

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0225-1024

Lot 21 Magnolia Hills

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I74762414 thru I74762437

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844



July 10,2025

Galinski, John

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.

Job Truss Truss Type Qty Lot 21 Magnolia Hills 174762414 ATTIC J0225-1024 Α1 3 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Wed Jul 9 06:21:38 2025 Page 1 ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

40-5-8

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

27-28, 27-29

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-9.

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

Weight: 547 lb

FT = 20%

240

>999

1 Row at midpt

1 Brace at Jt(s): 27, 28, 29

46-2-0 44-11-0 32-6-13 34-7-12 2-1-5 2-0-15 44-5-8 22-5-8 1-3-0 Scale = 1:85.9

8x8 = 8x8 = 8.00 12 8 10 11 26 6x8 / 3x10 || 5x8 = 35 32 3x10 || 6x8 × 12 4x6 🗸 4x6 💸 REMOVE AFTER INSTALLATION 13 7-2-4 36 31 6x8 / 6x8 ❖ 25-1-0 12 0-4-0 2-0-15 21 19 20 24 23 22 18 17 16 5x5 = 8x12 = 8x12 = 5x5 = 4x6 || 8x8 = 3x6 || 6x8 = 8x8 =

		4-5-8	4-7-12	I	13-6-	0	0 ⁻ 10 ⁻ 4	11-2	-4	1	5-9-12	4-5-8	1
Plate Off	fsets (X,Y)	[7:0-4-4,0-4	1-12], [9:0-4-4,	0-4-12], [18:0-	-4-8,0-4-0], [22:0-4-8,0-4-	12]						
LOADIN	G (psf)	SPA	CING-	2-0-0	CSI.		DEFL.	in (loc) I/defl	L/d	PLAT	ES GR	.IP
TCLL	20.0	Plate	e Grip DOL	1.15	TC	0.31	Vert(LL)	-0.29 20-2	2 >921	360	MT20	244	4/190
TCDL	10.0	Lum	ber DOL	1.15	BC	0.45	Vert(CT)	-0.40 20-2	2 >672	240			
BCLL	0.0 *	Rep	Stress Incr	YES	WB	0.64	Horz(CT)	0.03 1	6 n/a	n/a			

23-5-8

Wind(LL)

TOP CHORD

BOT CHORD

WEBS

JOINTS

34-7-12

0.22 18-20

22-7-4

Matrix-S

LUMBER-BRACING-

TOP CHORD 2x8 SP 2400F 2.0E **BOT CHORD** 2x10 SP 2400F 2.0E *Except*

22-25,18-25: 2x6 SP No.1 2x4 SP No.2 *Except*

WEBS 5-22,11-18,6-26,2-24,14-16,10-26: 2x6 SP No.1

REACTIONS. (size) 24=0-3-8, 16=0-3-8, 20=0-3-8

Max Horz 24=299(LC 11)

Max Grav 24=2234(LC 2), 16=2157(LC 2), 20=1817(LC 18)

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

Code IRC2021/TPI2014

TOP CHORD 2-3=-2432/19, 3-5=-2785/18, 5-6=-2309/161, 6-7=-1823/281, 7-8=-1566/267, 8-9=-1566/267, 9-10=-1820/284, 10-11=-2262/171, 11-13=-2712/58, 13-14=-2334/42,

2-24=-2097/66, 14-16=-2019/81

BOT CHORD 23-24=-224/433, 22-23=-38/2157, 20-22=0/2151, 18-20=0/2151, 17-18=0/1885 **WEBS**

5-22=0/730, 11-18=0/576, 6-28=-1169/0, 27-28=-1143/0, 27-29=-1143/0, 10-29=-1175/0,

2-23=0/1839, 7-28=-9/474, 9-29=-13/470, 3-23=-839/74, 3-22=-246/450,

13-18=-244/562, 13-17=-784/101, 14-17=0/1744

NOTES-

BCDL

10.0

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed: MWFRS (envelope) and C-C Exterior(2E) -0-11-7 to 3-6-7, Interior(1) 3-6-7 to 14-5-8, Exterior(2R) 14-5-8 to 20-9-12, Interior(1) 20-9-12 to 30-5-8, Exterior(2R) 30-5-8 to 36-9-12, Interior(1) 36-9-12 to 45-10-7 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x6 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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) Ceiling dead load (10.0 psf) on member(s). 5-6, 10-11, 6-28, 27-28, 27-29, 10-29; Wall dead load (5.0psf) on member(s).5-22, 11-18
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 20-22, 18-20
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Attic room checked for L/360 deflection.



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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 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



8.630 s Sep 26 2024 MiTek Industries, Inc. Wed Jul 9 06:21:40 2025 Page 1 ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

40-5-8

5-9-12

2-0-0 oc purlins (6-0-0 max.), except end verticals

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

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

1 Brace at Jt(s): 7, 9, 2, 14, 27, 28, 29

44-11-0

4-5-8

46-2-0 44-11-0 32-6-13 34-7-12 2-1-5 2-0-15 44-5-8 12-4-3 22-5-8 30-5-8 1-3-0 Scale = 1:85.9

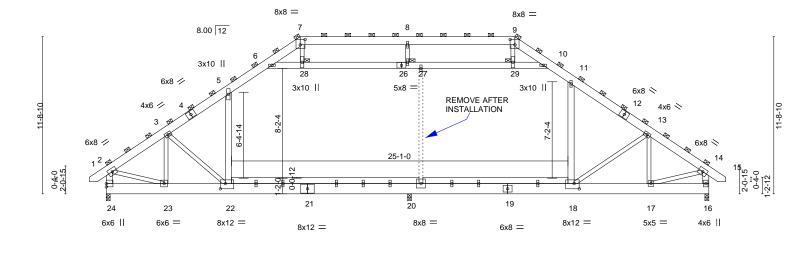


Plate Off	fsets (X,Y)	[7:0-4-4,0-4-12], [9:0-4-4	,0-4-12], [18:0	-4-8,0-4-12 <u>],</u>	[22:0-4-8,0-	4-12]						
LOADIN	IG (psf)	SPACING-	4-0-0	CSI.		DEFL		in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(I	.L) -C	0.45 20-22	>598	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT) -C	0.61 20-22	>441	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.64	Horz(CT) ().04 16	n/a	n/a		
BCDL	10.0	Code IRC2021/Ti	PI2014	Matri	x-S	Wind	LL) ().22 18-20	>999	240	Weight: 1094 lb	FT = 20%

0-10-4

BRACING-

TOP CHORD

BOT CHORD

JOINTS

34-7-12

11-2-4

22-7-4

13-6-0

LUMBER-

2x8 SP 2400F 2.0E TOP CHORD

BOT CHORD 2x10 SP 2400F 2.0E *Except* 22-25,18-25: 2x6 SP No.1

2x4 SP No.2 *Except*

4-5-8

WEBS 5-22,11-18,6-26,2-24,14-16,10-26: 2x6 SP No.1

REACTIONS. (size) 24=0-3-8, 16=0-3-8, 20=0-3-8

Max Horz 24=-494(LC 6)

Max Grav 24=5742(LC 2), 16=4452(LC 2), 20=3642(LC 14)

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

4-7-12

TOP CHORD $2 - 3 = -6103/0, \ 3 - 5 = -6141/0, \ 5 - 6 = -4906/0, \ 6 - 7 = -3604/579, \ 7 - 8 = -3092/535, \ 8 - 9 = -3092/535, \ 9 - 9 = -3092/535, \ 9 - 9 = -3092$

9-10=-3620/551, 10-11=-4856/0, 11-13=-5822/0, 13-14=-4736/0, 2-24=-5193/0, 14-16=-4098/0

23-24=-353/928, 22-23=0/5333, 20-22=0/4674, 18-20=0/4674, 17-18=0/3809,

16-17=0/531 WFBS

5-22=0/2100, 11-18=0/1303, 6-28=-2970/0, 27-28=-2926/0, 27-29=-2926/0, 10-29=-2984/0, 2-23=0/4670, 8-27=-177/256, 7-28=-7/934, 9-29=0/961, 3-23=-1069/342,

3-22=-950/672, 13-18=-374/1539, 13-17=-1906/106, 14-17=0/3485

NOTES-

BOT CHORD

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, 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x6 MT20 unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Ceiling dead load (10.0 psf) on member(s). 5-6, 10-11, 6-28, 27-28, 27-29, 10-29; Wall dead load (5.0psf) on member(s).5-22, 11-18
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 20-22, 18-20
- 11) 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, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41 has/have been modified. Building designer must review loads to verify that they are correct for the

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Continuentled page 2this truss

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- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15. Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-120, 2-5=-120, 5-6=-160, 6-7=-120, 7-9=-120, 9-10=-120, 10-11=-160, 11-14=-120, 14-15=-120, 22-24=-80(F=-40), 18-22=-80, 16-18=-40, 6-10=-40 Drag: 5-22=-20, 11-18=-20

2) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-100, 2-5=-100, 5-6=-140, 6-7=-100, 7-9=-100, 9-10=-100, 10-11=-140, 11-14=-100, 14-15=-100, 22-24=-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40 Drag: 5-22=-20, 11-18=-20

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-40, 2-5=-40, 5-6=-80, 6-7=-40, 7-9=-40, 9-10=-40, 10-11=-80, 11-14=-40, 14-15=-40, 22-24=-120(F=-40), 16-22=-80, 6-10=-40 Drag: 5-22=-20, 11-18=-20

4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=5, 2-5=-26, 5-6=-50, 6-7=-26, 7-9=41, 9-10=22, 10-11=-2, 11-14=22, 14-15=8, 22-24=-64(F=-40), 18-22=-48, 16-18=-24, 6-10=-24 Horz: 1-2=-29, 2-7=2, 9-14=46, 14-15=32

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=8, 2-5=22, 5-6=-2, 6-7=22, 7-9=41, 9-10=-26, 10-11=-50, 11-14=-26, 14-15=5, 22-24=-64(F=-40), 18-22=-48, 16-18=-24, 6-10=-24 Horz: 1-2=-32, 2-7=-46, 9-14=-2, 14-15=29

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-56, 2-5=-69, 5-6=-109, 6-7=-69, 7-9=-2, 9-10=-21, 10-11=-61, 11-14=-21, 14-15=-8, 22-24=-80(F=-40), 18-22=-80, 16-18=-40, 6-10=-40 Horz: 1-2=16, 2-7=29, 9-14=19, 14-15=32

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-8, 2-5=-21, 5-6=-61, 6-7=-21, 7-9=-2, 9-10=-69, 10-11=-109, 11-14=-69, 14-15=-56, 22-24=-80(F=-40), 18-22=-80, 16-18=-40, 6-10=-40 Horz: 1-2=-32, 2-7=-19, 9-14=-29, 14-15=-16

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=28, 2-5=41, 5-6=17, 6-7=41, 7-9=17, 9-10=17, 10-11=-7, 11-14=17, 14-15=4, 22-24=-64(F=-40), 18-22=-48, 16-18=-24, 6-10=-24 Horz: 1-2=-52, 2-7=-65, 9-14=41, 14-15=28

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=4, 2-5=17, 5-6=-7, 6-7=17, 7-9=17, 9-10=41, 10-11=17, 11-14=41, 14-15=28, 22-24=-64(F=-40), 18-22=-48, 16-18=-24, 6-10=-24 Horz: 1-2=-28, 2-7=-41, 9-14=65, 14-15=52

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60. Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=28, 2-5=41, 5-6=17, 6-7=41, 7-9=17, 9-10=17, 10-11=-7, 11-14=17, 14-15=4, 22-24=-64(F=-40), 18-22=-48,

16-18=-24, 6-10=-24

Horz: 1-2=-52, 2-7=-65, 9-14=41, 14-15=28

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=4, 2-5=17, 5-6=-7, 6-7=17, 7-9=17, 9-10=41, 10-11=17, 11-14=41, 14-15=28, 22-24=-64(F=-40), 18-22=-48,

16-18=-24. 6-10=-24

Horz: 1-2=-28, 2-7=-41, 9-14=65, 14-15=52

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=12, 2-5=-2, 5-6=-42, 6-7=-2, 7-9=-26, 9-10=-26, 10-11=-66, 11-14=-26, 14-15=-12, 22-24=-80(F=-40), 18-22=-80, 16-18=-40, 6-10=-40

Horz: 1-2=-52, 2-7=-38, 9-14=14, 14-15=28 Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-12, 2-5=-26, 5-6=-66, 6-7=-26, 7-9=-26, 9-10=-2, 10-11=-42, 11-14=-2, 14-15=12, 22-24=-80(F=-40), 18-22=-80, 16-18=-40, 6-10=-40

Horz: 1-2=-28, 2-7=-14, 9-14=38, 14-15=52

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

14) Dead + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-2=-40, 2-5=-40, 5-6=-80, 6-7=-40, 7-9=-40, 9-10=-40, 10-11=-80, 11-14=-40, 14-15=-40, 22-24=-240(F=-200),

18-22=-240, 16-18=-40, 6-10=-40

Drag: 5-22=-20, 11-18=-20

15) Dead: Lumber Increase=1.00, Plate Increase=1.00



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Continued on page 3



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BFFORF LISE

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-40, 2-5=-40, 5-6=-80, 6-7=-40, 7-9=-40, 9-10=-40, 10-11=-80, 11-14=-40, 14-15=-40, 22-24=-240(F=-200), 18-22=-240, 16-18=-40, 6-10=-40 Drag: 5-22=-20, 11-18=-20

16) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60. Plate Increase=1.60

Uniform Loads (plf) Vert: 1-2=-112, 2-5=-122, 5-6=-162, 6-7=-122, 7-9=-71, 9-10=-86, 10-11=-126, 11-14=-86, 14-15=-76, 22-24=-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40

Horz: 1-2=12, 2-7=22, 9-14=14, 14-15=24 Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

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

Uniform Loads (plf)

Vert: 1-2=-76, 2-5=-86, 5-6=-126, 6-7=-86, 7-9=-71, 9-10=-122, 10-11=-162, 11-14=-122, 14-15=-112, 22-24=-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40 Horz: 1-2=-24, 2-7=-14, 9-14=-22, 14-15=-12

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

18) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-61, 2-5=-71, 5-6=-111, 6-7=-71, 7-9=-89, 9-10=-89, 10-11=-129, 11-14=-89, 14-15=-79, 22-24=-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40 Horz: 1-2=-39, 2-7=-29, 9-14=11, 14-15=21

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

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

Vert: 1-2=-79, 2-5=-89, 5-6=-129, 6-7=-89, 7-9=-89, 9-10=-71, 10-11=-111, 11-14=-71, 14-15=-61, 22-24=-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40 Horz: 1-2=-21, 2-7=-11, 9-14=29, 14-15=39

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

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

Uniform Loads (plf)

Vert: 1-2=-24, 2-7=-33, 7-9=-24, 9-14=-24, 14-15=-24, 22-24=-64(F=-40), 18-22=-48, 16-18=-24

Horz: 2-7=9

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

Uniform Loads (plf)

Vert: 1-2=-24, 2-7=-24, 7-9=-24, 9-14=-33, 14-15=-24, 22-24=-64(F=-40), 18-22=-48, 16-18=-24

Horz: 9-14=-9

22) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-120, 2-5=-120, 5-6=-160, 6-7=-120, 7-9=-120, 9-10=-40, 10-11=-80, 11-14=-40, 14-15=-40, 22-24=-80(F=-40), 18-22=-80, 16-18=-40, 6-10=-40 Drag: 5-22=-20, 11-18=-20

23) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-40, 2-5=-40, 5-6=-80, 6-7=-40, 7-9=-120, 9-10=-120, 10-11=-160, 11-14=-120, 14-15=-120, 22-24=-80(F=-40), 18-22=-80, 16-18=-40, 6-10=-40 Drag: 5-22=-20, 11-18=-20

24) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-100, 2-5=-100, 5-6=-140, 6-7=-100, 7-9=-100, 9-10=-40, 10-11=-80, 11-14=-40, 14-15=-40, 22-24=-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40 Drag: 5-22=-20, 11-18=-20

25) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-40, 2-5=-40, 5-6=-80, 6-7=-40, 7-9=-100, 9-10=-100, 10-11=-140, 11-14=-100, 14-15=-100, 22-24=-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40 Drag: 5-22=-20, 11-18=-20

26) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=5, 2-5=-26, 5-6=-50, 6-7=-26, 7-9=41, 9-10=22, 10-11=-2, 11-14=22, 14-15=8, 22-24=-64(F=-40), 18-22=-48,

16-18=-24, 6-10=-24

Horz: 1-2=-29, 2-7=2, 9-14=46, 14-15=32

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

27) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=8, 2-5=22, 5-6=-2, 6-7=22, 7-9=41, 9-10=-26, 10-11=-50, 11-14=-26, 14-15=5, 22-24=-64(F=-40), 18-22=-48,

16-18=-24, 6-10=-24

Horz: 1-2=-32, 2-7=-46, 9-14=-2, 14-15=29

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

28) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-56, 2-5=-69, 5-6=-109, 6-7=-69, 7-9=-2, 9-10=-21, 10-11=-61, 11-14=-21, 14-15=-8, 22-24=-80(F=-40),

18-22=-80, 16-18=-40, 6-10=-40

Horz: 1-2=16, 2-7=29, 9-14=19, 14-15=32

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

29) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

> Vert: 1-2=-8, 2-5=-21, 5-6=-61, 6-7=-21, 7-9=-2, 9-10=-69, 10-11=-109, 11-14=-69, 14-15=-56, 22-24=-80(F=-40), 18-22=-80, 16-18=-40, 6-10=-40

Horz: 1-2=-32, 2-7=-19, 9-14=-29, 14-15=-16

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

30) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60



July 10,2025

Continued on page 4



🗥 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 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Lot 21 Magnolia Hills	
						174762415
J0225-1024	A1-GR	ATTIC	1	2	Job Reference (optional)	

8.630 s Sep 26 2024 MiTek Industries, Inc. Wed Jul 9 06:21:40 2025 Page 4 ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=28, 2-5=41, 5-6=17, 6-7=41, 7-9=17, 9-10=17, 10-11=-7, 11-14=17, 14-15=4, 22-24=-64(F=-40), 18-22=-48, 16-18=-24, 6-10=-24

Horz: 1-2=-52, 2-7=-65, 9-14=41, 14-15=28

Drag: 7-8=-0. 8-9=0. 5-22=-20. 11-18=-20

31) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=4, 2-5=17, 5-6=-7, 6-7=17, 7-9=17, 9-10=41, 10-11=17, 11-14=41, 14-15=28, 22-24=-64(F=-40), 18-22=-48, 16-18=-24, 6-10=-24

Horz: 1-2=-28, 2-7=-41, 9-14=65, 14-15=52

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

32) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

> Vert: 1-2=28, 2-5=41, 5-6=17, 6-7=41, 7-9=17, 9-10=17, 10-11=-7, 11-14=17, 14-15=4, 22-24=-64(F=-40), 18-22=-48, 16-18=-24, 6-10=-24 Horz: 1-2=-52 2-7=-65 9-14=41 14-15=28

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=4, 2-5=17, 5-6=-7, 6-7=17, 7-9=17, 9-10=41, 10-11=17, 11-14=41, 14-15=28, 22-24=-64(F=-40), 18-22=-48, 16-18=-24, 6-10=-24 Horz: 1-2=-28, 2-7=-41, 9-14=65, 14-15=52

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=12, 2-5=-2, 5-6=-42, 6-7=-2, 7-9=-26, 9-10=-26, 10-11=-66, 11-14=-26, 14-15=-12, 22-24=-80(F=-40), 18-22=-80, 16-18=-40, 6-10=-40

Horz: 1-2=-52, 2-7=-38, 9-14=14, 14-15=28 Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-12, 2-5=-26, 5-6=-66, 6-7=-26, 7-9=-26, 9-10=-2, 10-11=-42, 11-14=-2, 14-15=12, 22-24=-80(F=-40), 18-22=-80, 16-18=-40, 6-10=-40

Horz: 1-2=-28, 2-7=-14, 9-14=38, 14-15=52

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20 36) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-112, 2-5=-122, 5-6=-162, 6-7=-122, 7-9=-71, 9-10=-86, 10-11=-126, 11-14=-86, 14-15=-76, 22-24=-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40

Horz: 1-2=12, 2-7=22, 9-14=14, 14-15=24

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

37) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-76, 2-5=-86, 5-6=-126, 6-7=-86, 7-9=-71, 9-10=-122, 10-11=-162, 11-14=-122, 14-15=-112, 22-24=-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40

Horz: 1-2=-24, 2-7=-14, 9-14=-22, 14-15=-12

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

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

Uniform Loads (plf)

Vert: 1-2=-61, 2-5=-71, 5-6=-111, 6-7=-71, 7-9=-89, 9-10=-89, 10-11=-129, 11-14=-89, 14-15=-79, 22-24=-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40

Horz: 1-2=-39, 2-7=-29, 9-14=11, 14-15=21

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

39) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-79, 2-5=-89, 5-6=-129, 6-7=-89, 7-9=-89, 9-10=-71, 10-11=-111, 11-14=-71, 14-15=-61, 22-24=-200(F=-160),

18-22=-200, 16-18=-40, 6-10=-40

Horz: 1-2=-21, 2-7=-11, 9-14=29, 14-15=39

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

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

Uniform Loads (plf)

Vert: 1-2=-24, 2-7=-33, 7-9=-24, 9-14=-24, 14-15=-24, 22-24=-64(F=-40), 18-22=-48, 16-18=-24

Horz: 2-7=9

41) Reversal: Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.60. Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-24, 2-7=-24, 7-9=-24, 9-14=-33, 14-15=-24, 22-24=-64(F=-40), 18-22=-48, 16-18=-24

Horz: 9-14=-9



July 10,2025





Job Truss Truss Type Qty Lot 21 Magnolia Hills 174762416 J0225-1024 A1GE **GABLE** Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Wed Jul 9 06:21:39 2025 Page 1

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

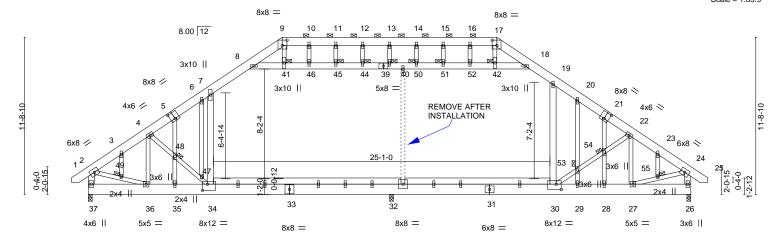
except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 9-17.

1 Brace at Jt(s): 40, 41, 42, 44, 45, 48, 49, 50, 51, 53, 54, 55

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

ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

46-2-0 44-11-0 32-6-13 34-7-12 2-1-5 2-0-15 30-5-8 8-0-0 44-5-8 12-4-3 22-5-8 1-3-0 Scale = 1:85.9



	4-5-8	9-1-4	1	22-7-	4	23-5 ₇ 8	34-7-12	<u>-</u>	1	40-5-8 ₁	44-11-0)
	4-5-8	4-7-12	I	13-6-	0	0-10-4	11-2-4		١	5-9-12	4-5-8	
Plate Offsets (X,	/) [5:0-4-0,0	-6-0], [9:0-4-4,0	-4-12], [17:0-4	1-4,0-4-12], [2	21:0-4-0,0-6-	0], [30:0-4-8,0-4-1	2], [34:0-4-8,0-	5-8]				
LOADING (psf)	SP	ACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATE	S	GRIP
TCLL 20.0	Pla	te Grip DOL	1.15	TC	0.31	Vert(LL)	-0.28 32-34	>956	360	MT20		244/190
TCDL 10.0	Lui	mber DOL	1.15	BC	0.44	Vert(CT)	-0.38 32-34	>699 2	240			
BCLL 0.0	* Re	p Stress Incr	YES	WB	0.58	Horz(CT)	0.03 26	n/a	n/a			
BCDL 10.0	Co	de IRC2021/TP	12014	Matrix	x-S	Wind(LL)	0.27 30-32	>983 2	240	Weight	: 596 lb	FT = 20%

BOT CHORD

JOINTS

LUMBER-BRACING-TOP CHORD

TOP CHORD 2x8 SP 2400F 2.0E **BOT CHORD** 2x10 SP 2400F 2.0E *Except*

34-38,30-38: 2x6 SP No.1

2x4 SP No.2 *Except* WEBS

7-34,19-30,8-39,2-37,24-26,18-39: 2x6 SP No.1

2x4 SP No.2 **OTHERS**

REACTIONS. (size) 37=0-3-8, 26=0-3-8, 32=0-3-8

Max Horz 37=374(LC 11)

Max Uplift 37=-89(LC 12), 26=-93(LC 13)

Max Grav 37=2252(LC 2), 26=2176(LC 2), 32=1780(LC 18)

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

2-3=-2532/277, 3-4=-2381/289, 4-5=-2664/266, 5-6=-2869/280, 6-7=-2827/305, 7-8=-2332/431, 8-9=-1898/615, 9-10=-1650/556, 10-11=-1645/556, 11-12=-1645/556,

12-13=-1645/556, 13-14=-1645/556, 14-15=-1645/556, 15-16=-1645/556,

16-17=-1650/557, 17-18=-1891/609, 18-19=-2282/431, 19-20=-2752/344, 20-21=-2663/305, 21-22=-2648/268, 22-23=-2281/317, 23-24=-2426/307, 2-37=-2145/310,

24-26=-2065/332

BOT CHORD 36-37=-303/527, 35-36=-243/2160, 34-35=-243/2160, 32-34=-25/2177, 30-32=-25/2177,

29-30=-166/1906, 28-29=-166/1906, 27-28=-166/1906, 26-27=-43/298

7-34=0/974, 19-30=0/812, 8-41=-1224/52, 41-46=-1198/60, 45-46=-1198/60,

44-45=-1198/60, 40-44=-1198/60, 40-50=-1198/60, 50-51=-1198/60, 51-52=-1198/60, 42-52=-1198/60, 18-42=-1237/67, 2-49=-101/1773, 36-49=-103/1830, 9-41=-206/679, 17-42=-227/667, 4-36=-534/188, 4-48=-346/496, 47-48=-344/471, 34-47=-419/490, 30-53=-376/597, 53-54=-341/556, 22-54=-356/585, 22-27=-632/181, 27-55=-132/1735,

24-55=-129/1682, 10-46=-277/144, 5-48=-549/9, 35-48=-538/7, 16-52=-270/156,

20-53=-306/47, 29-53=-338/31

NOTES-

WEBS

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-11-7 to 3-6-7, Exterior(2N) 3-6-7 to 14-5-8, Corner(3R) 14-5-8 to 18-11-6, Exterior(2N) 18-11-6 to 30-5-8, Corner(3R) 30-5-8 to 34-11-6, Exterior(2N) 34-11-6 to 45-10-7 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x6 MT20 unless otherwise indicated.

Confinibled studs as peazed at 2-0-0 oc



July 10,2025

M 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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Job	Truss	Truss Type	Qty	Ply	Lot 21 Magnolia Hills
					174762416
J0225-1024	A1GE	GABLE	1	1	Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Wed Jul 9 06:21:39 2025 Page 2 ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

NOTES-

- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Ceiling dead load (10.0 psf) on member(s). 7-8, 18-19, 8-41, 41-46, 45-46, 44-45, 40-44, 40-50, 50-51, 51-52, 42-52, 18-42; Wall dead load (5.0psf) on member(s).7-34, 19-30
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 32-34, 30-32
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 37 and 93 lb uplift at joint 26.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.



July 10,2025



Job Truss Truss Type Qty Lot 21 Magnolia Hills 174762417 ATTIC J0225-1024 A2 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Wed Jul 9 06:21:41 2025 Page 1 ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

27-28, 27-29

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-9.

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

1 Row at midpt

1 Brace at Jt(s): 27, 28, 29

46-2-0 44-11-0 32-6-13 34-7-12 2-1-5 2-0-15 10-7-0 44-5-8 12-4-3 14-5-8 22-5-8 30-5-8 2-1-5 1-3-0 Scale = 1:85.9

8x8 = 8x8 = 8.00 12 8 10 11 26 2 6x8 / 3x10 || 5x8 = 35 3x10 || 6x8 × REMOVE AFTER INSTALLATION 12 4x6 🗸 4x6 💸 13 7-2-14 7-2-4 36 31 6x8 / 6x8 ❖ 23-10-0 12 0-4-0 2-0-15 19 21 20 24 23 22 18 17 16 5x5 = 8x12 = 8x12 = 3x6 || 8x8 =5x5 = 3x6 || 6x8 = 8x8 =

Plate Offsets (X,Y)	4-5-8 10-7-0 4-5-8 6-1-8 [7:0-4-4,0-4-12], [9:0-4-4,0-4-12], [1	22-7-4 12-0-4 8:0-4-8,0-4-0], [22:0-4-8,0-4-0	23-5 ₇ 8 0-10-4 0]	34-7-12 11-2-4		40-5-8 44-11-0 5-9-12 4-5-8	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2021/TPI2014	CSI. TC 0.26 BC 0.41 WB 0.64 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) l/defl -0.23 20-22 >999 -0.29 20-22 >916 0.03 16 n/a 0.22 20-22 >999	L/d 360 240 n/a 240		GRIP 244/190 FT = 20%

BOT CHORD

WEBS

JOINTS

LUMBER-BRACING-TOP CHORD

TOP CHORD 2x8 SP 2400F 2.0E **BOT CHORD** 2x10 SP 2400F 2.0E *Except*

22-25,18-25: 2x6 SP No.1 2x4 SP No.2 *Except*

WEBS 5-22,11-18,6-26,2-24,14-16,10-26: 2x6 SP No.1

REACTIONS. (size) 24=0-3-8, 16=0-3-8, 20=0-3-8

Max Horz 24=-247(LC 10)

Max Grav 24=2179(LC 2), 16=2174(LC 2), 20=1721(LC 18)

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

TOP CHORD 2-3=-2370/19, 3-5=-2728/40, 5-6=-2261/158, 6-7=-1845/266, 7-8=-1591/247, 8-9=-1591/247, 9-10=-1847/265, 10-11=-2267/158, 11-13=-2726/41, 13-14=-2360/20,

2-24=-2051/71, 14-16=-2043/74

BOT CHORD 23-24=-183/405, 22-23=-31/2093, 20-22=0/2154, 18-20=0/2154, 17-18=0/1909

5-22=0/606, 11-18=0/596, 6-28=-1081/0, 27-28=-1051/0, 27-29=-1051/0, 10-29=-1084/0, **WEBS**

2-23=0/1792, 7-28=-13/467, 9-29=-11/471, 3-23=-752/71, 3-22=-223/510,

13-18=-223/526, 13-17=-766/75, 14-17=0/1776

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-7 to 3-6-7, Interior(1) 3-6-7 to 14-5-8, Exterior(2R) 14-5-8 to 20-9-12, Interior(1) 20-9-12 to 30-5-8, Exterior(2R) 30-5-8 to 36-9-12, Interior(1) 36-9-12 to 45-10-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x6 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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) Ceiling dead load (10.0 psf) on member(s). 5-6, 10-11, 6-28, 27-28, 27-29, 10-29; Wall dead load (5.0psf) on member(s).5-22, 11-18
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 20-22, 18-20
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Attic room checked for L/360 deflection.



July 10,2025



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Fayetteville, NC - 28314, Comtech, Inc.

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40-5-8

Weight: 1095 lb

FT = 20%

240

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

1 Brace at Jt(s): 7, 9, 2, 14, 27, 28, 29

2-0-0 oc purlins (6-0-0 max.), except end verticals

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

>999

ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 46-2-0

44-11-0 10-7-0 32-6-13 34-7-12 2-1-5 2-0-15 44-5-8 12-4-3 14-5-8 22-5-8 30-5-8 2-1-5 1-3-0 Scale = 1:85.9

8x8 =8x8 = 8.00 12 3x10 || 10 5 26 2 6x8 / 3x10 || 5x8 = 3x10 || 6x8 💸 REMOVE AFTER 12 4x6 / 4x6 < INSTALLATION 13 3 7-2-14 7-2-4 6x8 / 6x8 💸 12 23-10-0 7 0-4-0 2-0-15 21 19 20 24 23 22 18 17 16 6x6 || 6x6 = 8x12 = 8x8 = 8x12 = 5x5 = 4x6 || 6x8 = 6x12 =

	4-5-8	6-1-8	1	12	-0-4	0-10-4	11-2	4	ı	5-9-12	4-5-8	
Y)	[7:0-4-0,0-4-8], [9:0-4-12,0-5-0], [18:0-4-	8,0-5-8], [22	2:0-4-8,0-4-0]						
	SPACI	NG- 4-0	-0	CSI.		DEFL.	in (loc) I/defl	L/d	PLATES	GF GF	RIP
	Plate G	Grip DOL 1.1	15	TC	0.39	Vert(LL)	-0.41 20-22	>652	360	MT20	24	4/190
	Lumbe	r DOL 1.1	15	BC	0.47	Vert(CT)	-0.54 20-22	>496	240			
*	Rep St	ress Incr N	10	WB	0.67	Horz(CT)	0.04 1	n/a	n/a			
))	4-5-8 (X,Y) [7:0-4-0,0-4-8) SPACI Plate C Lumbe	4.5-8 6-1-8 (X,Y) [7:0-4-0,0-4-8], [9:0-4-12,0-5-0) SPACING- 4-0 Plate Grip DOL 1.1 Lumber DOL 1.1	4-5-8 6-1-8 (X,Y) [7:0-4-0,0-4-8], [9:0-4-12,0-5-0], [18:0-4-12,0-5	4.5-8 6.1-8 12 (X,Y) [7:0-4-0,0-4-8], [9:0-4-12,0-5-0], [18:0-4-8,0-5-8], [2:0-4-8,0-5-8], [2:0-4-8,0-5-	4-5-8 6-1-8 12-0-4 (X,Y) [7:0-4-0,0-4-8], [9:0-4-12,0-5-0], [18:0-4-8,0-5-8], [22:0-4-8,0-4-0] (Y) SPACING- 4-0-0 CSI. Plate Grip DOL 1.15 TC 0.39 (Y) Lumber DOL 1.15 BC 0.47	4.5-8 6.1-8 12-0-4 0-10-14 (X,Y) [7:0-4-0,0-4-8], [9:0-4-12,0-5-0], [18:0-4-8,0-5-8], [22:0-4-8,0-4-0] (Y) SPACING- 4-0-0 CSI. DEFL. (Y) Plate Grip DOL 1.15 TC 0.39 Vert(LL) (Y) Lumber DOL 1.15 BC 0.47 Vert(CT)	4-5-8 6-1-8 12-0-4 0-10-4 11-2- (X,Y) [7:0-4-0,0-4-8], [9:0-4-12,0-5-0], [18:0-4-8,0-5-8], [22:0-4-8,0-4-0] (Y) SPACING- 4-0-0 CSI. DEFL. in (loc) (Y) Plate Grip DOL 1.15 TC 0.39 Vert(LL) -0.41 20-22 (Y) Lumber DOL 1.15 BC 0.47 Vert(CT) -0.54 20-22	4-5-8 6-1-8 12-0-4 0 ¹ -10 ¹ -4 11-2-4 (X,Y) [7:0-4-0,0-4-8], [9:0-4-12,0-5-0], [18:0-4-8,0-5-8], [22:0-4-8,0-4-0] (Y) SPACING- 4-0-0 CSI. DEFL. in (loc) 1/defl (Y) Plate Grip DOL 1.15 TC 0.39 Vert(LL) -0.41 20-22 >652 (Y) Lumber DOL 1.15 BC 0.47 Vert(CT) -0.54 20-22 >496	4-5-8 6-1-8 12-0-4 0-10-4 11-2-4 (X,Y) [7:0-4-0,0-4-8], [9:0-4-12,0-5-0], [18:0-4-8,0-5-8], [22:0-4-8,0-4-0] (Y) SPACING- 4-0-0 CSI. DEFL. in (loc) I/defl L/d (Y) Plate Grip DOL 1.15 TC 0.39 Vert(LL) -0.41 20-22 >652 360 (Y) Lumber DOL 1.15 BC 0.47 Vert(CT) -0.54 20-22 >496 240	4-5-8 6-1-8 12-0-4 0-10-1/4 11-2-4 5-9-12 (X,Y) [7:0-4-0,0-4-8], [9:0-4-12,0-5-0], [18:0-4-8,0-5-8], [22:0-4-8,0-4-0] (Y) SPACING- 4-0-0 CSI. DEFL. in (loc) I/defl L/d PLATES (Y) Plate Grip DOL 1.15 TC 0.39 Vert(LL) -0.41 20-22 >652 360 MT20 (Y) Lumber DOL 1.15 BC 0.47 Vert(CT) -0.54 20-22 >496 240	4-5-8 6-1-8 12-0-4 0-10-4 11-2-4 5-9-12 4-5-8 (X,Y) [7:0-4-0,0-4-8], [9:0-4-12,0-5-0], [18:0-4-8,0-5-8], [22:0-4-8,0-4-0] (Y) SPACING- 4-0-0 CSI. DEFL. in (loc) 1/defl L/d PLATES GF (Y) Plate Grip DOL 1.15 TC 0.39 Vert(LL) -0.41 20-22 >652 360 MT20 24 (Y) Lumber DOL 1.15 BC 0.47 Vert(CT) -0.54 20-22 >496 240

23-5-8

Wind(LL)

BOT CHORD

JOINTS

34-7-12

0.22 20-22

22-7-4

Matrix-S

LUMBER-BRACING-TOP CHORD

TOP CHORD 2x8 SP 2400F 2.0E **BOT CHORD** 2x10 SP 2400F 2.0E *Except*

22-25,18-25: 2x6 SP No.1 2x4 SP No.2 *Except*

WEBS 5-22,11-18,6-26,2-24,14-16,10-26: 2x6 SP No.1

(size) 24=0-3-8, 16=0-3-8, 20=0-3-8

Max Horz 24=-494(LC 6)

Max Grav 24=5786(LC 2), 16=4525(LC 2), 20=3460(LC 14)

10-7-0

Code IRC2021/TPI2014

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

TOP CHORD 2-3=-6237/0, 3-5=-6111/0, 5-6=-4873/0, 6-7=-3651/530, 7-8=-3153/463, 8-9=-3153/464,

9-10=-3689/494, 10-11=-4949/0, 11-13=-5951/0, 13-14=-4815/0, 2-24=-5318/0,

14-16=-4167/0

23-24=-339/916, 22-23=0/5449, 20-22=0/4769, 18-20=0/4769, 17-18=0/3877, **BOT CHORD**

16-17=0/538

5-22=0/1895, 11-18=0/1379, 6-28=-2842/0, 27-28=-2804/0, 27-29=-2804/0,

10-29=-2865/0, 2-23=0/4804, 8-27=-176/258, 7-28=-23/912, 9-29=0/980, 3-23=-931/369,

3-22=-919/681, 13-18=-321/1550, 13-17=-1956/44, 14-17=0/3556

NOTES-

WFBS

BCDL

REACTIONS.

10.0

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, 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x6 MT20 unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Ceiling dead load (10.0 psf) on member(s). 5-6, 10-11, 6-28, 27-28, 27-29, 10-29; Wall dead load (5.0psf) on member(s).5-22, 11-18
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 20-22, 18-20
- 11) 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, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41 has/have been modified. Building designer must review loads to verify that they are correct for the

JOHN SOLVER ORTH 28677 L. GAL July 10,2025

Continuouded pageofthis truss

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- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15. Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-120, 2-5=-120, 5-6=-160, 6-7=-120, 7-9=-120, 9-10=-120, 10-11=-160, 11-14=-120, 14-15=-120, 22-24=-80(F=-40), 18-22=-80, 16-18=-40, 6-10=-40 Drag: 5-22=-20, 11-18=-20

2) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-100, 2-5=-100, 5-6=-140, 6-7=-100, 7-9=-100, 9-10=-100, 10-11=-140, 11-14=-100, 14-15=-100, 22-24=-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40 Drag: 5-22=-20, 11-18=-20

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-40, 2-5=-40, 5-6=-80, 6-7=-40, 7-9=-40, 9-10=-40, 10-11=-80, 11-14=-40, 14-15=-40, 22-24=-120(F=-40), 16-22=-80, 6-10=-40 Drag: 5-22=-20, 11-18=-20

4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=5, 2-5=-26, 5-6=-50, 6-7=-26, 7-9=41, 9-10=22, 10-11=-2, 11-14=22, 14-15=8, 22-24=-64(F=-40), 18-22=-48, 16-18=-24, 6-10=-24 Horz: 1-2=-29, 2-7=2, 9-14=46, 14-15=32

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=8, 2-5=22, 5-6=-2, 6-7=22, 7-9=41, 9-10=-26, 10-11=-50, 11-14=-26, 14-15=5, 22-24=-64(F=-40), 18-22=-48, 16-18=-24, 6-10=-24 Horz: 1-2=-32, 2-7=-46, 9-14=-2, 14-15=29 Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-56, 2-5=-69, 5-6=-109, 6-7=-69, 7-9=-2, 9-10=-21, 10-11=-61, 11-14=-21, 14-15=-8, 22-24=-80(F=-40), 18-22=-80, 16-18=-40, 6-10=-40 Horz: 1-2=16, 2-7=29, 9-14=19, 14-15=32 Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-8, 2-5=-21, 5-6=-61, 6-7=-21, 7-9=-2, 9-10=-69, 10-11=-109, 11-14=-69, 14-15=-56, 22-24=-80(F=-40), 18-22=-80, 16-18=-40, 6-10=-40 Horz: 1-2=-32, 2-7=-19, 9-14=-29, 14-15=-16

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=28, 2-5=41, 5-6=17, 6-7=41, 7-9=17, 9-10=17, 10-11=-7, 11-14=17, 14-15=4, 22-24=-64(F=-40), 18-22=-48, 16-18=-24, 6-10=-24 Horz: 1-2=-52, 2-7=-65, 9-14=41, 14-15=28

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=4, 2-5=17, 5-6=-7, 6-7=17, 7-9=17, 9-10=41, 10-11=17, 11-14=41, 14-15=28, 22-24=-64(F=-40), 18-22=-48, 16-18=-24, 6-10=-24 Horz: 1-2=-28, 2-7=-41, 9-14=65, 14-15=52

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60. Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=28, 2-5=41, 5-6=17, 6-7=41, 7-9=17, 9-10=17, 10-11=-7, 11-14=17, 14-15=4, 22-24=-64(F=-40), 18-22=-48,

16-18=-24, 6-10=-24

Horz: 1-2=-52, 2-7=-65, 9-14=41, 14-15=28

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=4, 2-5=17, 5-6=-7, 6-7=17, 7-9=17, 9-10=41, 10-11=17, 11-14=41, 14-15=28, 22-24=-64(F=-40), 18-22=-48,

16-18=-24. 6-10=-24

Horz: 1-2=-28, 2-7=-41, 9-14=65, 14-15=52

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=12, 2-5=-2, 5-6=-42, 6-7=-2, 7-9=-26, 9-10=-26, 10-11=-66, 11-14=-26, 14-15=-12, 22-24=-80(F=-40), 18-22=-80, 16-18=-40, 6-10=-40

Horz: 1-2=-52, 2-7=-38, 9-14=14, 14-15=28

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-12, 2-5=-26, 5-6=-66, 6-7=-26, 7-9=-26, 9-10=-2, 10-11=-42, 11-14=-2, 14-15=12, 22-24=-80(F=-40), 18-22=-80, 16-18=-40, 6-10=-40

Horz: 1-2=-28, 2-7=-14, 9-14=38, 14-15=52

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

14) Dead + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-2=-40, 2-5=-40, 5-6=-80, 6-7=-40, 7-9=-40, 9-10=-40, 10-11=-80, 11-14=-40, 14-15=-40, 22-24=-240(F=-200),

18-22=-240, 16-18=-40, 6-10=-40

Drag: 5-22=-20, 11-18=-20

15) Dead: Lumber Increase=1.00, Plate Increase=1.00



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Continued on page 3



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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-40, 2-5=-40, 5-6=-80, 6-7=-40, 7-9=-40, 9-10=-40, 10-11=-80, 11-14=-40, 14-15=-40, 22-24=-240(F=-200), 18-22=-240, 16-18=-40, 6-10=-40 Drag: 5-22=-20, 11-18=-20

16) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60. Plate Increase=1.60

Uniform Loads (plf) Vert: 1-2=-112, 2-5=-122, 5-6=-162, 6-7=-122, 7-9=-71, 9-10=-86, 10-11=-126, 11-14=-86, 14-15=-76, 22-24=-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40

Horz: 1-2=12, 2-7=22, 9-14=14, 14-15=24 Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

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

Uniform Loads (plf)

Vert: 1-2=-76, 2-5=-86, 5-6=-126, 6-7=-86, 7-9=-71, 9-10=-122, 10-11=-162, 11-14=-122, 14-15=-112, 22-24=-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40 Horz: 1-2=-24, 2-7=-14, 9-14=-22, 14-15=-12

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

18) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-61, 2-5=-71, 5-6=-111, 6-7=-71, 7-9=-89, 9-10=-89, 10-11=-129, 11-14=-89, 14-15=-79, 22-24=-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40 Horz: 1-2=-39, 2-7=-29, 9-14=11, 14-15=21

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

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

Vert: 1-2=-79, 2-5=-89, 5-6=-129, 6-7=-89, 7-9=-89, 9-10=-71, 10-11=-111, 11-14=-71, 14-15=-61, 22-24=-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40 Horz: 1-2=-21, 2-7=-11, 9-14=29, 14-15=39

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

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

Uniform Loads (plf)

Vert: 1-2=-24, 2-7=-33, 7-9=-24, 9-14=-24, 14-15=-24, 22-24=-64(F=-40), 18-22=-48, 16-18=-24

Horz: 2-7=9

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

Uniform Loads (plf)

Vert: 1-2=-24, 2-7=-24, 7-9=-24, 9-14=-33, 14-15=-24, 22-24=-64(F=-40), 18-22=-48, 16-18=-24

Horz: 9-14=-9

22) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-120, 2-5=-120, 5-6=-160, 6-7=-120, 7-9=-120, 9-10=-40, 10-11=-80, 11-14=-40, 14-15=-40, 22-24=-80(F=-40), 18-22=-80, 16-18=-40, 6-10=-40 Drag: 5-22=-20, 11-18=-20

23) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-40, 2-5=-40, 5-6=-80, 6-7=-40, 7-9=-120, 9-10=-120, 10-11=-160, 11-14=-120, 14-15=-120, 22-24=-80(F=-40), 18-22=-80, 16-18=-40, 6-10=-40 Drag: 5-22=-20, 11-18=-20

24) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-100, 2-5=-100, 5-6=-140, 6-7=-100, 7-9=-100, 9-10=-40, 10-11=-80, 11-14=-40, 14-15=-40, 22-24=-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40 Drag: 5-22=-20, 11-18=-20

25) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-40, 2-5=-40, 5-6=-80, 6-7=-40, 7-9=-100, 9-10=-100, 10-11=-140, 11-14=-100, 14-15=-100, 22-24=-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40 Drag: 5-22=-20, 11-18=-20

26) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=5, 2-5=-26, 5-6=-50, 6-7=-26, 7-9=41, 9-10=22, 10-11=-2, 11-14=22, 14-15=8, 22-24=-64(F=-40), 18-22=-48,

16-18=-24, 6-10=-24

Horz: 1-2=-29, 2-7=2, 9-14=46, 14-15=32

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

27) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=8, 2-5=22, 5-6=-2, 6-7=22, 7-9=41, 9-10=-26, 10-11=-50, 11-14=-26, 14-15=5, 22-24=-64(F=-40), 18-22=-48,

16-18=-24, 6-10=-24

Horz: 1-2=-32, 2-7=-46, 9-14=-2, 14-15=29 Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

28) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-56, 2-5=-69, 5-6=-109, 6-7=-69, 7-9=-2, 9-10=-21, 10-11=-61, 11-14=-21, 14-15=-8, 22-24=-80(F=-40),

18-22=-80, 16-18=-40, 6-10=-40

Horz: 1-2=16, 2-7=29, 9-14=19, 14-15=32

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

29) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

> Vert: 1-2=-8, 2-5=-21, 5-6=-61, 6-7=-21, 7-9=-2, 9-10=-69, 10-11=-109, 11-14=-69, 14-15=-56, 22-24=-80(F=-40), 18-22=-80, 16-18=-40, 6-10=-40

Horz: 1-2=-32, 2-7=-19, 9-14=-29, 14-15=-16

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

30) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60



July 10,2025

Continued on page 4

🗥 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 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Lot 21 Magnolia Hills	
						174762418
J0225-1024	A2-GR	ATTIC	1	2	Job Reference (optional)	

8.630 s Sep 26 2024 MiTek Industries, Inc. Wed Jul 9 06:21:43 2025 Page 4 ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=28, 2-5=41, 5-6=17, 6-7=41, 7-9=17, 9-10=17, 10-11=-7, 11-14=17, 14-15=4, 22-24=-64(F=-40), 18-22=-48, 16-18=-24, 6-10=-24

Horz: 1-2=-52, 2-7=-65, 9-14=41, 14-15=28

Drag: 7-8=-0. 8-9=0. 5-22=-20. 11-18=-20

31) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=4, 2-5=17, 5-6=-7, 6-7=17, 7-9=17, 9-10=41, 10-11=17, 11-14=41, 14-15=28, 22-24=-64(F=-40), 18-22=-48, 16-18=-24, 6-10=-24

Horz: 1-2=-28, 2-7=-41, 9-14=65, 14-15=52

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

32) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

> Vert: 1-2=28, 2-5=41, 5-6=17, 6-7=41, 7-9=17, 9-10=17, 10-11=-7, 11-14=17, 14-15=4, 22-24=-64(F=-40), 18-22=-48, 16-18=-24, 6-10=-24 Horz: 1-2=-52 2-7=-65 9-14=41 14-15=28

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=4, 2-5=17, 5-6=-7, 6-7=17, 7-9=17, 9-10=41, 10-11=17, 11-14=41, 14-15=28, 22-24=-64(F=-40), 18-22=-48, 16-18=-24, 6-10=-24

Horz: 1-2=-28, 2-7=-41, 9-14=65, 14-15=52 Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=12, 2-5=-2, 5-6=-42, 6-7=-2, 7-9=-26, 9-10=-26, 10-11=-66, 11-14=-26, 14-15=-12, 22-24=-80(F=-40), 18-22=-80, 16-18=-40, 6-10=-40

Horz: 1-2=-52, 2-7=-38, 9-14=14, 14-15=28 Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-12, 2-5=-26, 5-6=-66, 6-7=-26, 7-9=-26, 9-10=-2, 10-11=-42, 11-14=-2, 14-15=12, 22-24=-80(F=-40), 18-22=-80, 16-18=-40, 6-10=-40

Horz: 1-2=-28, 2-7=-14, 9-14=38, 14-15=52

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

36) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-112, 2-5=-122, 5-6=-162, 6-7=-122, 7-9=-71, 9-10=-86, 10-11=-126, 11-14=-86, 14-15=-76, 22-24=-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40

Horz: 1-2=12, 2-7=22, 9-14=14, 14-15=24

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

37) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-76, 2-5=-86, 5-6=-126, 6-7=-86, 7-9=-71, 9-10=-122, 10-11=-162, 11-14=-122, 14-15=-112, 22-24=-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40

Horz: 1-2=-24, 2-7=-14, 9-14=-22, 14-15=-12

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

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

Uniform Loads (plf)

Vert: 1-2=-61, 2-5=-71, 5-6=-111, 6-7=-71, 7-9=-89, 9-10=-89, 10-11=-129, 11-14=-89, 14-15=-79, 22-24=-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40

Horz: 1-2=-39, 2-7=-29, 9-14=11, 14-15=21

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

39) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-79, 2-5=-89, 5-6=-129, 6-7=-89, 7-9=-89, 9-10=-71, 10-11=-111, 11-14=-71, 14-15=-61, 22-24=-200(F=-160),

18-22=-200, 16-18=-40, 6-10=-40

Horz: 1-2=-21, 2-7=-11, 9-14=29, 14-15=39

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20

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

Uniform Loads (plf)

Vert: 1-2=-24, 2-7=-33, 7-9=-24, 9-14=-24, 14-15=-24, 22-24=-64(F=-40), 18-22=-48, 16-18=-24

Horz: 2-7=9

41) Reversal: Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.60. Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-24, 2-7=-24, 7-9=-24, 9-14=-33, 14-15=-24, 22-24=-64(F=-40), 18-22=-48, 16-18=-24

Horz: 9-14=-9



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Job Truss Truss Type Qty Ply Lot 21 Magnolia Hills 174762419 J0225-1024 A2A-GR ATTIC Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Wed Jul 9 06:21:42 2025 Page 1 ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-9.

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

1 Brace at Jt(s): 27, 28, 29

46-2-0 44-11-0 32-6-13 34-7-12 2-1-5 2-0-15 44-5-8 10-7-0 22-5-8 30-5-8 2-1-5 1-3-0 Scale = 1:85.9

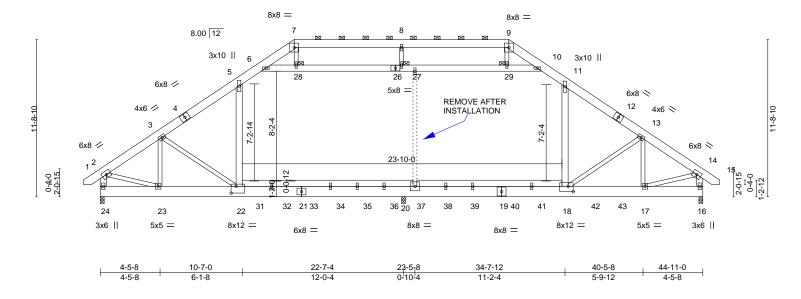


Plate Offsets (X,Y)	[18:0-4-8,0-4-12], [22:0-4-8,0-6-0]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.21 18-20 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.30 18-20 >872 240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.53	Horz(CT) 0.03 16 n/a n/a	
BCDL 10.0	Code IRC2021/TPI2014	Matrix-S	Wind(LL) 0.07 20-22 >999 240	Weight: 1643 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-

TOP CHORD 2x8 SP 2400F 2.0E

BOT CHORD 2x10 SP 2400F 2.0E *Except* 22-25.18-25: 2x6 SP No.1

WEBS 2x4 SP No.2 *Except*

5-22,11-18,6-26,2-24,14-16,10-26: 2x6 SP No.1

REACTIONS. (size) 24=0-3-8, 16=0-3-8, 20=0-3-8

Max Horz 24=-247(LC 6)

Max Grav 24=4364(LC 2), 16=6289(LC 14), 20=5113(LC 14)

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

2-3=-4923/0, 3-5=-6079/0, 5-6=-4461/0, 6-7=-1707/246, 7-8=-1384/218, 8-9=-1384/218,

9-10=-1678/244, 10-11=-4423/0, 11-13=-6224/0, 13-14=-7162/0, 2-24=-4119/0,

14-16=-5868/0

BOT CHORD 23-24=-183/489, 22-23=-31/4032, 20-22=0/4894, 18-20=0/4894, 17-18=0/5951, 16-17=0/661

> 5-22=0/2888. 11-18=0/3237. 6-28=-5077/0. 27-28=-5039/0. 27-29=-5039/0. 10-29=-5064/0, 2-23=0/3763, 7-28=-1/563, 9-29=0/469, 3-23=-1589/71, 3-22=-223/1133,

13-18=-1312/457, 13-17=-766/805, 14-17=0/5602

NOTES-

WEBS

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, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x10 - 4 rows staggered at 0-4-0 oc.

Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

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

4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60

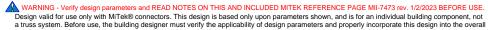
5) Provide adequate drainage to prevent water ponding.

6) All plates are 2x6 MT20 unless otherwise indicated.



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Continued on page 2



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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Lot 21 Magnolia Hills	
J0225-1024	A2A-GR	ATTIC	1	3	Job Reference (optional)	174762419

8.630 s Sep 26 2024 MiTek Industries, Inc. Wed Jul 9 06:21:42 2025 Page 2 ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

NOTES-

7) N/A

- 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 30.0psf 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
- 10) Ceiling dead load (10.0 psf) on member(s). 5-6, 10-11, 6-28, 27-28, 27-29, 10-29; Wall dead load (5.0psf) on member(s). 5-22, 11-18
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 20-22, 18-20
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2488 lb down at 10-4-12, 160 lb down and 83 lb up at 11-9-4, 160 lb down and 83 lb up at 13-9-4, 160 lb down and 83 lb up at 15-9-4, 160 lb down and 83 lb up at 17-9-4, 160 lb down and 83 lb up at 19-9-4, 160 lb down and 83 lb up at 17-9-4, 160 lb down and 83 lb up at 18-9-4, 1 21-9-4, 917 lb down at 23-9-4, 917 lb down at 25-9-4, 917 lb down at 27-9-4, 264 lb down at 29-9-4, 264 lb down at 30-9-4, 264 lb down at 34-9-4, 264 lb down at 36-9-4, and 264 lb down at 38-9-4, and 2984 lb down at 40-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-60, 2-5=-60, 5-6=-80, 6-7=-60, 7-9=-60, 9-10=-60, 10-11=-80, 11-14=-60, 14-15=-60, 22-24=-20, 18-22=-40, 16-18=-20, 6-10=-20

Drag: 5-22=-10, 11-18=-10

Concentrated Loads (lb)

Vert: 22=-761(B) 18=-48(B) 19=-48(B) 17=-1017(B) 31=-5(B) 32=-5(B) 33=-5(B) 34=-5(B) 35=-5(B) 35=-5(B) 37=-236(B) 38=-236(B) 39=-236(B) 40=-48(B) 41=-48(B) 42=-48(B) 43=-48(B)



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Job Truss Truss Type Qty Ply Lot 21 Magnolia Hills 174762420 J0225-1024 АЗ MONOPITCH 2 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Wed Jul 9 06:21:43 2025 Page 1 ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

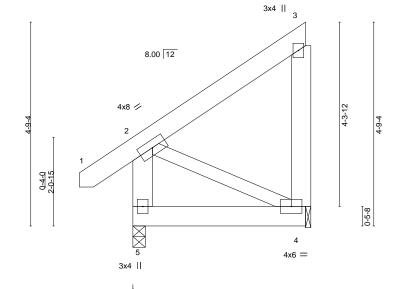
Structural wood sheathing directly applied or 4-2-0 oc purlins,

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

except end verticals.

-1-3-0 4-2-0 1-3-0 4-2-0

Scale = 1:27.0



LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL.	,	oc) I/de		PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.09	Vert(LL)	-0.00	4-5 >99	9 360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.05	Vert(CT)	-0.01	4-5 >99	9 240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT)	-0.00	4 n/	a n/a		
BCDL	10.0	Code IRC2021/TPI2014	Matrix-P	Wind(LL)	0.00	5 ***	* 240	Weight: 42 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 *Except* WEBS

2-4: 2x4 SP No.2

REACTIONS. (size) 5=0-3-8, 4=0-1-8

Max Horz 5=106(LC 9) Max Uplift 4=-81(LC 12)

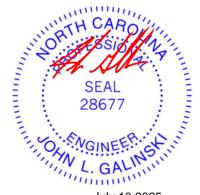
Max Grav 5=241(LC 1), 4=167(LC 19)

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

BOT CHORD 4-5=-283/108 WEBS 2-4=-118/311

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-1-1 to 3-3-12, Interior(1) 3-3-12 to 3-11-0 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 4.



July 10,2025







Job Truss Truss Type Qty Ply Lot 21 Magnolia Hills 174762421 J0225-1024 A3GE **GABLE** Job Reference (optional)

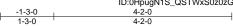
Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Wed Jul 9 06:21:44 2025 Page 1 ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

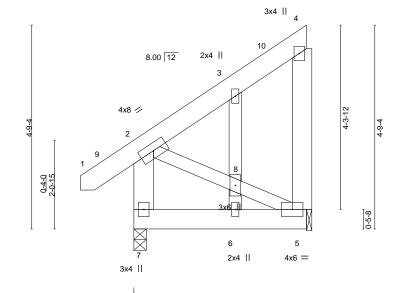
Structural wood sheathing directly applied or 4-2-0 oc purlins,

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

except end verticals.



Scale = 1:27.0



LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2021/TP	I2014	Matri	x-S	Wind(LL)	0.00	6	>999	240	Weight: 46 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 2x6 SP No.1 *Except* **WEBS**

2-5: 2x4 SP No.2

OTHERS 2x4 SP No.2

REACTIONS. (size) 7=0-3-8, 5=0-1-8

Max Horz 7=150(LC 12) Max Uplift 5=-139(LC 12)

Max Grav 7=241(LC 1), 5=165(LC 19)

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

BOT CHORD 6-7=-338/145, 5-6=-338/145 WEBS 2-8=-145/352, 5-8=-154/367

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-1-1 to 3-3-12, Exterior(2N) 3-3-12 to 3-11-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2-0-0 oc.
- 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 30.0psf 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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 139 lb uplift at joint 5.



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Job Truss Truss Type Qty Lot 21 Magnolia Hills 174762422 J0225-1024 B1 **ROOF SPECIAL** | Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Wed Jul 9 06:21:44 2025 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 18-10-4 30-6-0 31-9-0 1-3-0 25-0-0 8-2-0 3-7-4 6-1-12 5-6-0 5x5 = Scale = 1:67.3 6 8.00 12 2x4 || 17 4x6 / 4x6 <> 2x4 II 4x4 🥢 4x4 <> 4x4 🖊 10 4x4 < 5x8 || 6-0-0 18 14 5.00 12 13 3x6 II 4x6 || 8x8 = 2x4 | 19-0-0 25-0-0 30-6-0 9-6-0 9-6-0 6-0-0 5-6-0 Plate Offsets (X,Y)--[2:0-2-15,0-1-9], [14:0-4-0,0-3-13] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.56 Vert(LL) -0.26 13-14 >542 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.53 Vert(CT) -0.43 13-14 >330 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.53 Horz(CT) 0.10 14 n/a n/a Code IRC2021/TPI2014 **BCDL** 10.0 Wind(LL) 0.34 13-14 240 FT = 20%Matrix-S >419 Weight: 230 lb BRACING-2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

WEBS

10-0-0 oc bracing: 2-15.

7-14, 6-14

1 Row at midpt

LUMBER-

REACTIONS.

TOP CHORD BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2

Left 2x4 SP No.2 4-3-0, Right 2x4 SP No.2 3-2-0 SLIDER

(size) 2=0-3-8, 14=0-3-8, 11=0-3-0

Max Horz 2=-262(LC 10)

Max Uplift 2=-93(LC 13), 14=-71(LC 12), 11=-377(LC 8) Max Grav 2=795(LC 20), 14=1817(LC 19), 11=618(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. $2\text{-}4\text{--}1570/770,\ 4\text{-}6\text{--}1219/682,\ 6\text{-}7\text{--}320/838,\ 7\text{-}9\text{--}157/517,\ 9\text{-}11\text{--}335/517}$ TOP CHORD

BOT CHORD 2-15=-574/1505, 13-14=-318/148, 11-13=-318/148

WEBS 4-15=-437/293, 6-15=-277/1375, 7-14=-708/553, 6-14=-945/138

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-1-1 to 3-3-12, Interior(1) 3-3-12 to 15-3-0, Exterior(2R) 15-3-0 to 19-7-13, Interior(1) 19-7-13 to 31-7-1 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 2, 71 lb uplift at joint 14 and 377 lb uplift at joint 11.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Lot 21 Magnolia Hills 174762423 J0225-1024 B1GE **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Wed Jul 9 06:21:45 2025 Page 1 Comtech, Inc. ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 20-1-4 31-9-0 15-3-0 3-7-4 11-7-12 5x5 = Scale = 1:68.1 11 8.00 12 12 10 13 4x6 🗸 14 4x6 <> 15 16 17 18 4x4 / 4x4 > 31 19 33 5x5 = 30 0-4-0 1-0-15 29 35 3x6 II 3x6 II 5.00 12 2726 25 24 23 22 28 4x6 = 10-9-0 31-9-0 33-0-0 1-3-0 19-11-8 9-6-0 Plate Offsets (X,Y)--[2:0-2-2,0-0-1], [27:0-3-0,0-1-4], [32:0-2-0,0-1-12] LOADING (psf) SPACING-CSI DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) 0.00 20 120 244/190 n/r MT20

LUMBER-

TCDL

BCLL

BCDL

2x6 SP No.1 TOP CHORD **BOT CHORD** 2x6 SP No.1 **OTHERS** 2x4 SP No.2

10.0

10.0

0.0

SLIDER Left 2x4 SP No.2 1-11-6, Right 2x4 SP No.2 1-10-13

Lumber DOL

Rep Stress Incr

Code IRC2021/TPI2014

BRACING-

Vert(CT)

Horz(CT)

0.00

0.01

20

20

TOP CHORD **BOT CHORD WEBS**

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

Weight: 266 lb

Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SPF No.2 - 11-29, 12-28

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.

Brace must cover 90% of web length.

n/r

n/a

120

n/a

REACTIONS. All bearings 30-6-0.

Max Horz 2=-327(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 32, 27, 20, 30, 31, 33, 34, 28, 25, 24, 23 except 2=-179(LC 8),

BC

WB

Matrix-S

0.04

0.15

35=-221(LC 12), 26=-110(LC 13), 22=-190(LC 13)

1.15

YES

All reactions 250 lb or less at joint(s) 27, 20, 30, 31, 33, 34, 28, 26, 25, 24, 23 except 2=319(LC Max Grav

20), 32=265(LC 19), 29=255(LC 13), 35=293(LC 19), 22=284(LC 20)

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

TOP CHORD 2-4=-293/241, 9-10=-186/286, 10-11=-208/316, 11-12=-209/317, 12-13=-185/270 **BOT CHORD** 31-32=-130/251, 30-31=-130/253, 29-30=-130/253, 28-29=-130/253, 27-28=-126/253

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-1-1 to 3-3-0, Exterior(2N) 3-3-0 to 15-3-0, Corner(3R) 15-3-0 to 19-7-13, Exterior(2N) 19-7-13 to 31-7-1 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 27, 20, 30, 31, 33, 34, 28, 25, 24, 23 except (jt=lb) 2=179, 35=221, 26=110, 22=190.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required



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FT = 20%



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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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Lot 21 Magnolia Hills 174762424 J0225-1024 C₁ **ROOF SPECIAL** Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Wed Jul 9 06:21:45 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

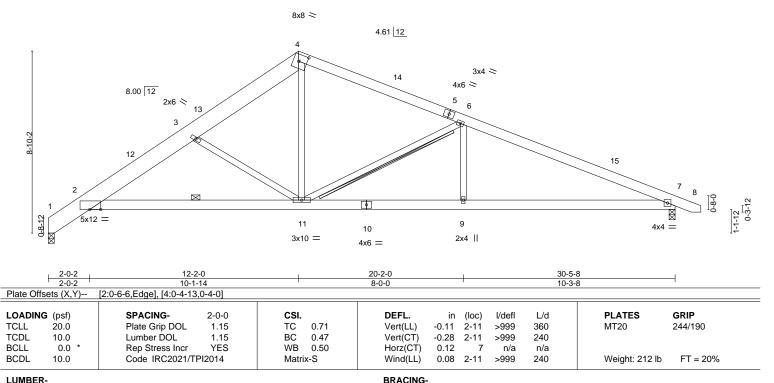
20-2-0

8-0-0

5-0-0

Scale = 1:56.0

31-8-8 1-3-0



2x6 SP No.1 *Except* TOP CHORD

1-4: 2x10 SP No.1 2x6 SP No.1

BOT CHORD WEBS 2x4 SP No.2 TOP CHORD

WEBS

BOT CHORD

Structural wood sheathing directly applied or 4-5-9 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. Except:

30-5-8

10-3-8

10-0-0 oc bracing: 2-11

2x4 SPF No.2 - 6-11 T-Brace:

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.

Brace must cover 90% of web length.

REACTIONS. (size) 1=0-3-8, 7=0-3-8

Max Horz 1=-201(LC 10)

Max Uplift 1=-48(LC 12), 7=-104(LC 13) Max Grav 1=1210(LC 1), 7=1278(LC 1)

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

TOP CHORD 1-2=-569/126, 2-3=-2092/519, 3-4=-1644/440, 4-6=-1467/411, 6-7=-2383/507

BOT CHORD 2-11=-409/1874, 9-11=-366/2112, 7-9=-366/2112

3-11=-764/339, 4-11=-190/1036, 6-11=-960/279, 6-9=0/375 **WEBS**

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 12-2-0, Exterior(2R) 12-2-0 to 16-6-13, Interior(1) 16-6-13 to 31-5-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 7=104.
- 7) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Lot 21 Magnolia Hills 174762425 J0225-1024 C1SG ROOF SPECIAL STRUCTU Job Reference (optional) Comtech, Inc., Favetteville, NC 28309

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 10 08:08:24 2025 Page 1 ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-dDb1S_?Dj9mlZPXpbnlDgggObOfM425XuxEIE_yzX8r 20-2-0 30-5-8 31-8-8 8-0-0 10-3-8 1-3-0

Scale = 1:54.0

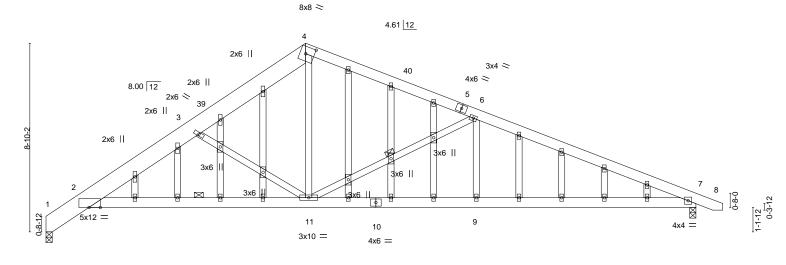


Plate Off	2-0-2 sets (X,Y)	[2:0-6-6,0-0-0], [4:0-4-13,	·	· · ·		8-0-0					10-3-8	· · · · · · · · · · · · · · · · · · ·
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.ó	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.11	2-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.28	2-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.12	7	n/a	n/a		
BCDL	10.0	Code IRC2021/TF	PI2014	Matri	x-S	Wind(LL)	0.11	2-11	>999	240	Weight: 263 lb	FT = 20%

20-2-0

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*

1-4: 2x10 SP No.1

BOT CHORD 2x6 SP No.1 **WEBS** 2x4 SP No.2

2-0-2

2-0-2

7-2-0

5-1-14

12-2-0

5-0-0

OTHERS 2x4 SP No.2 **BRACING-**TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 4-4-5 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. Except:

30-5-8

10-0-0 oc bracing: 2-11

WEBS 1 Row at midpt 6-11

REACTIONS. (lb/size) 1=1210/0-3-8, 7=1278/0-3-8

Max Horz 1=-273(LC 10)

Max Uplift 1=-208(LC 12), 7=-307(LC 13)

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

12-2-0

TOP CHORD 1-2=-569/212, 2-3=-2092/511, 3-39=-1644/397, 4-39=-1612/430, 4-40=-1363/409,

5-40=-1449/380, 5-6=-1467/378, 6-7=-2383/509 2-11=-445/1874, 10-11=-359/2112, 9-10=-359/2112, 7-9=-359/2112

BOT CHORD WEBS 3-11=-784/393, 4-11=-188/1036, 6-11=-960/401, 6-9=0/375

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 12-2-0, Exterior(2R) 12-2-0 to 16-6-13, Interior(1) 16-6-13 to 31-5-11 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf 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) 1 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 208 lb uplift at joint 1 and 307 lb uplift at



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Job Truss Truss Type Qty Lot 21 Magnolia Hills 174762426 J0225-1024 C2 **ROOF SPECIAL** Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Wed Jul 9 06:21:47 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 29-1-8 1-3-0 18-4-5 21-2-12 4-11-4 1-7-12 3-0-0 5-0-0 3-9-5 2-10-7 6-7-12 4x6 < Scale = 1:53.3 4.61 12 2x4 = 2x4 = 6 2x4 || 8.00 12 2x4 II 18 4x8 > 8 4x4 🖊 3x4 > 5-0-0 4x4 / 8-0-0 1-3-11 0 0 0 12 15 13 3x10 || 4x4 = 3x4 || 3x4 II 5x8 = 4x8 = 2x4 | 4x6 =3x4 || 14-7-0 21-2-12 6-7-0 3-0-0 2-10-7 6-7-12 5-0-0 3-9-5 Plate Offsets (X,Y)--[1:0-4-4,0-0-4], [5:0-4-7,0-2-0], [13:0-1-8,0-1-12] **PLATES** LOADING (psf) SPACING-CSI DEFL. in (loc) I/def L/d GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.51 Vert(LL) -0.31 12-13 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.90 Vert(CT) -0.56 12-13 >598 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.92 Horz(CT) 0.04 10 n/a n/a Code IRC2021/TPI2014 **BCDL** 10.0 Wind(LL) 0.23 12-13 >999 240 Weight: 205 lb FT = 20%Matrix-S LUMBER-BRACING-2x6 SP No.1 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 4-11-7 oc purlins. **BOT CHORD** 2x6 SP No.1 Rigid ceiling directly applied or 9-2-13 oc bracing. 2x4 SP No.1 *Except* 9-12,9-13: 2x4 SP No.2 SLIDER Left 2x6 SP No.1 3-11-6

BOT CHORD WEBS

REACTIONS. (size) 1=Mechanical, 10=0-3-8

Max Horz 1=-189(LC 10)

Max Uplift 1=-37(LC 12), 10=-104(LC 13) Max Grav 1=1108(LC 1), 10=1180(LC 1)

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

TOP CHORD 1-3=-1685/393, 3-4=-1221/417, 5-6=-43/275, 6-7=-1215/407, 7-9=-1449/387,

9-10=-2434/503

BOT CHORD 1-15=-165/1243, 13-15=-173/1248, 12-13=-396/2187, 10-12=-396/2187 WEBS 3-15=0/525, 7-13=0/385, 4-6=-1466/471, 9-12=0/375, 9-13=-1095/252

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 9-7-0, Exterior(2R) 9-7-0 to 13-11-13, Interior(1) 13-11-13 to 28-10-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 10=104.



July 10,2025



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 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Lot 21 Magnolia Hills 174762427 J0225-1024 C2GE **ROOF SPECIAL SUPPORT** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Wed Jul 9 06:21:47 2025 Page 1 ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

27-10-8 18-3-8

Scale = 1:52.5

29-1-8

1-3-0

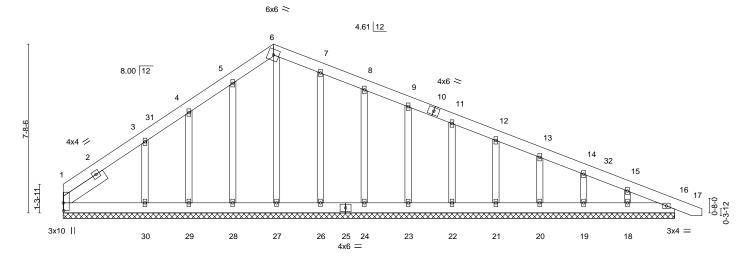


Plate Offsets (X,Y)--[1:0-4-4,0-0-4] **GRIP** LOADING (psf) SPACING-2-0-0 CSI DEFL. in (loc) I/defl L/d **PLATES** TCLL 20.0 Plate Grip DOL 1.15 TC 0.08 Vert(LL) -0.00 16 120 244/190 n/r MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.04 Vert(CT) -0.00 16 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.14 Horz(CT) 0.00 16 n/a n/a Code IRC2021/TPI2014 **BCDL** 10.0 Weight: 215 lb FT = 20%Matrix-S

BRACING-

TOP CHORD

BOT CHORD

27-10-8

LUMBER-

2x6 SP No.1 TOP CHORD 2x6 SP No.1 **BOT CHORD**

OTHERS 2x4 SP No.2 SLIDER Left 2x6 SP No.1 2-3-13

REACTIONS. All bearings 27-10-8.

Max Horz 1=-260(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 28, 29, 26, 24, 23, 22, 21, 20, 19, 18, 16 except

30=-206(LC 12)

All reactions 250 lb or less at joint(s) 1, 27, 28, 29, 26, 24, 23, 22, 21, 20, 19, 18, 16 except Max Grav

30=346(LC 19)

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

TOP CHORD 5-6=-129/309, 6-7=-119/293, 7-8=-107/260

WEBS 3-30=-257/344

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-0-0 to 4-4-13, Exterior(2N) 4-4-13 to 9-7-0, Corner(3R) 9-7-0 to 13-8-12, Exterior(2N) 13-8-12 to 28-10-11 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 28, 29, 26, 24, 23, 22, 21, 20, 19, 18, 16 except (it=lb) 30=206.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.



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

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

July 10,2025

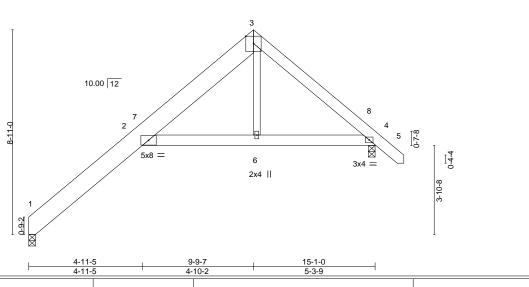


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Lot 21 Magnolia Hills 174762428 J0225-1024 D1 **ROOF SPECIAL** 2 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Wed Jul 9 06:21:48 2025 Page 1 ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 16-4-0 4-11-5 4-10-2 5-3-9 1-3-0 Scale = 1:50.2



8x8 =

LOADIN	VI /	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.66	Vert(LL) -0	0.15 2	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.31	Vert(CT) -0	0.30 2	>597	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT)	0.23 4	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2014	Matrix-S	Wind(LL)	0.17 2	>999	240	Weight: 102 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x10 SP No.1 *Except* TOP CHORD

3-5: 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 WEBS 2x4 SP No.2

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

Max Horz 1=179(LC 9)

Max Uplift 1=-6(LC 12), 4=-46(LC 12) Max Grav 1=610(LC 1), 4=674(LC 1)

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

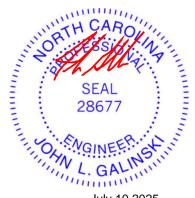
1-2=-394/101, 2-3=-530/224, 3-4=-768/330 TOP CHORD

BOT CHORD 2-6=-54/550, 4-6=-54/557

WFBS 3-6=0/284

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 9-9-7, Exterior(2R) 9-9-7 to 14-2-4, Interior(1) 14-2-4 to 16-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.



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

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

July 10,2025



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Job Truss Truss Type Qty Lot 21 Magnolia Hills 174762429 J0225-1024 D1SG **GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Wed Jul 9 06:21:48 2025 Page 1 ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 16-4-0 4-11-5 4-10-2 5-3-9 1-3-0 Scale: 1/4"=1 8x8 = 2x6 II 2x4 || 10.00 12 2x4 || 5x8 = 2x4 || 6 2x4 || 3x4 =2x4 || 2x4 ||

	7-11-5	7	10-2	3-3-3			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) I/defl	L/d	PLATES GRIP	
TCLL 20.0	Plate Grip DOL 1.15	TC 0.66	Vert(LL) -0.15	2 >999	360	MT20 244/190	
TCDL 10.0	Lumber DOL 1.15	BC 0.31	Vert(CT) -0.30	2 >597	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.23	4 n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-S	Wind(LL) 0.22	2 >814	240	Weight: 110 lb FT = 2	20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

OTHERS

2x10 SP No.1 *Except* TOP CHORD

3-5: 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 WEBS 2x4 SP No.2

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

2x4 SP No.2

Max Horz 1=247(LC 12)

Max Uplift 1=-83(LC 12), 4=-145(LC 12) Max Grav 1=610(LC 1), 4=674(LC 1)

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

1-2=-415/127, 2-3=-530/198, 3-4=-783/302 TOP CHORD

BOT CHORD 2-6=-93/570, 4-6=-93/577

WEBS 3-6=0/284

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 9-9-7, Exterior(2R) 9-9-7 to 14-2-4, Interior(1) 14-2-4 to 16-2-4 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) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 4=145.



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

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

July 10,2025



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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Job Truss Truss Type Qty Lot 21 Magnolia Hills 174762430 J0225-1024 D2 **ROOF SPECIAL** 2 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Wed Jul 9 06:21:48 2025 Page 1

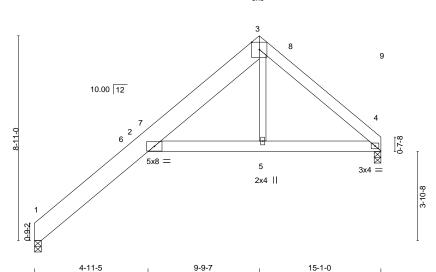
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f 4-11-5 4-10-2 5-3-9

8x8 =

Scale = 1:50.2



4-11-5 4-10-2 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL TC Vert(LL) 244/190 **TCLL** 1.15 0.67 -0.15 >999 360 MT20 2 TCDL 10.0 Lumber DOL 1.15 ВС 0.31 Vert(CT) -0.30 >594 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.24 4 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.16 >999 240 Weight: 99 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x10 SP No.1 *Except* TOP CHORD

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

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

Max Horz 1=191(LC 9)

Max Uplift 1=-3(LC 12), 4=-47(LC 12) Max Grav 1=613(LC 1), 4=596(LC 1)

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

1-2=-391/85, 2-3=-540/159, 3-4=-774/241 TOP CHORD

BOT CHORD 2-5=-71/542, 4-5=-70/549

WFBS 3-5=0/287

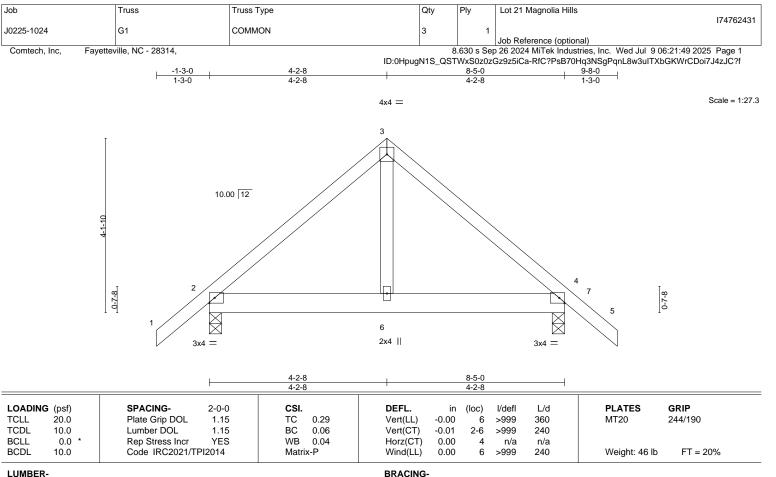
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 9-9-7, Exterior(2) 9-9-7 to 14-2-4, Interior(1) 14-2-4 to 14-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.



July 10,2025





TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x6 SP No.1

WEBS 2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 4=0-3-8 Max Horz 2=-109(LC 10)

Max Uplift 2=-34(LC 12), 4=-34(LC 13)

Max Grav 2=409(LC 1), 4=409(LC 1)

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

TOP CHORD 2-3=-321/119, 3-4=-321/120

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-3-0 to 3-1-13, Interior(1) 3-1-13 to 4-2-8, Exterior(2R) 4-2-8 to 8-7-5, Interior(1) 8-7-5 to 9-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



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

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

July 10,2025



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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Job Truss Truss Type Qty Lot 21 Magnolia Hills 174762432 J0225-1024 G1GE **GABLE** Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Wed Jul 9 06:21:49 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, $ID: OHpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$ 9-4-0 8-1-0 1-3-0 4-0-8 4-0-8 1-3-0 Scale = 1:26.6 4x4 = 12 10.00 12 2x4 || 5 2x4 || 0-7-8 0-7-8 10 3x4 = 3x4 = 2x4 | 2x4 || 2x4 || 8-1-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/def

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.01

-0.01

0.00

120

120

n/a

n/r

n/r

n/a

6

LUMBER-

TCLL

TCDL

BCLL

BCDL

2x4 SP No.1 2x6 SP No.1

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

20.0

10.0

0.0

10.0

REACTIONS. All bearings 8-1-0.

Max Horz 2=132(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-126(LC 12), 8=-124(LC 13)

1.15

1.15

YES

Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

3-10=-218/265, 5-8=-219/264 WEBS

NOTES-

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

Plate Grip DOL

Rep Stress Incr

Code IRC2021/TPI2014

Lumber DOL

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-3-0 to 3-1-13, Exterior(2N) 3-1-13 to 4-0-8, Corner(3R) 4-0-8 to 8-5-5, Exterior(2N) 8-5-5 to 9-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

TC

ВС

WB

Matrix-P

0.13

0.02

0.05

- 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=126, 8=124.



244/190

FT = 20%

MT20

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

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

Weight: 50 lb

July 10,2025



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Job Truss Truss Type Qty Lot 21 Magnolia Hills 174762433 J0225-1024 M1 MONOPITCH 3 Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Wed Jul 9 06:21:50 2025 Page 1 Fayetteville, NC - 28314, Comtech, Inc.

ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 5-8-0 5-8-0

Structural wood sheathing directly applied or 5-8-0 oc purlins,

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

except end verticals.

Scale = 1:13.4

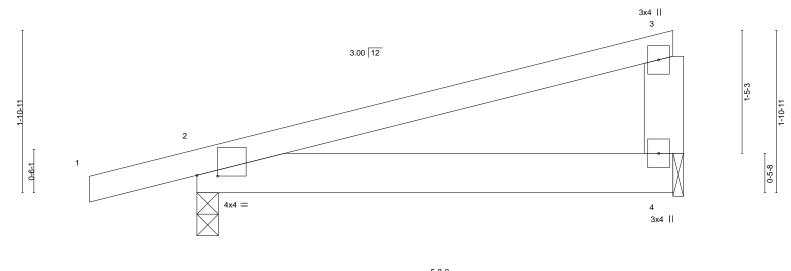


Plate Off	Plate Offsets (X,Y) [2:0-2-14,0-0-2]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.01	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.02	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2021/T	PI2014	Matri	x-P	Wind(LL)	0.04	2-4	>999	240	Weight: 26 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

2x4 SP No.1 TOP CHORD BOT CHORD 2x6 SP No.1

WEBS 2x6 SP No.1

> (size) 2=0-3-0, 4=0-1-8 Max Horz 2=57(LC 8)

Max Uplift 2=-132(LC 8), 4=-82(LC 8) Max Grav 2=306(LC 1), 4=202(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=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-3-0 to 3-1-13, Interior(1) 3-1-13 to 5-5-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2 = 132



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Job Truss Truss Type Qty Lot 21 Magnolia Hills 174762434 J0225-1024 M1GE **GABLE** Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Wed Jul 9 06:21:50 2025 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 5-8-0

5-8-0

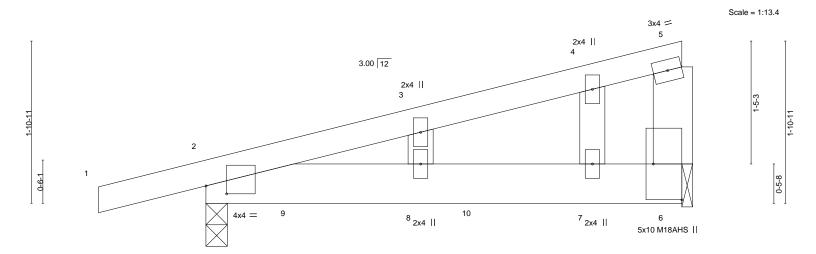


Plate Offse	Plate Offsets (X,Y) [2:0-2-14,0-1-2], [6:Edge,0-4-0]											
LOADING TCLL	(psf) 20.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.24	DEFL. Vert(LL)	in 0.04	(loc)	l/defl >999	L/d 240	PLATES MT20	GRIP 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.02	8	>999	240	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2021/TF	PI2014	Matri	x-S						Weight: 28 lb	FT = 20%

TOP CHORD

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x6 SP No.1 **OTHERS** 2x4 SP No.2

except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

Structural wood sheathing directly applied or 5-8-0 oc purlins,

REACTIONS. (size) 2=0-3-0, 6=0-1-8 Max Horz 2=81(LC 8)

Max Uplift 2=-189(LC 8), 6=-120(LC 8) Max Grav 2=306(LC 1), 6=202(LC 1)

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

2-3=-148/287, 3-4=-128/329, 4-5=-110/332 TOP CHORD **BOT CHORD** 2-8=-383/115, 7-8=-383/115, 6-7=-383/115

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-3-0 to 3-1-13, Exterior(2N) 3-1-13 to 5-5-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=189. 6=120.



July 10,2025



174762435 J0225-1024 PB **GABLE** 5 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Wed Jul 9 06:21:50 2025 Page 1 ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 8-0-0 8-0-0 Scale = 1:34.1 4x4 = 8.00 12 2x4 II 2x4 | 5 3 12 0-1-10 3x4 =10 9 8 3x4 = 2x4 | 2x4 || 2x4 || 16-0-0 LOADING (psf) SPACING-DEFL. L/d **PLATES** GRIP 2-0-0 CSI (loc) I/defl 20.0 0.00 244/190 **TCLL** Plate Grip DOL 1.15 TC 0.14 Vert(LL) 6 n/r 120 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.08 Vert(CT) 0.00 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.07 Horz(CT) 0.00 6 n/a n/a Code IRC2021/TPI2014 **BCDL** 10.0 Matrix-S Weight: 63 lb FT = 20% LUMBER-**BRACING-**TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD

Qty

Lot 21 Magnolia Hills

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

TOP CHORD 2x4 SP No.1 2x4 SP No.1

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

REACTIONS. All bearings 14-5-6.

Max Uplift All uplift 100 lb or less at joint(s) 2 except 10=-104(LC 12), 8=-104(LC 13)

Truss Type

Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=252(LC 1), 10=362(LC 19), 8=362(LC 20)

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

WEBS 3-10=-278/225, 5-8=-277/225

NOTES-

Job

Truss

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-3-7 to 4-8-4, Interior(1) 4-8-4 to 8-0-0, Exterior(2R) 8-0-0 to 12-4-13, Interior(1) 12-4-13 to 15-8-9 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 10=104, 8=104
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



July 10,2025



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174762436 J0225-1024 PBA **GABLE** 2 Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Wed Jul 9 06:21:51 2025 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 16-0-0 8-0-0 8-0-0 Scale = 1:34.1 5x5 =8.00 12 2x4 || 2x4 || 0-1-10 3x4 = 9 8 3x4 = 10 2x4 | 2x4 || 2x4 || 16-0-0 LOADING (psf) SPACING-DEFL. **PLATES** GRIP 5-0-0 CSI (loc) I/defl L/d 0.00 244/190 **TCLL** Plate Grip DOL 1.15 TC 0.17 Vert(LL) 6 n/r 120 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.23 Vert(CT) 0.00 120 n/r **BCLL** 0.0 Rep Stress Incr NO WB 0.16 Horz(CT) 0.00 6 n/a n/a **BCDL** 10.0 Code IRC2021/TPI2014 Matrix-S Weight: 77 lb FT = 20% LUMBER-BRACING-2x6 SP No.1 TOP CHORD 2-0-0 oc purlins (6-0-0 max.)

BOT CHORD

Qty

Lot 21 Magnolia Hills

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

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

TOP CHORD

BOT CHORD 2x4 SP No.1

2x4 SP No.2 **OTHERS**

REACTIONS. All bearings 13-10-3 (lb) -Max Horz 2=-302(LC 10)

Truss

Max Uplift All uplift 100 lb or less at joint(s) 2 except 10=-253(LC 12), 8=-249(LC 13)

Truss Type

All reactions 250 lb or less at joint(s) except 2=390(LC 1), 6=390(LC 1), 9=616(LC 1), 10=863(LC 19), Max Grav

8=857(LC 20)

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

TOP CHORD 2-3=-327/230, 3-4=-350/358, 4-5=-316/351 WEBS 4-9=-411/0, 3-10=-674/548, 5-8=-668/548

NOTES-

Job

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-4 to 4-10-1, Interior(1) 4-10-1 to 8-0-0, Exterior(2R) 8-0-0 to 12-4-13, Interior(1) 12-4-13 to 15-6-12 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 10=253, 8=249.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 10,2025



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J0225-1024 **PGBE GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Wed Jul 9 06:21:51 2025 Page 1 ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 16-0-0 8-0-0 8-0-0 Scale = 1:32.6 4x4 = 5 8.00 12 8 10 0-1-10 3x4 =3x4 =17 12 18 16 15 14 13 16-0-0 LOADING (psf) SPACING-CSI. DEFL. L/d **PLATES** GRIP 2-0-0 (loc) I/defl 20.0 Vert(LL) -0.00 120 244/190 **TCLL** Plate Grip DOL 1.15 TC 0.03 10 n/r MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.02 Vert(CT) 0.00 10 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 10 n/a n/a Code IRC2021/TPI2014 BCDL 10.0 Matrix-S Weight: 74 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

Qty

Lot 21 Magnolia Hills

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

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

174762437

LUMBER-

Job

TOP CHORD 2x4 SP No.1 2x4 SP No.1

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

REACTIONS. All bearings 14-5-6. Max Horz 2=-154(LC 10)

Truss

Truss Type

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 16, 17, 18, 14, 13, 12 Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 18, 14, 13, 12

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-7 to 4-8-4, Interior(1) 4-8-4 to 8-0-0, Exterior(2R) 8-0-0 to 12-4-13, Interior(1) 12-4-13 to 15-8-9 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 16, 17, 18,
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



July 10,2025



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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 software or upon request.

PLATE SIZE

4 × 4

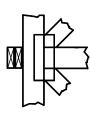
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

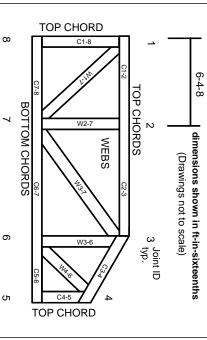
Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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

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

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MITEK



MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

ω

- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

'n

- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.