

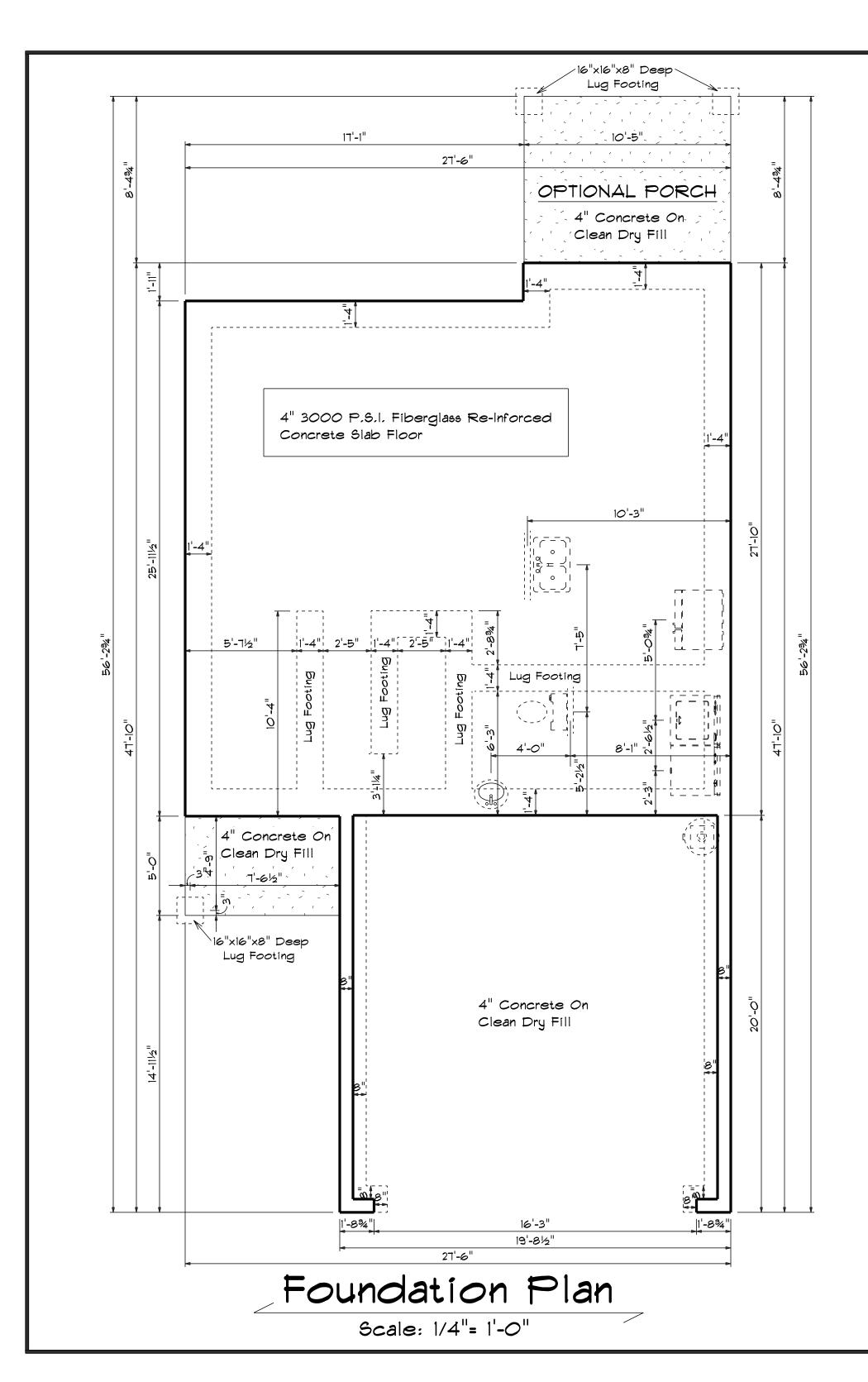


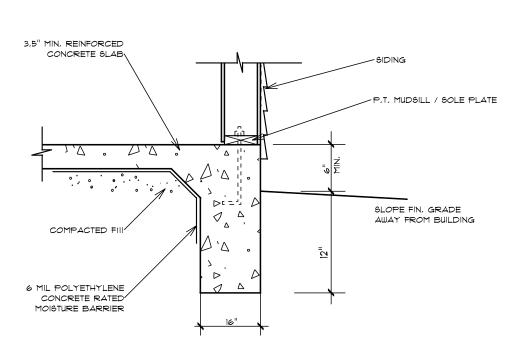
STEM	WALL	FOOTING	DETAIL	

FIRST FLOOR OPENING SCHEDULE										
SIZE	HINGE	REVERSED	COUNT							
2'-0"	R	NO	1							
2'-4"	R	NO	2							
2'-8"	L	NO	1							
2'-8"	R	NO	1							
2'-8" x 5'-2"	N	NA	4							
2'-8"	R	NO	1							
3'-0"	R	NO	1							
16'-0"	U	NO	1							
	SIZE 2'-0" 2'-4" 2'-8" 2'-8" 2'-8" x 5'-2" 2'-8" 3'-0"	SIZE HINGE 2'-0" R 2'-4" R 2'-8" L 2'-8" R 2'-8" x 5'-2" N 2'-8" R 3'-0" R	SIZE HINGE REVERSED 2'-0" R NO 2'-4" R NO 2'-8" L NO 2'-8" R NO 2'-8" x 5'-2" N NA 2'-8" R NO 3'-0" R NO							

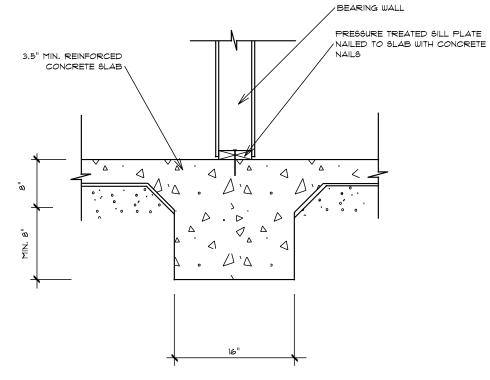
SECOND FLOOR OPENING SCHEDULE										
SIZE	HINGE	REVERSED	COUNT							
1'-6"	L	NO	1							
2'-4"	L	NO	1							
2'-4"	R	NO	3							
2'-6"	R	NO	2							
2'-8"	L	NO	1							
4'-0"	LR	NO	2							
2'-0" x 3'-2"	N	NA	2							
2'-8" x 5'-2"	N	NA	3							
5'-4" x 5'-2"	NN	NA	2							
	\$IZE 1'-6" 2'-4" 2'-6" 2'-8" 4'-0" 2'-8" x 5'-2"	SIZE HINGE 1'-6" L 2'-4" L 2'-6" R 2'-6" L 4'-0" LR 2'-0" x 3'-2" N 2'-8" x 5'-2" N	SIZE HINGE REVERSED 1'-6" L NO 2'-4" L NO 2'-6" R NO 2'-8" L NO 4'-0" LR NO 2'-0" x 3'-2" N NA 2'-8" x 5'-2" N NA							

19 mg # 14









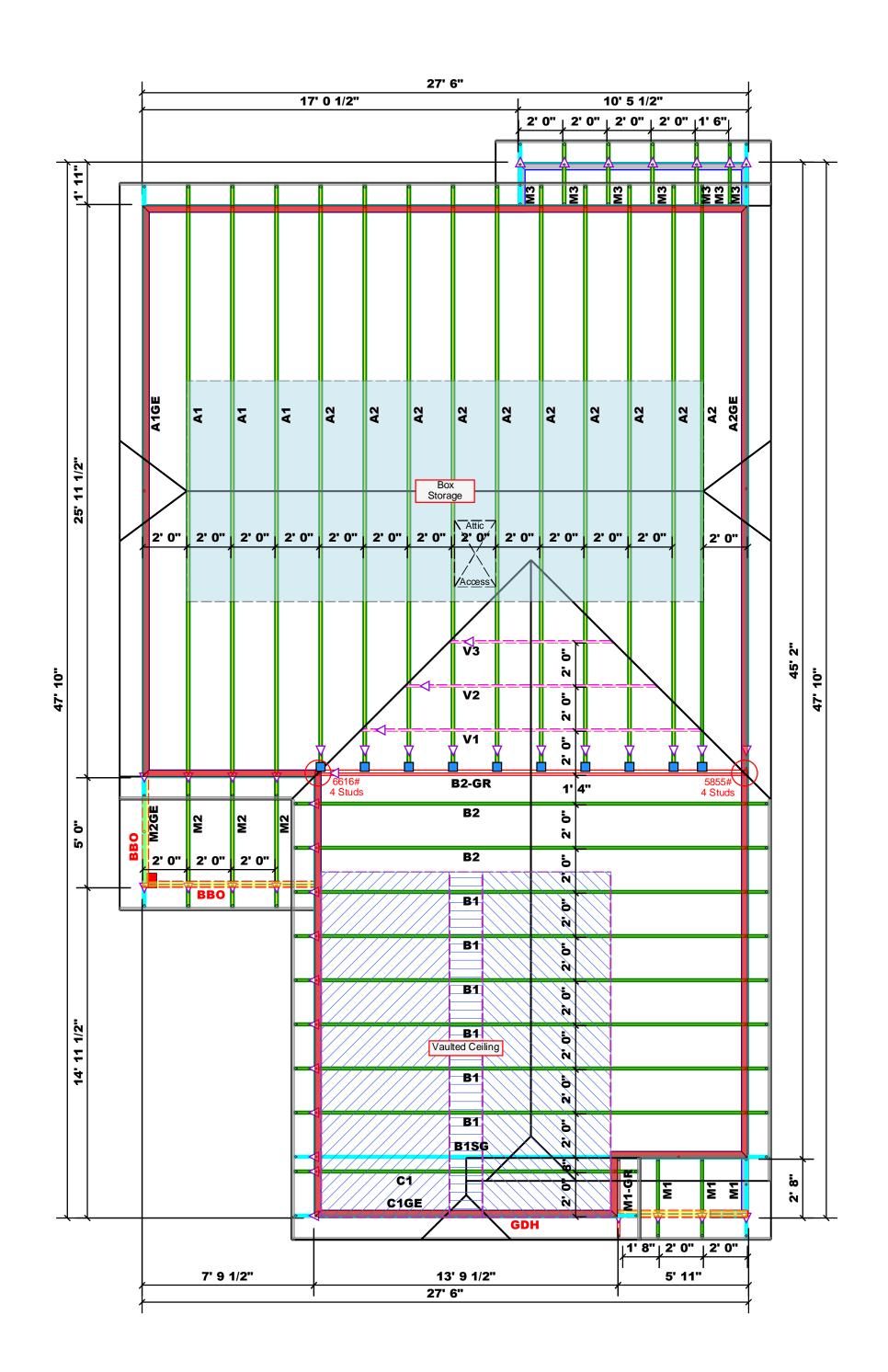
INTEGRAL SLAB FOOTING DETAIL AT BEARING WALL

FIRST FLOOR OPENING SCHEDULE									
PRODUCT CODE	SIZE	HINGE	REVERSED	COUNT					
2-0 Door Unit	2'-0"	R	NO	1					
2-4 Door Unit	2'-4"	R	NO	2					
2-8 Door Unit	2'-8"	L	NO	1					
2-8 Door Unit	2'-8"	R	NO	1					
28x52 single	2'-8" x 5'-2"	N	NA	4					
32X80 FRENCH A 1	2'-8"	R	NO	1					
36X80 COLONIAL A 1	3'-0"	R	NO	1					
192X84 - 8 PANEL GARAGE DR	16'-0"	U	NO	1					

SECOND FLOOR OPENING SCHEDULE									
PRODUCT CODE	SIZE	HINGE	REVERSED	COUNT					
1-6 Door Unit	1'-6"	L	NO	1					
2-4 Door Unit	2'-4"	L	NO	1					
2-4 Door Unit	2'-4"	R	NO	3					
2-6 Door Unit	2'-6"	R	NO	2					
2-8 Door Unit	2'-8"	L	NO	1					
4-0 Doublehung Door Unit	4'-0"	LR	NO	2					
20x32 single	2'-0" x 3'-2"	N	NA	2					
28x52 single	2'-8" x 5'-2"	N	NA	3					
28x52 twin	5'-4" x 5'-2"	NN	NA	2					

19 man # 14

SCALE: 1/4"
DRAWN BY
APPROVED



All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise. -- Denotes Reaction Greater than 3,000 lbs. Reaction / # of Studs

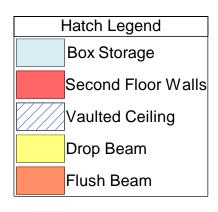
> All Headers Are Considered 2X10 Beams Unless Otherwise Noted

All Walls Shown Are Considered Load Bearing

Roof Area = 1645.35 sq.ft. Ridge Line = 51.18 ft. Hip Line = 29.16 ft. Horiz. OH = 156.42 ft.Raked OH = 105.22 ft. Decking = 57 sheets

Dimension Notes 1. All exterior wall to wall dimensions are to 2. All interior wall dimensions are to face of stud unless noted otherwise

3. All exterior wall to truss dimensions are to face of stud unless noted otherwise



Sym Product Manuf Qty Supported Member Header Truss HUS26 USP 10 NA 16d/3-1/2" 16d/3-1/2		Conne	Nail Info	rmation			
HUS26 USP 10 NA 16d/3-1/2" 16d/3-1/2	Sym	Product	Manuf	Qty	Supported Member	Header	Truss
		HUS26	USP	10	NA	16d/3-1/2"	16d/3-1/2"

		Products		
PlotID	Length	Product	Plies	Net Qty
BM1	11' 0"	1-3/4"x 16" LVL Kerto-S	2	2
BM2	11' 0"	1-3/4"x 16" LVL Kerto-S	2	2
GDH	20' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2

Truss Placement Plan
Scale: 1/4"=1'

▲= Denotes Left End of Truss (Reference Engineered Truss Drawing)

соттесн **ROOF & FLOOR TRUSSES & BEAMS**

Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

ned to comply with the prescriptive Code irements. The contractor shall refer to the hed Tables (derived from the prescriptive Co irements) to determine the minimum foundation and number of wood studs required to support d number of wood studs required to suppor ns greater than 3000# but not greater than A registered design professional shall be d to design the support system for any in that exceeds those specified in the attach

Jonathan Landry

Jonathan Landry

	MODEL Roof DATE REV. 04/16/24	MODEL Roof DATE REV. 04/16/24	Plan 14 / 2GRF N/A	PLAN Plan SEAL DATE N/A
	Roof	MODEL	Plan 14 / 26RF	PLAN
9	341 Caldwell Street	ADDRESS	JOB NAME Lot 6 Overhills Creek	JOB NAME
15300	CITY / CO. Johnston Co. / Johnston	CITY / CO.	Wellco Contractors	BUILDER

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.
These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com



Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0424-2210

Lot 6 Overhills Creek

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

Pages or sheets covered by this seal: I64946155 thru I64946172

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

North Carolina COA: C-0844



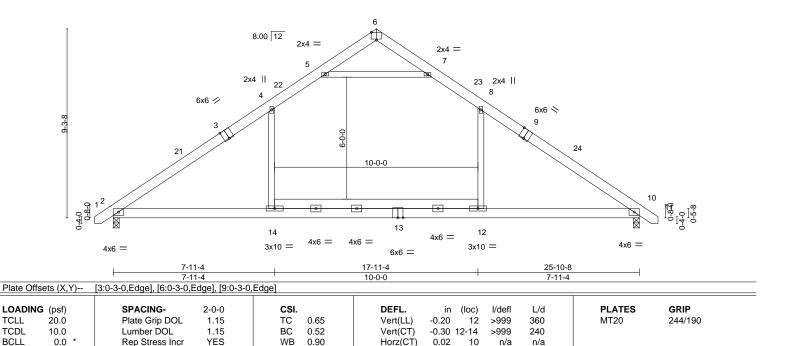
April 17,2024

Gilbert, Eric

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

Job Truss Truss Type Qty Ply Lot 6 Overhills Creek 164946155 J0424-2210 Α1 COMMON 3 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:21 2024 Page 1 ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 17-11-4 25-10-8 7-11-4 5-0-0 5-0-0 7-11-4

4x6 =



Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.02

0.24 14-17

10

n/a

Rigid ceiling directly applied.

>999

n/a

240

Structural wood sheathing directly applied.

LUMBER-

BCLL

BCDL

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

10.0

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=-291(LC 10) Max Uplift 2=-193(LC 12), 10=-193(LC 13) Max Grav 2=1257(LC 19), 10=1257(LC 20)

Code IRC2015/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. $2-4=-1733/486,\ 4-5=-1244/543,\ 5-6=-96/423,\ 6-7=-96/424,\ 7-8=-1244/543,$ TOP CHORD

8-10=-1735/486

BOT CHORD 2-14=-192/1344, 12-14=-195/1345, 10-12=-192/1344

WEBS 8-12=0/562, 4-14=0/559, 5-7=-1842/742

NOTES-

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

2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 12-11-4, Exterior(2) 12-11-4 to 17-4-1, Interior(1) 17-4-1 to 26-7-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-AS

- 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 193 lb uplift at joint 2 and 193 lb uplift at
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Scale = 1:56.7

FT = 25%

Weight: 185 lb

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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/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





Fayetteville, NC - 28314,

ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f 25-10-8 11-5-4 3-0-0 11-5-4

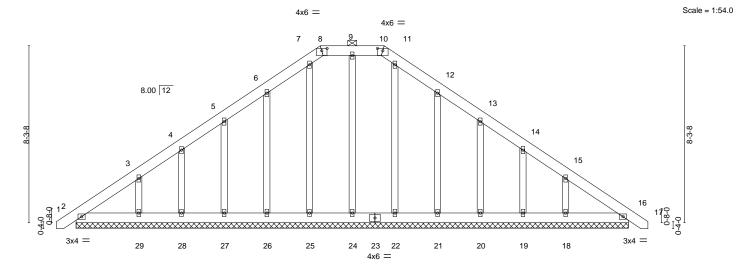


Plate Offsets (X,Y)--[8:0-3-0,0-1-5], [10:0-3-0,0-1-5] **GRIP** LOADING (psf) SPACING-CSI DEFL. in (loc) I/defl L/d **PLATES** TCLL 20.0 Plate Grip DOL 1.15 TC 0.05 Vert(LL) 0.00 16 120 244/190 n/r MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.03 Vert(CT) 0.00 16 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.13 Horz(CT) 0.01 16 n/a n/a

25-10-8

LUMBER-BRACING-

TOP CHORD 2x6 SP No.1 Structural wood sheathing directly applied or 6-0-0 oc purlins, except TOP CHORD

2x6 SP No.1 **BOT CHORD** 2-0-0 oc purlins (6-0-0 max.): 8-10.

OTHERS 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 25-10-8 (lb) -Max Horz 2=-326(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 24, 25, 22, 16 except 26=-140(LC 12), 27=-138(LC 12),

28=-114(LC 12), 29=-205(LC 12), 21=-141(LC 13), 20=-139(LC 13), 19=-114(LC 13), 18=-201(LC 13)

Matrix-S

Max Grav All reactions 250 lb or less at joint(s) 2, 24, 25, 26, 27, 28, 22, 21, 20, 19, 16 except 29=280(LC

19), 18=276(LC 20)

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

Code IRC2015/TPI2014

TOP CHORD 2-3=-282/260, 6-7=-255/295, 7-8=-251/298, 8-9=-249/298, 9-10=-249/298,

10-11=-251/298, 11-12=-255/295

3-29=-264/223, 15-18=-264/220 **WEBS**

NOTES-

BCDL

10.0

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 24, 25, 22, 16 except (jt=lb) 26=140, 27=138, 28=114, 29=205, 21=141, 20=139, 19=114, 18=201.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Weight: 214 lb

FT = 25%

April 17,2024

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Job Truss Truss Type Qty Lot 6 Overhills Creek 164946157 J0424-2210 A2 COMMON 10 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:22 2024 Page 1 ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 17-7-12 5-0-0 5-0-0 7-11-4 4x6 = Scale = 1:54.9 1 2x4 = 2x4 = 5 3 8.00 12 2x4 || 2x4 || 21 20 6 6x6 < 0-0-9 19 22 10-0-0 0-10-5 0 0 0 11 12 10 4x6 = 4x6 = 4x6 = 4x6 = 3x10 = 4x6 = 4x6 =6x6 =17-7-12 7-7-12 10-0-0 7-11-4 Plate Offsets (X,Y)--[1:0-0-0,0-0-2], [4:0-3-0,Edge], [7:0-3-0,Edge] L/d LOADING (psf) SPACING-CSI. DEFL. in (loc) I/def **PLATES** GRIP

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.21

-0.31

0.02

0.24 10-18

10 >999

10 >977

n/a

Rigid ceiling directly applied.

>999

360

240

n/a

240

Structural wood sheathing directly applied.

LUMBER-

TCLL

TCDL

BCLL

BCDL

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

20.0

10.0

10.0

0.0

WEDGE Left: 2x4 SP No.3

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

Max Horz 1=-286(LC 8)

Max Uplift 1=-172(LC 12), 8=-191(LC 13) Max Grav 1=1201(LC 19), 8=1244(LC 20)

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

1.15

1.15

YES

TC

BC

WB

Matrix-AS

0.62

0.47

0.87

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

TOP CHORD 1-2=-1701/480, 2-3=-1219/541, 3-4=-89/395, 4-5=-95/403, 5-6=-1213/534,

6-8=-1692/474

BOT CHORD 1-12=-188/1309, 10-12=-192/1310, 8-10=-188/1309

WEBS 6-10=-1/543, 2-12=-0/546, 3-5=-1781/737

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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 12-7-12, Exterior(2) 12-7-12 to 17-0-9, Interior(1) 17-0-9 to 26-4-1 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, with BCDL = 10.0psf.
- 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) except (jt=lb)
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



244/190

FT = 25%

MT20

Weight: 182 lb

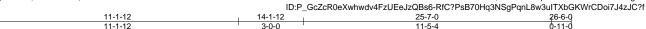
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Comtech, Inc, Fayetteville, NC - 28314,



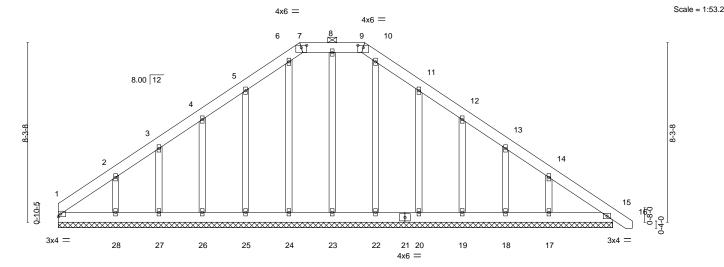


Plate Offsets (X,Y)--[7:0-3-0,0-1-5], [9:0-3-0,0-1-5] **GRIP** LOADING (psf) SPACING-CSI DEFL. in (loc) I/defl L/d **PLATES** TCLL 20.0 Plate Grip DOL 1.15 TC 0.05 Vert(LL) 0.00 15 120 244/190 n/r MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.03 Vert(CT) 0.00 15 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.13 Horz(CT) 0.01 15 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Weight: 210 lb FT = 25%Matrix-S

LUMBER-BRACING-

TOP CHORD 2x6 SP No.1 Structural wood sheathing directly applied or 6-0-0 oc purlins, except TOP CHORD

BOT CHORD 2x6 SP No.1 2-0-0 oc purlins (6-0-0 max.): 7-9. **OTHERS** 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 25-7-0. (lb) -Max Horz 1=-322(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 23, 24, 22, 15 except 1=-102(LC 8), 25=-140(LC 12), 26=-137(LC

12), 27=-116(LC 12), 28=-221(LC 12), 20=-141(LC 13), 19=-139(LC 13), 18=-114(LC 13), 17=-201(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 23, 24, 25, 26, 27, 22, 20, 19, 18, 15 except 28=279(LC

19), 17=276(LC 20)

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

TOP CHORD 1-2=-295/270, 5-6=-256/295, 6-7=-252/298, 7-8=-249/298, 8-9=-249/298,

9-10=-252/298, 10-11=-256/295 2-28=-256/239, 14-17=-264/220 **WEBS**

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 24, 22, 15 except (it=lb) 1=102, 25=140, 26=137, 27=116, 28=221, 20=141, 19=139, 18=114, 17=201,
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 17,2024

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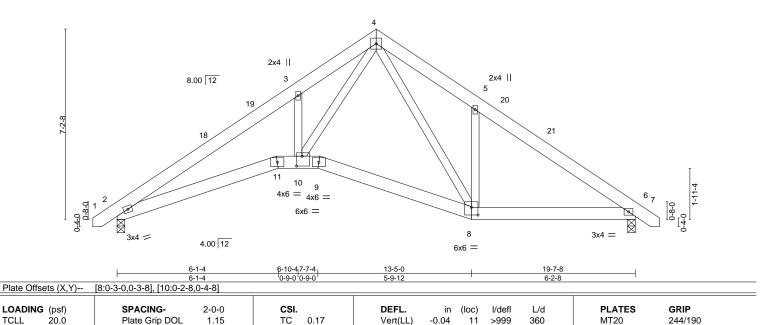
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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



Job Truss Truss Type Qty Lot 6 Overhills Creek 164946159 J0424-2210 **B1 ROOF SPECIAL** 6 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:24 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 6-10-4 6-10-4 9-9-12 2-11-8 13-5-0 3-7-4 6-2-8

> 5x5 = Scale = 1:43.6



Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.09 11-14

0.05 11-14

6

0.06

>999

>999

n/a

Rigid ceiling directly applied.

240

n/a

240

Structural wood sheathing directly applied.

Weight: 137 lb

FT = 25%

LUMBER-

TCLL

TCDL

BCLL

BCDL

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

WEBS 2x4 SP No.2

10.0

10.0

0.0

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=-225(LC 10)

Max Uplift 2=-150(LC 12), 6=-150(LC 13) Max Grav 2=830(LC 1), 6=830(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

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

2-3=-1818/525, 3-4=-1988/720, 4-5=-1325/591, 5-6=-1148/403 TOP CHORD

BOT CHORD 2-11=-284/1549, 10-11=-255/1464, 9-10=-35/734, 8-9=-51/791, 6-8=-184/851

WFBS 3-10=-434/348, 4-10=-430/1438, 4-8=-290/456, 5-8=-455/332

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 9-9-12, Exterior(2) 9-9-12 to 14-2-9, Interior(1) 14-2-9 to 20-4-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

BC

WB

Matrix-AS

0.31

0.30

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

1.15

YES

- 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) 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 100 lb uplift at joint(s) except (jt=lb)
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.





Job Truss Truss Type Qty Lot 6 Overhills Creek 164946160 J0424-2210 B1SG **GABLE** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:24 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Scale = 1:43.3

6-10-4 6-10-4 13-5-0 2-7-4

6x8 = 6x8 =8.00 12 6 13 12 4x6 =4x6 =0<u>-4-</u>0 0-8-0 6x6 =3x4 = 4x4 =4.00 12 11 9 10

		6-1-4	6-10-4 ₁ 7-7-4 ₁ 8-9-12 ₁	10-9-12 13-5-	0	19-7-8	1
		6-1-4	'0-9-0'0-9-0' 1-2-8 [']	2-0-0 2-7-4	1 '	6-2-8	I
Plate Offse	ts (X,Y)	[11:0-3-0,0-3-8], [13:0-3-0,0-3-1	2]				
LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d PLATE	S GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.26	Vert(LL) -0	.04 14-25 >999	360 MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.19	Vert(CT) -0	.09 14-25 >999	240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.54	Horz(CT) 0	.05 11 n/a	n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0	.07 14-25 >999	240 Weight:	: 161 lb FT = 25%

6x6 =

LUMBER-BRACING-

2x6 SP No.1 Structural wood sheathing directly applied, except TOP CHORD TOP CHORD

BOT CHORD 2x6 SP No.1 2-0-0 oc purlins (6-0-0 max.): 4-5. 2x4 SP No.2 *Except* **BOT CHORD** Rigid ceiling directly applied. **WEBS**

11-18: 2x6 SP No.1 **OTHERS** 2x4 SP No.2

REACTIONS. All bearings 6-2-8 except (jt=length) 2=0-3-8.

Max Horz 2=256(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 7, 10 except 2=-224(LC 12), 11=-245(LC 12), 9=-200(LC 13) Max Grav All reactions 250 lb or less at joint(s) 7, 10, 7 except 2=544(LC 1), 11=872(LC 1), 11=872(LC 1),

9=279(LC 20)

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

TOP CHORD 2-3=-839/313, 3-4=-1118/622, 4-5=-309/249, 5-6=-80/286 2-14=-304/857, 13-14=-277/804, 12-13=-110/288, 11-12=-131/312 **BOT CHORD** WEBS 3-13=-711/532, 5-11=-730/230, 6-11=-327/394, 4-13=-607/1254

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 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) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 10, 7 except (jt=lb) 2=224, 11=245, 9=200.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) 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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Job Truss Truss Type Qty Lot 6 Overhills Creek 164946161 J0424-2210 COMMON B2 2 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:25 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 20-6-8 0-11-0 0-11-0 19-7-8 9-9-12 9-9-12 5x8 || Scale = 1:43.4 3 8.00 12 16 17 T 18 6 19 7 4x6 =2x4 || 4x6 = 4x6 = 19-7-8 LOADING (psf)

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

I/defI

>999

>999

>999

n/a

Rigid ceiling directly applied.

(loc)

7-13

7-13

7-13

-0.07

-0.12

0.01

0.07

L/d

360

240

n/a

240

Structural wood sheathing directly applied.

PLATES

Weight: 116 lb

MT20

GRIP

244/190

FT = 25%

BCDL 10.0 LUMBER-

TCLL

TCDL

BCLL

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

20.0

10.0

0.0

BOT CHORD WEBS 2x4 SP No.2

REACTIONS.

(size) 4=0-3-8, 2=0-3-8 Max Horz 2=225(LC 11)

Max Uplift 4=-150(LC 13), 2=-150(LC 12) Max Grav 4=970(LC 20), 2=970(LC 19)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

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

2-3=-1164/377, 3-4=-1163/377 TOP CHORD **BOT CHORD** 2-7=-82/939, 4-7=-82/939

WEBS 3-7=0/659

NOTES-

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

2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 9-9-12, Exterior(2) 9-9-12 to 14-2-9, Interior(1) 14-2-9 to 20-4-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

TC

ВС

WB

Matrix-AS

0.34

0.43

0.15

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

2-0-0

1.15

1.15

YES

- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Job Truss Truss Type Qty Ply Lot 6 Overhills Creek 164946162 J0424-2210 B2-GR Common Girder Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:25 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f 14-9-12 4-9-12 5-0-0 5-0-0 4-9-12 6x6 || Scale = 1:42.4 3 8.00 12 4x6 / 4x6 < 2 5 0-8-0 8 20 16 17 18 19 7 21 22 23 9 6 6x6 = 3x10 || 8x8 =3x10 || 6x8 =6x8 = 9-9-12 14-9-12 19-7-8 4-9-12 5-0-0 4-9-12 Plate Offsets (X,Y)--[1:0-0-0,0-0-7], [5:Edge,0-0-7], [8:0-4-0,0-4-12] LOADING (psf) SPACING-CSI DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.23 Vert(LL) -0.09 8-9 >999 360 244/190 MT20

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.17

0.05

0.07

8-9

8-9

5

>999

>999

n/a

240

n/a

240

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

Structural wood sheathing directly applied or 5-7-9 oc purlins.

LUMBER-

TCDL

BCLL

BCDL

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

10.0

10.0

0.0

2x4 SP No.2 **WEBS**

REACTIONS. (size) 1=0-3-8 (req. 0-3-14), 5=0-3-8

Max Horz 1=-209(LC 4)

Max Uplift 1=-1110(LC 8), 5=-989(LC 9) Max Grav 1=6616(LC 2), 5=5856(LC 2)

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-8234/1401, 2-3=-5747/1046, 3-4=-5752/1047, 4-5=-8431/1434 **BOT CHORD** 1-9=-1186/6790, 8-9=-1186/6790, 6-8=-1114/6979, 5-6=-1114/6979

WFBS 3-8=-1006/5974, 4-8=-2677/592, 4-6=-401/2790, 2-8=-2449/553, 2-9=-368/2599

1.15

NO

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc. Webs connected as follows: 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.

BC

WB

Matrix-MS

0.95

0.73

- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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) 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) WARNING: Required bearing size at joint(s) 1 greater than input bearing size.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1110, 5=989.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1116 lb down and 184 lb up at 0-0-0, 1109 lb down and 192 lb up at 2-3-4, 1109 lb down and 192 lb up at 4-3-4, 1109 lb down and 192 lb up at 6-3-4, 1109 lb down and 192 lb up at 8-3-4, 1109 lb down and 192 lb up at 10-3-4, 1109 lb down and 192 lb up at 12-3-4, 1109 lb down and 192 lb up at 14-3-4, and 1109 lb down and 192 lb up at 16-3-4, and 1109 lb down and 192 lb up at 17-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

April 17,2024

FT = 25%

Weight: 274 lb

Continued on page 2



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Truss Type Job Truss Qty Ply Lot 6 Overhills Creek 164946162 J0424-2210 B2-GR Common Girder 2 | Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:26 2024 Page 2

Comtech, Inc, Fayetteville, NC - 28314,

ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 1-3=-60, 3-5=-60, 10-13=-20

Concentrated Loads (lb)

Vert: 7=-1003(B) 10=-1010(B) 16=-1003(B) 17=-1003(B) 18=-1003(B) 19=-1003(B) 20=-1003(B) 21=-1003(B) 22=-1003(B) 23=-1003(B)



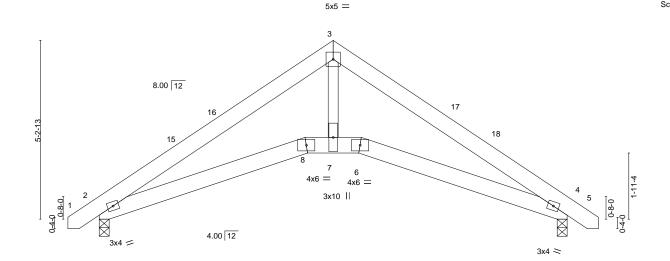
818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Lot 6 Overhills Creek 164946163 J0424-2210 C₁ **ROOF SPECIAL** Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:26 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 14-7-8 0-11-0 0-11-0 13-8-8

6-10-4

Structural wood sheathing directly applied.

Rigid ceiling directly applied.



	6-1-		1-6-0	6-1-4	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.15 BC 0.26 WB 0.17 Matrix-AS	Vert(CT) -0 Horz(CT) 0	in (loc) I/defl L/d 0.02 8-11 >999 360 0.05 8-11 >999 240 0.03 4 n/a n/a 0.03 8-11 >999 240	PLATES GRIP MT20 244/190 Weight: 82 lb FT = 25%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

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

BOT CHORD WEBS 2x4 SP No.2

REACTIONS.

2=0-3-8, 4=0-3-8 (size) Max Horz 2=-162(LC 10)

Max Uplift 2=-109(LC 12), 4=-109(LC 13) Max Grav 2=594(LC 1), 4=594(LC 1)

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

2-3=-1114/353, 3-4=-1113/336 TOP CHORD

BOT CHORD 2-8=-137/909, 7-8=-110/846, 6-7=-110/846, 4-6=-137/902

WEBS 3-7=-63/731

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 6-10-4, Exterior(2) 6-10-4 to 11-3-1, Interior(1) 11-3-1 to 14-5-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

6-10-4

- 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) 2, 4 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) except (jt=lb)
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Scale = 1:33.7

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

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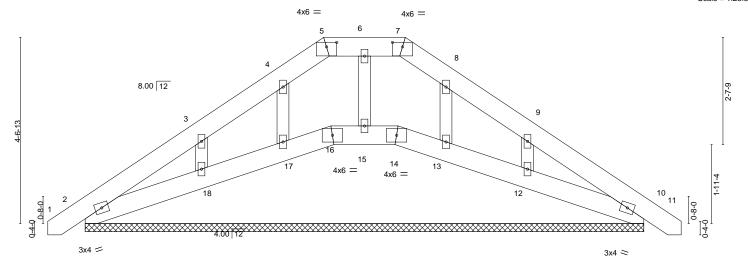
Job Truss Truss Type Qty Lot 6 Overhills Creek 164946164 J0424-2210 C1GE **GABLE**

Fayetteville, NC - 28314, Comtech, Inc.

Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:27 2024 Page 1

ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 14-7-8 -0-11-0 0-11-0 7-10-5 5-10-3 2-0-1 5-10-3 0-11-0

Scale = 1:28.3



			6-1-4 6-1-4		+	7-7-4 1-6-0				3-8-8 6-1-4		
Plate Offse	ets (X,Y)	[5:0-3-0,0-1-5], [7:0-3-0,0)-1-5]			_						
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	0.04	Vert(LL)	0.00	10	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	10	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matrix	k-S						Weight: 87 lb	FT = 25%

LUMBER-BRACING-

TOP CHORD 2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except

BOT CHORD 2x6 SP No.1 2-0-0 oc purlins (6-0-0 max.): 5-7.

OTHERS 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-8-8.

Max Horz 2=142(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 17, 13 except 18=-125(LC 12), 12=-124(LC 13) Max Grav All reactions 250 lb or less at joint(s) 2, 16, 14, 10, 15, 17, 13 except 18=266(LC 19), 12=265(LC

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

WEBS 3-18=-275/219, 9-12=-275/219

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) -0-9-1 to 3-7-12, Exterior(2) 3-7-12 to 5-11-1, Corner(3) 5-11-1 to 12-2-4, Exterior(2) 12-2-4 to 14-5-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 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) Bearing at joint(s) 16, 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 17, 13 except (jt=lb) 18=125, 12=124.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 16, 14, 15, 17, 18, 13, 12.
- 13) 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 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 6 Overhills Creek 164946165 J0424-2210 M1 MONOPITCH 3 Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:27 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 2-8-0 2-8-0 0-11-0 Scale = 1:11.8 3 5.00 12 2

LOADIN	\(\(\)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.02	Vert(LL)	-0.00	7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.03	Vert(CT)	-0.00	7	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-MP	Wind(LL)	0.00	7	>999	240	Weight: 16 lb	FT = 25%

LUMBER-

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

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 3=Mechanical, 2=0-3-8, 4=Mechanical (size)

Max Horz 2=57(LC 12)

Max Uplift 3=-38(LC 12), 2=-32(LC 8)

Max Grav 3=64(LC 1), 2=151(LC 1), 4=47(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
- 2) 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.





Job Truss Truss Type Qty Ply Lot 6 Overhills Creek 164946166 J0424-2210 M1-GR MONOPITCH Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:27 2024 Page 1

Structural wood sheathing directly applied or 2-8-0 oc purlins.

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

 $ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$ 2-8-0 0-11-0 2-8-0

Scale = 1:11.8

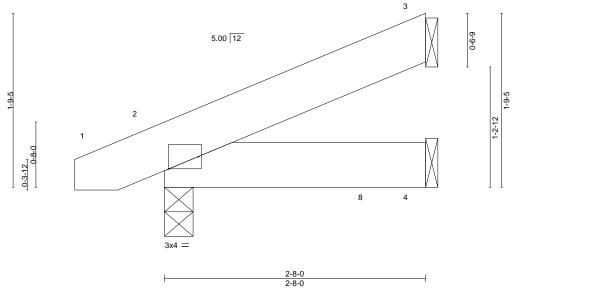


Plate Off	sets (X,Y)	[2:0-3-10,Edge]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.00	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.01	4-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matrix	k-MP	Wind(LL)	0.00	7	>999	240	Weight: 16 lb	FT = 25%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x6 SP No.1

BOT CHORD 2x6 SP No.1

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=57(LC 8)

Max Uplift 3=-38(LC 8), 2=-32(LC 4)

Max Grav 3=96(LC 2), 2=235(LC 2), 4=572(LC 14)

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

NOTES-

1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60

2) N/A

- 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) 3, 2.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 726 lb down at 2-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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



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.

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Job Truss Truss Type Qty Ply Lot 6 Overhills Creek 164946166 J0424-2210 M1-GR MONOPITCH Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:27 2024 Page 2

Comtech, Inc, Fayetteville, NC - 28314,

ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-3=-60, 4-5=-20
Concentrated Loads (lb) Vert: 8=-187(B)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Lot 6 Overhills Creek 164946167 J0424-2210 M2 MONOPITCH 3 Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:28 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 5-0-0 0-11-0 5-0-0 3x4 || 3 Scale = 1:16.3 5.00 12 2-8-6 0-3-12 0-5-8 3x4 3x4 = + LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc)

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.02

-0.01

-0.00

4-7

2

>999

>999

n/a

Rigid ceiling directly applied.

240

240

n/a

LUMBER-

TCLL

TCDL

BCLL

BCDL

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

WEBS 2x6 SP No.1

20.0

10.0

0.0

10.0

REACTIONS. (size) 2=0-3-0, 4=0-1-8 Max Horz 2=96(LC 12)

Max Uplift 2=-103(LC 8), 4=-103(LC 8)

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

Max Grav 2=236(LC 1), 4=188(LC 1)

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

NOTES-

1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-6 to 3-8-7, Interior(1) 3-8-7 to 4-9-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

TC

ВС

WB

Matrix-AS

0.14

0.14

0.00

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

1.15

1.15

YES

- 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) except (jt=lb) 2=103, 4=103
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



244/190

FT = 25%

MT20

Structural wood sheathing directly applied, except end verticals.

Weight: 30 lb

April 17,2024

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Job Truss Truss Type Qty Lot 6 Overhills Creek 164946168 J0424-2210 M2GE **GABLE** Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:28 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 5-0-0 0-11-0 5-0-0

			3x4	3	Scale = 1:16.3
0-3-12 0-3-12	1 1 14 4x4 =	5.00 12 2x4	2x4 13 15 2x4	4 334	2-2-14
	I				

LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.22 BC 0.23 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) 0.04 4-11 >999 240 Vert(CT) -0.01 4-11 >999 240 Horz(CT) -0.00 2 n/a n/a	PLATES GRIP MT20 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	11012(01) -0.00 2 11/4 11/4	Weight: 33 lb FT = 25%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x6 SP No.1 **OTHERS** 2x4 SP No.2

REACTIONS.

(size) 2=0-3-0, 4=0-1-8 Max Horz 2=96(LC 12)

Max Uplift 2=-103(LC 8), 4=-103(LC 8) Max Grav 2=236(LC 1), 4=188(LC 1)

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

TOP CHORD 3-4=-125/352

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) -0-8-6 to 3-8-7, Exterior(2) 3-8-7 to 4-9-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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) 4 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) 4.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

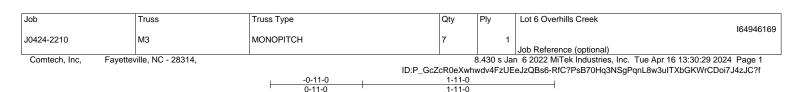
Rigid ceiling directly applied.

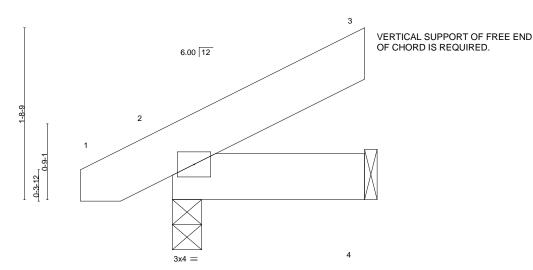
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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							1-11-0					
LOADING (p	osf) 0.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.07	DEFL. Vert(LL	in -0.00	(loc) 7	l/defl >999	L/d 360	PLATES MT20	GRIP 244/190
TCDL 10	0.0	Lumber DOL	1.15	BC	0.09	Vert(CT	-0.00	7	>999	240		
	0.0 * 0.0	Rep Stress Incr Code IRC2015/TF	YES PI2014	WB Matri	0.00 x-MP	Horz(C' Wind(Ll	,	2 7	n/a >999	n/a 240	Weight: 12 lb	FT = 25%

BRACING-

TOP CHORD

BOT CHORD

1-11-0

LUMBER-

REACTIONS.

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

> 2=0-3-8, 4=Mechanical (size) Max Horz 2=53(LC 9)

Max Uplift 2=-18(LC 12), 4=-44(LC 9)

Max Grav 2=127(LC 1), 4=69(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
- 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) Refer to girder(s) for truss to truss connections.
- 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 1-11-0 oc purlins.

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

Scale = 1:11.5

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 6 Overhills Creek 164946170 J0424-2210 V1 VALLEY Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:29 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 7-8-7 7-8-8 Scale = 1:33.0 4x4 = 3 8.00 12 11 2x4 || 2x4 || 2 12 9 3x4 / 3x4 > 6 2x4 || 2x4 | 2x4 || 15-4-6 Plate Offsets (X,Y)--[4:0-0-0,0-0-0] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d TCLL 20.0 Plate Grip DOL 1.15 TC 0.15 Vert(LL) 999 244/190 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.08 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.07 0.00 Horz(CT) n/a n/a Code IRC2015/TPI2014 FT = 25% **BCDL** 10.0 Weight: 61 lb Matrix-S LUMBER-**BRACING-**TOP CHORD 2x4 SP No.1 TOP CHORD

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

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

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

REACTIONS. All bearings 15-3-13.

Max Horz 1=-154(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-171(LC 12), 6=-171(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=252(LC 1), 8=388(LC 19), 6=388(LC 20)

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

WEBS 2-8=-382/291, 4-6=-382/291

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 7-8-7, Exterior(2) 7-8-7 to 12-1-4, Interior(1) 12-1-4 to 14-11-0 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.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=171, 6=171.
- 6) N/A





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

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

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria 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 6 Overhills Creek 164946171 J0424-2210 V2 VALLEY Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:30 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 11-4-15 5-8-7 5-8-7 5-8-8 Scale = 1:24.7 4x4 = 3 11 10 8.00 12 2x4 || 4 2x4 || 3x4 🖊 3x4 × 2x4 || 2x4 || 11-4-15 11-4-6 Plate Offsets (X,Y)--[4:0-0-0,0-0-0] SPACING-DEFL. **PLATES** GRIP LOADING (psf) 2-0-0 CSI. in (loc) I/defI L/d TCLL 20.0 Plate Grip DOL 1.15 TC 0.14 Vert(LL) 999 244/190 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.09 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 5 n/a n/a Code IRC2015/TPI2014 FT = 25% **BCDL** 10.0 Weight: 42 lb Matrix-S **BRACING-**

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 **OTHERS** 2x4 SP No.2 TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

REACTIONS. All bearings 11-3-13.

(lb) -Max Horz 1=-111(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-157(LC 12), 6=-157(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=262(LC 1), 8=344(LC 19), 6=343(LC 20)

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

WEBS 2-8=-362/303, 4-6=-362/303

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 5-8-7, Exterior(2) 5-8-7 to 10-1-4, Interior(1) 10-1-4 to 10-11-0 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.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=157, 6=157.
- 6) N/A



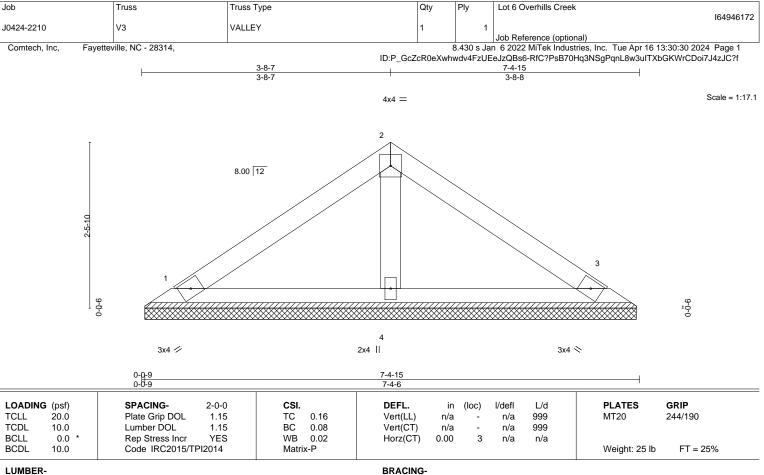
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria 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)



818 Soundside Road Edenton, NC 27932



TOP CHORD

BOT CHORD

REACTIONS.

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

OTHERS 2x4 SP No.2

> 1=7-3-13, 3=7-3-13, 4=7-3-13 (size) Max Horz 1=-69(LC 8)

Max Uplift 1=-42(LC 12), 3=-49(LC 13), 4=-4(LC 12) Max Grav 1=140(LC 1), 3=142(LC 20), 4=234(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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) 1, 3, 4.
- 6) N/A



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

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



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



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



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

₹

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

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

PLATE SIZE

4 × 4

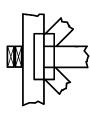
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

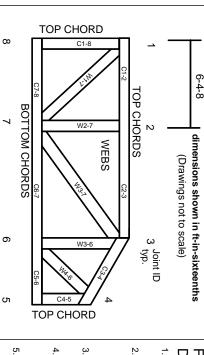
Industry Standards: ANSI/TPI1: National I

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

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

DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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MiTek



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

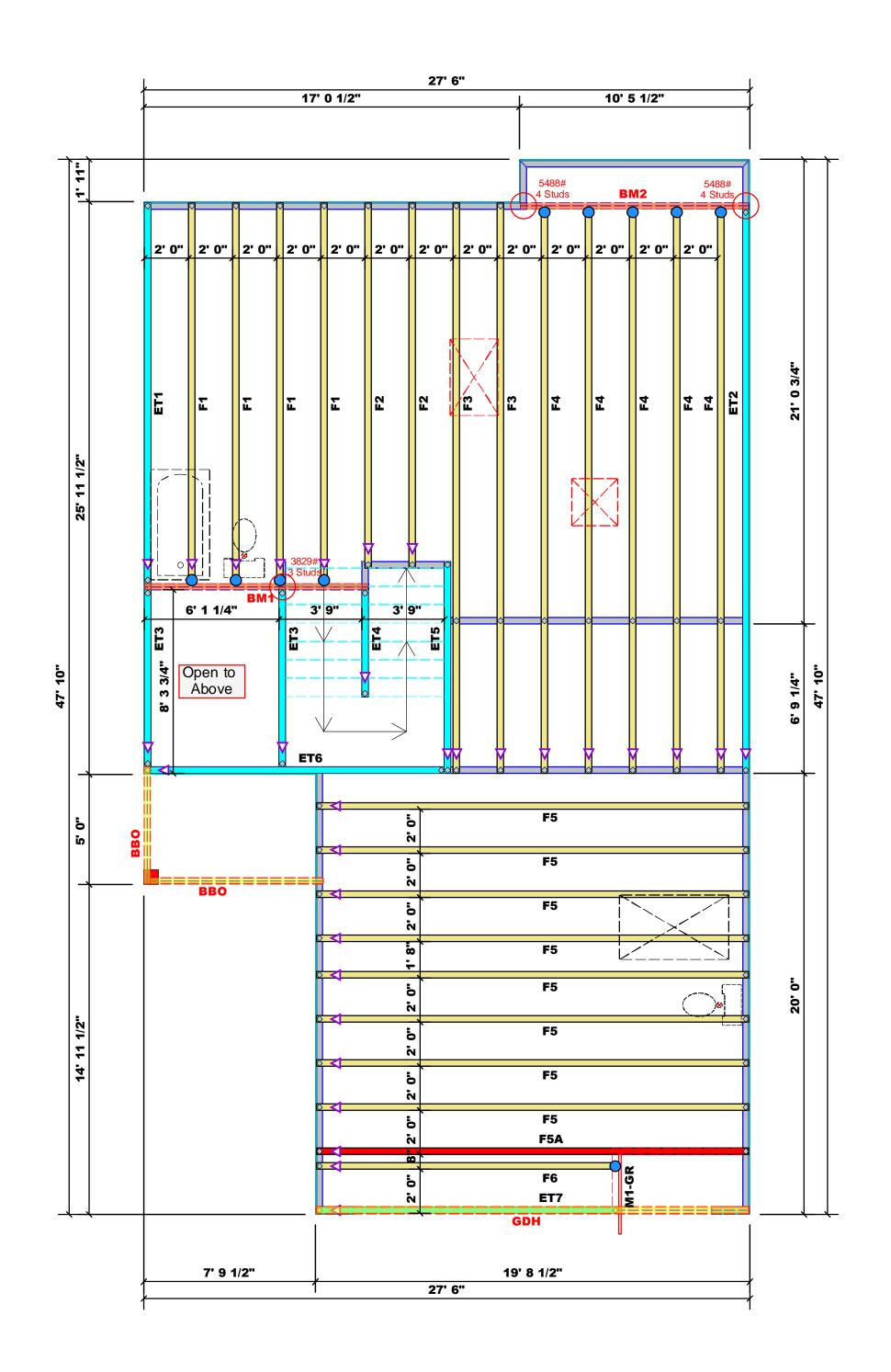
▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- 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 responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.



All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise. -- Denotes Reaction Greater than 3,000 lbs. Reaction / # of Studs

All Headers Are Considered 2X10 Beams Unless Otherwise Noted

All Walls Shown Are Considered Load Bearing

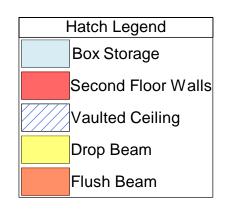
Plumbing Drop Notes

- Plumbing drop locations shown are NOT exact.
 Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses.
- 3. Adjust spacing as needed not to exceed 24"oc.

Dimension Notes 1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise

2. All interior wall dimensions are to face of stud unless noted otherwise

3. All exterior wall to truss dimensions are to face of stud unless noted otherwise



	Connec	Nail Information				
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HUS410	USP	10	NA	16d/3-1/2"	16d/3-1/2"

		Products		
PlotID	Length	Product	Plies	Net Qty
BM1	11' 0"	1-3/4"x 16" LVL Kerto-S	2	2
BM2	11' 0"	1-3/4"x 16" LVL Kerto-S	2	2
GDH	20' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2

Truss Placement Plan
Scale: 1/4"=1'

COMTECH **ROOF & FLOOR TRUSSES & BEAMS**

Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

ing reactions less than or equal to 3000# are led to comply with the prescriptive Code rements. The contractor shall refer to the hed Tables (derived from the prescriptive Co rements) to determine the minimum foundati and number of wood studs required to supporions greater than 3000# but not greater than 30.0# but not greater than 30.0# but not greater than be ded to design the support system for any ion that exceeds those specified in the attach is. A registered design professional shall be

Jonathan Landry

Jonathan Landry

(BASED ON TABLES R502.5(1) & (b))									
NU	MBER C		STUDS R			A END OF			
END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (4) PLY HEADER		
1700	1		2550	1		3400	1		
3400	2		5100	2		6800	2		
5100	3		7650	3		10200	3		
6800	4		10200	4		13600	4		
8500	5		12750	5		17000	5		
10200	6		15300	6					
11900	7								
13600	8								
15300	9								

ıtractors	CITY / CO.	CITY / CO. Johnston Co. / Johnston	13600 15300	11900
thills Creek	ADDRESS	341 Caldwell Street	8	/
GRF	MODEL	Floor		
	DATE REV.	04/16/24		
	DRAWN BY	DRAWN BY Jonathan Landry		
11	SALES REP.	SALES REP. Lenny Norris		

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.
These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com

N/A

Wellco Con

BUILDER

JOB NAME

▲= Denotes Left End of Truss (Reference Engineered Truss Drawing)



Client: Wellco Contractors Project:

Plan 14

341 Caldwell Street

Date: 4/16/2024

Input by:

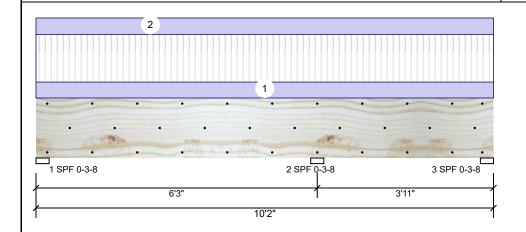
Jonathan Landry Job Name: Lot 6 Overhills Creek

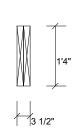
Project #: J0424-2211

1.750" X 16.000" **Kerto-S LVL** 2-Ply - PASSED BM₁

Address:

Level: Level





Page 1 of 6

Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal - II
Temperature:	Temp <= 100°F

Application: Floor Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: No Not Checked Deck: Ceiling: Gypsum 1/2"

Rea	Reactions UNPATTERNED lb (Uplift)								
Brg	Direction	Live	Dead	Snow	Wind	Const			
1	Vertical	989	703	0	0	0			
2	Vertical	2092	1486	0	0	0			
3	Vertical	488	347	0	0	0			

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-2083 ft-lb	6'3"	34565 ft-lb	0.060 (6%)	D+L	LL
Pos Moment	1882 ft-lb	2'8 11/16"	34565 ft-lb	0.054 (5%)	D+L	L_
Unbraced	1882 ft-lb	2'8 11/16"	12345 ft-lb	0.152 (15%)	D+L	L_
Shear	1284 lb	4'9 1/4"	11947 lb	0.108 (11%)	D+L	LL
LL Defl inch	0.006 (L/11160)	3'1 7/8"	0.151 (L/480)	0.043 (4%)	L	L_
TL Defl inch	0.011 (L/6638)	3'1 3/4"	0.201 (L/360)	0.054 (5%)	D+L	L_

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	31%	663 / 971	1635	L_	D+L
2 - SPF	3.500"	Vert	74%	1591 / 2239	3829	LL	D+L
3 - SPF	3.500"	Vert	18%	282 / 664	946	_L	D+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 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	Uniform			Тор	117 PLF	351 PLF	0 PLF	0 PLF	0 PLF	F1	
2	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall	
	Self Weight				12 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

This design is valid until 6/28/2026

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 Road Fayetteville Cumberland 28314



Client: Wellco Contractors

Project: Plan 14

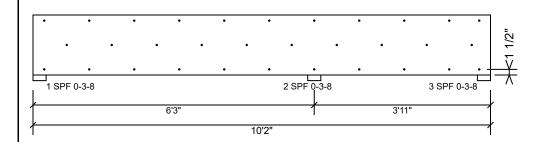
Address: 341 Caldwell Street Date: 4/16/2024

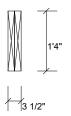
Input by: Jonathan Landry Job Name: Lot 6 Overhills Creek

Project #: J0424-2211

1.750" X 16.000" **Kerto-S LVL** 2-Ply - PASSED BM₁

Level: Level





Page 2 of 6

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

This design is valid until 6/28/2026

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 Road Fayetteville Cumberland 28314



Client: Project:

Address:

Wellco Contractors

Plan 14

341 Caldwell Street

Date: 4/16/2024

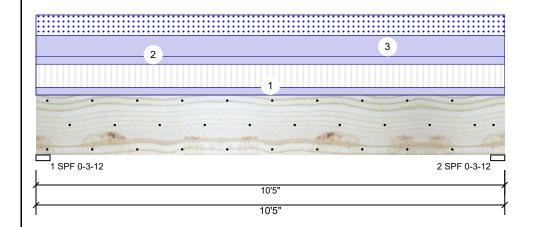
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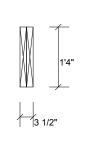
Jonathan Landry Job Name: Lot 6 Overhills Creek

Project #: J0424-2211

Kerto-S LVL 1.750" X 16.000" 2-Ply - PASSED **BM2**

Level: Level





Page 3 of 6

Member Information

Type: Plies: 2 Moisture Condition: Dry Deflection LL: 480 Deflection TL: 360 Importance: Normal - II Temperature: Temp <= 100°F

Application: Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: No Not Checked Deck: Ceiling: Gypsum 1/2"

Reactions UNPATTERNED Ib (Uplift) Snow Wind Const Brg Direction Live Dead 1813 2914 1620 0 Vertical 0 2 Vertical 1813 2914 1620 0 0

Bearings

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.750" D+0.75(L+S) Vert 2914 / 2574 5488 L D+0.75(L+S) 2 - SPF 3.750" Vert 98% 2914 / 2574 5488 L

Analysis Results

	•						
1	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
	Moment	13007 ft-lb	5'2 1/2"	39750 ft-lb	0.327 (33%)	D+0.75(L+S)	L
ι	Unbraced	13007 ft-lb	5'2 1/2"	13030 ft-lb	0.998 (100%)	D+0.75(L+S)	L
5	Shear	3770 lb	1'7 3/4"	13739 lb	0.274 (27%)	D+0.75(L+S)	L
L	LL Defl inch	0.058 (L/2058)	5'2 1/2"	0.248 (L/480)	0.233 (23%)	0.75(L+S)	L
7	TL Defl inch	0.124 (L/965)	5'2 1/2"	0.331 (L/360)	0.373 (37%)	D+0.75(L+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 laterally braced at a maximum of 9'1 15/16" o.c.

7 Lateral slenderness ratio based on single ply width

I Lateral sieriue	illess rallo based on single	piy widiii.								
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	116 PLF	348 PLF	0 PLF	0 PLF	0 PLF	F4
2	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
3	Uniform			Тор	311 PLF	0 PLF	311 PLF	0 PLF	0 PLF	A2
	Self Weight				12 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

This design is valid until 6/28/2026

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 Road Fayetteville Cumberland 28314

Version 23.40.705 Powered by iStruct™ Dataset: 23112401.1



Client: Wellco Contractors

Project: Plan 14

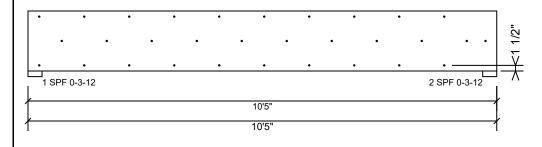
Address: 341 Caldwell Street Date: 4/16/2024

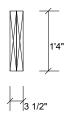
Input by: Jonathan Landry Job Name: Lot 6 Overhills Creek

Project #: J0424-2211

1.750" X 16.000" 2-Ply - PASSED **Kerto-S LVL BM2**

Level: Level





Page 4 of 6

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

This design is valid until 6/28/2026

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 Road Fayetteville Cumberland 28314



Client: Wellco Contractors Project:

Address:

Plan 14

341 Caldwell Street

Date: 4/16/2024

Input by:

Bearing Length

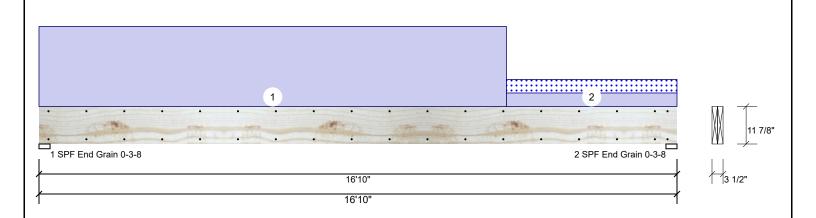
Dir.

Jonathan Landry Job Name: Lot 6 Overhills Creek Page 5 of 6

Project #: J0424-2211

Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED **GDH**

Level: Level



Member Info	rmation			Rea	ctions UNP	ons UNPATTERNED lb (Uplift			
Type:	Girder	Application:	Floor	Brg	Direction	Live	Dead		
Plies:	2	Design Method:	ASD	1	Vertical	0	1867		
Moisture Condition	on: Dry	Building Code:	IBC/IRC 2015	2	Vertical	0	1234		
Deflection LL:	480	Load Sharing:	No						
Deflection TL:	360	Deck:	Not Checked						
Importance:	Normal - II	Ceiling:	Gypsum 1/2"						
Temperature:	Temp <= 100°F								
				Bea	rings				

			- (-	,		
Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1867	21	0	0
2	Vertical	0	1234	150	0	0

Cap. React D/L lb

							1 - SPF End	3.500"	Vert	18%	1867 / 21	1889 L
Analysis Re	sults						Grain					
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case	2 - SPF End	3.500"	Vert	13%	1234 / 150	1384 L
Moment	7021 ft-lb	7'11 11/16"	17919 ft-lb	0.392 (39%)	D	Uniform	Grain					
Unbraced	7186 ft-lb	8' 3/4"	7190 ft-lb	1.000 (100%)	D+S	L						
Shear	1576 lb	1'3 3/8"	7980 lb	0.198 (20%)	D	Uniform						
LL Defl inch	0.011	9'8 1/4"	0.409 (L/480)	0.026 (3%)	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.

8'3 1/2" 0.546 (L/360) 0.677 (68%) D+S

- 2 Fasten all plies using 2 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.

(L/18604)

TL Defl inch 0.369 (L/532)

5 Top loads must be supported equally by all plies.6 Top must be laterally braced at a maximum of 13'9" o.c.	
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	Part. Uniform	0-0-0 to 12-4-0		Тор	225 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall	
2	Part. Uniform	12-4-0 to 16-10-0		Тор	38 PLF	0 PLF	38 PLF	0 PLF	0 PLF	M1	
	Self Weight				9 PLF						

L

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.

Notes

- 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
- For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

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 Road Fayetteville Cumberland 28314

Total Ld. Case

Ld. Comb. D+S

D+S

CSD DESIGN



Client: Wellco Contractors

Project: Plan 14

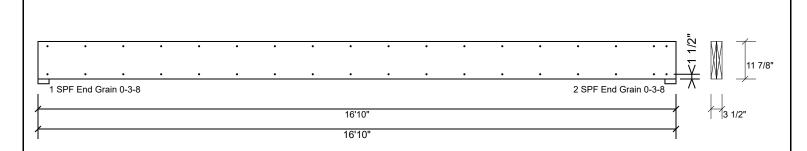
Address: 341 Caldwell Street 4/16/2024

Input by: Jonathan Landry Job Name: Lot 6 Overhills Creek Page 6 of 6

Project #: J0424-2211

1.750" X 11.875" **Kerto-S LVL** 2-Ply - PASSED **GDH**

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 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	163.7 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

This design is valid until 6/28/2026

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 Road Fayetteville Cumberland 28314



Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0424-2211

Lot 6 Overhills Creek

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

Pages or sheets covered by this seal: I64946400 thru I64946413

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

North Carolina COA: C-0844



April 17,2024

Johnson, Andrew

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

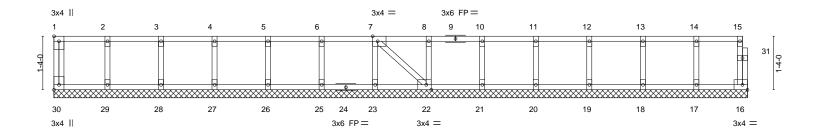
Job	Truss	Truss Type	Qty	Ply	Lot 6 Overhills Creek
					164946400
J0424-2211	EI1	GABLE	1	1	
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:38:41 2024 Page 1 ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0₁1₇8

Scale = 1:28.7



<u> </u>	1-4-0	2-8-0	5-4-0 1-4-0	6-8-0 1-4-0	8-0-0 1-4-0	9-4-0	0-8-0 1-4-0	12-0 1-4		13-4-0 1-4-0	14-8-0 1-4-0	16-0-0 1-4-0	17-3-4 1-3-4
Plate Offsets (X,Y) [1:Edge,0-1-8], [7:0-1-8,Edge], [22:0-1-8,Edge], [30:Edge,0-1-8]													
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLA	TES	GRIP
TCLL	40.Ó	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	` -	n/a	999	MT2	20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	16	n/a	n/a			
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Wei	ght: 79 lb	FT = 20%F, 11%E
LUMBER:	-	BRACING-											

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) **WEBS** 2x4 SP No.3(flat) **OTHERS** 2x4 SP No.3(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

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

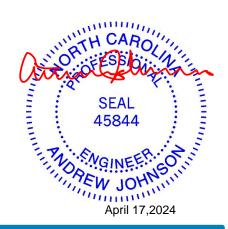
REACTIONS. All bearings 17-3-4.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 27, 26, 25, 23, 22, 21, 20, 19, 18, 17

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

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 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.





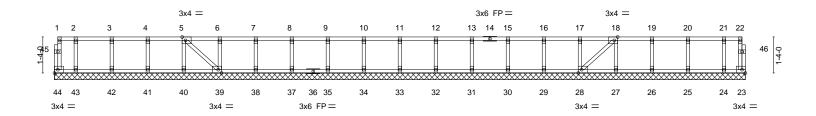
Job	Truss	Truss Type	Qty	Ply	Lot 6 Overhills Creek
10404-0044	ГТО	GABLE	_	_	164946401
J0424-2211	ET2	GABLE	1	1	Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:38:41 2024 Page 1 ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-<u>1</u>-8

0-1-8

Scale = 1:42.7



0-9-8 2-1-8 0-9-8 1-4-0		-5-8 + 8-9-8 + 10-1 -4-0 + 1-4-0 + 1-4			5-5-8 16-9-8 1-4-0	18-1-8 1-4-0	19-5-8 1-4-0	<u>20-9-8</u> + <u>22-1-8</u> + <u>23-5-8</u> <u>1-4-0</u> + <u>1-4-0</u>	+ 24-9-8 25-7-0 1-4-0 0-9-8
Plate Offsets (X,Y)	[5:0-1-8,Edge], [18:0-1-8,Edg	ge], [28:0-1-8,Edge]	[39:0-1-8,Edg	e]					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	Plate Grip DOL Lumber DOL	1.00 To B 1.00 B YES W	0.01	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - -0.00 28	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 117 lb	GRIP 244/190 FT = 20%F, 11%E

LUMBER-**BRACING-**

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

WEBS 2x4 SP No.3(flat) **OTHERS** 2x4 SP No.3(flat) 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. All bearings 25-7-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 44, 23, 43, 42, 41, 40, 39, 38, 37, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24

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

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 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.



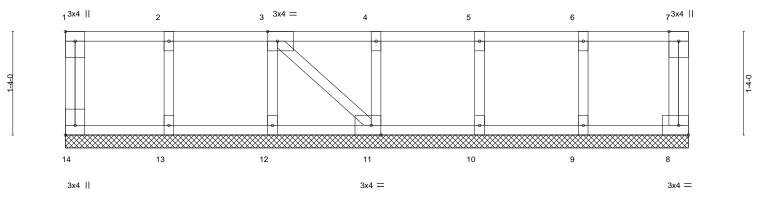


Job	Truss	Truss Type	Qty	Ply	Lot 6 Overhills Creek
					164946402
J0424-2211	ET3	GABLE	2	1	
					Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:38:42 2024 Page 1 ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8

Scale = 1:14.8



	<u> </u>	1-4-0	2-8-0 1-4-0		4-0-0 1-4-0	-	5-4-0 1-4-0			6-8-0 1-4-0	8-0-4 1-4-4	
Plate Offs	ets (X,Y)	[1:Edge,0-1-8], [3:0-1-8,		8,Edge], [14:Ed			140			1 4 0	144	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL TCDL	40.0 10.0	Plate Grip DOL Lumber DOL	1.00 1.00		06 01	Vert(LL) Vert(CT)	n/a n/a	-	n/a n/a	999 999	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES		03	Horz(CT)	-0.00	- 11	n/a	n/a		
BCDL	5.0	Code IRC2015/T	PI2014	Matrix-F							Weight: 41 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) **WEBS** 2x4 SP No.3(flat) **OTHERS** 2x4 SP No.3(flat) BRACING-

TOP CHORD Structural wood sheathing directly applied or 8-0-4 oc purlins,

except end verticals.

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

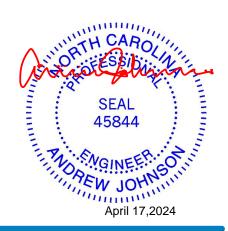
REACTIONS. All bearings 8-0-4.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

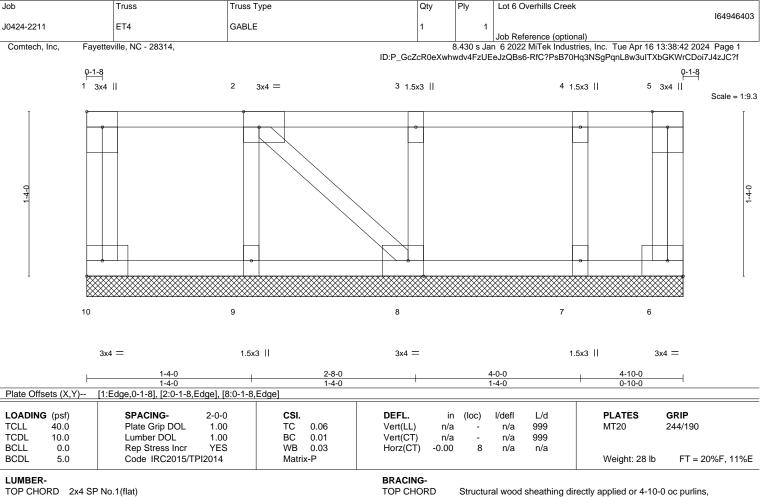
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 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.







BOT CHORD

except end verticals.

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

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

2x4 SP No.3(flat)

All bearings 4-10-0.

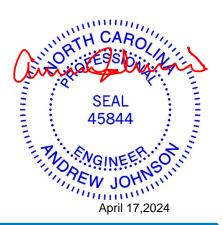
(lb) - Max Grav All reactions 250 lb or less at joint(s) 10, 6, 9, 8, 7

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

NOTES-

REACTIONS.

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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.





Job	Truss	Truss Type	Qty	Ply	Lot 6 Overhills Creek
					164946404
J0424-2211	ET5	GABLE	1	1	
					Job Reference (optional)

0,1,8

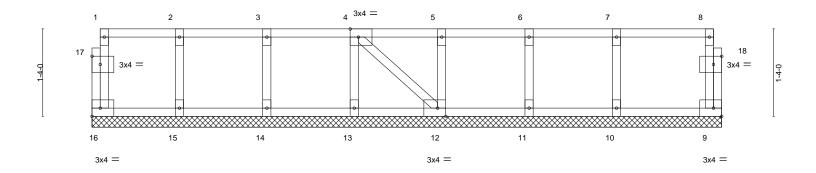
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:38:42 2024 Page 1 ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

except end verticals.

0,1,8

Scale = 1:17.6



	1-4-0	1 2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-7-4	
	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-7-4	<u> </u>
Plate Offsets (X,Y)-	 [4:0-1-8,Edge] 	, [12:0-1-8,Edge], [17:0)-1-8,0-1-8], [18:0-1-8,	0-1-8]				
LOADING (psf)	SPACII	NG- 2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP
TCLL 40.0	Plate G	rip DOL 1.00	TC 0.07	Vert(LL)	n/a -	n/a 999	MT20	244/190
TCDL 10.0	Lumber	DOL 1.00	BC 0.01	Vert(CT)	n/a -	n/a 999		
BCLL 0.0	Rep Str	ess Incr YES	WB 0.04	Horz(CT	0.00 9	n/a n/a		
BCDL 5.0	Code II	RC2015/TPI2014	Matrix-S				Weight: 46 lb	FT = 20%F, 11%E

TOP CHORD

LUMBER-BRACING-

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

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

REACTIONS. All bearings 9-7-4.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 16, 9, 15, 14, 13, 12, 11, 10

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

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 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.





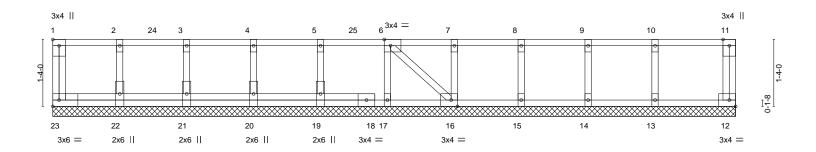
Job	Truss	Truss Type	Qty	Ply	Lot 6 Overhills Creek
		0.5.5			164946405
J0424-2211	ET6	GABLE	1	1	
					Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:38:43 2024 Page 1 ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f

0118

0118

Scale = 1:23.0



1	1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	1	8-0-0	1 9	9-4-0	1	10-8-0	1	12-0-0	1	13-7-4	
	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1	1-4-0	1 1	1-4-0	-	1-4-0	1	1-4-0	1	1-7-4	
Plate C	Offsets (X,Y)	[1:Edge,0-1-8], [6:0-1-8	3,Edge], [16:0)-1-8,Edge]												
LOADI	NG (psf)	SPACING-	2-0-0	CSI			DEFL.	in	(loc)	I/defI	L/d		PLAT	ES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.10		Vert(LL)	n/a	-	n/a	999		MT20		244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.01		Vert(CT)	n/a	-	n/a	999					
BCLL	0.0	Rep Stress Incr	YES	WB	0.04		Horz(CT)	-0.00	12	n/a	n/a					
BCDL	5.0	Code IRC2015/	TPI2014	Mat	rix-S								Weigh	t: 72 lb	FT = 20%	F, 11%E
LUMB	ER-						BRACING-									

TOP CHORD

TOP CHORD 2x4 SP No.1(flat)

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

except end verticals. **BOT CHORD**

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

Structural wood sheathing directly applied or 10-0-0 oc purlins,

REACTIONS. All bearings 13-7-4.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 23, 12, 22, 21, 20, 19, 17, 16, 15, 14, 13

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

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 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.

LOAD CASE(S) Standard

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

Vert: 12-23=-10. 1-11=-100 Concentrated Loads (lb)

Vert: 4=-74 24=-74 25=-74

April 17,2024



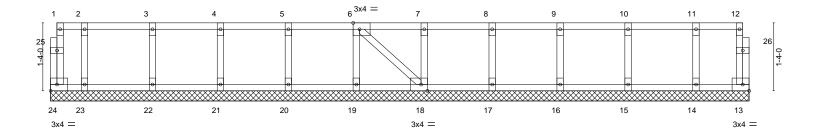
Job	Truss	Truss Type	Qty	Ply	Lot 6 Overhills Creek
10424-2211		GABLE	4	1	164946406
J0424-2211	E17	GABLE	1	1	Job Reference (optional)

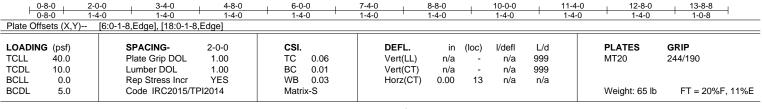
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:38:43 2024 Page 1

ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0118

Scale = 1:22.6





LUMBER-**BRACING-**

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

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

except end verticals.

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

REACTIONS. All bearings 13-8-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

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

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 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.





Job Truss Truss Type Qty Ply Lot 6 Overhills Creek 164946407 J0424-2211 F1 Floor Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

1-3-0

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:38:43 2024 Page 1 ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-0-0 1-6-4 0<u>-1</u>_8

Scale = 1:29.0

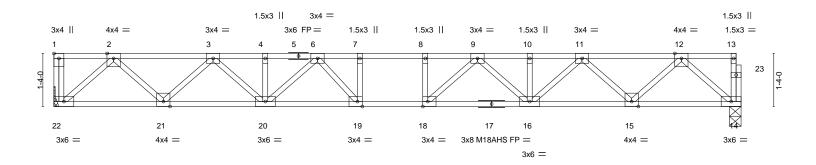


Plate Offsets (X,Y)--[1:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge] **PLATES** GRIP LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defl L/d 244/190 TCLL 40.0 Plate Grip DOL 1.00 TC 0.45 Vert(LL) -0.19 18 >999 480 MT20 TCDL 10.0 Lumber DOL 1.00 BC 0.66 Vert(CT) -0.2618 >787 360 M18AHS 186/179 **BCLL** 0.0 Rep Stress Incr YES WB 0.45 0.05 Horz(CT) 14 n/a n/a Code IRC2015/TPI2014 FT = 20%F, 11%E **BCDL** 5.0 Weight: 93 lb Matrix-S

LUMBER-**BRACING-**

2x4 SP No.1(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) 22=Mechanical, 14=0-3-8 Max Grav 22=936(LC 1), 14=930(LC 1)

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

TOP CHORD 2-3=-1691/0, 3-4=-2793/0, 4-6=-2793/0, 6-7=-3271/0, 7-8=-3271/0, 8-9=-3271/0, 9-10=-2794/0, 10-11=-2794/0, 11-12=-1690/0

BOT CHORD 21-22=0/1008, 20-21=0/2343, 19-20=0/3109, 18-19=0/3271, 16-18=0/3110, 15-16=0/2344,

14-15=0/1007

WFBS 2-22=-1342/0, 2-21=0/949, 3-21=-907/0, 3-20=0/612, 6-20=-430/0, 12-14=-1338/0,

12-15=0/950, 11-15=-910/0, 11-16=0/612, 9-16=-430/0, 9-18=-102/497, 6-19=-93/519,

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates 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.



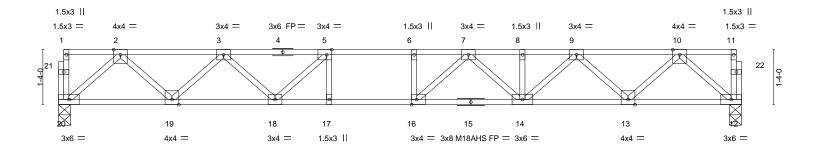


Job	Truss	Truss Type	Qty	Ply	Lot 6 Overhills Creek
					164946408
J0424-2211	F2	Floor	2	1	
					Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:38:44 2024 Page 1 ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f



0-1-8 Scale = 1:27.9 1-11-4



<u> </u>	16-6-12 16-6-12								
Plate Offsets (X,Y)	[5:0-1-8,Edge], [16:0-1-8,Edge]								
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 0.49	Vert(LL) -0.21 14-16 >952 480	MT20 244/190					
TCDL 10.0	Lumber DOL 1.00	BC 0.87	Vert(CT) -0.28 14-16 >705 360	M18AHS 186/179					
BCLL 0.0	Rep Stress Incr YES	WB 0.43	Horz(CT) 0.05 12 n/a n/a						
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 87 lb FT = 20%F, 11%E					

LUMBER-**BRACING-**

2x4 SP No.1(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) 20=0-3-8, 12=0-3-8 Max Grav 20=891(LC 1), 12=891(LC 1)

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

TOP CHORD 2-3=-1609/0, 3-5=-2582/0, 5-6=-2978/0, 6-7=-2978/0, 7-8=-2631/0, 8-9=-2631/0, 9-10=-1604/0

BOT CHORD

19-20=0/962, 18-19=0/2222, 17-18=0/2978, 16-17=0/2978, 14-16=0/2900, 13-14=0/2222, 12-13=0/962

> 2-20=-1278/0, 2-19=0/900, 3-19=-853/0, 3-18=0/543, 10-12=-1278/0, 10-13=0/893, 9-13=-859/0, 9-14=0/556, 7-14=-366/0, 7-16=-165/434, 5-18=-680/0

NOTES-

WFBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) 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.





Job	Truss	Truss Type	Qty	Ply	Lot 6 Overhills Creek
					164946409
J0424-2211	F3	Floor	2	1	
					Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:38:44 2024 Page 1 ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

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

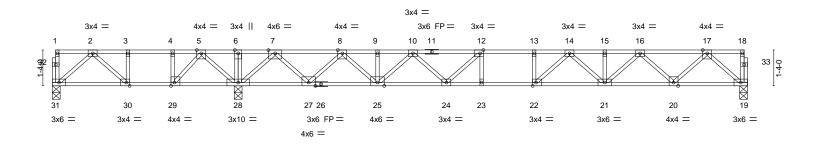
except end verticals.

0-1-8

H|-1-3-0 1-6-8

1-10-0

0-1-8 Scale = 1:42.9



	6-11-0 6-11-0				25-10-8 18-11-8				
Plate Offsets (X,Y)	[12:0-1-8,Edge], [22:0-1-8	3,Edge], [29:0	-1-8,Edge], [30:0-1-8,Edg	e]					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TF	2-0-0 1.00 1.00 YES	CSI. TC 0.90 BC 0.80 WB 0.60 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.22 22-23 -0.30 22-23 0.05 19	I/defl >999 >748 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 137 lb	GRIP 244/190 FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.3(flat)

(size) 31=0-3-8, 28=0-3-8, 19=0-3-8

Max Uplift 31=-178(LC 4)

Max Grav 31=287(LC 3), 28=1794(LC 1), 19=934(LC 7)

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

2-3=-278/660, 3-4=-278/660, 4-5=-278/660, 5-6=0/1654, 6-7=0/1654, 7-8=-630/0, TOP CHORD

8-9=-2136/0, 9-10=-2136/0, 10-12=-2997/0, 12-13=-3297/0, 13-14=-3297/0,

14-15=-2811/0, 15-16=-2811/0, 16-17=-1698/0

BOT CHORD 30-31=-232/252, 29-30=-660/278, 28-29=-1146/0, 27-28=-435/0, 25-27=0/1485,

 $24 - 25 = 0/2694,\ 23 - 24 = 0/3297,\ 22 - 23 = 0/3297,\ 21 - 22 = 0/3132,\ 20 - 21 = 0/2357,\ 19 - 20 = 0/1011$ **WEBS** 2-31=-333/307, 2-30=-582/34, 5-28=-875/0, 5-29=0/921, 4-29=-517/0, 3-30=-44/285,

7-28=-1624/0, 7-27=0/1259, 8-27=-1209/0, 8-25=0/903, 17-19=-1344/0, 17-20=0/955 16-20=-916/0, 16-21=0/617, 14-21=-437/0, 14-22=-113/504, 10-25=-772/0, 10-24=0/505,

12-24=-611/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 31.
- 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.



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/TPII 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 6 Overhills Creek
					I64946410
J0424-2211	F4	Floor	5	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:38:45 2024 Page 1 ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

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

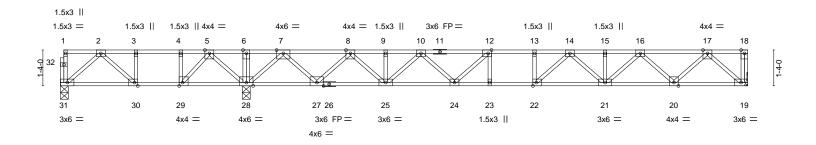
except end verticals.

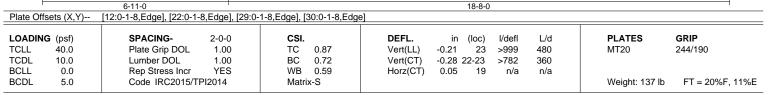
0-1-8

H|-1-3-0 1-6-8

1-6-8

Scale = 1:42.9





TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 31=0-3-8, 28=0-3-8, 19=Mechanical

Max Uplift 31=-168(LC 4)

Max Grav 31=289(LC 3), 28=1767(LC 1), 19=926(LC 7)

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

 $2 - 3 = -284/634,\ 3 - 4 = -284/634,\ 4 - 5 = -284/634,\ 5 - 6 = 0/1607,\ 6 - 7 = 0/1607,\ 7 - 8 = -643/0,$ TOP CHORD

8-9=-2111/0, 9-10=-2111/0, 10-12=-2933/0, 12-13=-3206/0, 13-14=-3206/0,

14-15=-2750/0, 15-16=-2750/0, 16-17=-1668/0

BOT CHORD 30-31=-221/255, 29-30=-634/284, 28-29=-1106/0, 27-28=-407/0, 25-27=0/1481,

 $24 - 25 = 0/2653,\ 23 - 24 = 0/3206,\ 22 - 23 = 0/3206,\ 21 - 22 = 0/3058,\ 20 - 21 = 0/2311,\ 19 - 20 = 0/996$ **WEBS** 2-31=-336/293, 2-30=-561/40, 3-30=-47/275, 5-28=-861/0, 5-29=0/900, 4-29=-506/0,

17-19=-1326/0, 17-20=0/935, 16-20=-894/0, 16-21=0/596, 7-28=-1598/0, 7-27=0/1234,

8-27=-1184/0, 8-25=0/877, 10-25=-751/0, 10-24=0/478, 12-24=-567/0, 14-21=-419/0,

14-22=-132/472

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 168 lb uplift at joint 31.
- 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.





Job	Truss	Truss Type	Qty	Ply	Lot 6 Overhills Creek
					I64946411
J0424-2211	F5	Floor	8	1	
					Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:38:45 2024 Page 1 ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied, except end verticals.

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

0-1-8 H - 1-3-0

2-4-8

0-1-8 Scale = 1:32.3

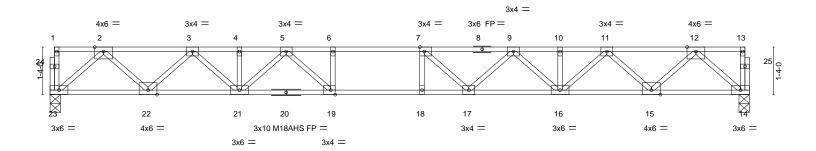


Plate Offsets (X,Y)--[7:0-1-8,Edge], [19:0-1-8,Edge] SPACING-**PLATES GRIP** LOADING (psf) CSI. DEFL. in (loc) I/def L/d 244/190 **TCLL** 40.0 Plate Grip DOL 1.00 TC 0.97 Vert(LL) -0.32 18 >731 480 MT20 TCDL 10.0 Lumber DOL 1.00 BC 0.78 Vert(CT) -0.44 18 >533 360 M18AHS 186/179 **BCLL** 0.0 Rep Stress Incr YES WB 0.54 Horz(CT) 0.06 14 n/a n/a **BCDL** Code IRC2015/TPI2014 Weight: 102 lb 5.0 FT = 20%F, 11%E Matrix-S

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 23=0-3-8, 14=0-3-8

Max Grav 23=1059(LC 1), 14=1059(LC 1)

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

2-3=-1973/0, 3-4=-3338/0, 4-5=-3338/0, 5-6=-4209/0, 6-7=-4209/0, 7-9=-4060/0,

9-10=-3335/0, 10-11=-3335/0, 11-12=-1971/0

BOT CHORD 22-23=0/1155, 21-22=0/2753, 19-21=0/3807, 18-19=0/4209, 17-18=0/4209, 16-17=0/3840,

15-16=0/2758, 14-15=0/1153

WFBS 2-23=-1535/0, 2-22=0/1137, 3-22=-1085/0, 3-21=0/795, 12-14=-1533/0, 12-15=0/1137,

11-15=-1095/0, 11-16=0/784, 9-16=-687/0, 9-17=0/465, 7-17=-563/159, 5-21=-637/0,

5-19=0/835, 6-19=-366/0

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) 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.





Job Truss Truss Type Qty Ply Lot 6 Overhills Creek 164946412 Floor J0424-2211 F5A

Fayetteville, NC - 28314, Comtech, Inc.

Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:38:46 2024 Page 1 ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8 1-3-0 2-4-8 $H \vdash$

0-1-8 Scale = 1:33.2

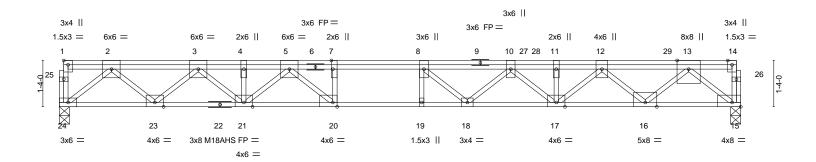


Plate Offsets (X,Y)--[1:Edge,0-1-8], [7:0-3-0,Edge], [15:Edge,0-1-8], [20:0-1-8,Edge] LOADING (psf) SPACINGin (loc) I/defl L/d **PLATES GRIP** TCLL 40.0 Plate Grip DOL 1.00 TC 0.82 Vert(LL) -0.37 18-19 >634 480 MT20 244/190 TCDL 10.0 Lumber DOL 1.00 BC 0.89 Vert(CT) -0.51 18-19 >456 360 M18AHS 186/179 **BCLL** 0.0 Rep Stress Incr NO WB 0.91 0.10 Horz(CT) 15 n/a n/a Code IRC2015/TPI2014 **BCDL** 5.0 FT = 20%F, 11%E Matrix-S Weight: 129 lb

LUMBER-**BRACING-**

2x4 SP No.1(flat) 2x4 SP 2400F 2.0E(flat) TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

REACTIONS. (size) 24=0-3-8, 15=0-3-8

Max Grav 24=1252(LC 1), 15=2068(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2506/0, 3-4=-4389/0, 4-5=-4389/0, 5-7=-5948/0, 7-8=-5948/0, 8-10=-6153/0,

10-11=-5805/0, 11-12=-5805/0, 12-13=-3735/0 BOT CHORD 23-24=0/1440, 21-23=0/3530, 20-21=0/5031, 19-20=0/5948, 18-19=0/5948, 17-18=0/6241,

16-17=0/5107, 15-16=0/2331 WFBS 2-24=-1871/0, 2-23=0/1446, 3-23=-1390/0, 3-21=0/1141, 13-15=-3027/0, 13-16=0/1904,

12-16=-1861/0, 12-17=0/927, 10-17=-580/0, 10-18=-389/367, 8-18=-359/600,

5-21=-852/0, 5-20=0/1548, 7-20=-866/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- 4) 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.
- 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 57 lb down at 13-9-4, and 5 lb down at 15-6-12, and 5 lb down at 17-6-12 on top chord. The design/selection of such connection device(s) is the responsibility of
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 15-24=-10, 1-27=-100, 14-27=-295(F=-195)

Concentrated Loads (lb)

Vert: 12=-5(F) 28=-18(F) 29=-5(F)





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)

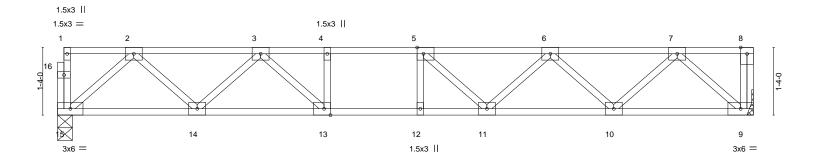


Job	Truss	Truss Type	Qty	Ply	Lot 6 Overhills Creek
					164946413
J0424-2211	F6	Floor	1	1	
					Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:38:46 2024 Page 1 ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:22.7



				13-8-8			
Plate Offsets (X,Y) [5:0-1-8,Edge], [13:0-1-8,Edge]							
-							
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP		
TCLL	40.0	Plate Grip DOL 1.00	TC 0.42	Vert(LL) -0.11 11-12 >999 480	MT20 244/190		
TCDL	10.0	Lumber DOL 1.00	BC 0.68	Vert(CT) -0.15 11-12 >999 360			
BCLL	0.0	Rep Stress Incr YES	WB 0.33	Horz(CT) 0.03 9 n/a n/a			
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S	, ,	Weight: 72 lb FT = 20%F, 11%E		

13-8-8

LUMBER-**BRACING-**

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 10-0-0 oc bracing.

REACTIONS. (size) 15=0-3-8, 9=Mechanical Max Grav 15=734(LC 1), 9=740(LC 1)

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

2-3=-1257/0, 3-4=-2023/0, 4-5=-2023/0, 5-6=-1911/0, 6-7=-1272/0 **BOT CHORD** 14-15=0/784, 13-14=0/1720, 12-13=0/2023, 11-12=0/2023, 10-11=0/1740, 9-10=0/778

WEBS

 $7-9 = -1036/0, \ 2-15 = -1041/0, \ 7-10 = 0/686, \ 2-14 = 0/657, \ 6-10 = -651/0, \ 3-14 = -644/0,$

6-11=0/313, 3-13=0/568, 5-11=-333/44

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) 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.



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Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ from outside edge of truss.

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

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

PLATE SIZE

4 × 4

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

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards: ANSI/TPI1: National Design Specification for Metal

DSB-22:

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

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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MITOK



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

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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