

RE: J0724-4081

Lot 4 Magnolia Hills

Trenco

Truss Name

M1GE

PB

PBA

PGBE

Date

3/6/2024

3/6/2024

3/6/2024

3/6/2024

818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J0724-4081

Lot/Block: Model:
Address: Subdivision:
City: State:

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

Seal#

164022669

164022670

164022671

164022672

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7-10 Wind Speed: 130 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 24 individual, dated Truss Design Drawings and 0 Additional Drawings.

No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Seal# 164022649 164022650 164022651 164022652 164022653 164022654 164022655 164022656 164022657 164022658 164022659 164022660 164022661 164022662 164022663 164022664 164022665 164022665	Truss Name A1 A1-GR A1GE A2 A2-GR A2A-GR A3 A3GE B1 B1GE C1 C1SG C2 C2GE D1 D1SG D2 G1	Date 3/6/2024	No. 21 22 23 24
17	164022665	D2	3/6/2024	
18 19	164022666 164022667	G1 G1GE	3/6/2024 3/6/2024	
20	164022668	M1	3/6/2024	

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2024

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



March 06, 2024

Job Truss Truss Type Qty Lot 4 Magnolia Hills 164022649 ATTIC J0724-4081 Α1 3 Job Reference (optional)

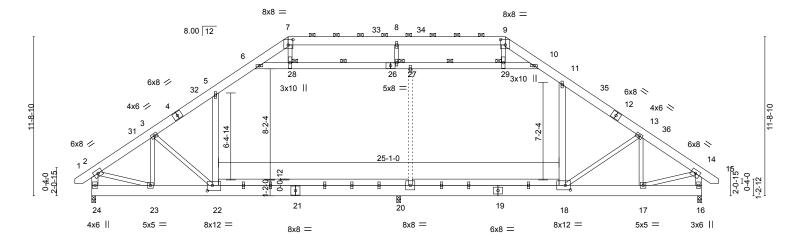
22-5-8

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:24:44 2024 Page 1 ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

46-2-0 44-11-0 0-5-8 32-6-13 34-7-12 2-1-5 2-0-15

1-3-0 Scale = 1:84.9



	T-3-0 T-1-12	13-0-0	0-10- 1 11- <u>2</u> - 1	J-J-12	1 -3-0
Plate Offsets (X,Y)	[7:0-4-4,0-4-12], [9:0-4-4,0-4-12], [18:0	4-8,0-4-0], [22:0-4-8,0-4-	12]		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/def	l L/d PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.31	Vert(LL) -0.29 20-22 >92	1 360 MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.45	Vert(CT) -0.40 20-22 >672	2 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.64	Horz(CT) 0.03 16 n/a	a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.22 18-20 >999	9 240 Weight: 547	' lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-

REACTIONS.

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=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.

TOP CHORD 2-3=-2432/199, 3-5=-2785/211, 5-6=-2309/356, 6-7=-1823/473, 7-8=-1566/452,

8-9=-1566/452, 9-10=-1820/476, 10-11=-2262/362, 11-13=-2712/247, 13-14=-2334/222,

22-7-4

13-6-0

2-24=-2097/244, 14-16=-2019/257

BOT CHORD 23-24=-224/433, 22-23=-95/2157, 20-22=0/2151, 18-20=0/2151, 17-18=-81/1885 5-22=0/730, 11-18=0/576, 6-28=-1169/0, 27-28=-1143/0, 27-29=-1143/0, 10-29=-1175/0, **WEBS**

2-23=-45/1839, 7-28=0/474, 9-29=-5/470, 3-23=-839/74, 3-22=-246/450,

13-18=-244/562, 13-17=-784/101, 14-17=-76/1744

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) -0-11-7 to 3-6-7, Interior(1) 3-6-7 to 14-5-8, Exterior(2) 14-5-8 to 20-9-12, Interior(1) 20-9-12 to 30-5-8, Exterior(2) 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.



44-11-0

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

March 6,2024

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 a duss system. Before use, the culturing design 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 4 Magnolia Hills

 J0724-4081
 A1-GR
 ATTIC
 1
 2
 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:24:49 2024 Page 1 ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

46-2-0
3-0 4-5-8 9-1-4 12-4-3 14-5-8 22-5-8 30-5-8 32-6-13 34-7-12 40-5-8 44-5-8 44-11-0 3-0 4-5-8 4-7-12 3-2-15 2-1-5 8-0-0 8-0-0 2-1-5 2-0-15 5-9-12 4-0-0 0-5-8

1-3-0 Scale = 1:84.9

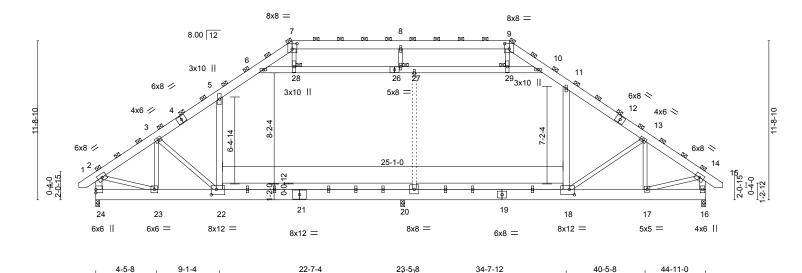


Plate Off	tsets (X,Y)	[7:0-4-4,0-4-12], [9:0-4-4,	-4-4,0-4-12], [9:0-4-4,0-4-12], [18:0-4-8,0-4-12], [22:0-4-8,0-4-12]									
LOADIN TCLL	G (psf) 20.0	SPACING- Plate Grip DOL	4-0-0 1.15	CSI.	0.55	DEFL. Vert(LL)	in (loc) -0.45 20-22	l/defl >598	L/d 360	PLATES MT20	GRIP 244/190	
TCDL	10.0	Lumber DOL	1.15	ВС	0.52	Vert(CT)	-0.61 20-22	>441	240	IVITZO	244/190	
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2015/TF	NO Pl2014	WB Matri	0.64 x-S	Horz(CT) Wind(LL)	0.04 16 0.22 18-20	n/a >999	n/a 240	Weight: 1094 lb	FT = 20%	

13-6-0

0-10-4

BRACING-

TOP CHORD

BOT CHORD

JOINTS

11-2-4

LUMBER-

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

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

4-5-8

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=-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,

9-10=-3620/551, 10-11=-4855/0, 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 WERS 5-22=0/2100 11-18=0/1303 6-28=-2970/0 27-28=-2926/0 27-29=-2926/0

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

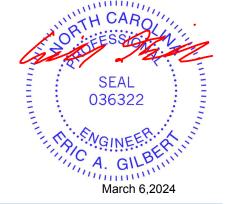
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

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 7-10; Vult=130mph 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 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this



4-5-8

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

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	Lot 4 Magnolia Hills	
J0724-4081	A1-GR	ATTIC	1	2	Job Reference (optional)	164022650

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:24:49 2024 Page 2 ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

NOTES-

- 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

Continued on page 3

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Job	Truss	Truss Type	Qty	Ply	Lot 4 Magnolia Hills	
J0724-4081	A1-GR	ATTIC	1	_		164022650
30724-4001	A1-OK	ATTIO	'	2	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:24:49 2024 Page 3 ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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) 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

21) 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

22) 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

23) 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

24) 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

25) 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

26) 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

27) 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

28) Reversal: 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

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

Continued on page 4



Job	Truss	Truss Type	Qty	Ply	Lot 4 Magnolia Hills	
10704 4004	A4 0D	ATTIO				164022650
J0724-4081	A1-GR	ATTIC	1	2	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:24:49 2024 Page 4 ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

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

30) 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

31) 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

32) 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

33) 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

34) 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

35) 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

36) 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

37) 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

 Job
 Truss
 Truss Type
 Qty
 Ply
 Lot 4 Magnolia Hills

 J0724-4081
 A1GE
 GABLE
 1
 1
 1
 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

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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.

Scale = 1:86.8

ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 46-2-0 30-5-8 | 32-6-13 | 34-7-12 | 40-5-8 | 44-5-8 44₁11-0 |

8x8 = 8x8 = õ 10 16 8.00 12 11 15 17 18 3x10 || 19 45 50 39 8x8 / 6 3x10 || 3x10 || 8x8 > 21 4x6 // 4x6 💸 22 7-2-4 ²³6x8 <> 6x8 / 54 0-4-0 2-0-15, • ቜ 32 31 33 37 36 35 34 30 29 28 27 26 4x6 || 5x5 = 8x12 =8x8 = 5x5 = 3x6 || 8x12 8x8 = 6x8 =

	H	4-5-8 4-5-8 9-1-4 4-7-12	-	22-7-4 13-6-0		23-5 ₇ 8 0-10-4	34-7-12 11-2-4		+	40-5-8 5-9-12	44-11-0 4-5-8	\rightarrow
Plate Off	sets (X,Y)	[5:0-4-0,0-6-0], [9:0-4-4,0)-4-12], [17:0-4	1-4,0-4-12], [2	1:0-4-0,0-6	0], [30:0-4-8,0-4-1	2], [34:0-4-8,0-5	5-8]				
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PL	ATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.28 32-34	>956	360	MT	20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.38 32-34	>699	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.03 26	n/a	n/a			
BCDL	10.0	Code IRC2015/TF	PI2014	Matrix	k-S	Wind(LL)	0.27 30-32	>983	240	We	eight: 596 lb	FT = 20%

BOT CHORD

JOINTS

 LUMBER BRACING

 TOP CHORD
 2x8 SP 2400F 2.0E
 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

WEBS 2x4 SP No.2 *Except*

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

2x4 II

OTHERS 2x4 SP No.2

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

24-26=-2065/361

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=-2532/306, 3-4=-2381/316, 4-5=-2664/309, 5-6=-2869/322, 6-7=-2

2-3=-2532/306, 3-4=-2381/316, 4-5=-2664/309, 5-6=-2869/322, 6-7=-2827/345, 7-8=-2332/478, 8-9=-1898/615, 9-10=-1650/569, 10-11=-1645/569, 11-12=-1645/569,

12-13=-1645/569, 13-14=-1645/569, 14-15=-1645/569, 15-16=-1645/569,

16-17=-1650/569, 17-18=-1891/609, 18-19=-2282/478, 19-20=-2752/386,

20-21=-2663/348, 21-22=-2648/311, 22-23=-2281/345, 23-24=-2426/336, 2-37=-2145/338,

36-37=-303/527, 35-36=-243/2160, 34-35=-243/2160, 32-34=-45/2177, 30-32=-45/2177,

29-30=-180/1906, 28-29=-180/1906, 27-28=-180/1906, 26-27=-38/298

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=-122/1773, 36-49=-125/1830, 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=-153/1735,

24-55=-149/1682, 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-

BOT CHORD

WEBS

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) gable end zone and C-C Exterior(2) 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) 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.
- 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.

Continued on page 2



March 6,2024

SEAL

036322

Job	Truss	Truss Type	Qty	Ply	Lot 4 Magnolia Hills	
J0724-4081	A1GE	GABLE	1	1		164022651
30724-4001	AIGE	GABLE	'		Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:24:47 2024 Page 2

ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

- 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.

Job Truss Truss Type Qty Lot 4 Magnolia Hills 164022652 ATTIC J0724-4081 A2 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:24:50 2024 Page 1 ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?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.

44-11-0

46-2-0 44-11-0 0-5-8 32-6-13 34-7-12 2-1-5 2-0-15 10-7-0 12-4-3 14-5-8 22-5-8 1-3-0 Scale = 1:84.9

8x8 = 8x8 = 8 8.00 12 10 11 5 ²⁹3x10 28 26 3x10 || 5x8 = 35 6x8 × 12 4x6 / 4x6 < 13 7-2-14 7-2-4 36 31 6x8 // 6x8 <> 12 23-10-0 14 0-4-0 2-0-15 21 19 20 23 22 18 17 16 24 8x12 = 8x12 = 3x6 II 5x5 =8x8 =5x5 =3x6 II

6x8 =

1 Row at midpt

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

34-7-12

				' '	-400	V <u>-</u>					
	4-5-8	6-1-8	1	12-0-4	0-10-4	11-2-4		5-9-12	4-5-8	1	
Plate Offsets (X,Y) [7:0-4-4,0-4-12], [9:0-4-4,0-4-12], [18:0-4-8,0-4-0], [22:0-4-8,0-4-0]											
LOADING (psf)	SP	ACING- 2	-0-0	CSI.	DEFL.	in (loc) I/de	fl L/d	PLAT	ES GRI	P	
TCII 20.0	Pla	te Grin DOI	l 15	TC 0.26	Vert(LL)	-0.23.20-22 >99	9 360	MT20	244	/190	

23-5-8

TOP CHORD

BOT CHORD

WEBS

JOINTS

8x8 =

22-7-4

TCDL 10.0 Lumber DOL 1.15 ВС 0.41 Vert(CT) -0.29 20-22 >916 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.64 Horz(CT) 0.03 16 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Wind(LL) 0.22 20-22 >999 240 Weight: 548 lb 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=-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.

10-7-0

TOP CHORD 2-3=-2370/206, 3-5=-2728/233, 5-6=-2261/352, 6-7=-1845/460, 7-8=-1591/434, 8-9=-1591/434, 9-10=-1847/458, 10-11=-2267/352, 11-13=-2726/233, 13-14=-2360/208,

2-24=-2051/249, 14-16=-2043/251

BOT CHORD 23-24=-183/405, 22-23=-76/2093, 20-22=0/2154, 18-20=0/2154, 17-18=-91/1909 **WEBS**

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

2-23=-84/1792, 7-28=-1/467, 9-29=0/471, 3-23=-752/71, 3-22=-223/510,

13-18=-223/526, 13-17=-766/75, 14-17=-86/1776

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) -0-11-7 to 3-6-7, Interior(1) 3-6-7 to 14-5-8, Exterior(2) 14-5-8 to 20-9-12, Interior(1) 20-9-12 to 30-5-8, Exterior(2) 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.



March 6,2024

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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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 4 Magnolia Hills 164022653 J0724-4081 A2-GR ATTIC Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:24:55 2024 Page 1

40-5-8

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

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

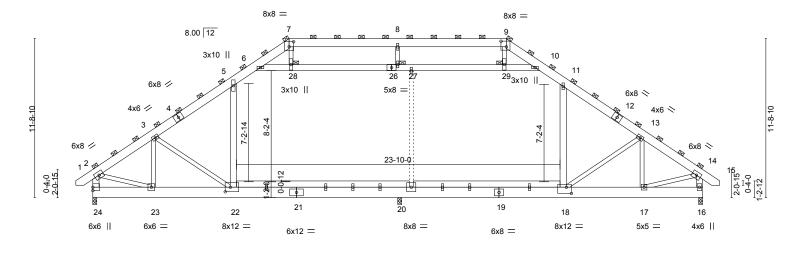
(Switched from sheeted: Spacing > 2-8-0).

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

44-11-0

ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

46-2-0 44-11-0 0-5-8 32-6-13 34-7-12 2-1-5 2-0-15 10-7-0 12-4-3 14-5-8 22-5-8 1-3-0 Scale = 1:84.9



	4-5-8	6-1-8	1	12-0)-4	0-10-4	11-2-4		1	5-9-12	4-5-8	1
Plate Offsets (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]							
LOADING (psf)	SF	PACING- 4	0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATE	·s	GRIP
TCLL 20.0			.15	TC	0.39	Vert(LL)	-0.41 20-22		360	MT20	.0	244/190
TCDL 10.0			.15	BC	0.47	Vert(CT)	-0.54 20-22	>496	240			
BCLL 0.0		ep Stress Incr	NO	WB	0.67	Horz(CT)	0.04 16	n/a	n/a			
BCDL 10.0	Co	ode IRC2015/TPI20	14	Matrix	K-S	Wind(LL)	0.22 20-22	>999	240	Weight	:: 1095 lb	FT = 20%

TOP CHORD

BOT CHORD

JOINTS

34-7-12

22-7-4

LUMBER-BRACING-

10-7-0

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=-494(LC 6)

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

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

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

16-17=0/538

WFBS 5-22=0/1895, 11-18=0/1379, 6-28=-2843/0, 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-

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 7-10; Vult=130mph 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 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this



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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	Lot 4 Magnolia Hills	
J0724-4081	A2-GR	ATTIC	1	2		164022653
					Job Reference (optional)	

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:24:55 2024 Page 2 ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

NOTES-

- 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

Continued on page 3





Job	Truss	Truss Type	Qty	Ply	Lot 4 Magnolia Hills	
10=0.4.400.4						164022653
J0724-4081	A2-GR	ATTIC	1	2	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:24:55 2024 Page 3 ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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) 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

21) 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

22) 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

23) 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

24) 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

25) 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

26) 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

27) 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

28) Reversal: 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

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

Continued on page 4



Job	Truss	Truss Type	Qty	Ply	Lot 4 Magnolia Hills	
						164022653
J0724-4081	A2-GR	ATTIC	1	2	Job Reference (ontional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:24:55 2024 Page 4 ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

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

30) 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

31) 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

32) 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

33) 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

34) 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

35) 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

36) 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

37) 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

Job Truss Truss Type Qty Ply Lot 4 Magnolia Hills 164022654 J0724-4081 A2A-GR ATTIC Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

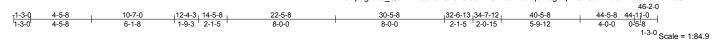
8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:24:53 2024 Page 1 ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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



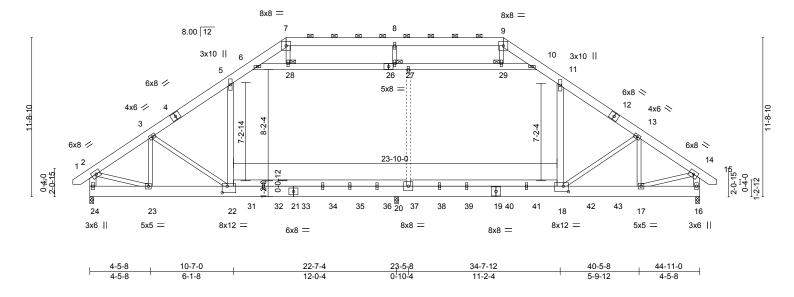


Plate Offsets (X,Y)	[18:0-4-8,0-4-12], [22:0-4	-8,0-5-12]								
LOADING (ps	f)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.	Ó	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.21 18-20	>999	360	MT20	244/190
TCDL 10.	0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.30 18-20	>882	240		
BCLL 0.	0 *	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.03 16	n/a	n/a		
BCDL 10.	0	Code IRC2015/TF	PI2014	Matrix	:-S	Wind(LL)	0.07 20-22	>999	240	Weight: 1643 lb	FT = 20%

TOP CHORD

BOT CHORD

JOINTS

BRACING-LUMBER-

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*

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=4361(LC 2), 16=6249(LC 14), 20=5112(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-4921/0, 3-5=-6068/0, 5-6=-4453/0, 6-7=-1708/246, 7-8=-1385/218, 8-9=-1385/218,

9-10=-1679/244, 10-11=-4417/0, 11-13=-6209/0, 13-14=-7115/0, 2-24=-4117/0,

14-16=-5829/0

23-24=-183/488, 22-23=-31/4031, 20-22=0/4884, 18-20=0/4884, 17-18=0/5912, BOT CHORD

16-17=0/658

WEBS 5-22=0/2885, 11-18=0/3225, 6-28=-5064/0, 27-28=-5026/0, 27-29=-5026/0,

10-29=-5051/0, 2-23=0/3763, 7-28=-1/561, 9-29=0/470, 3-23=-1579/71, 3-22=-223/1123,

13-18=-1275/457, 13-17=-766/768, 14-17=0/5563

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 0-5-0 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 7-10; Vult=130mph 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.

minimi

March 6,2024

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/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 4 Magnolia Hills	
						164022654
J0724-4081	A2A-GR	ATTIC	1	3		
					Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:24:53 2024 Page 2 ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

NOTES-

- 7) Concentrated loads from layout are not present in Load Case(s): #3 Dead + Uninhabitable Attic Without Storage; #4 Dead + 0.6 MWFRS Wind (Pos. Internal) Left; #5 Dead + 0.6 MWFRS Wind (Pos. Internal) Right; #6 Dead + 0.6 MWFRS Wind (Neg. Internal) Left; #7 Dead + 0.6 MWFRS Wind (Neg. Internal) Right; #8 Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel; #9 Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #11 Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel; #12 Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel; #13 Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel; #20 Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left); #21 Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left); #21 Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left); Int) Right); #22 Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel); #23 Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel); #36 Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left; #37 Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right; #38 Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left; #39 Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right; #40 Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel; #41 Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel; #42 Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #43 Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel; #44 Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel; #45 Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel; #46 Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left); #47 Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right); #48 Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right); 1st Parallel); #49 Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel).
- 8) 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
- 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 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 32-9-4, 264 lb down at 34-9-4, 264 lb down at 36-9-4, and 264 lb down at 38-9-4, and 2939 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=-1000(B) 31=-5(B) 32=-5(B) 33=-5(B) 34=-5(B) 35=-5(B) 36=-5(B) 37=-236(B) 38=-236(B) 39=-236(B) 40=-48(B) 41=-48(B) 42=-48(B) 43=-48(B)



Job Truss Truss Type Qty Ply Lot 4 Magnolia Hills 164022655 J0724-4081 A3 MONOPITCH 2 Job Reference (optional)

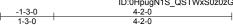
Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:24:56 2024 Page 1 ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

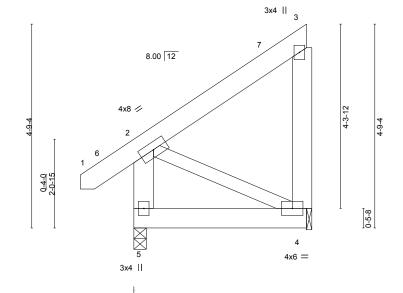
Structural wood sheathing directly applied or 4-2-0 oc purlins,

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

except end verticals.



Scale = 1:27.0



LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.00	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-P	Wind(LL)	0.00	5	****	240	Weight: 42 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

2-4: 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.

NOTES-

- 1) 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) -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.





Job Truss Truss Type Qty Ply Lot 4 Magnolia Hills 164022656 J0724-4081 A3GE **GABLE** Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:24:57 2024 Page 1 $ID: OHpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$

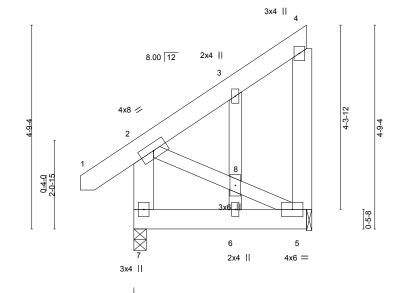
Structural wood sheathing directly applied or 4-2-0 oc purlins,

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

except end verticals.

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

Scale = 1:27.0



LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	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	0.04	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	12014	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.

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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.





Job Truss Truss Type Qty Ply Lot 4 Magnolia Hills 164022657 J0724-4081 **B1 ROOF SPECIAL** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:24:58 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 30-6-0 31-9-0 1-3-0 18-8-8 25-0-0 8-2-0 3-5-8 6-3-8 5-6-0 Scale = 1:67.3 5x5 = 6 8.00 12 2x4 7 17 16 4x6 🖊 4x6 < 2x4 > 2x4 || 9 7-8-13 4x4 🖊 4x4 > 18 10 5x8 | 6-0-0 3x10 || 5.00 12 13 2x4 || 6x6 =18_T9-4 0-2-12 25-0-0 30-6-0 9-6-0 6-2-12 5-6-0 Plate Offsets (X,Y)--[2:0-6-5,Edge], [14:0-3-8,0-3-8] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP -0.25 13-14 TCLL 20.0 Plate Grip DOL 1.15 TC 0.55 Vert(LL) >574 360 MT20 244/190

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

WEBS

TOP CHORD

BOT CHORD

-0.42 13-14

0.32 13-14

14

0.09

>338

>451

n/a

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

1 Row at midpt

240

n/a

240

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

7-14, 6-14

Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

LUMBER-

TCDL

BCLL

BCDL

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

10.0

0.0

10.0

SLIDER Left 2x4 SP No.2 4-3-8, Right 2x4 SP No.2 3-2-0

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

REACTIONS. (size) 2=0-5-8, 14=0-5-8, 11=0-3-0 Max Horz 2=-262(LC 10)

Max Uplift 2=-95(LC 13), 14=-71(LC 12), 11=-375(LC 8) Max Grav 2=727(LC 1), 14=1553(LC 19), 11=631(LC 26)

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

1.15

YES

2-4=-1447/716, 4-6=-1074/633, 6-7=-419/769, 7-9=-258/492, 9-11=-438/453 2-15=-498/1305, 13-14=-303/231, 11-13=-303/231 TOP CHORD **BOT CHORD**

WEBS 4-15=-495/289, 6-15=-232/1121, 7-14=-699/516, 6-14=-849/141

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) -1-1-1 to 3-3-12, Interior(1) 3-3-12 to 15-3-0, Exterior(2) 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

ВС

WB

Matrix-S

0.53

0.47

- 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 95 lb uplift at joint 2, 71 lb uplift at joint 14 and 375 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



FT = 20%

Weight: 230 lb



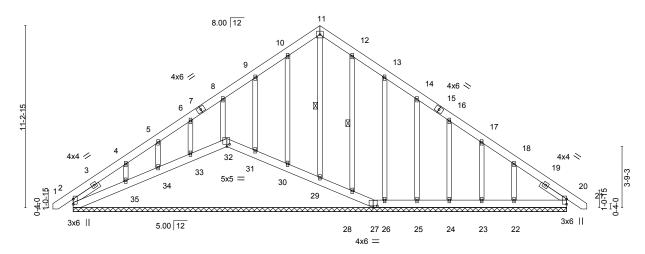
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 4 Magnolia Hills 164022658 J0724-4081 B1GE **GABLE** Job Reference (optional) Fayetteville, NC - 28314, Comtech, Inc, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:25:00 2024 Page 1 ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





			10-9-0 9-6-0			-9-8 0-8	-			-9-0 11-8	33-0-0 1-3-0	
Plate Off	sets (X,Y)	[27:0-3-0,0-1-4], [32:0-2-	0,0-1-12]									
LOADIN TCLL	20.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.07	DEFL. Vert(LL)	in 0.00	(loc) 20	l/defl n/r	L/d 120	PLATES MT20	GRIP 244/190
TCDL BCLL BCDL	10.0 0.0 * 10.0	Lumber DOL Rep Stress Incr Code IRC2015/TI	1.15 YES PI2014	BC WB Matri	0.04 0.17 x-S	Vert(CT) Horz(CT)	0.00 0.01	20 20	n/r n/a	120 n/a	Weight: 266 lb	FT = 20%

LUMBER-BRACING-

TOP CHORD 2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD BOT CHORD** 2x6 SP No.1 Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.2 **WEBS** 1 Row at midpt 11-29, 12-28

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=-181(LC 8),

35=-230(LC 12), 26=-109(LC 13), 22=-190(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 27, 20, 30, 31, 33, 34, 28, 26, 25, 24, 23 except 2=324(LC

20), 32=268(LC 19), 29=254(LC 13), 35=296(LC 19), 22=284(LC 20)

15-3-0

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

Left 2x4 SP No.2 1-11-14, Right 2x4 SP No.2 1-10-13

TOP CHORD $2\text{-}4\text{--}292/240, \, 9\text{-}10\text{--}260/286, \, 10\text{-}11\text{--}293/319, \, 11\text{-}12\text{--}294/319, \, 12\text{-}13\text{--}260/273}$ **BOT CHORD** 31-32=-142/251, 30-31=-143/253, 29-30=-143/253, 28-29=-143/253, 27-28=-138/253

WEBS 4-35=-251/239, 18-22=-250/206

SLIDER

- 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) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 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=181, 35=230, 26=109, 22=190.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 6,2024

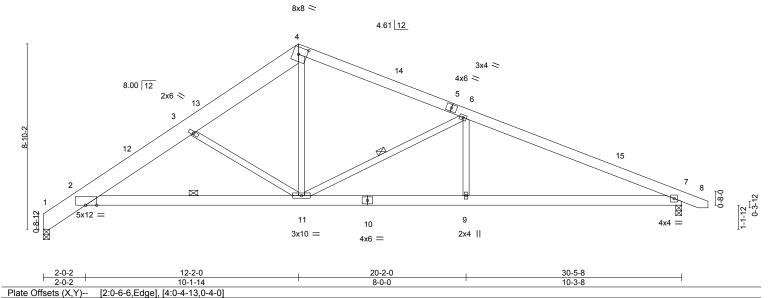


818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Lot 4 Magnolia Hills 164022659 J0724-4081 C₁ **ROOF SPECIAL** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:25:01 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 12-2-0 5-0-0 8-0-0 10-3-8 1-3-0

Scale = 1:55.0



LOADING (psf) SPACING-CSI DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 20.0 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 ВС 0.47 Vert(CT) -0.28 2-11 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.51 Horz(CT) 0.12 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Wind(LL) 2-11 >999 240 Weight: 212 lb Matrix-S 0.08

BRACING-

WEBS

TOP CHORD **BOT CHORD**

LUMBER-

2x6 SP No.1 *Except* TOP CHORD

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

BOT CHORD WEBS 2x4 SP No.2

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=-569/121, 2-3=-2092/501, 3-4=-1644/425, 4-6=-1467/377, 6-7=-2383/481 2-11=-353/1874, 9-11=-346/2112, 7-9=-346/2112 **BOT CHORD**

WEBS 3-11=-791/296, 4-11=-169/1036, 6-11=-960/266, 6-9=0/375

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 12-2-0, Exterior(2) 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.
- * 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.



Structural wood sheathing directly applied or 4-5-9 oc purlins.

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

10-0-0 oc bracing: 2-11

1 Row at midpt

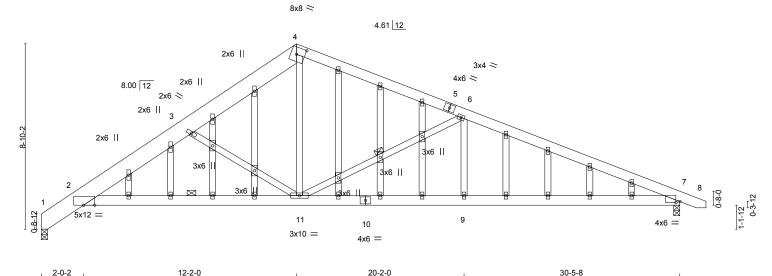
March 6,2024



Job Truss Truss Type Qty Ply Lot 4 Magnolia Hills 164022660 J0724-4081 C1SG **ROOF SPECIAL STRUCTU** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:25:02 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f 12-2-0 5-0-0 8-0-0 10-3-8 1-3-0

Scale = 1:55.0



2-0-2	10-1-14	'	8-0-0		10-3-	-8	·
Plate Offsets (X,Y)	[2:0-6-6,Edge], [4:0-4-13,0-4-0], [7:0-2-	4,0-0-9]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.71	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 IRC2015/TPI2014	Matrix-S	Wind(LL)	0.11 2-11	>999 240	Weight: 263 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x6 SP No.1 *Except* TOP CHORD

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

BOT CHORD WEBS 2x4 SP No.2

OTHERS 2x4 SP No.2

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

Max Horz 1=-273(LC 10)

Max Uplift 1=-208(LC 12), 7=-307(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=-569/212, 2-3=-2092/687, 3-4=-1644/583, 4-6=-1467/531, 6-7=-2383/765

BOT CHORD 2-11=-471/1874, 9-11=-577/2112, 7-9=-577/2112

WEBS 3-11=-791/393, 4-11=-299/1036, 6-11=-960/461, 6-9=0/375

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) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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 100 lb uplift at joint(s) except (jt=lb) 1=208, 7=307.



Structural wood sheathing directly applied or 4-4-5 oc purlins.

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

10-0-0 oc bracing: 2-11

1 Row at midpt



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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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 4 Magnolia Hills 164022661 J0724-4081 C2 **ROOF SPECIAL** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:25:03 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 27-10-8 21-2-12 29-1-8

3-9-5

5-0-0

Scale = 1:55.5

6-7-12

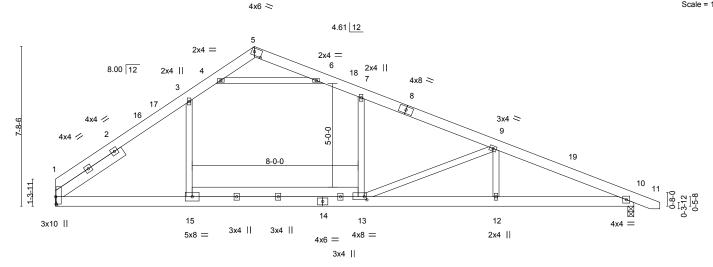
Structural wood sheathing directly applied or 4-11-7 oc purlins.

Rigid ceiling directly applied or 9-2-13 oc bracing.

1-3-0

2-10-7

21-2-12



6-7-0 3-0-0 5-0-0 2-10-7 6-7-12 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] LOADING (psf) SPACING-CSI DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.51 Vert(LL) -0.31 12-13 >999 360 MT20 244/190 -0.56 12-13 TCDL 10.0 Lumber DOL 1.15 ВС 0.90 Vert(CT) >598 240 BCLL 0.0 Rep Stress Incr YES WB 0.92 Horz(CT) 0.04 10 n/a n/a Code IRC2015/TPI2014 0.23 12-13 FT = 20% **BCDL** 10.0 Wind(LL) >999 240 Weight: 205 lb Matrix-S

BRACING-

TOP CHORD

BOT CHORD

14-7-0

LUMBER-

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

9-12,9-13: 2x4 SP No.2 SLIDER Left 2x6 SP No.1 3-11-6

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

Max Horz 1=-189(LC 10)

4-11-4

3-0-0

9-7-0

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=-1685/375, 3-4=-1221/401, 5-6=-39/275, 6-7=-1215/378, 7-9=-1449/349,

9-10=-2434/469

BOT CHORD 1-15=-153/1243, 13-15=-161/1248, 12-13=-366/2187, 10-12=-366/2187 WEBS 3-15=0/525, 7-13=0/385, 4-6=-1466/447, 9-12=0/375, 9-13=-1095/232

- 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) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 9-7-0, Exterior(2) 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



March 6,2024

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

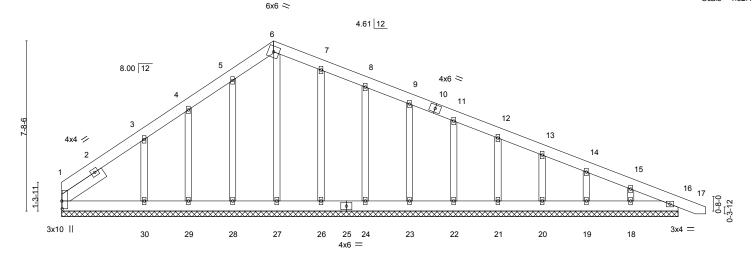
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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





Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:25:05 2024 Page 1 ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 27-10-8 18-3-8 1-3-0

Scale = 1:52.1



27-10-8 Plate Offsets (X V)--[1:0-4-4 0-0-4]

Tidle Ons	JC (3 (71, 1)	[1.0 + +,0 0 +]										
LOADING	(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	16	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	16	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	16	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2	2014	Matri	x-S						Weight: 215 lb	FT = 20%

BOT CHORD

LUMBER-BRACING-TOP CHORD

2x6 SP No.1 TOP CHORD **BOT CHORD** 2x6 SP No.1 **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=-158/274, 6-7=-157/257

WEBS 3-30=-281/228

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) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.

March 6,2024

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 4 Magnolia Hills 164022663 J0724-4081 D1 **ROOF SPECIAL** 2 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:25:06 2024 Page 1

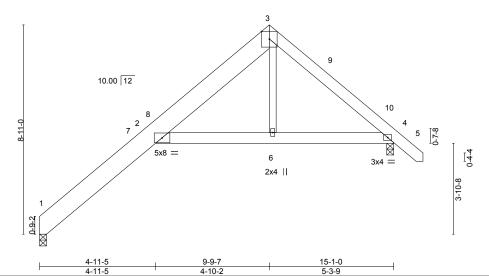
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15-1-0 16-4-0 4-11-5 4-10-2 5-3-9 1-3-0

> 8x8 = Scale = 1:49.1

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

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



LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.15	TC	0.66	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 IRC2015/TF	PI2014	Matri	x-S	Wind(LL)	0.15	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.

TOP CHORD 1-2=-394/97, 2-3=-530/150, 3-4=-768/205

BOT CHORD 2-6=-14/550, 4-6=-13/557

WFBS 3-6=0/284

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 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.



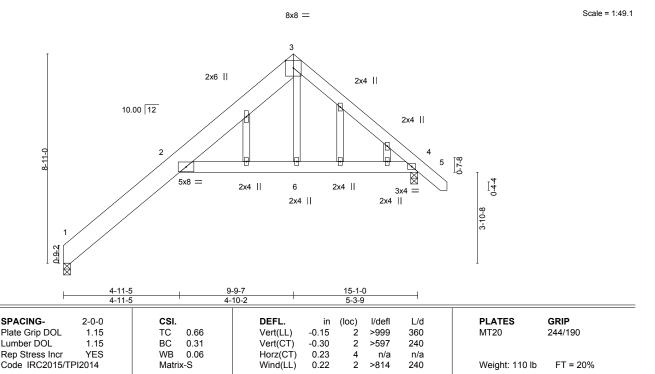
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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Job Truss Truss Type Qty Ply Lot 4 Magnolia Hills 164022664 J0724-4081 D1SG **GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:25:07 2024 Page 1 ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 15-1-0 4-11-5 4-10-2 5-3-9 1-3-0



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

TOP CHORD 2x10 SP No.1 *Except* 3-5: 2x6 SP No.1

BOT CHORD 2x6 SP No.1

WEBS 2x4 SP No.2 **OTHERS** 2x4 SP No.2

20.0

10.0

0.0

10.0

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

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=-530/161, 3-4=-783/245 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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable 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.



Job Truss Truss Type Qty Ply Lot 4 Magnolia Hills 164022665 J0724-4081 D2 **ROOF SPECIAL** 2 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:25:07 2024 Page 1

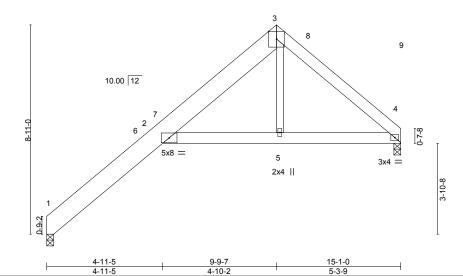
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4-11-5 4-10-2 5-3-9

> 8x8 = Scale = 1:49.1

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

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



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL Vert(LL) 360 244/190 **TCLL** 1.15 TC 0.67 -0.15 >999 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 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 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

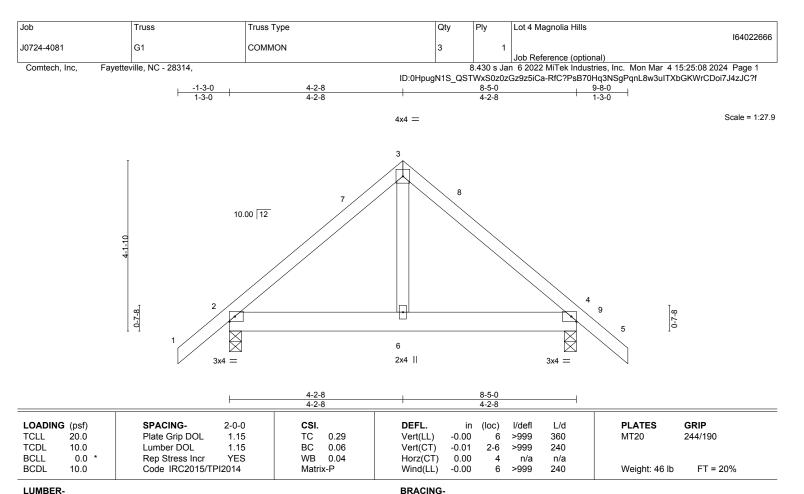
NOTES-

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.







TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.2

> 2=0-3-8, 4=0-3-8 (size) Max Horz 2=109(LC 11)

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=-321/71, 3-4=-321/71

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) -1-3-0 to 3-1-13, Interior(1) 3-1-13 to 4-2-8, Exterior(2) 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.

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 4 Magnolia Hills 164022667 J0724-4081 G1GE **GABLE** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:25:09 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, $ID: OHpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$ 8-1-0 9-4-0 4-0-8 4-0-8 1-3-0 Scale = 1:27.4 4x4 = 10.00 12 2x4 || 5 2x4 || 3 0-7-8 10 3x4 = 3x4 =

8-1-0

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

I/defl

n/r

n/r

n/a

(loc)

6

-0.01

-0.01

0.00

L/d

120

120

n/a

PLATES

Weight: 50 lb

MT20

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

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

GRIP

244/190

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

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)

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

2-0-0

1.15

1.15

YES

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.

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf, BCDL=6.0psf, h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip

CSI.

TC

ВС

WB

Matrix-P

0.08

0.01

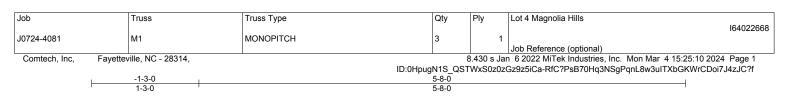
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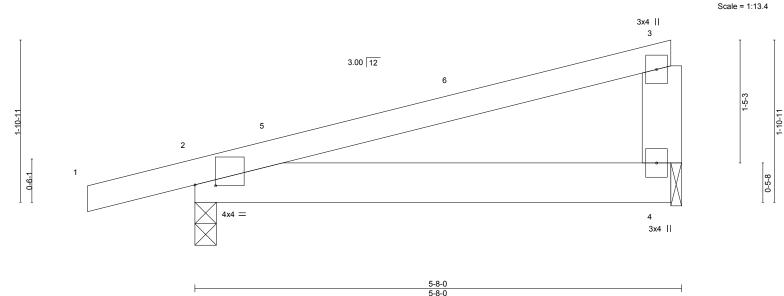
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced 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.
- 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) 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,



March 6,2024







LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES GRIP
LUADING (psi)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	i/deli L/d	PLATES GRIP
TCLL 20.0	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 0.11	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 IRC2015/TPI2014	Matrix-P	Wind(LL) 0.	02 2-4	>999 240	Weight: 26 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x6 SP No.1

Plate Offsets (X Y)-- [2:0-2-14 0-0-2]

REACTIONS. (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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -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



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

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

except end verticals.



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Job Truss Truss Type Qty Ply Lot 4 Magnolia Hills 164022669 J0724-4081 M1GE **GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:25:11 2024 Page 1

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

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

except end verticals.

5-8-0

Scale = 1:13.4

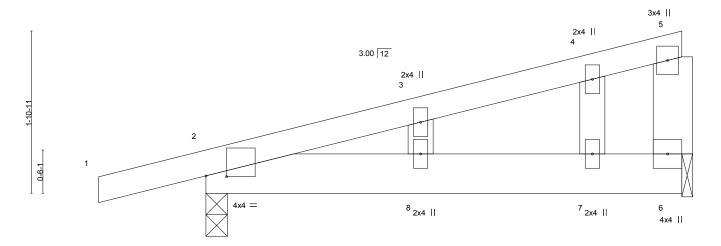




Plate Off	fsets (X,Y)	[2:0-2-14,0-0-2]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.ó	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	0.02	` <u>é</u>	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	ВС	0.12	Vert(CT)	-0.02	8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-S						Weight: 28 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 **OTHERS** 2x4 SP No.2

(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.

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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.
- 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) 6 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) 6.
- 8) 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.





Job Truss Truss Type Qty Ply Lot 4 Magnolia Hills 164022670 J0724-4081 PB **GABLE** 5 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:25:12 2024 Page 1 ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 8-0-0 8-0-0 Scale = 1:34.2 4x4 = 8.00 12 13 2x4 || 2x4 || 12 3 14 12 0-1-10 10 9 8 2x4 || 2x4 || 2x4 | 16-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl 20.0 Vert(LL) 0.00 120 244/190 **TCLL** Plate Grip DOL 1.15 TC 0.14 6 n/r 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 IRC2015/TPI2014 **BCDL** 10.0 Matrix-S Weight: 63 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS. All bearings 14-5-12

Max Horz 2=-124(LC 10)

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

Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=252(LC 1), 10=363(LC 19), 8=362(LC 20)

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

3-10=-309/207, 5-8=-310/207 WEBS

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) 0-3-2 to 4-7-15, Interior(1) 4-7-15 to 8-0-0, Exterior(2) 8-0-0 to 12-4-13, Interior(1) 12-4-13 to 15-8-14 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.
- 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.



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

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

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 4 Magnolia Hills 164022671 J0724-4081 PBA **GABLE** 2 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:25:13 2024 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 8-0-0 8-0-0 5x5 = Scale = 1:34.2 8.00 12 2x4 | 2x4 || # 0-1-10 3x4 = 10 9 8 2x4 || 2x4 || 2x4 | 16-0-0 LOADING (psf) SPACING-5-0-0 DEFL. **PLATES** GRIP CSI (loc) I/def L/d 20.0 Vert(LL) 0.00 244/190 **TCLL** Plate Grip DOL 1.15 TC 0.17 n/r 120 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.23 Vert(CT) 0.00 n/r 120 **BCLL** 0.0 Rep Stress Incr NO WB 0.16 Horz(CT) 0.00 6 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 77 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

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

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

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

LUMBER-

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

2x4 SP No.2 **OTHERS**

REACTIONS. All bearings 13-10-9 Max Horz 2=-303(LC 10) (lb) -

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

Max Grav All reactions 250 lb or less at joint(s) except 2=392(LC 1), 6=392(LC 1), 9=617(LC 1), 10=864(LC 19),

8=858(LC 20)

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

2-3=-326/230, 3-4=-389/340, 4-5=-388/348 TOP CHORD WEBS 4-9=-411/0, 3-10=-756/503, 5-8=-757/504

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) 0-4-15 to 4-9-12, Interior(1) 4-9-12 to 8-0-0, Exterior(2) 8-0-0 to 12-4-13, Interior(1) 12-4-13 to 15-7-1 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) 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.



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

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164022672 J0724-4081 **PGBE GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:25:14 2024 Page 1 ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 8-0-0 8-0-0 8-0-0 Scale: 3/8"=1" 4x4 = 6 5 8.00 12 10 0-1-10 0-1-10 3x4 =17 16 15 13 12 3x4 =14 16-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/def 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 IRC2015/TPI2014 **BCDL** 10.0 Matrix-S Weight: 75 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Qty

Ply

Lot 4 Magnolia Hills

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

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

LUMBER-

Job

Truss

Truss Type

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

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

REACTIONS. All bearings 14-5-12

Max Horz 2=-155(LC 10)

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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf, BCDL=6.0psf, h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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.
- * 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.





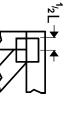
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)

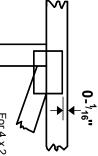


Symbols

PLATE LOCATION AND ORIENTATION



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



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

₹

connector plates required direction of slots in This symbol indicates the

* Plate location details available in MiTek software or upon request

PLATE SIZE

4 × 4

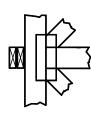
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



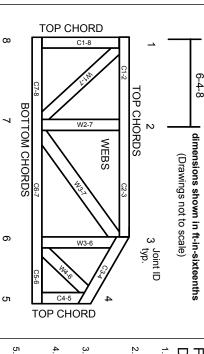
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

DSB-22:

ANSI/TPI1: National Design Specification for Metal Installing, Restraining & Bracing of Metal Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing. Plate Connected Wood Trusses Plate Connected Wood Truss Construction.

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

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

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

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MiTek



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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ 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
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5 Cut members to bear tightly against each other
- 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.
- œ 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 camber for dead load deflection responsibility of truss fabricator. General practice is to
- 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
- 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.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated



Client: Project: Address: **Precision Custom Homes**

Anconia Mod.

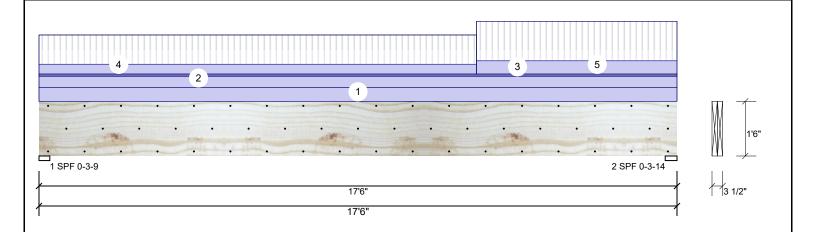
Date: 8/29/2024

Input by: David Landry Job Name: Lot 4 Magnolia Hills Project #: J0724-4082

Page 1 of 10

2-Ply - PASSED Kerto-S LVL 1.750" X 18.000" BM₁

Level: Level



Member Information Reactions UNPATTERNED Ib (Uplift) Application: Wind Type: Floor Brg Direction Live Dead Snow Const Plies: 2 Design Method: ASD 2907 Vertical 2318 87 0 0 1 Moisture Condition: Dry **Building Code: IBC/IRC 2015** 2 Vertical 2674 3033 88 0 0 Deflection LL: 480 Load Sharing: No Deflection TL: 360 Deck: Not Checked Importance: Normal - II Temp <= 100°F Temperature: **Bearings** Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. D+L 1 - SPF 3.563" Vert 2907 / 2318 5226 L

2 - SPF 3.875"

Vert

99%

3033 / 2674

5707 L

D+I

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	22105 ft-lb	8'10 13/16"	42981 ft-lb	0.514 (51%)	D+L	L
Unbraced	22105 ft-lb	8'10 13/16"	42981 ft-lb	0.514 (51%)	D+L	L
Shear	4439 lb	15'8 1/8"	13440 lb	0.330 (33%)	D+L	L
LL Defl inch	0.172 (L/1190)	8'9 15/16"	0.426 (L/480)	0.403 (40%)	L	L
TL Defl inch	0.381 (L/536)	8'9 1/2"	0.568 (L/360)	0.671 (67%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be continuously laterally braced.
- 7 Bottom must be laterally braced at bearings.

8 Lateral sler	nderness ratio based o	on single ply width.								
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Above
2	Uniform			Тор	100 PLF	0 PLF	0 PLF	0 PLF	0 PLF	C2GE
3	Tie-In	0-0-0 to 17-6-0	0-6-0	Тор	20 PSF	0 PSF	20 PSF	0 PSF	0 PSF	Roof Load
4	Part. Uniform	0-0-0 to 12-0-0		Тор	86 PLF	257 PLF	0 PLF	0 PLF	0 PLF	F3
5	Part. Uniform	12-0-0 to 17-6-0		Тор	116 PLF	347 PLF	0 PLF	0 PLF	0 PLF	F2
	Self Weight				14 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Comtech, Inc. 1001 S Reilly Rd., NC 28314 (910) 864-8787



This design is valid until 6/28/2026



Client: Project: Address: **Precision Custom Homes**

Anconia Mod.

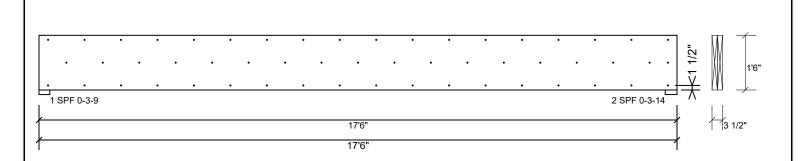
8/29/2024

Input by: David Landry Job Name: Lot 4 Magnolia Hills Project #: J0724-4082

Page 2 of 10

1.750" X 18.000" **Kerto-S LVL** 2-Ply - PASSED BM₁

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

	•	•
Capacity	0.0 %	
Load	0.0 PLF	
Yield Limit per Foot	245.6 PLF	
Yield Limit per Fastener	81.9 lb.	
См	1	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination		
Duration Factor	1.00	

Notes

NOtes
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Comtech, Inc. 1001 S Reilly Rd., NC 28314 (910) 864-8787



This design is valid until 6/28/2026



Precision Custom Homes

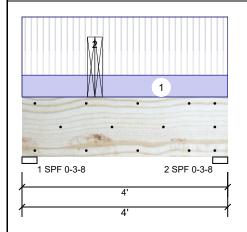
Anconia Mod.

Date: 8/29/2024 Input by: David Landry

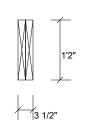
Job Name: Lot 4 Magnolia Hills Project #: J0724-4082

1.750" X 14.000" **Kerto-S LVL** 2-Ply - PASSED BM₂

Level: Level



Temp <= 100°F



Page 3 of 10

Member Information

Type: Plies: Moisture Condition: Dry Deflection LL: 480 Deflection TL: 360 Importance: Normal - II

Application: Floor Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: No Deck: Not Checked

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	80	1806	1701	0	0
2	Vertical	80	937	858	0	0

Bearings

Bearing	Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	67%	1806 / 1701	3507	L	D+S
2 - SPF	3.500"	Vert	34%	937 / 858	1795	L	D+S

Analysis Results

Temperature:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4138 ft-lb	1'5"	31049 ft-lb	0.133 (13%)	D+S	L
Unbraced	4138 ft-lb	1'5"	31049 ft-lb	0.133 (13%)	D+S	L
Shear	3296 lb	1'5 1/2"	12021 lb	0.274 (27%)	D+S	L
LL Defl inch	0.007 (L/6271)	1'5"	0.089 (L/480)	0.077 (8%)	S	L
TL Defl inch	0.014 (L/3057)	1'5"	0.118 (L/360)	0.118 (12%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be continuously laterally braced. 7 Bottom must be laterally braced at bearings.

8 Lateral slenderness ratio based on single ply width

8 Lateral siende	erness ratio based on s	ingle ply width.								
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Tie-In	0-0-0 to 4-0-0	1-0-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	Floor Load
2	Point	1-5-0		Тор	2640 lb	0 lb	2559 lb	0 lb	0 lb	B3 Brg 2
	Bearing Length	0-3-8								
	Self Weight				11 PLF					

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 Damaged Beams must not be used

- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info







Precision Custom Homes

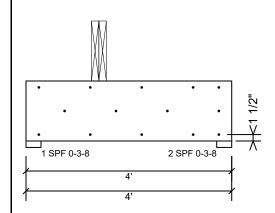
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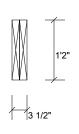
Date: 8/29/2024 Input by:

David Landry Job Name: Lot 4 Magnolia Hills Project #: J0724-4082

1.750" X 14.000" 2-Ply - PASSED **Kerto-S LVL BM2**

Level: Level





Page 4 of 10

Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %	
Load	0.0 PLF	
Yield Limit per Foot	245.6 PLF	
Yield Limit per Fastener	81.9 lb.	
CM	1	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination		
Duration Factor	1.00	

Notes

NOtes
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- Informing & Installation

 I. VIL beams must not be cut or drilled

 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 Damaged Beams must not be used

 Design assumes top edge is laterally restrained

 Design assumes top edge is laterally restrained is provide lateral support at bearing points to avoid lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Comtech, Inc. 1001 S Reilly Rd., NC 28314 (910) 864-8787



This design is valid until 6/28/2026

Manufacturer Info



Precision Custom Homes

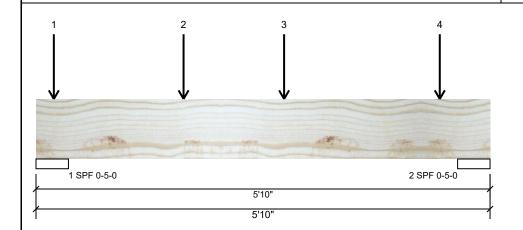
Anconia Mod.

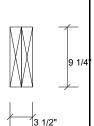
Date: 8/29/2024

Input by: David Landry Job Name: Lot 4 Magnolia Hills Project #: J0724-4082

1.750" X 9.250" **Kerto-S LVL** 2-Ply - PASSED BM₃

Level: Level





Page 5 of 10

Member Information

Type: Plies: Moisture Condition: Dry Deflection LL: 480 Deflection TL: 240 Importance: Normal - II Temp <= 100°F Temperature:

Application: Floor Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: No Deck: Not Checked

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	3107	3086	0	0
2	Vertical	0	2835	2814	0	0

Bearings

Bearing	Length	Dir.	Cap. F	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.000"	Vert	83%	3107 / 3086	6193	L	D+S
2 - SPF	5.000"	Vert	76%	2835 / 2814	5649	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	9142 ft-lb	1'10 3/4"	14423 ft-lb	0.634 (63%)	D+S	L
Unbraced	9142 ft-lb	1'10 3/4"	11505 ft-lb	0.795 (79%)	D+S	L
Shear	5936 lb	1'2 1/4"	7943 lb	0.747 (75%)	D+S	L
LL Defl inch	0.058 (L/1065)	2'8 7/16"	0.128 (L/480)	0.451 (45%)	S	L
TL Defl inch	0.116 (L/531)	2'8 7/16"	0.256 (L/240)	0.452 (45%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at end bearings.
- 6 Bottom must be laterally braced at end bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Point	0-2-12		Тор	127 lb	0 lb	127 lb	0 lb	0 lb	A2
	Bearing Length	0-3-8								
2	Point	1-10-12		Тор	3363 lb	0 lb	3363 lb	0 lb	0 lb	A1-GR
	Bearing Length	0-3-8								
3	Point	3-2-4		Тор	1205 lb	0 lb	1205 lb	0 lb	0 lb	A1
	Bearing Length	0-3-8								

Continued on page 2...

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- approvals

 Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

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Manufacturer Info







BM₃

Kerto-S LVL

Client: Project: Address: **Precision Custom Homes**

Anconia Mod.

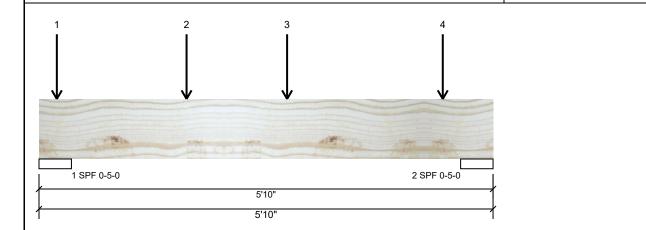
Date: 8/29/2024 Input by:

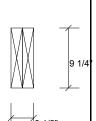
David Landry Job Name: Lot 4 Magnolia Hills

J0724-4082

Project #: 1.750" X 9.250" 2-Ply - PASSED

Level: Level





Page 6 of 10

.Continued from page 1

ID Load Type Location Trib Width Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments 4 Point 5-2-4 Тор 1205 lb 0 lb 1205 lb 0 lb 0 lb A1

> Bearing Length 0-3-8

7 PLF Self Weight

NOtes
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

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Manufacturer Info





Precision Custom Homes

Anconia Mod.

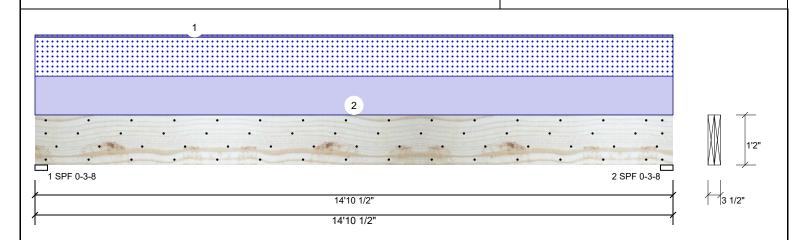
Date: 8/29/2024 Input by:

David Landry Job Name: Lot 4 Magnolia Hills Project #: J0724-4082

Page 7 of 10

1.750" X 14.000" **Kerto-S LVL** 2-Ply - PASSED BM4

Level: Level



Member Information Reactions UNPATTERNED Ib (Uplift) Wind Type: Application: Roof Brg Direction Live Dead Snow Const Plies: 2 Slope: 0/12 0 2639 2559 Vertical 0 0 1 Moisture Condition: Dry Design Method: ASD 2 Vertical 0 2639 2559 0 0 Deflection LL: 360 **Building Code: IBC/IRC 2015** Deflection TL: 240 Load Sharing: No Importance: Normal - II Deck: Not Checked Temp <= 100°F Temperature: **Bearings** Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. D+S 1 - SPF 3.500" Vert 100% 2639 / 2559 5198 L

2 - SPF 3.500"

Vert

100%

2639 / 2559

5198 L

D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	18157 ft-lb	7'5 1/4"	31049 ft-lb	0.585 (58%)	D+S	L
Unbraced	18157 ft-lb	7'5 1/4"	31049 ft-lb	0.585 (58%)	D+S	L
Shear	4994 lb	1'5 1/2"	12021 lb	0.415 (42%)	D+S	L
LL Defl inch	0.230 (L/753)	7'5 5/16"	0.481 (L/360)	0.478 (48%)	S	L
TL Defl inch	0.467 (L/370)	7'5 5/16"	0.721 (L/240)	0.648 (65%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 4 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top must be continuously laterally braced.
- 6 Bottom must be laterally braced at bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Tie-In	0-0-0 to 14-10-8	0-6-0	Near Face	20 PSF	0 PSF	20 PSF	0 PSF	0 PSF	Roof Load
2	Uniform			Far Face	334 PLF	0 PLF	334 PLF	0 PLF	0 PLF	C2
	Self Weight				11 PLF					

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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- Damaged Beams must not be used

- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Comtech, Inc. 1001 S Reilly Rd., NC 28314 (910) 864-8787



This design is valid until 6/28/2026 CSD DESIGN



Precision Custom Homes

Anconia Mod.

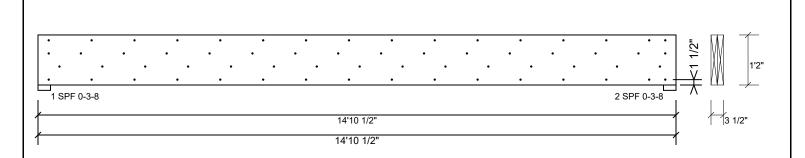
Date: 8/29/2024

Input by: David Landry Job Name: Lot 4 Magnolia Hills Project #: J0724-4082

Page 8 of 10

1.750" X 14.000" 2-Ply - PASSED **Kerto-S LVL** BM4

Level: Level



Multi-Ply Analysis

Fasten all plies using 4 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

	•	
Capacity	88.7 %	
Load	334.0 PLF	
Yield Limit per Foot	376.5 PLF	
Yield Limit per Fastener	94.1 lb.	
См	1	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination	D+S	
Duration Factor	1.15	

Notes

NOtes
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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- IARIGHING & INSTAILATION.

 LVL beams must not be cut or drilled.
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beams trength values, and code approvals.

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 Design assumes top edge is laterally restrained.
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This design is valid until 6/28/2026



Precision Custom Homes

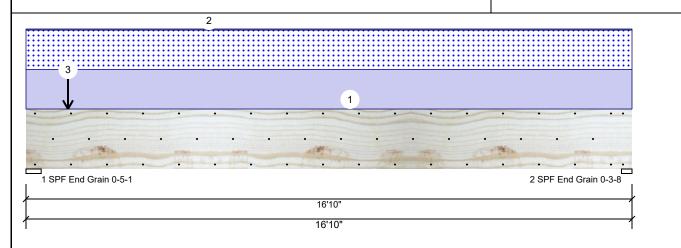
Anconia Mod.

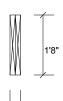
Date: 8/29/2024

Input by: David Landry Job Name: Lot 4 Magnolia Hills Project #: J0724-4082

Kerto-S LVL 2-Ply - PASSED 1.750" X 20.000" **GDH**

Level: Level





Page 9 of 10

Member Information

Type:	Header
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
Temperature:	Temp <= 100°F

Application: Floor Design Method: ASD **Building Code: IBC/IRC 2015**

Load Sharing: No **Header Supports** No Glass:

Deck: Not Checked

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	7562	7303	0	0
2	Vertical	0	5273	5017	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	41804 ft-lb	8'3 5/16"	60066 ft-lb	0.696 (70%)	D+S	L
Unbraced	41804 ft-lb	8'3 5/16"	60066 ft-lb	0.696 (70%)	D+S	L
Shear	9662 lb	2'1 1/16"	17173 lb	0.563 (56%)	D+S	L
LL Defl inch	0.244 (L/801)	8'4 13/16"	0.542 (L/360)	0.449 (45%)	S	L
TL Defl inch	0.499 (L/391)	8'4 13/16"	0.813 (L/240)	0.614 (61%)	D+S	L

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	5.063"	Vert	100%	7562 / 7303	14865	L	D+S
2 - SPF End Grain	3.500"	Vert	100%	5273 / 5017	10290	L	D+S

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- $2\,$ Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be continuously laterally braced.
- 7 Bottom must be laterally braced at bearings.
- 8 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	586 PLF	0 PLF	586 PLF	0 PLF	0 PLF	A1
2	Uniform			Тор	15 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Above
3	Point	1-2-0		Тор	2456 lb	0 lb	2456 lb	0 lb	0 lb	A1-GR
	Bearing Length	0-3-8								
	Self Weight				16 PLF					

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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- approvals

 Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

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Manufacturer Info







Precision Custom Homes

Anconia Mod.

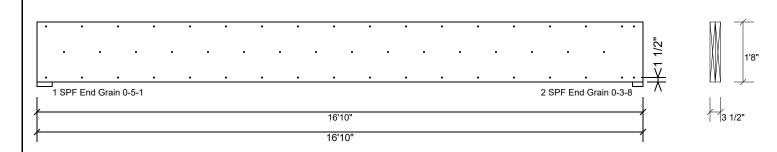
Date: 8/29/2024 Input by:

David Landry Job Name: Lot 4 Magnolia Hills Project #: J0724-4082

Page 10 of 10

2-Ply - PASSED **Kerto-S LVL** 1.750" X 20.000" **GDH**

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

	•	•
Capacity	0.0 %	
Load	0.0 PLF	
Yield Limit per Foot	245.6 PLF	
Yield Limit per Fastener	81.9 lb.	
См	1	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination		
Duration Factor	1.00	

Notes

NOtes
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Handling & Installation

- Informing & Installation

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Manufacturer Info

Comtech, Inc. 1001 S Reilly Rd., NC 28314 (910) 864-8787



CSD DESIGN



RE: J0724-4082

Lot 4 Magnolia Hills

Trenco

818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J0724-4082

Lot/Block: Model:
Address: Subdivision:
City: State:

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.4

Wind Code: N/A Wind Speed: N/A mph Roof Load: N/A psf Floor Load: 55.0 psf

This package includes 5 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	164022673	F1	3/5/2024
2	164022674	F1A	3/5/2024
3	164022675	F2	3/5/2024
4	164022676	F3	3/5/2024
5	164022677	F4	3/5/2024

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision

based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2024

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.

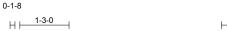


March 05, 2024

Job	Truss	Truss Type	Qty	Ply	Lot 4 Magnolia Hills
10704 4000		FLOOD			164022673
J0724-4082	F1	FLOOR	ь	1	
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

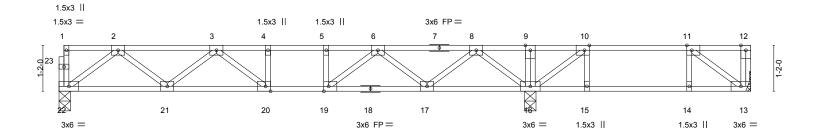
8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:25:26 2024 Page 1 $ID: OHpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$







Scale = 1:29.3



		11-11-12		17-7-0	
		11-11-12		5-7-4	
Plate Offsets (X,Y)	[10:0-1-8,Edge], [11:0-1-8,Edge], [19:0-	-1-8,Edge], [20:0-1-8,Edge	e]		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl	L/d PLATES GRIP	
TCLL 40.0	Plate Grip DOL 1.00	TC 0.37	Vert(LL) -0.06 20-21 >999	480 MT20 244/190	
TCDL 10.0	Lumber DOL 1.00	BC 0.37	Vert(CT) -0.09 20-21 >999	360	
BCLL 0.0	Rep Stress Incr YES	WB 0.30	Horz(CT) 0.02 13 n/a	n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	, ,	Weight: 89 lb FT = 20%F, 119	%E
				3	

LUMBER-

TOP CHORD 2x4 SP No.1(flat) 2x4 SP No.1(flat)

BOT CHORD WEBS 2x4 SP No.3(flat) **BRACING-**

TOP CHORD

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

except end verticals.

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

REACTIONS. (size) 22=0-3-8, 16=0-3-8, 13=Mechanical

Max Grav 22=628(LC 10), 16=1033(LC 9), 13=284(LC 4)

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

TOP CHORD 2-3=-1204/0, 3-4=-1732/0, 4-5=-1732/0, 5-6=-1732/0, 6-8=-1092/0, 8-9=0/336, 9-10=0/336, 10-11=-309/29

 $21-22=0/771,\ 20-21=0/1597,\ 19-20=0/1732,\ 17-19=0/1529,\ 16-17=0/624,\ 15-16=-29/309,\ 10-17=0/624,\ 10-16=-29/309,\ 10-17=0/624,\ 10-16=-29/309,\ 10-17=0/624,\ 10-16=-29/309,\ 10-17=0/624,\ 10-16=-29/309,\ 10-17=0/624,\ 10-16=-29/309,\ 10-17=0/624,\ 10-16=-29/309,\ 10-17=0/624,\ 10-16=-29/309,\ 10-17=0/624,\ 10-16=-29/309,\ 10-17=0/624,\ 10-16=-29/309,\ 10-17=0/624,\ 10-16=-29/309,\ 10-17=0/624,\ 10-16=-29/309,\ 10-17=0/624,\ 10-16=-29/309,\ 10-17=0/624,\ 10-16=-29/309,\ 10-17=0/624,\ 10-16=-29/309,\ 10-17=0/624,\ 10-16=-29/309,\ 10-17=0/624,\ 10-16=-29/309,\ 10-17=0/624,\ 10-16=-29/309,\ 10-16$

14-15=-29/309, 13-14=-29/309 2-22=-965/0, 2-21=0/562, 3-21=-512/0, 3-20=-39/343, 8-16=-1043/0, 8-17=0/628, WFBS

6-17=-593/0, 6-19=0/430, 10-16=-600/0, 11-13=-382/36

NOTES-

BOT CHORD

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.





Job Truss Truss Type Qty Ply Lot 4 Magnolia Hills 164022674 **FLOOR** J0724-4082 F1A Job Reference (optional)

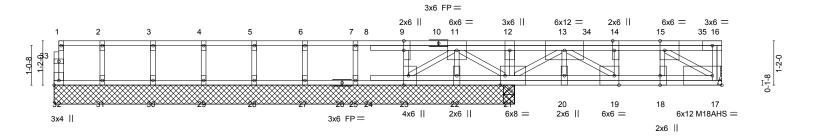
Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:25:28 2024 Page 1 $ID: OHpugN1S_QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$

0-1-8



Scale = 1:30.3



_				2-0-0					-1-8		17-7-0	
			2-0-0				0-	·1 <u>'</u> -8		5-5-8	<u>'</u>	
Plate Of	ffsets (X,Y)	[9:0-3-0,0-0-0], [14:0-3-0,	.Edael. [15:0-	1-8.Edae1. [18	3:0-3-0.0-0-	01. [19:0-1-8.Edae].	[21:0-1-	8.Edae	1. [23:0-3	3-0.Edge1. [3:	2:Edae.0-1-81	
	, ,	1	, .J., .	J - J - I - I		J. 1		-, - <u>J</u>	1/ 1	, J., L	1	
LOADIN	NG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.66	Vert(LL)	-0.02	19	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.04	19	>999	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.01	17	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matri	<-S	` '					Weight: 110 lb	FT = 20%F, 11%E

LUMBER-**BRACING-**TOP CHORD 2x4 SP No.1(flat) TOP CHORD

BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) **WEBS**

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 22-23,21-22.

REACTIONS. All bearings 12-1-8 except (jt=length) 17=Mechanical.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 22=-285(LC 4), 23=-288(LC 4)

Max Grav All reactions 250 lb or less at joint(s) 32, 23, 25, 27, 28, 29, 30, 31 except 21=2853(LC 1), 21=2853(LC 1), 17=2959(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 16-17=-1087/0, 11-12=0/1449, 12-13=0/1449, 13-14=-2936/0, 14-15=-2936/0

BOT CHORD $22 - 23 = -604/0,\ 21 - 22 = -604/0,\ 20 - 21 = 0/1593,\ 19 - 20 = 0/1593,\ 18 - 19 = 0/2936,\ 17 - 18 = 0/2936$ WFBS

11-21=-1010/0, 13-21=-3427/0, 13-19=0/1618, 14-19=-860/0, 15-17=-3482/0,

15-18=-276/245, 11-23=0/736, 12-21=-275/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 1.5x3 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 285 lb uplift at joint 22 and 288 lb uplift
- 7) 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 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this
- 8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 9) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

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

Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100



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

except end verticals.

March 5.2024

Continued on page 2

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL-74/3 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see _ANSI/TP1 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)



.loh Truss Truss Type Qty Lot 4 Magnolia Hills 164022674 J0724-4082 F1A **FLOOR** Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:25:28 2024 Page 2 ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-140, 16-35=-20

Concentrated Loads (lb)

Vert: 15=-390 34=-390 35=-341

4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-20, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-140, 16-35=-20

Concentrated Loads (lb)

Vert: 15=-390 34=-390 35=-341

6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-20, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

9) 3rd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

10) 4th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

11) 5th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

12) 6th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

13) 7th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

14) 8th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

15) 9th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

16) 10th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

17) 11th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Continued on page 3



 Job
 Truss
 Truss Type
 Qty
 Ply
 Lot 4 Magnolia Hills

 J0724-4082
 F1A
 FLOOR
 1
 1
 1
 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:25:28 2024 Page 3 ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

 12th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

 13th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

20) 14th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

 15th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-15=-220, 15-35=-140, 16-35=-20

Concentrated Loads (lb)

Vert: 15=-390 34=-1299 35=-341

22) 16th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-14=-140, 14-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-390 35=-1250

23) 17th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

24) 18th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

25) 19th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

26) 20th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

27) 21st chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

28) 22nd chase Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

29) 23rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

30) 24th chase Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

31) 25th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

32) 26th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Continued on page 4



Job Truss Truss Type Qty Lot 4 Magnolia Hills 164022674 F1A FLOOR J0724-4082 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:25:28 2024 Page 4

Comtech, Inc, Fayetteville, NC - 28314,

ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

33) 27th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

34) 28th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

35) 29th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100 Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

36) 30th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-1299 35=-1250

37) 31st chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-15=-220, 15-35=-140, 16-35=-20

Concentrated Loads (lb)

Vert: 15=-390 34=-1299 35=-341

38) 32nd chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 17-32=-10, 1-12=-100, 12-14=-140, 14-35=-220, 16-35=-100

Concentrated Loads (lb)

Vert: 15=-1299 34=-390 35=-1250



Job	Truss	Truss Type	Qty	Ply	Lot 4 Magnolia Hills
J0724-4082	F2	FLOOR	3	1	164022675
00724-4002	12	I LOOK		'	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

1-3-0

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:25:29 2024 Page 1 ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-0-0 1-0-0 1-9-8

Scale = 1:28.4

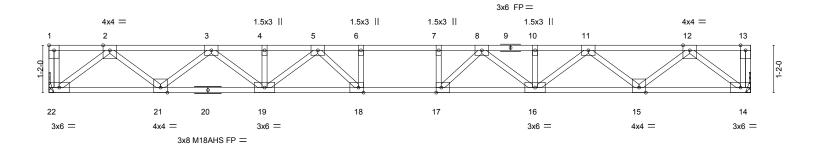


Plate Offsets (X,Y)--[1:Edge,0-1-8], [17:0-1-8,Edge], [18:0-1-8,Edge] SPACING-**PLATES** GRIP LOADING (psf) DEFL. (loc) L/d 0.47 -0.25 17-18 244/190 TCLL 40.0 Plate Grip DOL 1.00 TC Vert(LL) >821 480 MT20 TCDL 10.0 Lumber DOL 1.00 ВС 0.75 Vert(CT) -0.34 17-18 >597 360 M18AHS 186/179 BCLL 0.0 Rep Stress Incr YES WB 0.49 Horz(CT) 0.06 n/a n/a 14 Code IRC2015/TPI2014 FT = 20%F. 11%E **BCDL** 5.0 Weight: 89 lb Matrix-S

BRACING-LUMBER-

TOP CHORD 2x4 SP No.1(flat) Structural wood sheathing directly applied or 6-0-0 oc purlins, TOP CHORD

BOT CHORD 2x4 SP No.1(flat) except end verticals.

WEBS 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 22=Mechanical, 14=Mechanical Max Grav 22=937(LC 1), 14=937(LC 1)

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

TOP CHORD 2-3=-1961/0, 3-4=-3242/0, 4-5=-3242/0, 5-6=-3793/0, 6-7=-3793/0, 7-8=-3793/0,

8-10=-3242/0, 10-11=-3242/0, 11-12=-1961/0 BOT CHORD 21-22=0/1169, 19-21=0/2719, 18-19=0/3607, 17-18=0/3793, 16-17=0/3607, 15-16=0/2719,

14-15=0/1169

WFBS 2-22=-1467/0, 2-21=0/1031, 3-21=-986/0, 3-19=0/668, 12-14=-1467/0, 12-15=0/1031,

11-15=-986/0, 11-16=0/668, 5-19=-466/0, 8-16=-466/0, 8-17=-99/572, 7-17=-301/10,

5-18=-99/572, 6-18=-301/10

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated. 3) All plates are 3x4 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



March 5,2024



Job Truss Truss Type Qty Ply Lot 4 Magnolia Hills 164022676 J0724-4082 F3 **FLOOR** 6 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:25:30 2024 Page 1

1-4-4

Comtech, Inc, Fayetteville, NC - 28314,

1-3-0

23

3x6 =

ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

 \mathbb{X}

3x6 =

15

1.5x3 ||

1-0-0 1-5-4

Scale = 1:28.4

13

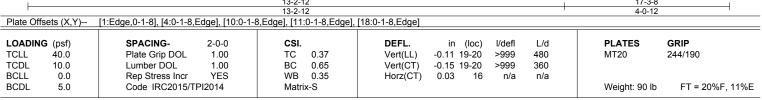
3x6 =

1.5x3 ||

3x6 FP= 1.5x3 || 2 5 6 7 3 8 9 10 11 12

17

18



BRACING-LUMBER-

TOP CHORD 2x4 SP No.1(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD 2x4 SP No.1(flat) except end verticals. **WEBS** 2x4 SP No.3(flat) **BOT CHORD**

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

REACTIONS. (size) 23=Mechanical, 13=Mechanical, 16=0-3-8

22

21

3x6 FP =

20

19

1.5x3 ||

Max Uplift 13=-63(LC 3)

Max Grav 23=686(LC 10), 13=180(LC 4), 16=1100(LC 1)

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

2-3=-1338/0, 3-4=-1948/0, 4-5=-1992/0, 5-6=-1992/0, 6-8=-1059/0, 8-9=0/507, TOP CHORD

9-10=0/507

 $22-23=0/829,\ 20-22=0/1819,\ 19-20=0/1992,\ 18-19=0/1992,\ 17-18=0/1617,\ 16-17=0/498$ **BOT CHORD** WFBS

2-23=-1041/0, 2-22=0/662, 3-22=-626/0, 8-16=-1167/0, 8-17=0/740, 6-17=-739/0,

6-18=0/605, 10-16=-560/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 13.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.



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)



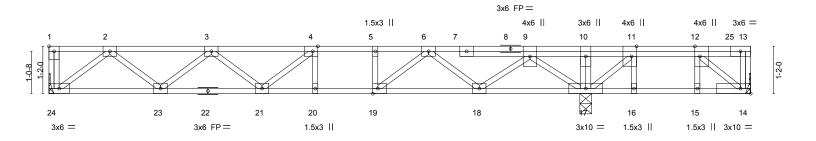
Job Truss Truss Type Qty Ply Lot 4 Magnolia Hills 164022677 J0724-4082 F4 **FLOOR** Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:25:32 2024 Page 1 ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

1-0-0 1-3-0 1-4-4 1-5-4 1-0-0

Scale = 1:28.4



				13-2-1						17-3-8		
			4-0-12									
Plate Of	Plate Offsets (X,Y) [1:Edge,0-1-8], [4:0-1-8,Edge], [11:0-3-0,Edge], [19:0-1-8,Edge]											
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	-0.10 20-21	>999	480	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.13 20-21	>999	360			
BCLL	0.0	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.03 14	n/a	n/a			
BCDL	5.0	Code IRC2015/TF	PI2014	Matrix	(-S					Weight: 99 lb	FT = 20%F, 11%E	

LUMBER-BRACING-

2x4 SP 2400F 2.0E(flat) TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD 2x4 SP No.1(flat) except end verticals. **WEBS** 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 24=Mechanical, 14=Mechanical, 17=0-3-8 Max Grav 24=700(LC 10), 14=2508(LC 4), 17=1748(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 13-14=-1282/0, 2-3=-1374/0, 3-4=-2016/0, 4-5=-2093/0, 5-6=-2093/0, 6-9=-1230/0,

9-10=-296/671, 10-11=-295/671, 11-12=-1522/0 BOT CHORD 23-24=0/848, 21-23=0/1871, 20-21=0/2093, 19-20=0/2093, 18-19=0/1719, 17-18=0/695,

16-17=0/1522, 15-16=0/1522, 14-15=0/1522 WFBS

2-24=-1064/0, 2-23=0/684, 3-23=-647/0, 3-21=0/282, 9-17=-1207/0, 9-18=0/736, 6-18=-707/0, 6-19=0/558, 4-21=-284/37, 12-14=-1972/0, 11-17=-1955/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-10=-100, 10-25=-220, 13-25=-100, 14-24=-10

Concentrated Loads (lb)

Vert: 12=-1250 25=-1250

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

Uniform Loads (plf)

Vert: 1-10=-100, 10-25=-220, 13-25=-100, 14-24=-10

Concentrated Loads (lb)

Vert: 12=-1250 25=-1250

3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00



March 5,2024

Continued on page 2

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 bucking 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)



.loh Truss Truss Type Qty Lot 4 Magnolia Hills 164022677 F4 J0724-4082 **FLOOR**

Comtech, Inc, Fayetteville, NC - 28314,

Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 4 15:25:32 2024 Page 2 ID:0HpugN1S QSTWxS0z0zGz9z5iCa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-10=-100, 10-25=-140, 13-25=-20, 14-24=-10

Concentrated Loads (lb)

Vert: 12=-341 25=-341

4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-10=-20, 10-25=-220, 13-25=-100, 14-24=-10

Concentrated Loads (lb)

Vert: 12=-1250 25=-1250

5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-10=-100, 10-25=-140, 13-25=-20, 14-24=-10

Concentrated Loads (lb)

Vert: 12=-341 25=-341

6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-10=-20, 10-25=-220, 13-25=-100, 14-24=-10

Concentrated Loads (lb)

Vert: 12=-1250 25=-1250

7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 1-5=-100, 5-10=-20, 10-25=-220, 13-25=-100, 14-24=-10

Concentrated Loads (lb)

Vert: 12=-1250 25=-1250

8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 1-4=-20, 4-10=-100, 10-25=-220, 13-25=-100, 14-24=-10

Concentrated Loads (lb)

Vert: 12=-1250 25=-1250

9) 3rd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 1-10=-100, 10-12=-220, 12-25=-140, 13-25=-20, 14-24=-10

Concentrated Loads (lb)

Vert: 12=-1250 25=-341

10) 4th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-10=-100, 10-11=-140, 11-25=-220, 13-25=-100, 14-24=-10

Concentrated Loads (lb)

Vert: 12=-1250 25=-1250

11) 5th chase Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-5=-100, 5-10=-20, 10-25=-220, 13-25=-100, 14-24=-10

Concentrated Loads (lb)

Vert: 12=-1250 25=-1250

12) 6th chase Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-4=-20, 4-10=-100, 10-25=-220, 13-25=-100, 14-24=-10

Concentrated Loads (lb)

Vert: 12=-1250 25=-1250

13) 7th chase Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-10=-100, 10-12=-220, 12-25=-140, 13-25=-20, 14-24=-10

Concentrated Loads (lb)

Vert: 12=-1250 25=-341

14) 8th chase Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

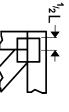
Vert: 1-10=-100, 10-11=-140, 11-25=-220, 13-25=-100, 14-24=-10

Concentrated Loads (lb)

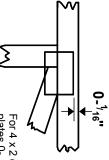
Vert: 12=-1250 25=-1250

Symbols

PLATE LOCATION AND ORIENTATION



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



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

connector plates required direction of slots in This symbol indicates the

* Plate location details available in MiTek software or upon request

PLATE SIZE

4 × 4

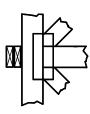
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



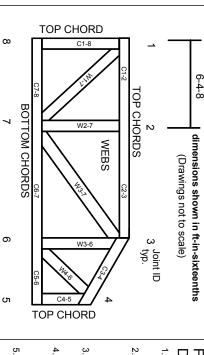
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Installing, Restraining & Bracing of Metal Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing. Plate Connected Wood Trusses Plate Connected Wood Truss Construction.

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

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

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

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ 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
- 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
- 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.

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- 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 camber for dead load deflection responsibility of truss fabricator. General practice is to
- 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
- 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.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated