

0-0-6 3-2-0 Plate Offsets (X,Y) [2:0-3-0,Edge]													
LOADING	G (psf) 20.0	SPACING- Plate Grip DOL	2-0-0 1.25	CSI.	0.05	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	n/a	- 8	n/a	999	IWI 20	244/190	
BCLL BCDL	10.0	Rep Stress Incr Code FBC2023/T	YES PI2014	WB Matri	0.00 k-P	Horz(CT)	0.00	3	n/a	n/a	Weight: 9 lb	FT = 20%	

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD

2x4 SP No 2

Max Horz 1=-24(LC 8) Max Uplift 1=-31(LC 12), 3=-31(LC 13) Max Grav 1=83(LC 1), 3=83(LC 1)

(size) 1=3-1-10, 3=3-1-10

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

# NOTES-

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Gable requires continuous bottom chord bearing.

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

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

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Structural wood sheathing directly applied or 3-2-6 oc purlins.

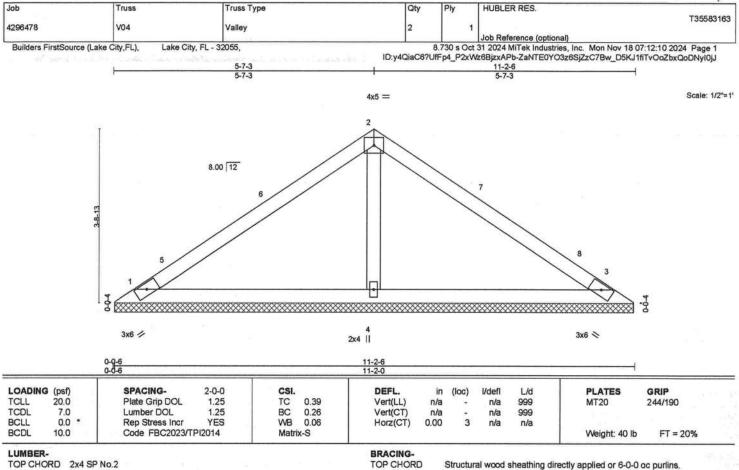
Rigid ceiling directly applied or 10-0-0 oc bracing.

Philip J. O'Regan PE No. S\$126 MiTels Inc. DBA MITels USA FL Cert 6634 16623 Swingley Ridge Rd. ChesterBeld, MO 63017

November 18,2024

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**BOT CHORD** 

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

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

REACTIONS.

(size) 1=11-1-10, 3=11-1-10, 4=11-1-10

Max Horz 1=-109(LC 8)

Max Uplift 1=-86(LC 12), 3=-101(LC 13), 4=-111(LC 12) Max Grav 1=185(LC 1), 3=188(LC 20), 4=387(LC 1)

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

## NOTES-

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 5-7-3, Zone2 5-7-3 to 9-10-2, Zone1 9-10-2 to 10-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Gable requires continuous bottom chord bearing.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 3=101, 4=111.

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Philip J. O'Regen PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Rhige Rd. Chesterfield, MO 63017

November 18,2024

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HUBLER RES. Job Truss Truss Type Qty T35583161 4296478 V02 Valley 2 Job Reference (optional) Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Nov 18 07:12:09 2024 Page 1 ID:y4QiaC67UfFp4\_P2xWz6BjzxAPb-4Op51gYllgzb6PO0ZTOlgunAyFNuAxyQMHgFhxyl0jK Builders FirstSource (Lake City,FL), 4x5 = Scale = 1:40.6 3 8.00 12 2x4 || 2x4 || 2 -6 3x6 / 3x6 < 9 12 13 6 3x6 = 2x4 || 2x4 || 2x4 || 19-2-6 19-2-0 0-0-6 LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defl L/d PLATES GRIP 1.25 TCLL 20.0 Plate Grip DOL TC 0.28 Vert(LL) 999 244/190 n/a n/a MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.21 Vert(CT) n/a n/a 999 0.0 \* BCLL Rep Stress Incr YES WB 0.10 Horz(CT) 0.00 5 Code FBC2023/TPI2014 BCDI 10.0 Matrix-S Weight: 79 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. 2x4 SP No.3 OTHERS

REACTIONS. All bearings 19-1-10.

(lb) - Max Horz 1=-194(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-327 (LC 12), 6=-326 (LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=318(LC 22), 9=571(LC 19), 6=570(LC 20)

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

WEBS

2-9=-351/343, 4-6=-351/343

## NOTES-

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 9-7-3, Zone2 9-7-3 to 13-7-3, Zone1 13-7-3 to 18-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Gable requires continuous bottom chord bearing.

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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=327, 6=326.

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Philip J. O'Rogan PE No.58126 MiTck Inc. DBA MiTck USA FL Cort 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 18,2024

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Job	Truss	Truss Type	Qty	Ply	HUBLER RES.	
4296478	T05G	DBL. HOWE	1	3	Job Reference (optional)	T35583159
Builders FirstSour	ce (Lake City,FL), Lake	City, FL - 32055,		3.730 s Oct	31 2024 MiTek Industries, Inc. Mon Nov 18 07:12	

ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-cBFjpKX7XMrkUFpq0mtW8gF1er0\_RVIG7dxh8VyI0jl

LOAD CASE(S) Standard

14) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-49, 4-7=-49, 9-15=-140, 15-16=-210, 16-17=-140, 17-18=-210, 12-18=-140

Concentrated Loads (lb)

Vert: 4=-810(B)

15) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-182, 2-4=-201, 4-6=-117, 6-7=-99, 9-15=-60, 15-16=-113, 16-17=-60, 17-18=-113, 12-18=-60 Horz: 1-2=28, 2-4=47, 4-6=37, 6-7=55

Concentrated Loads (lb) Vert: 4=-2025(B)

16) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-99, 2-4=-117, 4-6=-201, 6-7=-182, 9-15=-60, 15-16=-113, 16-17=-60, 17-18=-113, 12-18=-60

Horz: 1-2=-55, 2-4=-37, 4-6=-47, 6-7=-28

Concentrated Loads (lb)

Vert: 4=-2025(B)

17) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-42, 2-4=-61, 4-6=-117, 6-7=-99, 9-15=-123, 15-16=-175, 16-17=-123, 17-18=-175, 12-18=-123

Horz: 1-2=-112, 2-4=-93, 4-6=37, 6-7=55

Concentrated Loads (lb)

Vert: 4=-2025(B)

18) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-99, 2-4=-117, 4-6=-61, 6-7=-42, 9-15=-123, 15-16=-175, 16-17=-123, 17-18=-175, 12-18=-123

Horz: 1-2=-55, 2-4=-37, 4-6=93, 6-7=112

Concentrated Loads (lb)

Vert: 4=-2025(B)

19) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-29, 2-4=-45, 4-7=-29, 9-12=-21

Horz: 2-4=16

Concentrated Loads (lb)

Vert: 4=-810(B)

20) Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-29, 4-6=-45, 6-7=-29, 9-12=-21

Horz: 4-6=-16

Concentrated Loads (lb) Vert: 4=-810(B)

21) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-189, 4-7=-49, 9-12=-70 Concentrated Loads (lb)

Vert: 4=-2430(B)

22) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-49, 4-7=-189, 9-12=-70

Concentrated Loads (lb) Vert: 4=-2430(B)

23) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-154, 4-7=-49, 9-15=-123, 15-16=-175, 16-17=-123, 17-18=-175, 12-18=-123

Concentrated Loads (lb)

Vert: 4=-2025(B)

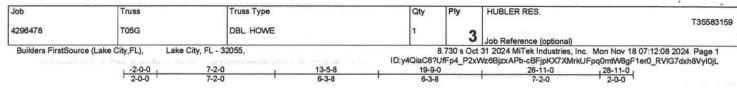
24) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-4=-49, 4-7=-154, 9-15=-123, 15-16=-175, 16-17=-123, 17-18=-175, 12-18=-123 Concentrated Loads (lb)

Vert: 4=-2025(B)

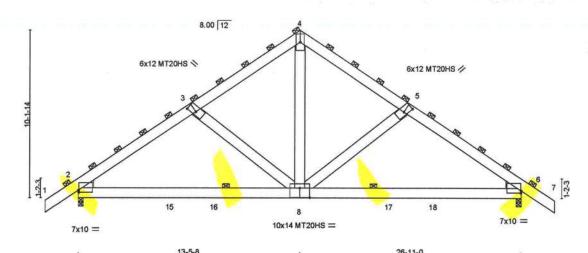
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6x12 MT20HS ||

Scale = 1:67.2



		-		13-5-8			13-5-8					
Plate Offsets (X, Y) [2:0-0-4,0-1-10], [3:0-6-4,0-2-6], [5:0-6-4,0-2-6], [6:0-0-4,0-1-10], [8:0-7-0,0-7-0]												
LOADING	(psf)	SPACING-	7-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	-0.08	8-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.14	8-14	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.03	6	n/a	n/a	WANTED-MODE	
BCDL	10.0	Code FBC2023/T	PI2014	Matrix	k-MS						Weight: 832 lb	FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

2-0-0 oc purlins (6-0-0 max.)

10-0-0 oc bracing.

(Switched from sheeted: Spacing > 2-8-0).

LUMBER-

TOP CHORD 2x8 SP 2400F 2.0E 2x8 SP 2400F 2.0E BOT CHORD

WEBS WEDGE

Left: 2x6 SP No.2, Right: 2x6 SP No.2

2x8 SP 2400F 2.0E

REACTIONS.

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

Max Horz 2=-1149(LC 6)

Max Uplift 2=-1129(LC 8), 6=-1129(LC 9) Max Grav 2=5181(LC 2), 6=5182(LC 2)

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

TOP CHORD 2-3=-6463/1023, 3-4=-5565/846, 4-5=-5565/845, 5-6=-6463/1026 2-8=-1185/5122, 6-8=-398/5005

BOT CHORD

WEBS 4-8=-1289/2811, 5-8=-1211/1419, 3-8=-1206/1415

## NOTES-

- 1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

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

- 4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

6) All plates are MT20 plates unless otherwise indicated.

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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1129, 6=1129,
- 10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2430 lb down at 13-5-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.

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Philip J. O'Rogan PE No.58126 MiTels Inc. DBA MiTels USA FL Cert 6634 16025 Swingley Rhigo Rd. Chesterfield, MO 63017

November 18,2024

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Job		Truss	Truss Type		Qty	Ply	HUBLER RES.			£
(access)		Total Control	Special Control of the Control of th			Fiy	HUBLER RES.			T35583
4296	478	T04G	DBL. HOWE		1	2	Job Reference (option	onall		
Bui	lders FirstSource (Lake	City,FL), Lake City	y, FL - 32055,	ID:		8.730 s Oc	t 31 2024 MiTek Indust	ries, Inc. Mon No		
	observania internacia			ib.y	4QIACO?	OIFP4_F2	xWz6BjzxAPb-8?hLc_V	vvmzjisoedozivir	1D I ISESG/IUE	7 uzboczylujiwi
	AD CASE(S) Standar Dead + 0.6 MWERS \		d Parallel: Lumber Increase=1.60	Plate Increase=1.60						
17/	Uniform Loads (plf)			, i lato morcaso - 1.00						
		, 2-4=72, 4-6=37, 6-7= 6, 2-4=-95, 4-6=60, 6-7								
	Concentrated Loads	(lb)								
15)	Vert: 4=-607		n Parallel: Lumber Increase=1.60	Plate Increase=1 60						
10,	Uniform Loads (plf)			, i late moreage 1.00						
		, 2-4=37, 4-6=72, 6-7= 1, 2-4=-60, 4-6=95, 6-7								
	Concentrated Loads	(lb)								
16)	Vert: 4=-607 Dead + 0.6 MWFRS \		t Parallel: Lumber Increase=1.60	. Plate Increase=1.60						
	Uniform Loads (plf)									
		, 2-4=59, 4-6=-0, 6-7=2 17, 2-4=-97, 4-6=38, 6								
	Concentrated Loads	(lb)								
17)	Vert: 4=-607 Dead + 0.6 MWFRS \		nd Parallel: Lumber Increase=1.60	D. Plate Increase=1.60	)					
	Uniform Loads (plf)	24-246-5067-	10 0 10- EE							
		2-4=-0, 4-6=59, 6-7=7 8, 2-4=-38, 4-6=97, 6-7								
	Concentrated Loads									
18)	Vert: 4=-607 Dead + Uninhabitable		Increase=1.25, Plate Increase=1	1.25						
	Uniform Loads (plf)	47-20 0 10-110	10 20- 166 20 21- 110 21 22-	16E 12 22- 110						
	Concentrated Loads (		19-20=-165, 20-21=-110, 21-22=-	-105, 12-22=-110						
10)	Vert: 4=-607		Attic Storage + 0.75/0.6 MA/ED	C Mind /Non Int) I off	A. Lumbu	e lassass	and 60. Diata income	1 60		
	Uniform Loads (plf)	e (bai.) + 0.75 Oninnat	o. Attic Storage + 0.75(0.6 MWFR	S wind (Neg. Int) Len	). Lumbe	er increas	e= 1.60, Plate increas	8=1.00		
		3, 2-4=-158, 4-6=-92, , 2-4=37, 4-6=29, 6-7=	6-7=-77, 9-19=-47, 19-20=-89, 20	)-21=-47, 21-22=-89,	12-22=-4	17				
	Concentrated Loads (									
201	Vert: 4=-1519		o. Attic Storage + 0.75(0.6 MWFR	S Wind (Neg. Int) Rigi	ht\- Lumi	her Increa	se=1 60 Plate Increa	se=1.60		
	Uniform Loads (plf)			and a little from the state of			oc 1.00, 1 late morea	30-1.00		
		', 2-4=-92, 4-6=-158, 6 4, 2-4=-29, 4-6=-37, 6-	-7=-143, 9-19=-47, 19-20=-89, 20 7=-22	)-21=-47, 21-22=-89,	12-22=-4	17				
	Concentrated Loads (	lb)								
21)	Vert: 4=-1519 Dead + 0.75 Roof Live	3-4	. Attic Storage + 0.75(0.6 MWFR	S Wind (Neg. Int) 1st	Parallel)	Lumber	Increase=1 60. Plate	Increase=1 60		
	Uniform Loads (plf)	500 (#8500 00 + 5 #6 00 + 5 9600 00 + 6 00 00 + 5 00 00 + 5 00 00 + 5 00 00 + 5 00 00 + 5 00 00 + 5 00 00 + 5 00 00 00 + 5 00 00 00 00 00 00 00 00 00 00 00 00 0			0-17-0-17-0			11010000 1.00		
		8, 2-4=-48, 4-6=-92, 6-7 8, 2-4=-73, 4-6=29, 6-7	7=-77, 9-19=-96, 19-20=-137, 20-; 7=44	21=-96, 21-22=-137,	12-22=-9	96				
	Concentrated Loads (	lb)								
22)	Vert: 4=-1519 Dead + 0.75 Roof Live		. Attic Storage + 0.75(0.6 MWFR	S Wind (Nea. Int) 2nd	Parallel	): Lumber				
	Increase=1.60, Plate									
	Uniform Loads (plf) Vert: 1-2=-77	, 2-4=-92, 4-6=-48, 6-7	7=-33, 9-19=-96, 19-20=-137, 20-2	21=-96, 21-22=-137, 1	12-22=-9	16				
	Horz: 1-2=-44	4, 2-4=-29, 4-6=73, 6-7								
	Concentrated Loads ( Vert: 4=-1519									
		Min. Down: Lumber In	crease=1.60, Plate Increase=1.60	0						
	Uniform Loads (plf) Vert: 1-2=22,	2-4=-68, 4-7=-68, 9-1	2=28							
	Horz: 1-2=-45 Concentrated Loads (	5, 2-4=45, 4-7=-45								
	Vert: 4=-607(									
	Dead + 0.6 C-C Wind Uniform Loads (plf)	Min. Upward: Lumber	Increase=1.60, Plate Increase=1.	.60						
	Vert: 1-4=22,	4-7=22, 9-12=28								
	Horz: 1-4=-45 Concentrated Loads (									
	Vert: 4=-607	B)								
	1st Dead + Roof Live Uniform Loads (plf)	(unbalanced): Lumber	Increase=1.25, Plate Increase=1	.25						
	Vert: 1-4=-14	9, 4-7=-39, 9-12=-55								
	Concentrated Loads ( Vert: 4=-1823									
	2nd Dead + Roof Live		r Increase=1.25, Plate Increase=1	1.25						
	Uniform Loads (plf) Vert: 1-4=-38	, 4-7=-149, 9-12=-55								
	Concentrated Loads /									

Vert: 4=-1823(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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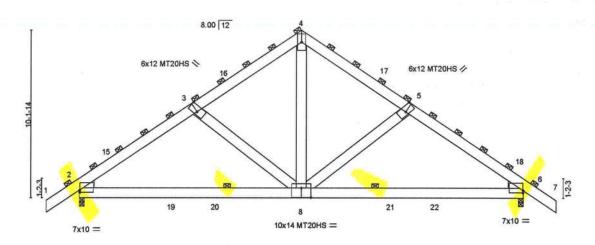


T35583158

Job Truss Truss Type Qty Ply HUBLER RES. T35583158 DBL. HOWE 4296478 T04G 2 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Nov 18 07:12:07 2024 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-8?hLc\_WVm2jts5EdS2MHbTiseSg7i0e7uzB8c2yl0jM 19-9-0 6-3-8 26-11-0 28-11-0

6x12 MT20HS ||

Scale = 1:67.2



13-5-8 Plate Offsets (X, Y)--[2:0-0-4,0-1-10], [3:Edge,0-3-12], [5:Edge,0-3-12], [6:0-0-4,0-1-10], [8:0-7-0,0-7-0] LOADING (psf) SPACING-5-6-0 CSI. DEFL (loc) I/defl L/d **PLATES** GRIP Plate Grip DOL TC TCLL 20.0 0.15 8-14 1.25 Vert(LL) -0.09 >999 240 244/190 MT20 TCDL 7.0 BC 0.30 -0.16 Lumber DOL 1.25 Vert(CT) 8-14 >999 180 MT20HS 187/143 BCLL 0.0 Rep Stress Incr WB 0.16 0.03 NO Horz(CT) 6 n/a n/a BCDL 10.0 Code FBC2023/TPI2014 Matrix-MS Weight: 555 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

2-0-0 oc purlins (6-0-0 max.)

10-0-0 oc bracing.

(Switched from sheeted: Spacing > 2-8-0).

LUMBER-

2x8 SP 2400F 2.0E 2x8 SP 2400F 2.0E TOP CHORD BOT CHORD 2x8 SP 2400F 2.0E

WEBS

WEDGE Left: 2x6 SP No.2, Right: 2x6 SP No.2

REACTIONS.

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

Max Horz 2=-903(LC 10) Max Uplift 2=-902(LC 12), 6=-902(LC 13)

Max Grav 2=4035(LC 2), 6=4035(LC 2)

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

2-3=-5010/2016, 3-4=-4309/1851, 4-5=-4309/1851, 5-6=-5010/2016 2-8=-1215/3984, 6-8=-1283/3897 BOT CHORD

WEBS 4-8=-2040/2222, 5-8=-969/1109, 3-8=-965/1106

## NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-22; Vuit=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 13-5-8, Zone2 13-5-8 to 17-8-7, Zone1 17-8-7 to 28-11-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \*This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 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) except (jt=lb)
- 10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

  11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1823 lb down at 13-5-8 on top

Contished of hadesign/selection of such connection device(s) is the responsibility of others

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

November 18,2024

A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MTek® 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 mehers only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord mehers only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord mehers only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord mehers. For general guidance regarding the fabrication, storage, delivery, erection and bracing of frusses and truss systems, see ANSITP1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Sefety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply	HUBLER RES.	
4296478	T03G	SCISSORS	1	299,733	NAME OF TAXABLE PARTIES.	T35583
		12 Pa	1	3	Laga (colorado fabrialiai)	
Builders FirstSource (Lake	12 (12)		ID:y4QiaC6?			nc. Mon Nov 18 07:12:07 2024 Page 3 ts5EdS2MHbTimESexiuZ7uzB8c2yl0jM
LOAD CASE(S) Standard	d					
Uniform Loads (plf) Vert: 1-3=70,	3-5=145, 8-10=-21, 6-8=-21					
Horz: 1-3=-99 Concentrated Loads (I	9, 3-5=174					
Vert: 3=-810(	F)	el: Lumber Increase=1.60, Plate Inc	rosso=1 60			
Uniform Loads (plf)		ei. Lumber increase- 1.00, Flate inci	lease=1.00			
Vert: 1-3=92, Horz: 1-3=-12	3-5=47, 8-10=-21, 6-8=-21 21, 3-5=77					
Concentrated Loads (I Vert: 3=-810(I						
15) Dead + 0.6 MWFRS V Uniform Loads (plf)	Vind (Pos. Internal) 4th Parall	el: Lumber Increase=1.60, Plate Incr	rease=1.60			
	3-5=92, 8-10=-21, 6-8=-21					
Concentrated Loads (I	b)					
		el: Lumber Increase=1.60, Plate Inci	rease=1.60			
Uniform Loads (plf) Vert: 1-3=75,	3-5=-0, 8-10=-70, 6-8=-70					
Horz: 1-3=-12 Concentrated Loads (I						
Vert: 3=-810(I	F)	lel: Lumber Increase=1.60, Plate Inc	rease=1.60			
Uniform Loads (plf)		iei. Lumbei morease-1.00, Piate mo	1.00			
Horz: 1-3=-49						
Concentrated Loads (I Vert: 3=-810(I						
<ol> <li>Dead: Lumber Increas Uniform Loads (plf)</li> </ol>	e=0.90, Plate Increase=0.90	Pit. metal=0.90				
	3-5=-49, 8-10=-70, 6-8=-70 b)					
Vert: 3=-810(F	F)	ind (Neg. Int) Left): Lumber Increase	=1 60 Plate Incres	neo=1 60		
Uniform Loads (plf)			- 1.00, Flate Holes	1.00		
Horz: 1-3=47,		o .				
Concentrated Loads (I Vert: 3=-2025	(F)					
<ol> <li>Dead + 0.75 Roof Live Uniform Loads (plf)</li> </ol>	(bal.) + 0.75(0.6 MWFRS W	ind (Neg. Int) Right): Lumber Increas	e=1.60, Plate Incre	ease=1.60		
Vert: 1-3=-117 Horz: 1-3=-37	7, 3-5=-201, 8-10=-70, 6-8=-7 . 3-5=-47	0				
Concentrated Loads (II Vert: 3=-2025	b)					
21) Dead + 0.75 Roof Live		nd (Neg. Int) 1st Parallel): Lumber In	ncrease=1.60, Plat	e Increase	=1.60	
	3-5=-117, 8-10=-70, 6-8=-70					
Horz: 1-3=-93 Concentrated Loads (II	b)					
Vert: 3=-2025 22) Dead + 0.75 Roof Live		nd (Neg. Int) 2nd Parallel): Lumber I	ncrease=1.60, Pla	te Increase	=1.60	
Uniform Loads (plf) Vert: 1-3=-117	7, 3-5=-61, 8-10=-70, 6-8=-70					
Horz: 1-3=-37 Concentrated Loads (II	, 3-5=93					
Vert: 3=-2025		=1 60 Plate increase=1 60				
Uniform Loads (plf)		-1.00, Plate Illorease-1.00				
Horz: 1-3=57,						
Concentrated Loads (II Vert: 3=-810(F						
<li>24) Dead + 0.6 C-C Wind I Uniform Loads (plf)</li>	Min. Upward: Lumber Increas	e=1.60, Plate Increase=1.60				
Vert: 1-3=28, Horz: 1-3=-57	3-5=28, 8-10=-21, 6-8=-21 3-5=57					
Concentrated Loads (II Vert: 3=-810(F	b)					
25) 1st Dead + Roof Live (		se=1.25, Plate Increase=1.25				
	9, 3-5=-49, 8-10=-70, 6-8=-70					
Concentrated Loads (II Vert: 3=-2430)						

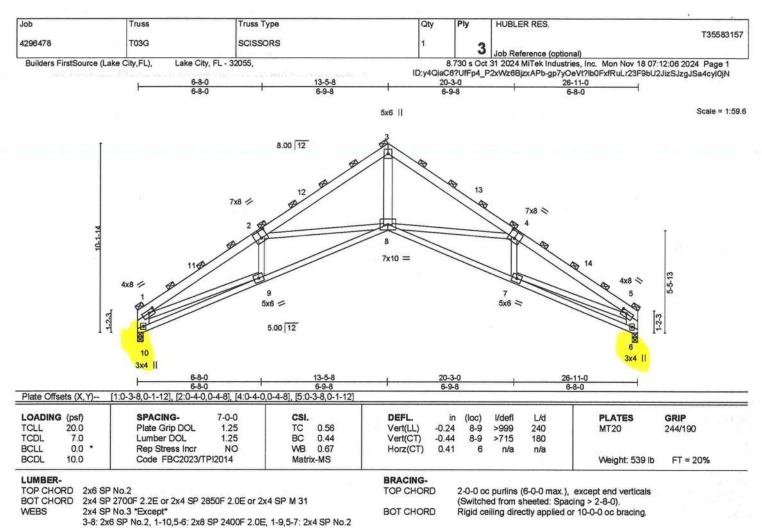
# Continued on page 4

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T35583157



REACTIONS.

10=0-3-8, 6=0-3-8 (size)

Max Horz 10=-978(LC 8)
Max Uplift 10=-843(LC 12), 6=-843(LC 13)
Max Grav 10=4622(LC 1), 6=4622(LC 1)

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

TOP CHORD 1-2=-12095/2306, 2-3=-11426/787, 3-4=-11426/955, 4-5=-12095/1687, 1-10=-4837/1315,

5-6=-4837/1068

9-10=-1125/2049, 8-9=-2401/10754, 7-8=-1166/10580, 6-7=-385/1299 **BOT CHORD** 

WEBS 3-8=-1025/8493, 4-8=-1491/2274, 4-7=-810/280, 2-8=-1389/2081, 2-9=-810/340,

1-9=-1242/8937, 5-7=-834/8937

# NOTES-

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Webs connected as follows: 2x6 - 2 rows staggered at 0-8-0 oc, 2x4 - 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to
ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

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

4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-10 to 3-3-10, Zone1 3-3-10 to 13-5-8, Zone2 13-5-8 to 17-8-7, Zone1 17-8-7 to 26-7-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

6) 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.

8) Bearing at joint(s) 10, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=843, 6=843. 10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28 has/have been

modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regus PE No. 8126 MITek Inc. IBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 18,2024

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Job	Truss	Truss Type	Qty	Ply	HUBLER RES.	Visitation of the control
4296478	T02G	COMMON SUPPORTED GAB	1			T35583155
4200 11 0	1020	SOMMEN SOLVEN SALES SALE			Job Reference (optional)	
Builders FirstSc	ource (Lake City,FL), Lake	City, FL - 32055,		8.730 s Oc	t 31 2024 MiTek Industries, Inc. Mon Nov 1	8 07:12:05 2024 Page 4

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## LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-8=22, 8-15=22, 16-29=-17

Horz: 1-29=45, 1-8=-45, 8-15=45, 15-16=45

Concentrated Loads (lb)

Vert: 8=-607(F)

25) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-8=-149, 8-15=-38, 16-29=-55

Concentrated Loads (lb) Vert: 8=-1823(F)

26) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-8=-38, 8-15=-149, 16-29=-55

Concentrated Loads (lb) Vert: 8=-1823(F)

27) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-8=-121, 8-15=-38, 16-29=-55

Concentrated Loads (lb) Vert: 8=-1519(F)

28) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-8=-38, 8-15=-121, 16-29=-55

Concentrated Loads (lb) Vert: 8=-1519(F)

Job	Truss	Truss Type	Qty	Ply	HUBLER RES.	
4296478	T02G	COMMON SUPPORTED GAB	1	1.0	1	T35583
Builders FirstSource (L	ake City FI ) Lake	City, FL - 32055,		8 730 s O	Job Reference (optional)	c. Mon Nov 18 07:12:05 2024 Page 2
	and Oily, E, Earl					5FKeKpW2dWSe1yE1gqRfi1YAyl0jO
NOTES- 7) Truss to be fully sh	eathed from one face of	or securely braced against lateral movement (i.e. o	liagonal web).			
8) Gable studs space		of bottom about his load paragraph with any	other live leads			
		of bottom chord live load nonconcurrent with any or load of 20.0psf on the bottom chord in all areas w		3-6-0 tal	by 2-0-0 wide will fit between	n the bottom chord and
any other membe		a) of trues to harries plate conclus of without adding	- 400 lb	ininka) di	2	4E 0E-0E4 00-000
	21=204, 20=358, 19=3	s) of truss to bearing plate capable of withstandin 35, 18=281, 17=608.	g 100 ib upilit at	joint(s) 18	o except (Jt=ID) 29=206, 23=2	15, 25=354, 26=336,
12) Load case(s) 1, 2,	3, 4, 5, 6, 7, 8, 9, 10,	11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 2	4, 25, 26, 27, 28	has/have	e been modified. Building des	igner must review loads
	are correct for the inter epresentation does not	ded use of this truss. depict the size or the orientation of the purlin alon	g the top and/or	bottom cl	hord.	
14) Hanger(s) or othe	r connection device(s)	shall be provided sufficient to support concentrate				asign/selection of such
	e(s) is the responsibility E(S) section, loads app	or others.  blied to the face of the truss are noted as front (F)	or back (B).			
LOAD CARE(E) Char	and the second	=======================================				
LOAD CASE(S) Star 1) Dead + Roof Live (		ease=1.25, Plate Increase=1.25				
Uniform Loads (plf)		- 66				
Concentrated Load	.149, 8-15=-149, 16-29 s (lb)	=-00				
Vert: 8=-18	323(F)	- L				
Uniform Loads (plf)	사람이 하는 사람들이 살아 있다면 가는 사람이 되었다.	r Increase=1.25, Plate Increase=1.25				
Vert: 1-8=-	121, 8-15=-121, 16-29	=-55				
Concentrated Load Vert: 8=-15						
		e: Lumber Increase=1.25, Plate Increase=1.25				
Uniform Loads (plf) Vert: 1-8=-	38, 8-15=-38, 16-29=-1	110				
Concentrated Load						
Vert: 8=-60 4) Dead + 0.6 C-C Wil		1: Lumber Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)	FA SE	M1922				
	106, 8-15=106, 16-29=- =90, 1-8=-129, 8-15=1:					
Concentrated Load	s (lb)					
Vert: 8=-60 5) Dead + 0.6 C-C Wii		2: Lumber Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)						
	06, 8-15=106, 16-29=-  173, 1-8=-129, 8-15=					
Concentrated Load	s (lb)	NE-14/182 (148 1592)				
Vert: 8=-60 6) Dead + 0.6 C-C Wil		1: Lumber Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)	440 0 45- 440 40 00					
	113, 8-15=-113, 16-29 =129, 1-8=74, 8-15=-7					
Concentrated Load						
Vert: 8=-60 7) Dead + 0.6 C-C Wil		2: Lumber Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)		- 55				
	113, 8-15=-113, 16-29 =-134, 1-8=74, 8-15=-7					
Concentrated Load Vert: 8=-60						
8) Dead + 0.6 MWFRS		eft: Lumber Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)	33, 8-15=55, 16-29=-1	7				
	=56, 1-8=10, 8-15=78,					
Concentrated Load: Vert: 8=-60						
		Right: Lumber Increase=1.60, Plate Increase=1.60	is:			
Uniform Loads (plf)	5, 8-15=-33, 16-29=-1	7				
Horz: 1-29:	=-72, 1-8=-78, 8-15=-1					
Concentrated Loads Vert: 8=-60						
10) Dead + 0.6 MWFF	RS Wind (Neg. Internal)	Left: Lumber Increase=1.60, Plate Increase=1.60	i			
Uniform Loads (pli Vert: 1-8=	f) :-88, 8-15=-0, 16-29=-5	55				
Horz: 1-2	9=95, 1-8=49, 8-15=38					
Concentrated Loa Vert: 8=-6						
11) Dead + 0.6 MWFR	RS Wind (Neg. Internal)	Right: Lumber Increase=1.60, Plate Increase=1.6	60			
Uniform Loads (plf Vert: 1-8=	f) :-0, 8-15=-88, 16-29=-5	55				

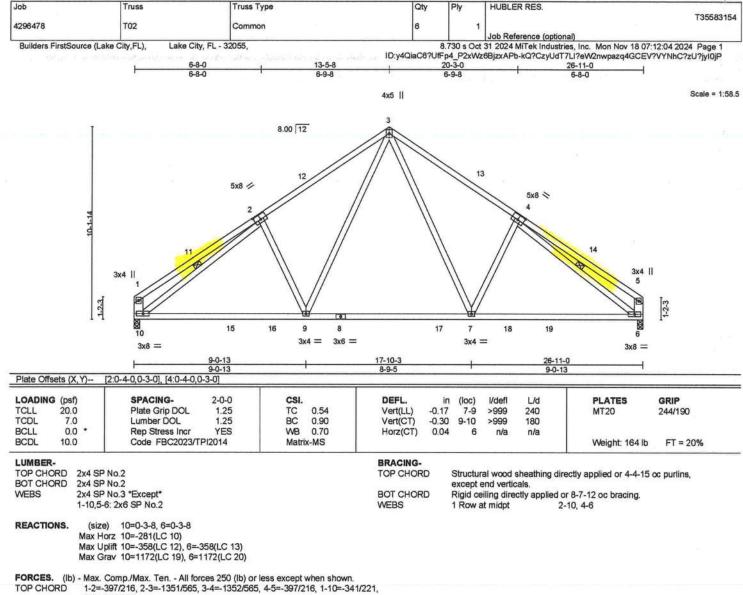
continued on page 3

Horz: 1-29=-33, 1-8=-38, 8-15=-49, 15-16=-95

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T35583155



5-6=-341/221

BOT CHORD 9-10=-460/1288, 7-9=-171/877, 6-7=-298/1090

**WEBS** 3-7=-312/708, 4-7=-286/377, 3-9=-312/707, 2-9=-286/377, 2-10=-1144/317,

4-6=-1144/317

## NOTES-

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-12 to 3-2-12, Zone1 3-2-12 to 13-5-8, Zone2 13-5-8 to 17-8-7, Zone1 17-8-7 to 26-8-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) 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.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=358, 6=358.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regne PE No. 38126 MiTok lac. DBA MiTok USA FL Cort 6634 16023 Swingley Ridge Rd. Chestorfield, MO 63017

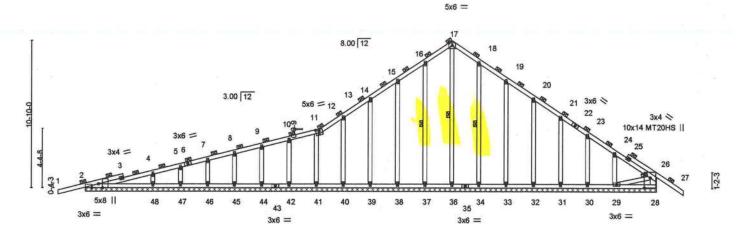
November 18,2024

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Job	Truss	Truss Type	Qty	Ply	HUBLER RES.	**************************************		
4296478	T01G	GABLE	2	2 1		T35583153		
1-3-		No.			Job Reference (optional)			
Builders FirstSourc	e (Lake City,FL), Lak	e City, FL - 32055,			31 2024 MiTek Industries, Inc. Mon Nov 1			
			ID:y4QiaC6?UfF	p4_P2xWz	:6BjzxAPb-kQ?CzyUdT7LI?eW2nwpazq40	33EhMVeAhC?zU?jyl0jP		
	2-0-0 ,	17-2-6	27-0-0	-	42-0-0	,44-0-0 ,		
1 2	2-0-0	17-2-6	9-9-10		15-0-0	2-0-0		

Scale = 1:81.5



		1				42-0-0 42-0-0							
Plate Offsets (X, Y)		[2:0-5-12,Edge], [2:0-3-8	:0-5-12,Edge], [2:0-3-8,Edge], [12:0-3-0,0-1-8], [26:0-8-15,0-5-0]										
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	0.55	Vert(LL)	-0.03	27	n/r	120	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	-0.04	27	n/r	120	MT20HS	187/143	
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.02	28	n/a	n/a			
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-S	3 6					Weight: 282 lb	FT = 20%	

BRACING-

WEBS

TOP CHORD BOT CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals. Rigid ceiling directly applied or 6-0-0  $\infty$  bracing.

17-36, 16-37, 18-34

1 Row at midpt

LUMBER-

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

WEBS 2x6 SP No.2 \*Except\* 26-29: 2x4 SP No.3

**OTHERS** 2x4 SP No.3

REACTIONS. All bearings 42-0-0. (lb) -

Max Horz 2=390(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 28, 36, 41, 42, 44, 45, 46, 47 except 2=-220(LC 8), 37=-107(LC 12), 38=-120(LC 12), 39=-115(LC 12), 40=-111(LC 12), 48=-132(LC 8), 34=-103(LC 13), 33=-122(LC 13), 32=-114(LC 13), 31=-115(LC 13), 30=-117(LC 13), 29=-159(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 37, 38, 39, 40, 41, 42, 44, 45,

46, 47, 34, 33, 32, 31, 30, 29 except 28=263(LC 26), 2=290(LC 1), 36=276(LC 13), 48=321(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-284/101, 14-15=-145/333, 15-16=-124/467, 16-17=-141/579, 17-18=-141/579,

18-19=-113/467, 19-20=-81/333

**BOT CHORD** 

2-48=-149/373, 47-48=-149/373, 46-47=-149/373, 45-46=-149/373, 44-45=-149/373, 42-44=-149/373, 41-42=-149/373, 40-41=-149/373, 39-40=-149/373, 38-39=-149/373, 37-38=-149/373, 36-37=-149/373, 34-36=-149/373, 33-34=-149/373, 32-33=-149/373,

31-32=-149/373, 30-31=-149/373, 29-30=-149/373

17-36=-475/79, 4-48=-222/275

NOTES-

WEBS

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

2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 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

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 MT20 plates unless otherwise indicated.

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

7) Gable requires continuous bottom chord bearing.

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

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

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

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Rogan PE No. S\$126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 18,2024

CONTINUED ON PAGE 2

CONTINUED ON PAGE MIL-7473 rev. 1/2/2023 BEFORE USE.

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