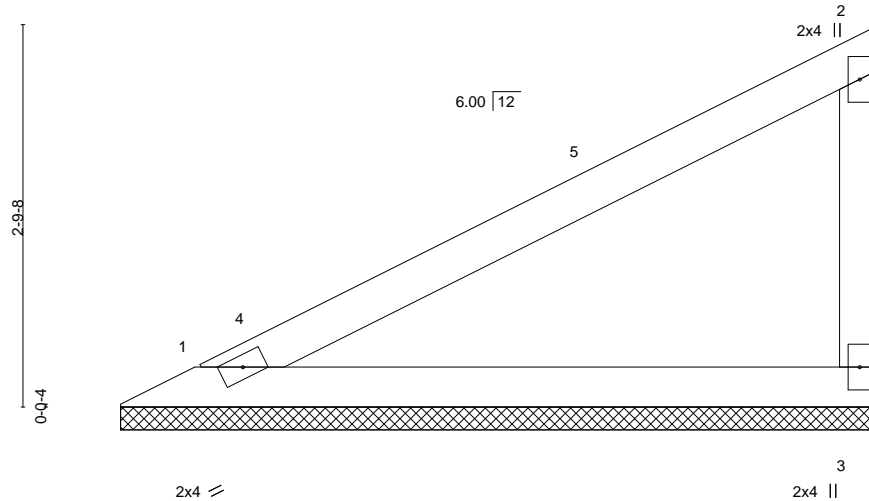
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 09:52:31 2021 Page 1

ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-KyQ9Ozo?xzz2WZt5Wslv2RpHE5hgy4scVz8y79z643E

5-6-15  
5-6-15

Scale = 1:16.8



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 0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.29	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-P						Weight: 20 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-15 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

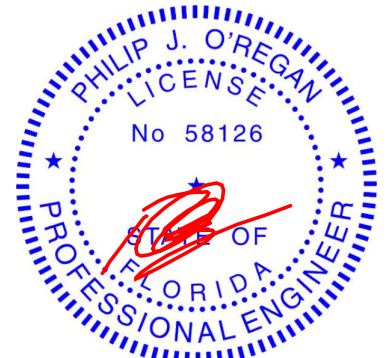
#### REACTIONS.

(size) 1=5-6-7, 3=5-6-7  
Max Horz 1=83(LC 12)  
Max Uplift 1=-27(LC 12), 3=-69(LC 12)  
Max Grav 1=178(LC 1), 3=178(LC 1)

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

#### NOTES-

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



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Date:

June 16, 2021

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6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	WCH - SPEICHER RES.	T24345593
2830724	V07	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL),

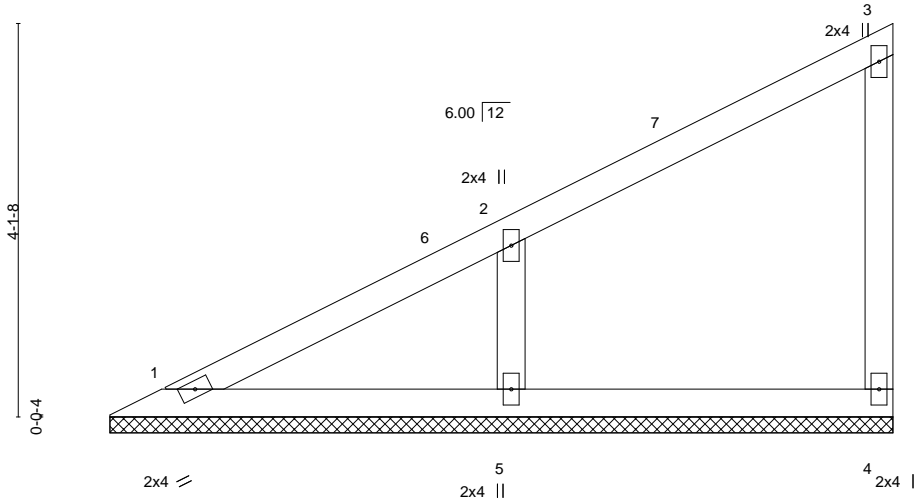
Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 09:52:31 2021 Page 1

ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-KyQ9Ozo?xzz2WZt5Wslv2RpKM5jEy3pcVz8y79z643E

8-2-15  
8-2-15

Scale: 1/2"=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 0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.13	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 32 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 10-0-0 oc bracing.

#### REACTIONS.

(size) 1=8-2-7, 4=8-2-7, 5=8-2-7  
Max Horz 1=118(LC 12)  
Max Uplift 4=-25(LC 12), 5=-121(LC 12)  
Max Grav 1=103(LC 1), 4=114(LC 1), 5=335(LC 1)

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 8-1-3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=121.



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6904 Parke East Blvd.  
Tampa, FL 36610

Job 2830724	Truss V08	Truss Type Valley	Qty 1	Ply 1	WCH - SPEICHER RES. T24345594
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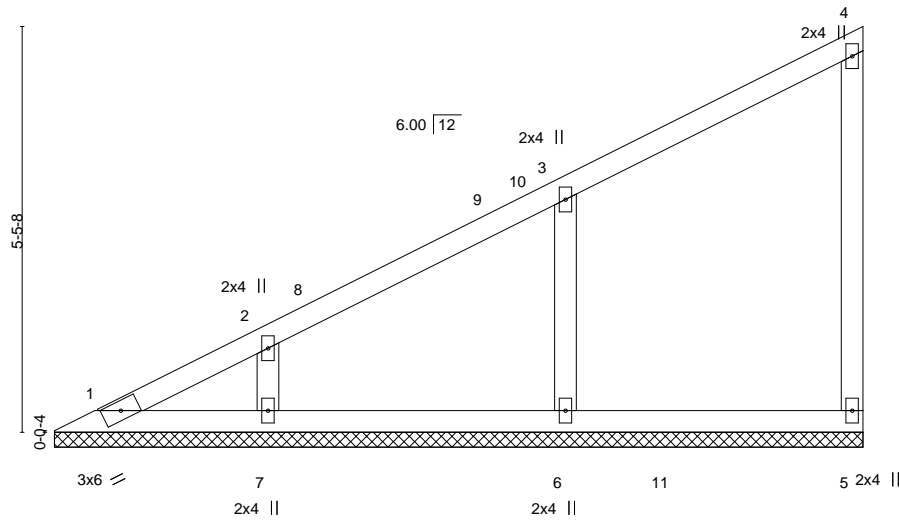
Builders FirstSource (Lake City, FL),

Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 09:52:32 2021 Page 1  
ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-o8\_XbJpdIH5v8jSI4ZG8bflU8V37hXBjctVfbz643D

10-10-15  
10-10-15

Scale = 1:31.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.15	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.06	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
	Code FBC2020/TPI2014			Weight: 46 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 10-0-0 oc bracing.

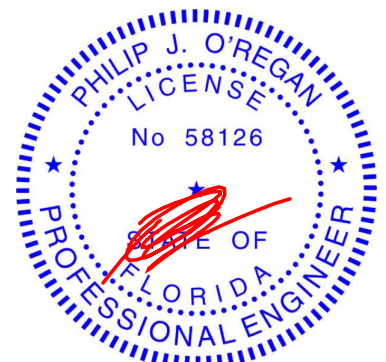
#### REACTIONS.

All bearings 10-10-7.  
(lb) - Max Horz 1=150(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 5, 6 except 7=-103(LC 12)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=364(LC 2), 7=267(LC 2)

**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) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 10-9-3 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.
- 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) 5, 6 except (jt=lb) 7=103.



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Date:

June 16, 2021

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

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

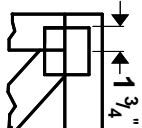
**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601  
**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**



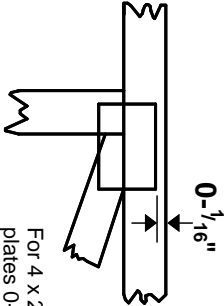
6904 Parke East Blvd.  
Tampa, FL 36610

# Symbols

## PLATE LOCATION AND ORIENTATION



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



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

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

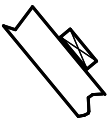
\* Plate location details available in **MiTek 20/20** software or upon request.

## PLATE SIZE

4 X 4

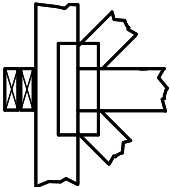
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING



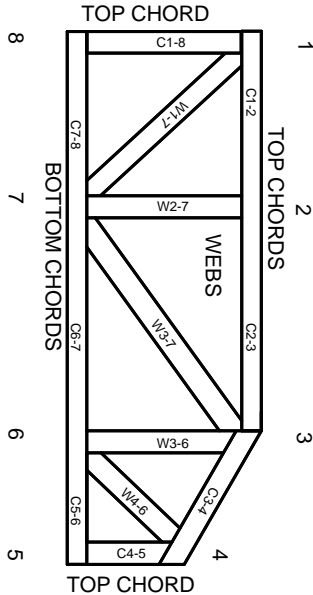
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

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

# Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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



# General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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