



Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0822-4066 Lot 5 Liberty Meadows

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: I53588288 thru I53588309

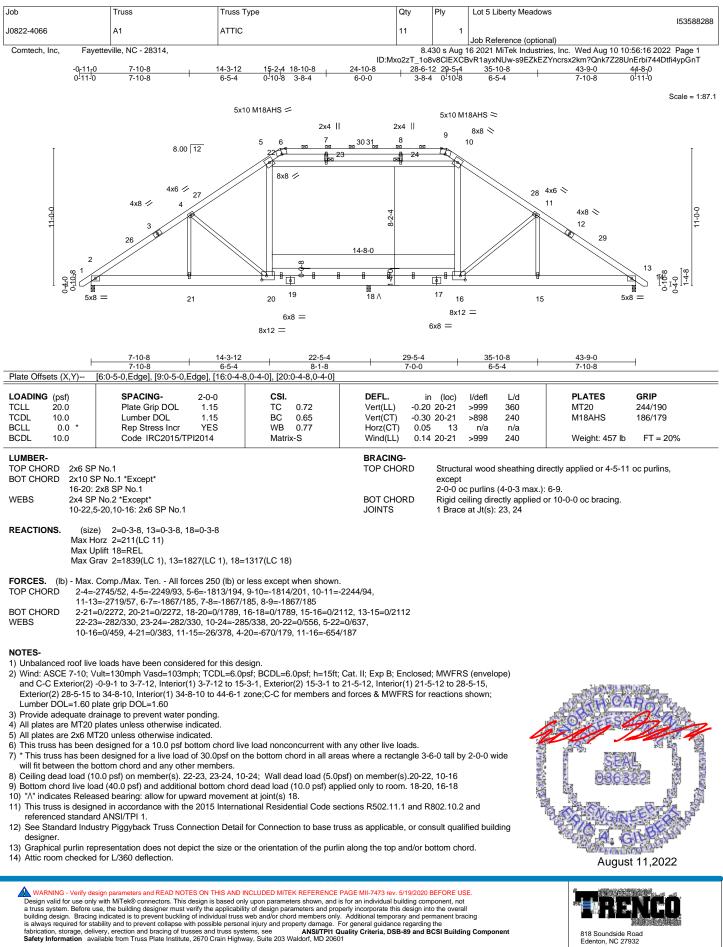
My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844

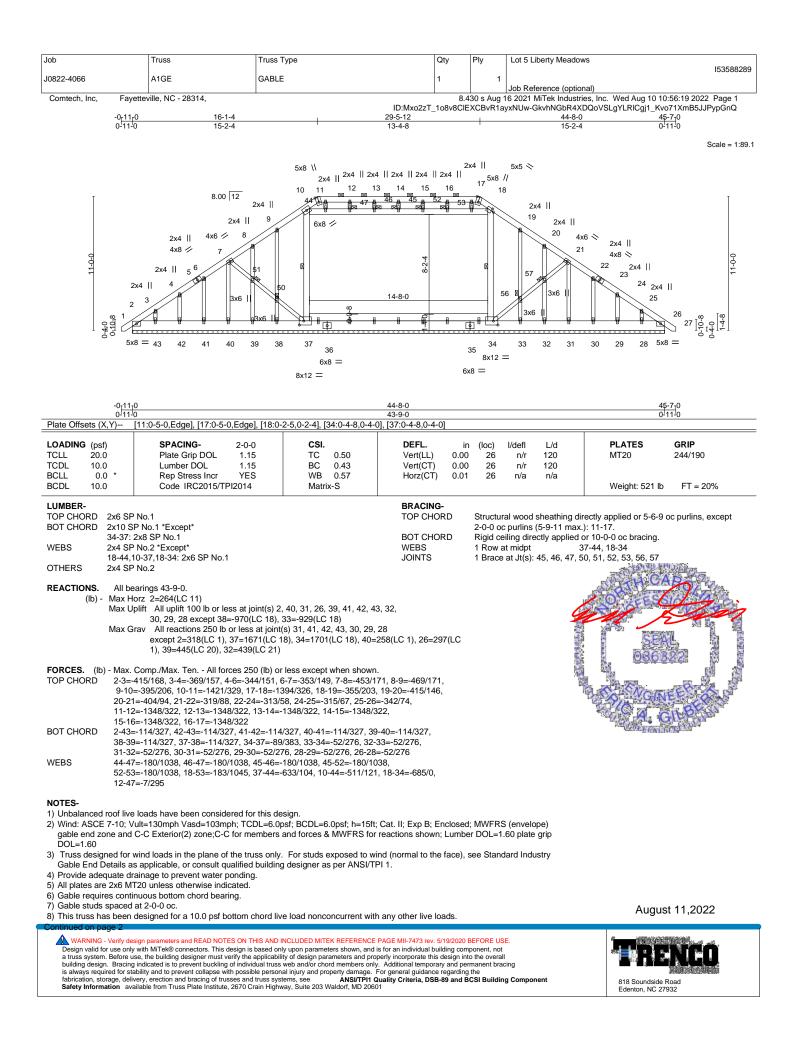


August 11,2022

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.







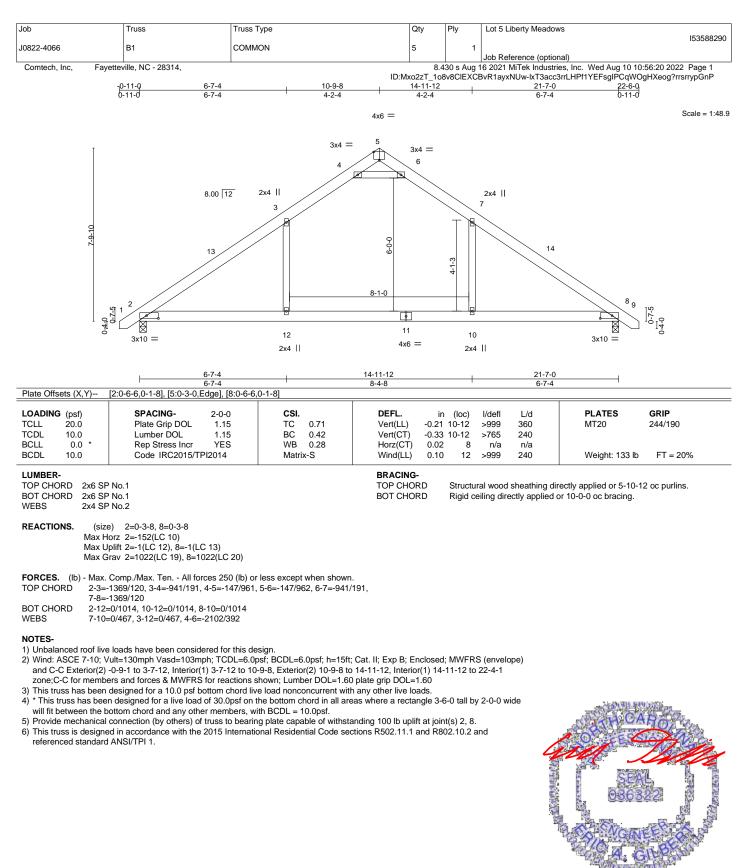
Job	Truss	Truss Type	Qty	Ply	Lot 5 Liberty Meadows
					153588289
J0822-4066	A1GE	GABLE	1	1	
					Job Reference (optional)
Comtech, Inc, Fayettev	ille, NC - 28314,		8.4	30 s Aug 1	16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:19 2022 Page 2

NOTES-

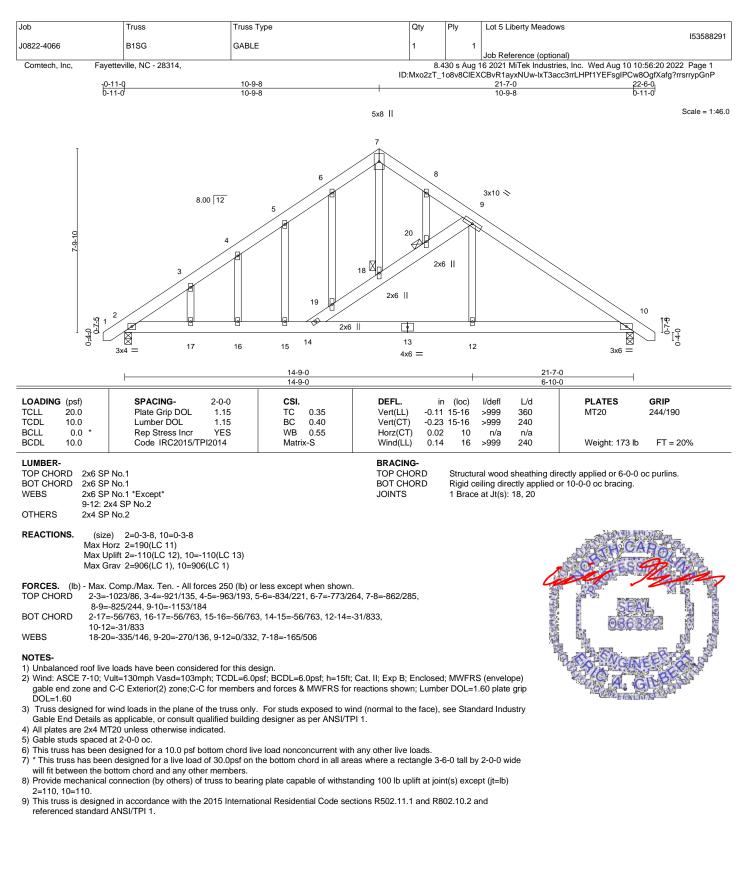
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- 9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Ceiling dead load (10.0 psf) on member(s). 44-47, 46-47, 45-46, 45-52, 52-53, 18-53; Wall dead load (5.0psf) on member(s).37-44, 18-34, 33-56, 22-30 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 40, 31, 26, 39, 41, 42, 43, 32, 30, 29, 28 except
- (jt=lb) 38=970, 33=929.
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer. Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 Attic room checked for L/360 deflection.

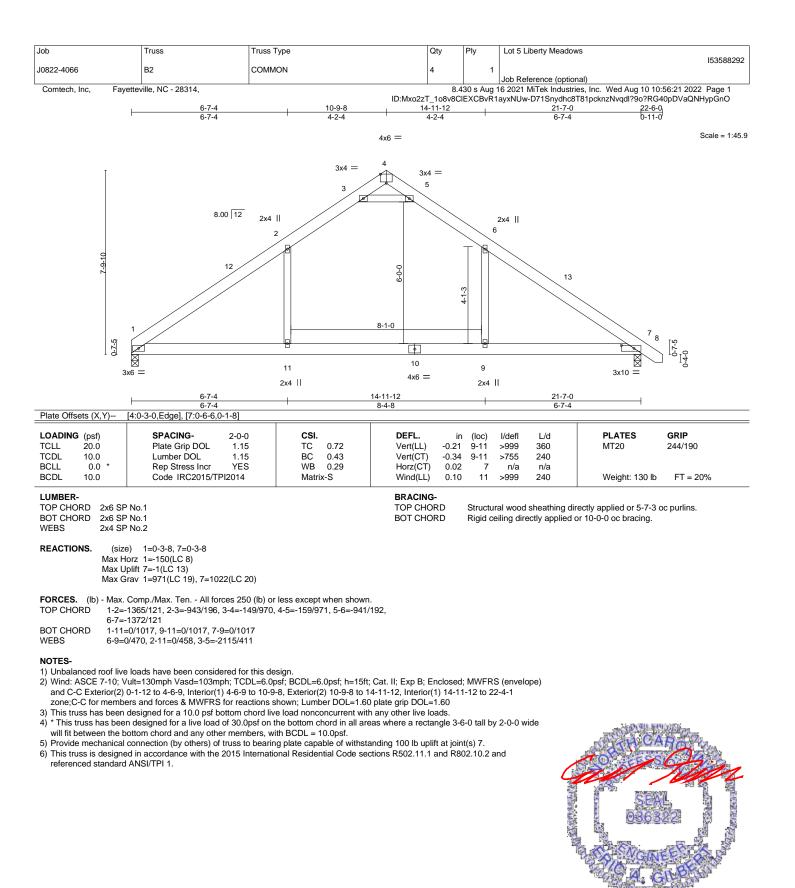














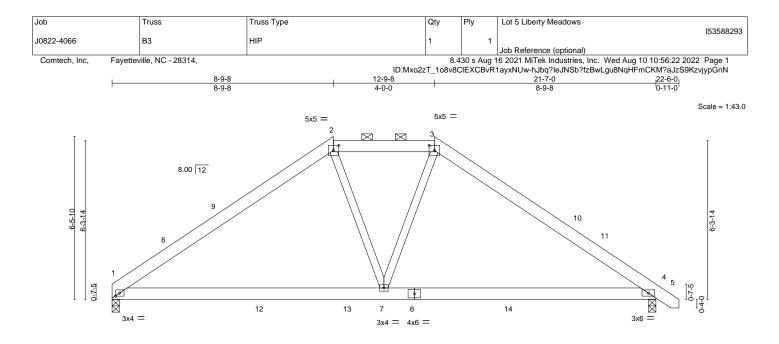


Plate Offsets (X,Y)	10-9-8 10-9-8 [1:0-1-14,0-1-8], [2:0-2-8,0-2-6], [3:0-2	3.0-2-61	-						
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.41 BC 0.51 WB 0.09 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.08 -0.16 0.02 0.03	(loc) 4-7 4-7 4 4-7	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 130 lb	GRIP 244/190 FT = 20%
	P No.1 P No.2		BRACING- TOP CHOR BOT CHOR	D	2-0-0 0	oc purlins	(6-0-0 max.	irectly applied or 6-0-0 o): 2-3. or 10-0-0 oc bracing.	oc purlins, except
TOP CHORD 1-2= BOT CHORD 1-7=	Comp./Max. Ten All forces 250 (lb) or -1170/186, 2-3=-986/207, 3-4=-1170/18: -14/931, 4-7=-15/892 0/369, 3-7=0/370								
	e loads have been considered for this de /ult=130mph Vasd=103mph; TCDL=6.0		at. II; Exp B; En	closed;	MWFR	S (envel	ope)		

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 8-9-8, Exterior(2) 8-9-8 to 19-0-3, Interior(1) 19-0-3 to 22-4-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

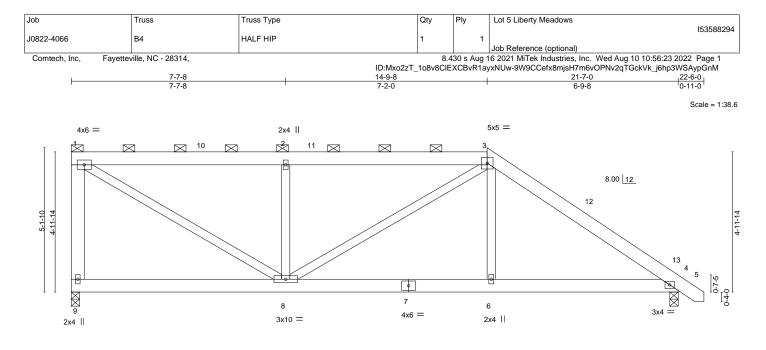
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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







	7-7-8				<u>14-9-8</u> 7-2-0					+ <u>21-7-0</u> 6-9-8			
LOADING TCLL TCDL BCLL	(psf) 20.0 10.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.23 0.20 0.27	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.05 0.01	(loc) 8 6-8 4	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 244/190	
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S	Wind(LL)	0.02	8	>999	240	Weight: 153 lb	FT = 20%	

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except*
	1-9: 2x6 SP No.1

REACTIONS. (size) 9=0-3-8, 4=0-3-8 Max Horz 9=-131(LC 13) Max Uplift 9=-31(LC 8)

Max Grav 9=847(LC 1), 4=903(LC 1)

- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 1-9=-774/180, 1-2=-981/167, 2-3=-983/169, 3-4=-1200/155

BOT CHORD 6-8=-7/892, 4-6=-5/898

WEBS 1-8=-191/1106, 2-8=-503/194, 3-6=0/299

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 14-9-8, Exterior(2) 14-9-8 to 21-0-3, Interior(1) 21-0-3 to 22-4-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

4) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.

7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1.

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

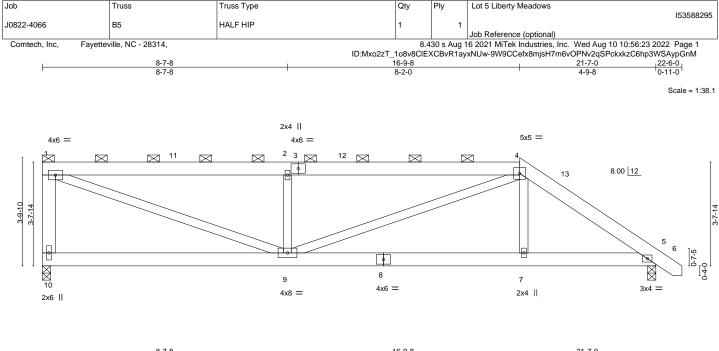


Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3.

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

rameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. 🛕 WARNING - Verify design pa Design valid for use only with MTek® connectors. This down the seed only upon parameters show, 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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabrication, storage, delivery, erection and bracing of truss systems, see **ANSUTPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





H	8-7-8					16- 8-2			4-9-8			
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	0.29	Vert(LL)	-0.05	9	>999	360	MT20	244/190
CDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.10	7-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-S	Wind(LL)	0.03	9	>999	240	Weight: 146 lb	FT = 20%

 TOP CHORD
 2x6 SP No.1

 BOT CHORD
 2x6 SP No.1

 WEBS
 2x4 SP No.2 *Except*

 1-10: 2x6 SP No.1

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-4. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-3-8, 5=0-3-8 Max Horz 10=-95(LC 13) Max Uplift 10=-31(LC 8) Max Grav 10=847(LC 1), 5=903(LC 1)

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

TOP CHORD 1-10=-760/174, 1-2=-1484/235, 2-4=-1486/236, 4-5=-1307/181

BOT CHORD 7-9=-59/1008, 5-7=-56/1015

WEBS 1-9=-241/1500, 2-9=-565/220, 4-9=-71/574, 4-7=0/286

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 16-9-8, Exterior(2) 16-9-8 to 22-4-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

4) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10.

- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.

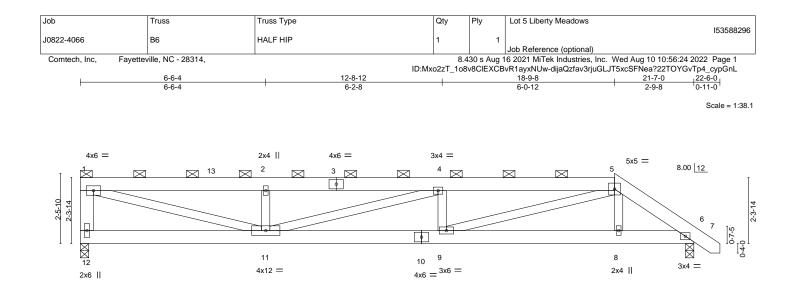
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design in 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 oullapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses systems, see **ANSUTPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road Edenton, NC 27932



	<u>6-6-4</u> <u>6-6-4</u>	12-8-12 6-2-8	18-9-8 6-0-12	21-7-0
LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. DEFL. TC 0.20 Vert(LL) BC 0.37 Vert(CT)	in (loc) l/defl L/d -0.10 9-11 >999 360 -0.20 9-11 >999 240	PLATES GRIP MT20 244/190
3CLL 0.0 * 3CDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.49 Horz(CT) Matrix-S Wind(LL)	0.02 6 n/a n/a 0.07 9-11 >999 240	Weight: 142 lb FT = 20%
UMBER-		BRACING	-	

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 2x6 SP No.1 BOT CHORD 2x4 SP No.2 *Except* WFBS 1-12: 2x6 SP No.1

REACTIONS. (size) 12=0-3-8, 6=0-3-8 Max Horz 12=-59(LC 13)

Max Uplift 12=-31(LC 8), 6=-11(LC 8) Max Grav 12=847(LC 1), 6=903(LC 1)

- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 1-12=-763/156, 1-2=-2060/281, 2-4=-2060/281, 4-5=-2380/369, 5-6=-1400/198

BOT CHORD 9-11=-278/2378, 8-9=-104/1101, 6-8=-99/1111

1-11=-273/1998, 2-11=-369/149, 5-9=-183/1359, 4-9=-303/134, 4-11=-332/90 WEBS

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 18-9-8, Exterior(2) 18-9-8 to 22-4-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 6.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

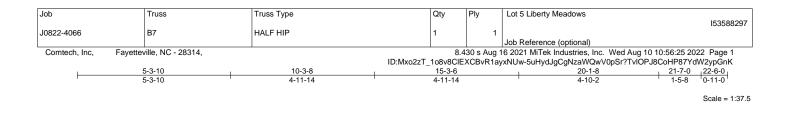
except end verticals, and 2-0-0 oc purlins (4-10-13 max.): 1-5.

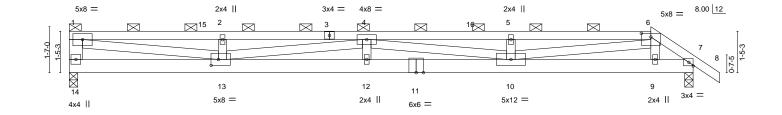
Rigid ceiling directly applied or 10-0-0 oc bracing.

August 11,2022

rameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. 🛕 WARNING - Verify design pa Design valid for use only with MTek® connectors. This down the seed only upon parameters show, 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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabrication, storage, delivery, erection and bracing of truss systems, see **ANSUTPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





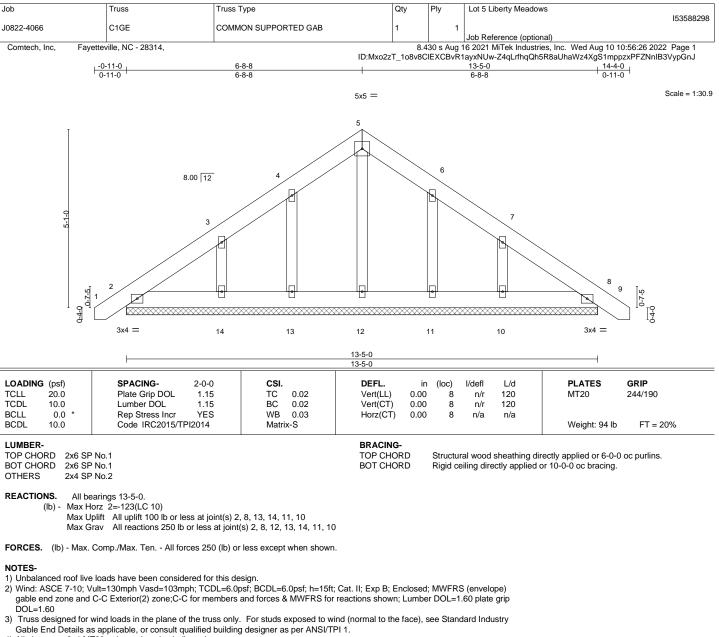


L	5-3-10	1	10-3-8		5-3-6			20-1-8	21-7-0
	5-3-10		4-11-14	4-	11-14		1	4-10-2	1-5-8
Plate Offsets (X,Y)-	- [6:0-4-0,0-1-9], [13:0-3-0,0	J-2-8]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in ((loc) l/	/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.45	Vert(LL)			891 360	MT20	244/190
CDL 10.0	Lumber DOL	1.15	BC 0.70	Vert(CT)	-0.57 10		445 240		
3CLL 0.0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.05		n/a n/a		
BCDL 10.0	Code IRC2015/TPI	12014	Matrix-S	Wind(LL)	0.19	12 >	999 240	Weight: 119 lb	FT = 20%
UMBER-				BRACING-					
	SP No.1			TOP CHOR		structural	wood sheathing	directly applied or 4-11-3	oc purlins,
BOT CHORD 2x6	SP No.1				e	xcept en	d verticals, and 2	-0-0 oc purlins (3-1-4 ma	ix.): 1-6.
	SP No.2 *Except*			BOT CHOR	D R	ligid ceili	ng directly applied	d or 10-0-0 oc bracing.	
1-14	4: 2x6 SP No.1								
REACTIONS. (size) 14=0-3-8, 7=0-3-8								
	x Horz 14=-37(LC 13)								
	x Uplift 14=-31(LC 8), 7=-21(L								
Ma	x Grav 14=847(LC 1), 7=914	(LC 1)							
ORCES (Ib) - M	ax. Comp./Max. Ten All forc	es 250 (lb) or	less excent when shown						
	14=-706/138, 1-2=-2910/386,								
	7=-1560/199		-, ,	,					
BOT CHORD 13	3-14=-9/310, 12-13=-507/4180	0, 10-12=-507/	4180, 9-10=-123/1192, 7	-9=-118/1230					
	13=-341/2655, 4-13=-1298/19	98, 4-10=-907/	121, 6-10=-310/2149, 6-	9=0/325,					
2-	13=-288/124, 5-10=-290/134								
NOTES-									
	0; Vult=130mph Vasd=103mp	h· TCDI =6.0p	sf: BCDI =6 0psf: h=15ft	Cat II: Exp B: En	closed: M	WERS (envelone)		
	(2) 0-2-12 to 4-7-9, Interior(1)								
	tions shown; Lumber DOL=1.0								
) Provide adequate	e drainage to prevent water po	onding.						24-20-204 640	0.0000
		44 m m m m m m m m m m m m m m m m m m			-				A ADA DE LOT

- 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) 14, 7.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



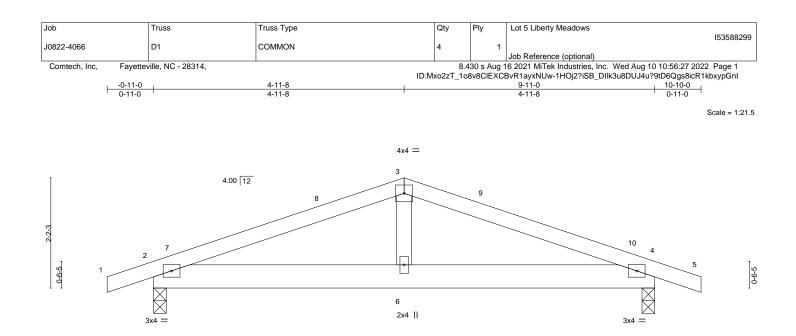




- All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







	↓ <u>4-11</u> 4-11								
_OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
ICLL 20.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL)	-0.01	6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT)	-0.02	6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT)	0.00	4	n/a	n/a		
3CDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.02	2-6	>999	240	Weight: 44 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 2=0-3-0, 4=0-3-0 Max Horz 2=-19(LC 17)

Max Uplift 2=-124(LC 8), 4=-124(LC 9)

Max Grav 2=449(LC 1), 4=449(LC 1)

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

TOP CHORD 2-3=-653/587, 3-4=-653/587

BOT CHORD 2-6=-485/562, 4-6=-485/562

NOTES-

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

 Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 4-11-8, Exterior(2) 4-11-8 to 9-4-5, Interior(1) 9-4-5 to 10-10-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 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) except (jt=lb) 2=124, 4=124.

6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

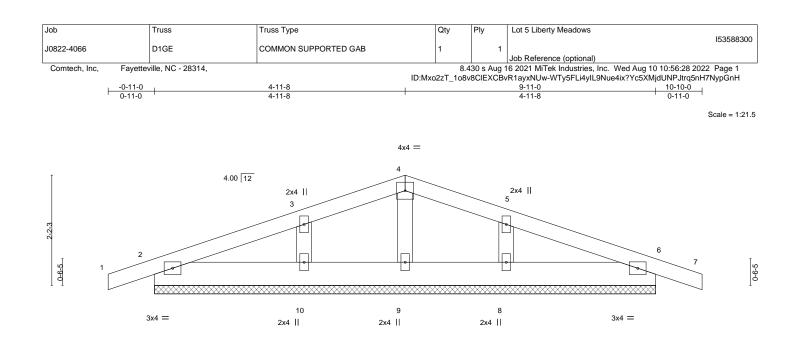


Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

August 11,2022





OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL 20.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL)	0.00	6	n/r	120	MT20	244/190
CDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT)	0.00	6	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S						Weight: 46 lb	FT = 20%

TOP CHORD

BOT CHORD

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

REACTIONS. All bearings 9-11-0

Max Horz 2=-33(LC 13) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8

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

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DDL=1.60 June grip DDL=1.60 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry

- Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.

5) Gable studs spaced at 2-0-0 oc. 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide

will fit between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8. 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6.

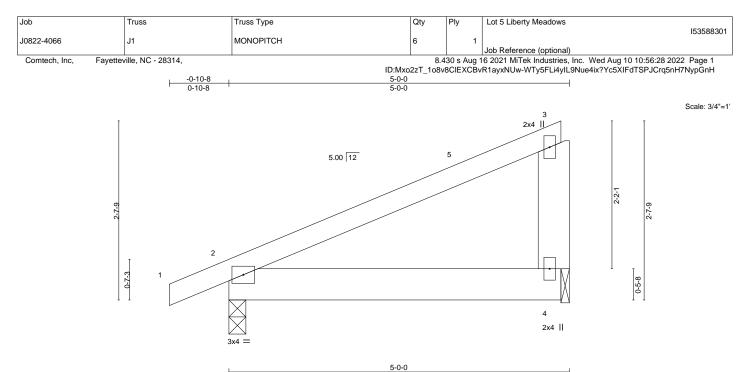
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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





LOADING	G (psf)	SPACING- 2-0	-0 CSI .		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.	5 TC	0.28	Vert(LL)	-0.01	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.	5 BC	0.08	Vert(CT)	-0.01	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr YE	S WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TPI201	4 Matr	ix-P	Wind(LL)	0.01	2-4	>999	240	Weight: 25 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SP No.1BOT CHORD2x6 SP No.1WEBS2x6 SP No.1

REACTIONS. (size) 2=0-3-0, 4=0-1-8

Max Horz 2=62(LC 12) Max Uplift 2=-45(LC 8), 4=-41(LC 8) Max Grav 2=252(LC 1), 4=179(LC 1)

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

NOTES-

 Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify

- capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

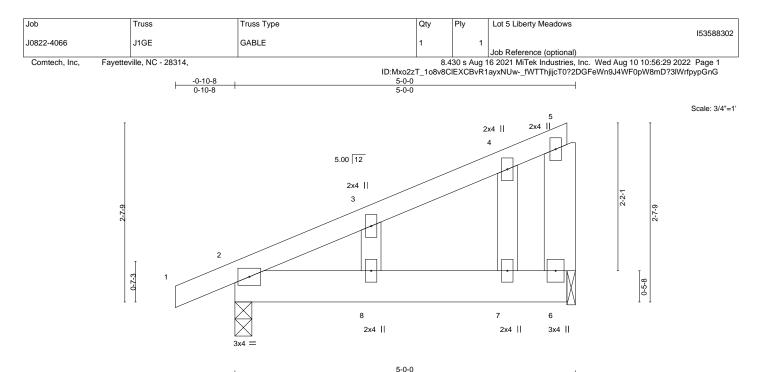


Structural wood sheathing directly applied or 5-0-0 oc purlins,

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

except end verticals.





LOADING (psf)	SPACING- 2-0-	0 CSI .	DEFL. in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.1	5 TC 0.07	Vert(LL) -0.01	8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.1	5 BC 0.09	Vert(CT) -0.01	8	>999	240		
BCLL 0.0 *	Rep Stress Incr YE	S WB 0.01	Horz(CT) -0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.01	8	>999	240	Weight: 29 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-0, 6=0-1-8

Max Horz 2=90(LC 12) Max Uplift 2=-69(LC 8), 6=-63(LC 8)

Max Grav 2=252(LC 1), 6=179(LC 1)

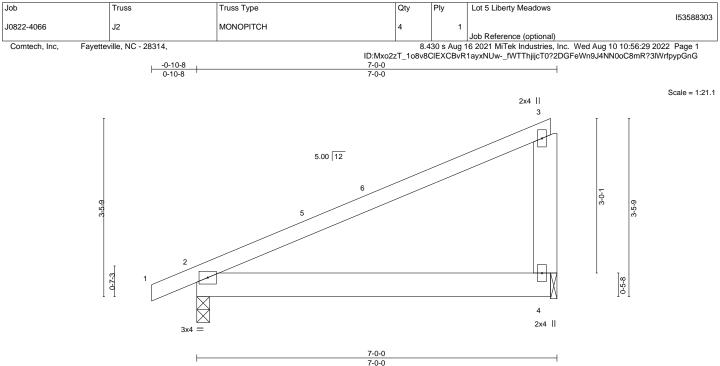
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2-0-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







LOADING	(nef)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
	· · ·							()				
TCLL	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.03	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.05	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-P	Wind(LL)	0.05	2-4	>999	240	Weight: 35 lb	FT = 20%

TOP CHORD2x4 SP No.1BOT CHORD2x6 SP No.1WEBS2x6 SP No.1

BRACING-TOP CHORD

 TOP CHORD
 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

REACTIONS. (size) 2=0-3-0, 4=0-1-8 Max Horz 2=85(LC 12)

Max Uplift 2=-55(LC 8), 4=-59(LC 8)

Max Grav 2=330(LC 1), 4=261(LC 1)

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

NOTES-

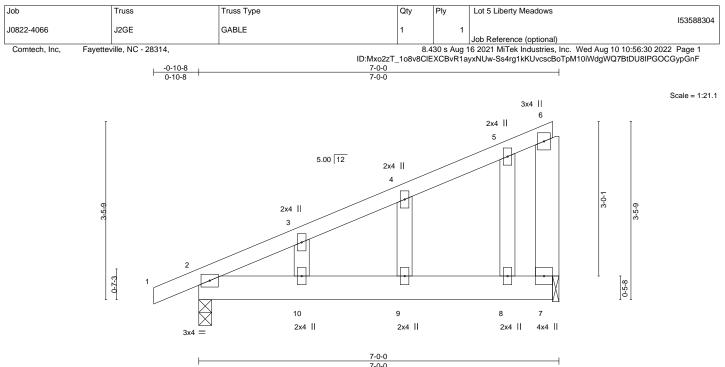
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 6-9-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.







SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
Plate Grip DOL 1.15	TC 0.17	Vert(LL) -0.02 9-10 >999 360	MT20 244/190
Lumber DOL 1.15	BC 0.19	Vert(CT) -0.05 9-10 >999 240	
Rep Stress Incr YES	WB 0.01	Horz(CT) -0.00 7 n/a n/a	
Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05 9-10 >999 240	Weight: 42 lb FT = 20%
	Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	Plate Grip DOL 1.15 TC 0.17 Lumber DOL 1.15 BC 0.19 Rep Stress Incr YES WB 0.01	Plate Grip DOL 1.15 TC 0.17 Vert(LL) -0.02 9-10 >999 360 Lumber DOL 1.15 BC 0.19 Vert(CT) -0.05 9-10 >999 240 Rep Stress Incr YES WB 0.01 Horz(CT) -0.00 7 n/a

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

BRACING-TOP CHORD

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

REACTIONS. (size) 2=0-3-0, 7=0-1-8 Max Horz 2=122(LC 12)

Max Uplift 2=-86(LC 8), 7=-91(LC 8) Max Grav 2=330(LC 1), 7=261(LC 1)

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

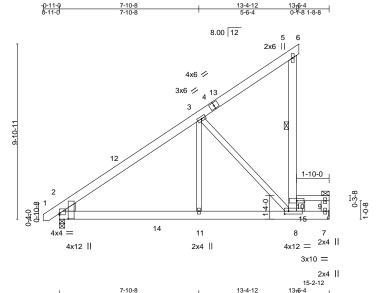
NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2-0-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 7 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) 7.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.









late Offsets (X,Y)	[2:0-3-10,0-5-15], [2:0-0-0	,0-0-15], [8:0-2	2-12,0-2-0]								
OADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL 20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.08	8-11	>999	360	MT20	244/190
CDL 10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.18	8-11	>999	240		
CLL 0.0 *	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.01	7	n/a	n/a		
CDL 10.0	Code IRC2015/TP	12014	Matrix	-S	Wind(LL)	0.07	8-11	>999	240	Weight: 123 lb	FT = 20%
9-10: 2	P 2400F 2.0E *Except* 2x4 SP No.1				BRACING- TOP CHOR	D	except 6-0-0 c	end verti c bracing	cals. Except p: 5-10		oc purlins,
	P No.1 *Except* 11: 2x4 SP No.2				BOT CHOR WEBS	D		eiling dire at midpt		or 10-0-0 oc bracing.	
/EDGE eft: 2x6 SP No.1								armopt			

REACTIONS. (size) 2=0-3-8, 7=Mechanical Max Horz 2=254(LC 12) Max Uplift 7=-39(LC 12) Max Grav 2=724(LC 19), 7=1197(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-845/0, 8-10=-533/109

BOT CHORD 2-11=-164/658, 8-11=-164/658

WEBS 3-8=-810/207, 7-9=-254/6, 3-11=0/540

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 13-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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) 7.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified.
- Building designer must review loads to verify that they are correct for the intended use of this truss.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses systems, see **ANSUTPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Scale = 1:61.2





Job	Truss	Truss Type	Qty	Ply	Lot 5 Liberty Meadows
					153588305
J0822-4066	M1	ROOF SPECIAL	9	1	
					Job Reference (optional)
Comtech, Inc, Fayettev	rille, NC - 28314,		8.4	30 s Aug 1	6 2021 MiTek Industries, Inc. Wed Aug 10 10:56:31 2022 Page 2

ID:Mxo2zT_108v8CIEXCBvR1ayxNUw-w2eEuNIzFDkjELNfN3ZFEk9IUqNMcUdIW3?ykiypGnE

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-60, 5-6=-60, 2-7=-20, 9-10=-40 Concentrated Loads (lb) Vert: 15=-500 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-50, 5-6=-50, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100 Concentrated Loads (Ib) Vert: 15=-438 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-5=-20, 5-6=-20, 2-7=-40, 9-10=-60 Concentrated Loads (lb) Vert: 15=-375 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=45, 2-12=26, 5-12=20, 5-6=45, 2-7=-12, 9-10=-32 Horz: 1-2=-57, 2-12=-38, 5-12=-32, 5-6=-57 Concentrated Loads (lb) Vert: 15=86 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=14, 2-13=20, 5-13=26, 5-6=20, 2-7=-12, 9-10=-32 Horz: 1-2=-26, 2-13=-32, 5-13=-38, 5-6=-32 Concentrated Loads (lb) Vert: 15=86 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=5, 2-5=-51, 5-6=5, 2-7=-20, 9-10=-40 Horz: 1-2=-25, 2-5=31, 5-6=-25 Concentrated Loads (lb) Vert: 15=-444 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-45, 2-5=-51, 5-6=-45, 2-7=-20, 9-10=-40 Horz: 1-2=25, 2-5=31, 5-6=25 Concentrated Loads (lb) Vert: 15=-444 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-0, 2-5=-13, 5-6=-18, 2-7=-12, 9-10=-32 Horz: 1-2=-12, 2-5=1, 5-6=6 Concentrated Loads (lb) Vert: 15=-115 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=1, 2-5=7, 5-6=20, 2-7=-12, 9-10=-32 Horz: 1-2=-13, 2-5=-19, 5-6=-32 Concentrated Loads (lb) Vert: 15=-32 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-26, 2-5=-32, 5-6=-26, 2-7=-20, 9-10=-40 Horz: 1-2=6, 2-5=12, 5-6=6 Concentrated Loads (Ib) Vert: 15=-325 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-7, 2-5=-12, 5-6=-7, 2-7=-20, 9-10=-40 Horz: 1-2=-13, 2-5=-8, 5-6=-13 Concentrated Loads (lb) Vert: 15=-285 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=9, 2-5=15, 5-6=9, 2-7=-12, 9-10=-32 Horz: 1-2=-21, 2-5=-27, 5-6=-21 Concentrated Loads (lb) Vert: 15=18 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-1, 2-5=5, 5-6=-1, 2-7=-12, 9-10=-32 Horz: 1-2=-11, 2-5=-17, 5-6=-11 Concentrated Loads (lb) Vert: 15=-44



Job	Truss	Truss Type	Qty	Ply	Lot 5 Liberty Meadows
J0822-4066	M1	ROOF SPECIAL	0	1	153588305
30822-4000		ROOF SFECIAL	5	· ·	Job Reference (optional)
Comtech, Inc,	Fayetteville, NC - 28314,		8.4	30 s Aug 1	6 2021 MiTek Industries, Inc. Wed Aug 10 10:56:31 2022 Page 3

ID:Mxo2zT_1o8v8CIEXCBvR1ayxNUw-w2eEuNIzFDkjELNfN3ZFEk9IUqNMcUdIW3?ykiypGnE

LOAD CASE(S) Standard

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=9, 2-5=15, 5-6=9, 2-7=-12, 9-10=-32 Horz: 1-2=-21, 2-5=-27, 5-6=-21 Concentrated Loads (lb) Vert: 15=18 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-1, 2-5=5, 5-6=-1, 2-7=-12, 9-10=-32 Horz: 1-2=-11, 2-5=-17, 5-6=-11 Concentrated Loads (lb) Vert: 15=-44 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=1, 2-5=-4, 5-6=1, 2-7=-20, 9-10=-40 Horz: 1-2=-21, 2-5=-16, 5-6=-21 Concentrated Loads (lb) Vert: 15=-285 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-9, 2-5=-14, 5-6=-9, 2-7=-20, 9-10=-40 Horz: 1-2=-11, 2-5=-6, 5-6=-11 Concentrated Loads (lb) Vert: 15=-285 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-5=-20, 5-6=-20, 2-14=-20, 11-14=-80, 7-11=-20, 9-10=-120 Concentrated Loads (lb) Vert: 15=-250 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-55, 2-5=-59, 5-6=-55, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100 Horz: 1-2=5, 2-5=9, 5-6=5 Concentrated Loads (Ib) Vert: 15=-494 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-40, 2-5=-44, 5-6=-40, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100 Horz: 1-2=-10, 2-5=-6, 5-6=-10 Concentrated Loads (lb) Vert: 15=-464 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-34, 2-5=-38, 5-6=-34, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100 Horz: 1-2=-16, 2-5=-12, 5-6=-16 Concentrated Loads (lb) Vert: 15=-464 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-41, 2-5=-46, 5-6=-41, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100 Horz: 1-2=-9, 2-5=-4, 5-6=-9 Concentrated Loads (lb) Vert: 15=-464 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-60, 5-6=-60, 2-7=-20, 9-10=-40 Concentrated Loads (Ib) Vert: 15=-500 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-20, 5-6=-20, 2-7=-20, 9-10=-40 Concentrated Loads (lb) Vert: 15=-250 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-50, 5-6=-50, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100 Concentrated Loads (lb) Vert: 15=-438 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-20, 5-6=-20, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100

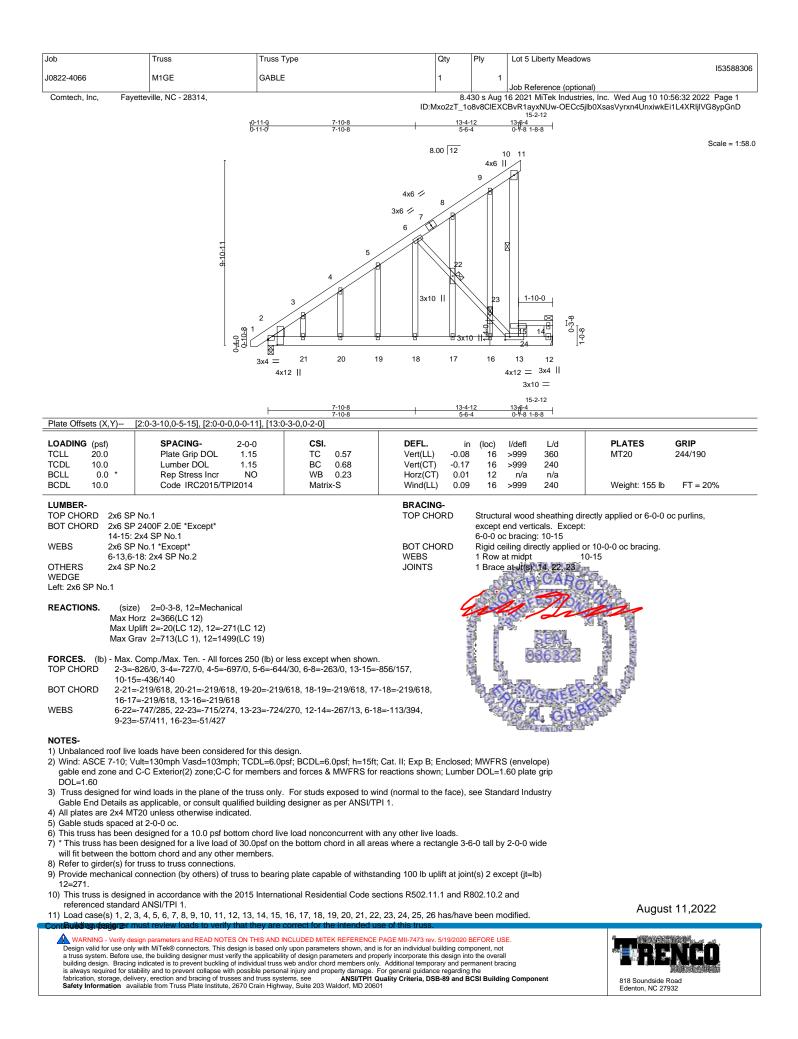


Job	Truss	Truss Type	Qty	Ply	Lot 5 Liberty Meadows
J0822-4066	M1	ROOF SPECIAL	q	1	153588305
10022 4000			Ŭ		Job Reference (optional)
Comtech, Inc, Fayettev	ville, NC - 28314,				6 2021 MiTek Industries, Inc. Wed Aug 10 10:56:31 2022 Page 4
		ID:Mxo2	2zT_1o8v8	CIEXCBvF	AlayxNUw-w2eEuNIzFDkjELNfN3ZFEk9IUqNMcUdIW3?ykiypGnE

LOAD CASE(S) Standard Concentrated Loads (Ib)

Vert: 15=-250





lob	Truss	Truss Type	Qty	Ply	Lot 5 Liberty Meadows					
Job					Lot 5 Liberty Meadows	153588306				
J0822-4066	M1GE	GABLE	1	1	Job Reference (optional)					
13) Graphical purlin repres14) Hanger(s) or other cor	ID:Mxo2zT_1o8v8CIEXCBvR1ayxNUw-OECc5jlb0XsasVyrxn4UnxiwkEi1L4XRIjIVG8ypGnD									
LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-10=-60, 10-11=-60, 2-13=-20, 12-13=-236, 14-15=-40 Concentrated Loads (lb) Vert: 24=-500 2) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-10=-50, 10-11=-50, 2-13=-20, 12-13=-209, 14-15=-100 Concentrated Loads (lb) Vert: 24=-438 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-10=-20, 10-11=-20, 2-13=-40, 12-13=-202, 14-15=-60 Concentrated Loads (plf) Vert: 24=-375 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 24=-45, 2-10=-26, 10-11=45, 2-13=-22, 14-15=-32										
Vert: 1-2=45, 2-10=26, 10-11=45, 2-13=-12, 12-13=25, 14-15=-32 Horz: 1-2=-57, 2-10=-38, 10-11=-57 Concentrated Loads (lb) Vert: 24=86 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-02, 2-10=-26, 10-11=20, 2-13=-12, 12-13=25, 14-15=-32 Horz: 1-2=-32, 2-10=-38, 10-11=-32 Concentrated Loads (lb) Vert: 24=86 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=5, 2-10=-51, 10-11=5, 2-13=-20, 12-13=-212, 14-15=-40										
Concentrated Loads (lb Vert: 24=-444 7) Dead + 0.6 C-C Wind (l Uniform Loads (plf) Vert: 1-2=-45, 2 Horz: 1-2=25, 2 Concentrated Loads (lb Vert: 24=-444 8) Dead + 0.6 MWFRS WU Uniform Loads (plf) Vert: 1-2=-2, 2-	Horz: 1-2=-25, 2-10=31, 10-11=-25 Concentrated Loads (lb) Vert: 24=-444 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-45, 2-10=-51, 10-11=-45, 2-13=-20, 12-13=-212, 14-15=-40 Horz: 1-2=25, 2-10=-31, 10-11=-25 Concentrated Loads (lb) Vert: 24=-444 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60									
Uniform Loads (plf) Vert: 1-2=4, 2- Horz: 1-2=-16, Concentrated Loads (lb Vert: 24=-13	10=10, 10-11=23, 2-13=-12, 7 2-10=-22, 10-11=-35)									
 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-8, 2-10=-34, 10-11=-28, 2-13=-20, 12-13=-166, 14-15=-40 Horz: 1-2=8, 2-10=14, 10-11=-8 Concentrated Loads (lb) Vert: 24=-337 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-4, 2-10=-9, 10-11=-4, 2-13=-20, 12-13=-143, 14-15=-40 										
Concentrated Loads (Vert: 24=-285 12) Dead + 0.6 MWFRS W Uniform Loads (plf) Vert: 1-2=21, Horz: 1-2=-33 Concentrated Loads (Vert: 24=92	/ind (Pos. Internal) 1st Parall 2-10=27, 10-11=21, 2-13=-1: , 2-10=-39, 10-11=-33 b)	el: Lumber Increase=1.60, Plate Incre 2, 12-13=28, 14-15=-32 lel: Lumber Increase=1.60, Plate Incr								



Job	Truss	Truss Type	Qty	Ply	Lot 5 Liberty Meadows
					153588306
J0822-4066	M1GE	GABLE	1	1	
					Job Reference (optional)
Comtech, Inc, Fayetteville, NC - 28314,			8.4	30 s Aug 1	6 2021 MiTek Industries, Inc. Wed Aug 10 10:56:32 2022 Page 3

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:32 2022 Page 3 ID:Mxo2zT_108v8CIEXCBvR1ayxNUw-OECc5jlb0XsasVyrxn4UnxiwkEi1L4XRIjIVG8ypGnD

LC	DAD CASE(S) Standard
	Uniform Loads (plf)
	Vert: 1-2=4, 2-10=10, 10-11=4, 2-13=-12, 12-13=-18, 14-15=-32 Horz: 1-2=-16, 2-10=-22, 10-11=-16
	Concentrated Loads (lb)
	Vert: 24=-13
14	b) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
	Uniform Loads (plf)
	Vert: 1-2=21, 2-10=27, 10-11=21, 2-13=-12, 12-13=28, 14-15=-32 Horz: 1-2=-33, 2-10=-39, 10-11=-33
	Concentrated Loads (lb)
	Vert: 24=92
15	i) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
	Uniform Loads (plf)
	Vert: 1-2=4, 2-10=10, 10-11=4, 2-13=-12, 12-13=-18, 14-15=-32
	Horz: 1-2=-16, 2-10=-22, 10-11=-16 Concentrated Loads (lb)
	Vert 24-13
16	i) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
	Uniform Loads (plf)
	Vert: 1-2=13, 2-10=8, 10-11=13, 2-13=-20, 12-13=-143, 14-15=-40
	Horz: 1-2=-33,2-10=-28, 10-11=-33
	Concentrated Loads (lb) Vert: 24=-285
17) Dead + 0.6 MVFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
	Uniform Loads (plf)
	Vert: 1-2=-4, 2-10=-9, 10-11=-4, 2-13=-20, 12-13=-143, 14-15=-40
	Horz: 1-2=-16, 2-10=-11, 10-11=-16
	Concentrated Loads (lb) Vert: 24=-285
18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
	Uniform Loads (plf)
	Vert: 1-10=-20, 10-11=-20, 2-13=-20, 12-13=-128, 14-15=-120
	Concentrated Loads (lb)
10	Vert: 24=-250) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
13	Uniform Loads (plf)
	Vert: 1-2=-56, 2-10=-60, 10-11=-56, 2-13=-20, 12-13=-237, 14-15=-100
	Horz: 1-2=6, 2-10=10, 10-11=6
	Concentrated Loads (lb)
20	Vert: 24=-503) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
	Uniform Loads (bif)
	Vert: 1-2=-38, 2-10=-42, 10-11=-38, 2-13=-20, 12-13=-220, 14-15=-100
	Horz: 1-2=-12, 2-10=-8, 10-11=-12
	Concentrated Loads (lb) Vert: 24=-464
21) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
	Uniform Loads (plf)
	Vert: 1-2=-25, 2-10=-29, 10-11=-25, 2-13=-20, 12-13=-220, 14-15=-100
	Horz: 1-2=-25, 2-10=-21, 10-11=-25
	Concentrated Loads (lb) Vert: 24=-464
22) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate
	Increase=1.60
	Uniform Loads (plf)
	Vert: 1-2=-38, 2-10=-42, 10-11=-38, 2-13=-20, 12-13=-220, 14-15=-100
	Horz: 1-2=-12, 2-10=-8, 10-11=-12 Concentrated Loads (lb)
	Vert: 24=-464
23	b) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
	Uniform Loads (plf)
	Vert: 1-10=-60, 10-11=-60, 2-13=-20, 12-13=-236, 14-15=-40
	Concentrated Loads (lb) Vert: 24=-500
24) 2nd Dead + Root Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
	Uniform Loads (plf)
	Vert: 1-10=-20, 10-11=-20, 2-13=-20, 12-13=-128, 14-15=-40
	Concentrated Loads (lb)
25	Vert: 24=-250) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
20	Uniform Loads (blf)
	Vert: 1-10=-50, 10-11=-50, 2-13=-20, 12-13=-209, 14-15=-100
	Concentrated Loads (lb)
	Vert: 24=-438

inued on page

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

WARTING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters 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 buckling of individual truss evel and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent ouclings with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, rerection and bracing of trusses systems, see **ANSUTPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

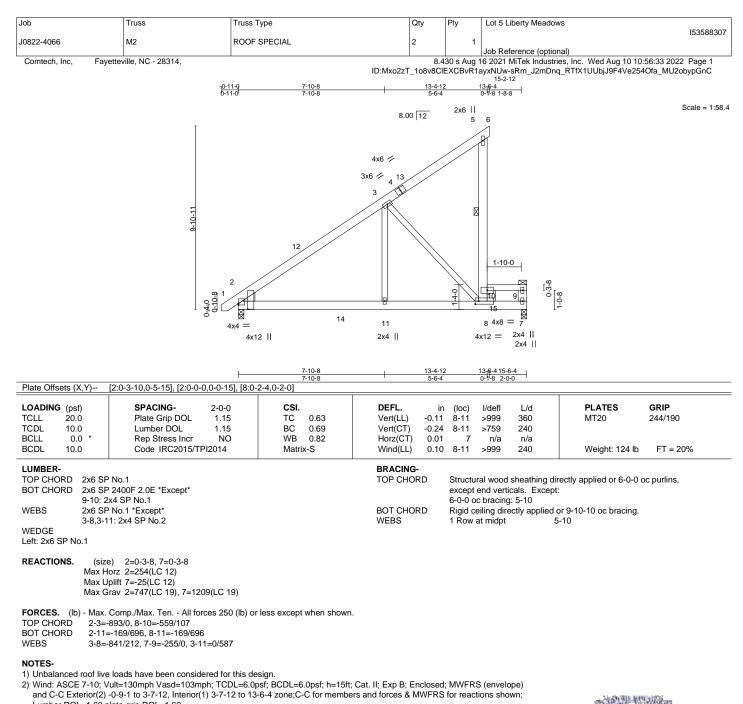


ſ	Job	Truss	Truss Type	Qty	Ply	Lot 5 Liberty Meadows		
	J0822-4066	M1GE	GABLE	1	1	153588306		
	30022-4000	MIGE	GABLE			Job Reference (optional)		
	Comtech, Inc, Fayettev	rille, NC - 28314,				6 2021 MiTek Industries, Inc. Wed Aug 10 10:56:32 2022 Page 4		
			ID:Mxo2zT_1o8v8ClEXCBvR1ayxNUw-OECc5jlb0XsasVyrxn4UnxiwkEi1L4XRljlVG8ypGnD					

LOAD CASE(S) Standard Uniform Loads (plf)

Vert: 1-10=-20, 10-11=-20, 2-13=-20, 12-13=-128, 14-15=-100 Concentrated Loads (lb) Vert: 24=-250





- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7.
 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design in 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of truss systems, see **ANSUTPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

August 11,2022



Job	Truss	Truss Type	Qty	Ply	Lot 5 Liberty Meadows
					153588307
J0822-4066	M2	ROOF SPECIAL	2	1	
					Job Reference (optional)
Comtech, Inc, Fayettev	ille, NC - 28314,		8.4	30 s Aug 1	6 2021 MiTek Industries, Inc. Wed Aug 10 10:56:33 2022 Page 2

ID:Mxo2zT_108v8CIEXCBvR1ayxNUw-sRm_J2mDnq_RTfX1UUbjJ9F4Ve254Ofa_MU2obypGnC

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-60, 5-6=-60, 2-7=-20, 9-10=-40 Concentrated Loads (lb) Vert: 15=-500 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-50, 5-6=-50, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100 Concentrated Loads (Ib) Vert: 15=-438 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-5=-20, 5-6=-20, 2-7=-40, 9-10=-60 Concentrated Loads (lb) Vert: 15=-375 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=45, 2-12=26, 5-12=20, 5-6=45, 2-7=-12, 9-10=-32 Horz: 1-2=-57, 2-12=-38, 5-12=-32, 5-6=-57 Concentrated Loads (lb) Vert: 15=86 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=14, 2-13=20, 5-13=26, 5-6=20, 2-7=-12, 9-10=-32 Horz: 1-2=-26, 2-13=-32, 5-13=-38, 5-6=-32 Concentrated Loads (lb) Vert: 15=86 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=5, 2-5=-51, 5-6=5, 2-7=-20, 9-10=-40 Horz: 1-2=-25, 2-5=31, 5-6=-25 Concentrated Loads (lb) Vert: 15=-444 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-45, 2-5=-51, 5-6=-45, 2-7=-20, 9-10=-40 Horz: 1-2=25, 2-5=31, 5-6=25 Concentrated Loads (lb) Vert: 15=-444 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-0, 2-5=-13, 5-6=-18, 2-7=-12, 9-10=-32 Horz: 1-2=-12, 2-5=1, 5-6=6 Concentrated Loads (lb) Vert: 15=-115 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=1, 2-5=7, 5-6=20, 2-7=-12, 9-10=-32 Horz: 1-2=-13, 2-5=-19, 5-6=-32 Concentrated Loads (lb) Vert: 15=-32 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-26, 2-5=-32, 5-6=-26, 2-7=-20, 9-10=-40 Horz: 1-2=6, 2-5=12, 5-6=6 Concentrated Loads (Ib) Vert: 15=-325 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-7, 2-5=-12, 5-6=-7, 2-7=-20, 9-10=-40 Horz: 1-2=-13, 2-5=-8, 5-6=-13 Concentrated Loads (lb) Vert: 15=-285 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=9, 2-5=15, 5-6=9, 2-7=-12, 9-10=-32 Horz: 1-2=-21, 2-5=-27, 5-6=-21 Concentrated Loads (lb) Vert: 15=18 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-1, 2-5=5, 5-6=-1, 2-7=-12, 9-10=-32 Horz: 1-2=-11, 2-5=-17, 5-6=-11 Concentrated Loads (lb) Vert: 15=-44



Job	Truss	Truss Type	Qty	Ply	Lot 5 Liberty Meadows
J0822-4066	M2	ROOF SPECIAL	2	1	153588307
30822-4000	IVIZ.	ROOF SPECIAL	2		Job Reference (optional)
Comtech, Inc, Fayettev	rille, NC - 28314,		8.4	30 s Aug 1	6 2021 MiTek Industries, Inc. Wed Aug 10 10:56:33 2022 Page 3

ID:Mxo2zT_108v8CIEXCBvR1ayxNUw-sRm_J2mDnq_RTfX1UUbjJ9F4Ve254Ofa_MU2obypGnC

LOAD CASE(S) Standard

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=9, 2-5=15, 5-6=9, 2-7=-12, 9-10=-32 Horz: 1-2=-21, 2-5=-27, 5-6=-21 Concentrated Loads (Ib) Vert: 15=18 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-1, 2-5=5, 5-6=-1, 2-7=-12, 9-10=-32 Horz: 1-2=-11, 2-5=-17, 5-6=-11 Concentrated Loads (lb) Vert: 15=-44 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=1, 2-5=-4, 5-6=1, 2-7=-20, 9-10=-40 Horz: 1-2=-21, 2-5=-16, 5-6=-21 Concentrated Loads (Ib) Vert: 15=-285 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-9, 2-5=-14, 5-6=-9, 2-7=-20, 9-10=-40 Horz: 1-2=-11, 2-5=-6, 5-6=-11 Concentrated Loads (lb) Vert: 15=-285 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-5=-20, 5-6=-20, 2-14=-20, 11-14=-80, 7-11=-20, 9-10=-120 Concentrated Loads (lb) Vert: 15=-250 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-55, 2-5=-59, 5-6=-55, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100 Horz: 1-2=5, 2-5=9, 5-6=5 Concentrated Loads (Ib) Vert: 15=-494 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-40, 2-5=-44, 5-6=-40, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100 Horz: 1-2=-10, 2-5=-6, 5-6=-10 Concentrated Loads (lb) Vert: 15=-464 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-34, 2-5=-38, 5-6=-34, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100 Horz: 1-2=-16, 2-5=-12, 5-6=-16 Concentrated Loads (lb) Vert: 15=-464 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-41, 2-5=-46, 5-6=-41, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100 Horz: 1-2=-9, 2-5=-4, 5-6=-9 Concentrated Loads (lb) Vert: 15=-464 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-60, 5-6=-60, 2-7=-20, 9-10=-40 Concentrated Loads (Ib) Vert: 15=-500 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-20, 5-6=-20, 2-7=-20, 9-10=-40 Concentrated Loads (lb) Vert: 15=-250 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-50, 5-6=-50, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100 Concentrated Loads (lb) Vert: 15=-438 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-20, 5-6=-20, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100

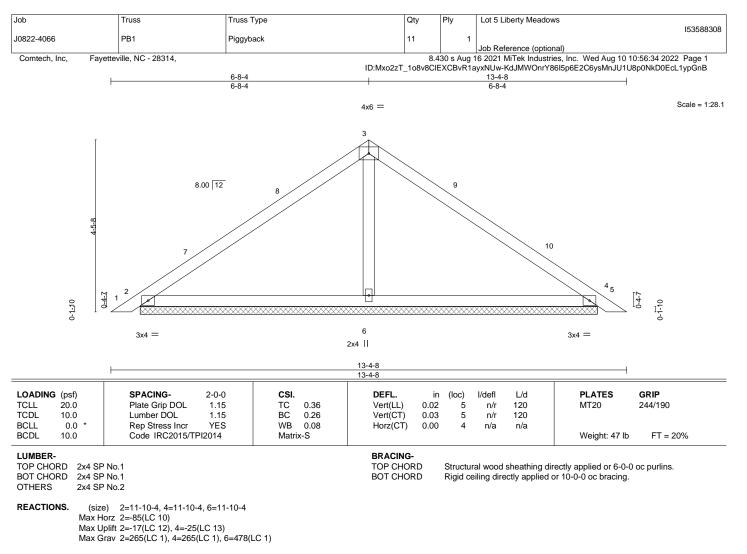


Job	Truss	Truss Type	Qty	Ply	Lot 5 Liberty Meadows
10822-4066	M2	ROOF SPECIAL	2	1	153588307
			_		Job Reference (optional)
Comtech, Inc, Fayettev	rille, NC - 28314,				6 2021 MiTek Industries, Inc. Wed Aug 10 10:56:33 2022 Page 4
		ID:Mxo2z	[_108v8Cl	EXCBvR1a	ayxNUw-sRm_J2mDnq_RTfX1UUbjJ9F4Ve254Ofa_MU2obypGnC

LOAD CASE(S) Standard Concentrated Loads (Ib)

Vert: 15=-250





FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-6=-294/85

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-2 to 4-7-15, Interior(1) 47-15 to 6-8-4, Exterior(2) 6-8-4 to 11-1-1, Interior(1) 11-1-1 to 13-1-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

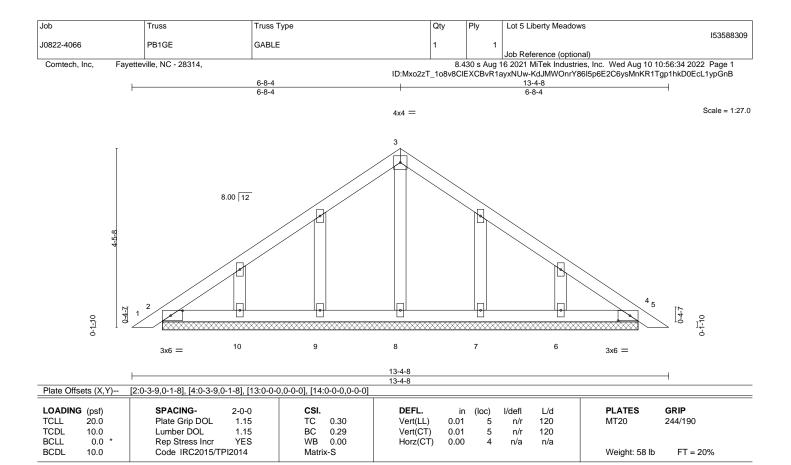
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

A) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.







BRACING-

TOP CHORD

BOT CHORD

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

LUMBER-

REACTIONS. All bearings 11-10-4.

(lb) - Max Horz 2=-106(LC 10)

2x4 SP No.1

Max Uplift All uplift 100 lb or less at joint(s) 2, 4, 10, 6 Max Grav All reactions 250 lb or less at joint(s) 8, 9, 10, 7, 6 except 2=307(LC 1), 4=307(LC 1)

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

TOP CHORD 2-3=-408/154, 3-4=-408/154

2-10=-43/254, 9-10=-43/254, 8-9=-43/254, 7-8=-43/254, 6-7=-43/254, 4-6=-43/254 BOT CHORD

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 10, 6. 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

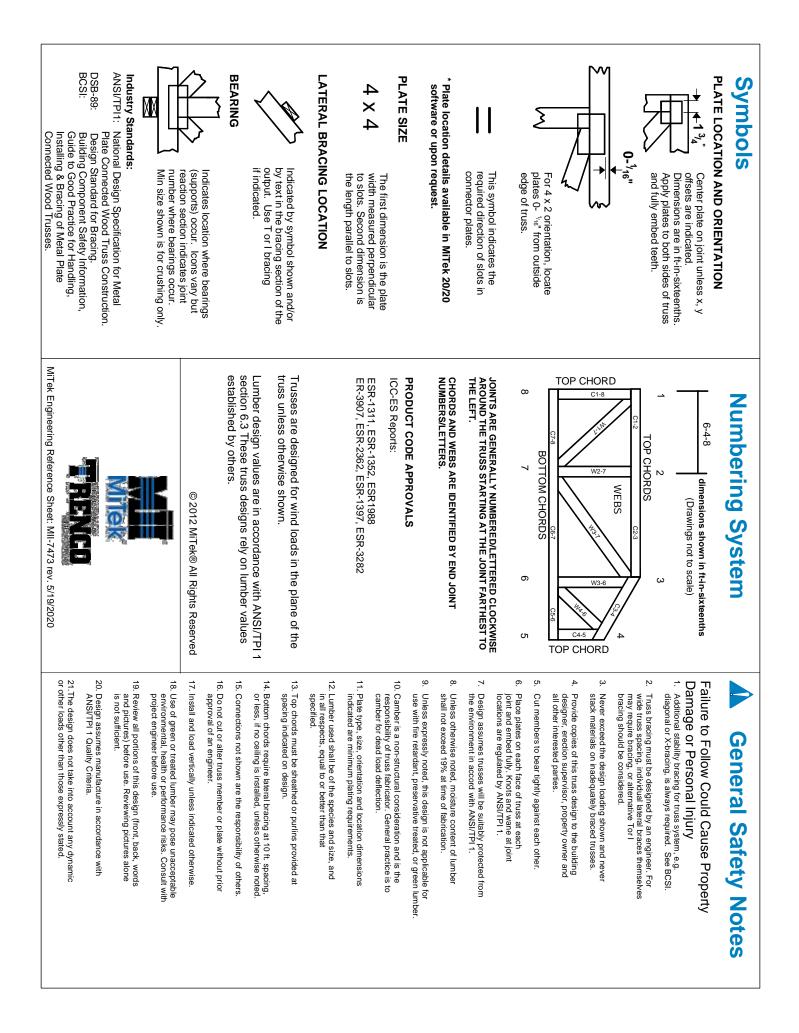


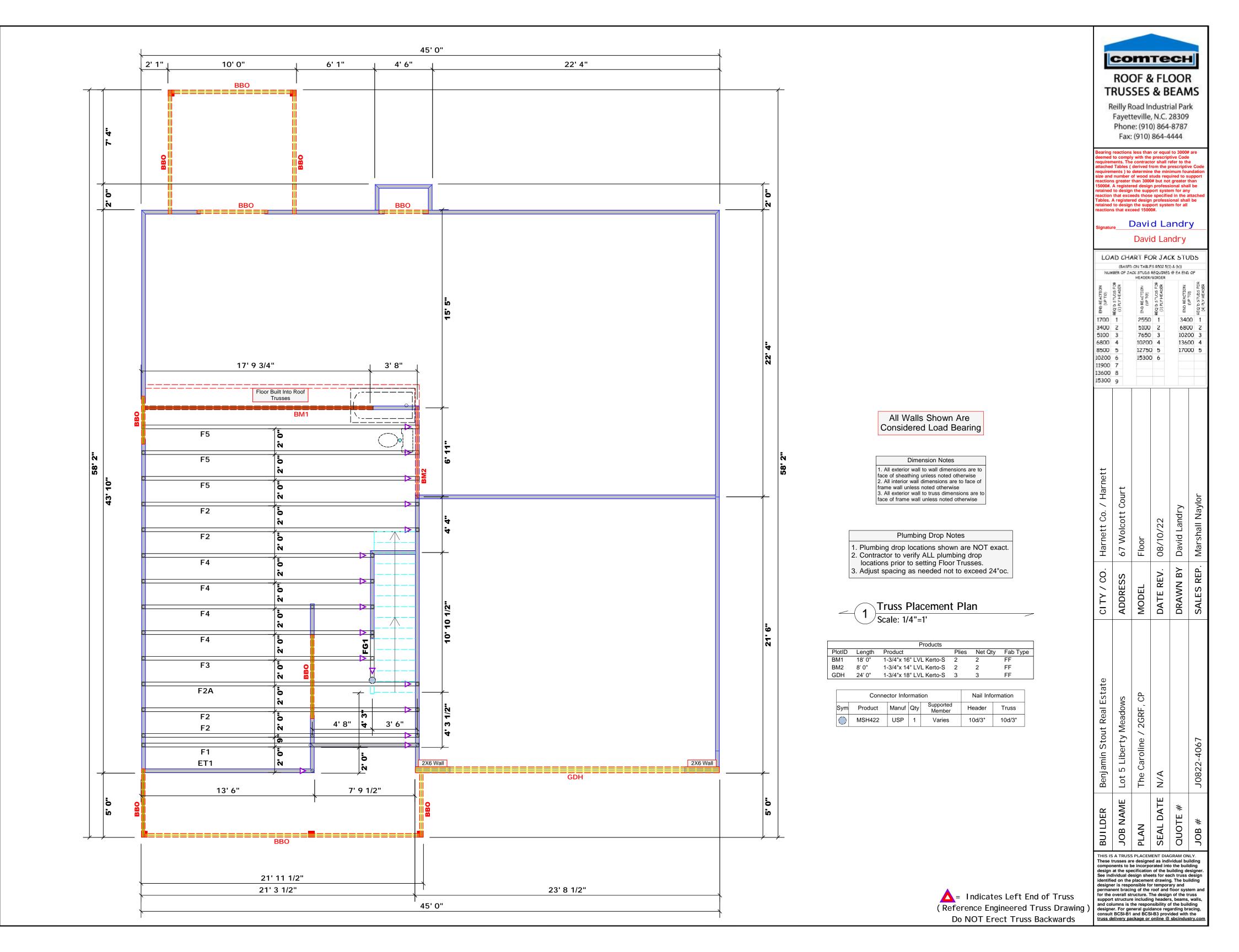
Structural wood sheathing directly applied or 6-0-0 oc purlins.

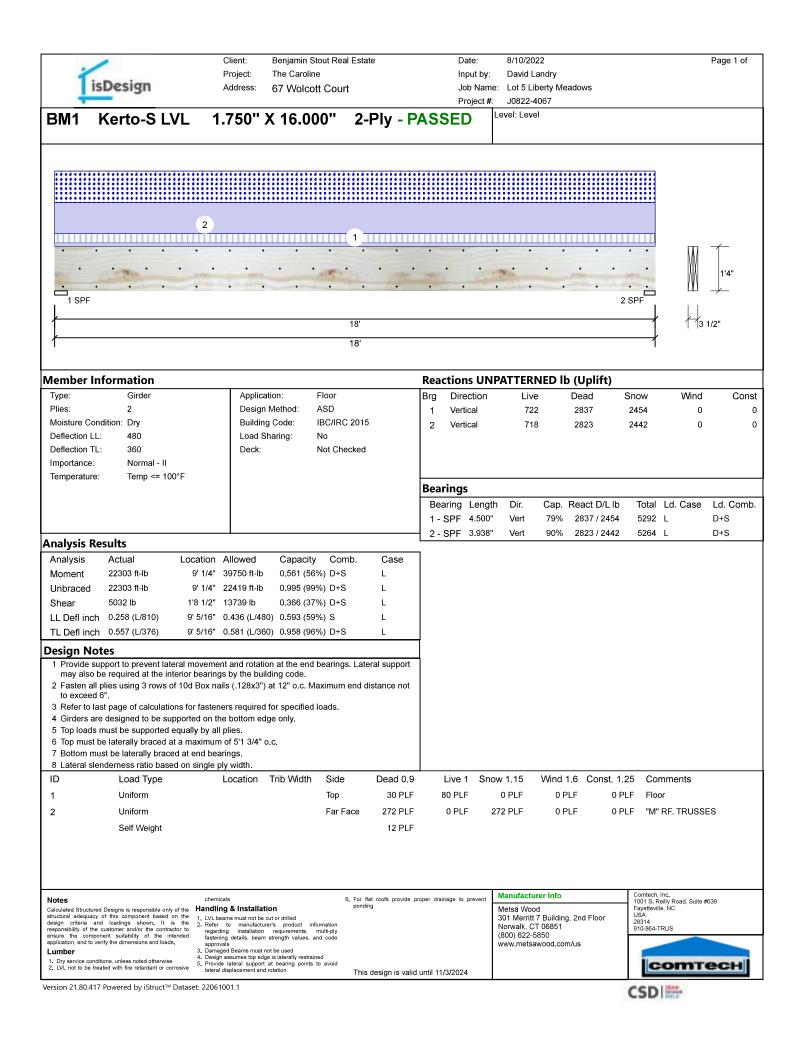
Rigid ceiling directly applied or 10-0-0 oc bracing.

August 11,2022









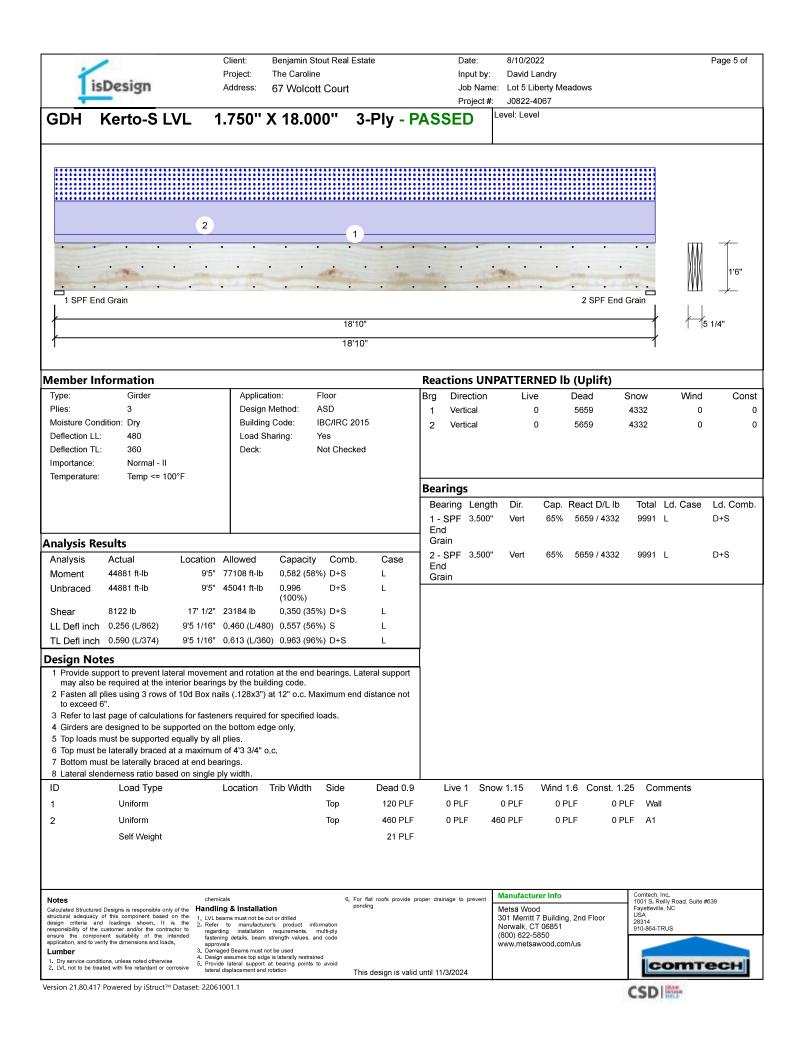
	/		njamin Stout Real E	state	Date:	8/10/2022	Page 2 of
1	isDesign	•	e Caroline Wolcott Court		Input by: Job Name	David Landry e: Lot 5 Liberty Meadows	
					Project #:	J0822-4067 Level: Level	
BM1	Kerto-S LVL	1.750" X 1	6.000"	2-Ply - PASS	SED		
	• • •	• • •	• •	• • •	•	• • • •	
· ·	• • •		• •	• • •	•••		·
	•••	• • •	•••	• • •	•	••••	
			1	8'			
/			1				
Multi-Ply	/ Analysis						
	plies using 3 rows o		8x3") at 12" o.	c Maximum end d	listance n	ot to exceed 6".	
Capacity Load		5.3 % 2.0 PLF					
Yield Limit pe Yield Limit pe		2.4 PLF . 1 lb.					
Yield Mode	IV						
Edge Distand Min. End Dist		1/2"					
Load Combin Duration Fac	nation D-	+S					
						Manufacturer Info	Comtech Inc
Notes Calculated Struct	tured Designs is responsible only of the	chemicals Handling & Installation	1	For flat roofs provide proper drain bonding	age to prevent	Metsä Wood	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA
design criteria responsibility of t	acy of this component based on the and loadings shown. It is the the customer and/or the contractor to	regarding installation requ	roduct information irements, multi-ply			301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622 5850	28314 910-864-TRUS
ensure the con application, and to Lumber	mponent suitability of the intended o verify the dimensions and loads.	fastening details, beam streng approvals 3. Damaged Beams must not be u	th values, and code sed			(800) 622-5850 www.metsawood.com/us	
1. Dry service co	onditions, unless noted otherwise a treated with fire retardant or corrosive	 Design assumes top edge is late Provide lateral support at bear lateral displacement and rotation 	ring points to avoid	This design is valid until 11/3	3/2024		соттесн
Version 21.80 /	417 Powered by iStruct™ Datas	at: 220610011			·		

Version 21.80.417 Powered by iStruct™ Dataset: 22061001.1

	/	Client Projec	,	in Stout Real	Estate		Date		10/2022 avid Landr	.,				Page 3 of
Ti	sDesign	Addre		lcott Court			•	Name: Lo		-				
-									822-4067					
B M 2	Kerto-S LV	L 1.75	0" X 13.	000"	2-Ply - F	PAS	SED	Level	: Level					
	2			3										
		1												
•		·	•		•	•							M	
•	C.C.Min		-	-	•	-							MA	1'1"
	•			•	•	•							V V V	<u> </u>
1 SPF					2 SPF									/
		7'2 1											.1 .1	3 1/2"
I		7'2 1	72"			I								
/ember li	nformation					Rea	ctions	UNPAT	TERNE) lb (Up	lift)			
Type:	Girder		pplication:	Floor		Brg	Direct		Live	Dead		Snow	Wind	Con
Plies: Moisture Co	2 ndition: Dry		esign Method: uilding Code:	ASD IBC/IRC 2	2015	1	Vertica Vertica		1254 1254	1680 1680		793 793	0 0	
Deflection L	L: 480		oad Sharing:	No							, 		· ·	
Deflection T		D	eck:	Not Chec	ked									
Importance: Temperature	Normal - II e: Temp <= 100°F	=												
Tomporatare						Bea	rings							
						Bea	aring L	ength D)ir. Ca	ap. Reac	t D/L lb	Total	Ld. Case	Ld. Com
							SPF 3) / 1535	3215		D+0.75(L
Analysis R	esults					2 -	SPF 3	.500" V	ert 62	2% 1680) / 1535	3215	L	D+0.75(L
Analysis		Location Allow	ed Capa	city Comb	o. Case									
Moment	4637 ft-lb	3'7 1/4" 23540		(20%) D+L	L									
Unbraced	5081 ft-lb	3'7 1/4" 13971		(36%) D+0.7										
Shear LL Defl incl	1826 lb h 0.022 (L/3738)	5'10" 9707 3'7 5/16" 0.169		(19%) D+L (13%) 0 75(l	L .+S) L									
		3'7 5/16" 0.225												
Design No			. ,	. ,		1								
1 Provide s	upport to prevent latera				Lateral support	-								
	be required at the inter I plies using 3 rows of 1	ι,	0		nd distance not									
to exceed	l 6".	· ·	,											
	ast page of calculations re designed to be supp		• •	ned loads.										
	must be supported equ													
•	be laterally braced at e just be laterally braced	•												
	enderness ratio based o													
ID	Load Type	Locat	ion Trib Wid		Dead 0.9		Live 1	Snow 1.		nd 1.6 C			mments	
1	Uniform			Тор Тор	116 PLF		48 PLF	0 P		0 PLF	0 P		u	
2 3	Uniform Uniform			Тор	120 PLF 220 PLF		0 PLF 0 PLF	0 Pl 220 Pl		0 PLF 0 PLF	0 P 0 P		П	
3				Тор	220 PLF 10 PLF		U PLF	220 P	LF	UPLF	UP	LL R2		
	Self Weight				10 PLF									
Notes		chemicals			For flat roofs provide	proper drai	nage to pre	event Man	ufacturer Ir	ifo		Comtech, 1001 S. F	Inc. Reilly Road, Suite :	#639
Calculated Structure structural adequact	ed Designs is responsible only of t y of this component based on t	the Handling & In:	stallation t not be cut or drilled		ponding			Mets	ä Wood vlerritt 7 Bui	ldina 2nd F	loor	Fayettevil USA		
design criteria a responsibility of the	nd loadings shown. It is t e customer and/or the contractor onent suitability of the intend	the 2 Refer to ma to regarding ins	nufacturer's produc tallation requiremer	its, multi-ply				Norw	alk, CT 068 622-5850			28314 910-864-	TRUS	
application, and to v	verify the dimensions and loads.	fed fastening detail: approvals 3. Damaged Beam	s, beam strength valu s must not be used	ues, and code					metsawood	l.com/us				
l umber														
	ditions, unless noted otherwise reated with fire retardant or corrosi	 Design assumes Provide lateral 	s top edge is laterally r support at bearing p	oints to avoid	This design is vali							le	omt	есн

-	/	Client: Project:	Benjamin Stout Rea The Caroline	al Estate	Date: Input by	8/10/2022 : David Landry	Page 4 of
1	isDesign	Address:	67 Wolcott Cour	t	Job Nar	ne: Lot 5 Liberty Meadows	
BM2	Kerto-S LV	1.750"	X 13.000"	2-Plv -	Project :	#: J0822-4067 Level: Level	
				2 · · ·y	INCOLD		
	• •	•	• •	•			M
	• •	• • •	•	•			1'1"
	F	•	• •	2 5			
/		7'2 1/2"					3 1/2"
∤───		7'2 1/2"					
Multi-Ply	Analysis plies using 3 rows	of 10d Box nails	(128v3") at 12" .	o.c. Maxim	um and distance i	not to exceed 6"	
Capacity	plies using 5 tows	0.0 %					
Load Yield Limit pe		0.0 PLF 245.6 PLF					
Yield Limit pe Yield Mode	er Fastener	81.9 lb. IV					
Edge Distand Min. End Dist		1 1/2" 3"					
Load Combin	nation						
Duration Fac	stor	1.00					
						Manufactor	Comtech, Inc.
Notes Calculated Struct	tured Designs is responsible only of		ion	For flat roofs pro- ponding	vide proper drainage to prevent	Metsä Wood	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA
design criteria responsibility of	acy of this component based on and loadings shown. It is the customer and/or the contracto mponent suitability of the inten	the 2 Refer to manufactu r to regarding installation	rer's product information requirements, multi-ply			301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850	28314 910-864-TRUS
application, and to Lumber	to verify the dimensions and loads.	fastening details, beam approvals 3. Damaged Beams must 4. Design assumes top ed				www.metsawood.com/us	
 Dry service co LVL not to be 	onditions, unless noted otherwise e treated with fire retardant or corro	5 Provide lateral support	at bearing points to avoid	This design is	valid until 11/3/2024		соттесн
Version 21.804	417 Powered by iStruct™ Da	ataset: 22061001 1					CCD LORAW

Version 21.80.417 Powered by iStruct™ Dataset: 22061001.



-	1	Client: Project:	Benjamin Stout Re The Caroline	al Estate	Date Input		8/10/2022 David Landry	Page 6 of
1	isDesign	Address:	67 Wolcott Cou	ırt		Name:	Lot 5 Liberty Meadows J0822-4067	
GDH	Kerto-S L	/L 1.750"	X 18.000"	3-Ply			evel: Level	
		••••	· · ·	•••	· · ·	•		 1'6"
		• • •	•••	• •	•••	•	••••••••••••••••••••••••••••••••••••••	<u> </u>
	End Grain			18'10"			2 SPF End	5 1/4"
				18'10"				
Multi Dh	Analysia							
Multi-Ply Fasten all	-	s of 10d Box nails	(.128x3") at 12"	o.c Nail fro	om both sides. I	Maxir	num end distance not to	exceed
6". Capacity		0.0 %						
Load Yield Limit pe	er Foot	0.0 PLF 245.6 PLF						
Yield Limit pe Yield Mode	er Fastener	81.9 lb. IV						
Edge Distand		1 1/2"						
Min. End Dist Load Combin		3"						
Duration Fac	tor	1.00						
							Manufacturer Info	Comtech, Inc.
Notes Calculated Struct	tured Designs is responsible only acy of this component based o			 For flat roofs pro- ponding 	vide proper drainage to pre-	N	/letsä Wood	1001 S. Reilly Road, Suite #639 Fayetteville, NC USA
design criteria responsibility of	and loadings shown. It is the customer and/or the contract	the 2 Refer to manufactu tor to regarding installation	er's product information requirements, multi-ply			1	801 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 800) 622-5850	28314 910-864-TRUS
ensure the cor application, and to Lumber	mponent suitability of the inte to verify the dimensions and loads,	fastening details, beam approvals 3. Damaged Beams must	strength values, and code tot be used				800) 622-5850 vww.metsawood.com/us	
1. Dry service co	onditions, unless noted otherwise e treated with fire retardant or con	 Design assumes top edge Provide lateral support 	e is laterally restrained at bearing points to avoid	This design is	valid until 11/3/2024			соттесн
Version 21.80	117 Powered by iStruct™ I	-		i nia dealgit 18	.a.a and 11/0/2024			

Version 21.80.417 Powered by iStruct™ Dataset: 22061001.1



Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0822-4067 Lot 5 Liberty Meadows

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: I53588845 thru I53588852

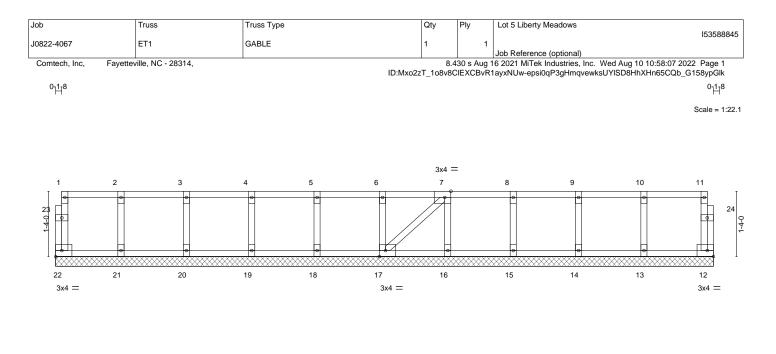
My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



August 11,2022

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.



1	1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-5-0
	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-5-0
Plate Offs	sets (X,Y)	[7:0-1-8,Edge], [1	7:0-1-8,Edge]							
LOADING TCLL TCDL BCLL BCDL	3 (psf) 40.0 10.0 0.0 5.0	SPACING Plate Grip Lumber DO Rep Stress Code IRC	DOL 1.00 DL 1.00	CSI. TC BC WB Matri	0.06 0.01 0.03 x-S	Vert(CT)	in (loc) l/de n/a - n/ n/a - n/ .00 12 n/	'a 999 'a 999	PLATES MT20 Weight: 62 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER TOP CHO BOT CHO WEBS	ORD 2x4 SI ORD 2x4 SI	P No.1(flat) P No.1(flat) P No.3(flat)				BRACING- TOP CHORD BOT CHORD	except end v	verticals.	rectly applied or 6-0-0 or 10-0-0 oc bracing.) oc purlins,

WFBS 2x4 SP No.3(flat) OTHERS 2x4 SP No.3(flat)

REACTIONS.

DNS. All bearings 13-5-0. (lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 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.







Job	Truss	Truss Type	Qty	Ply	Lot 5 Liberty Meadows
J0822-4067	F1	Floor	1	1	153588846
					Job Reference (optional)
Comtech Inc Equation NC - 28314					16 2021 MiTek Industries Inc. Wed Aug 10 10:58:09 2022 Page 1

comtech, Inc, Fayetteville, NC - 28314,

0-1-8

1-3-8 1-2-8 1-2-8 1-2-8 1-2-8 1-2-8 1-2-8 1-3-0 HH

Wed Aug 10 Milek Ind ID:Mxo2zT_1o8v8CIEXCBvR1ayxNUw-aC_TRVRKCu0X8y36zuaDXeDXnKpTawlj3II7A1ypGli



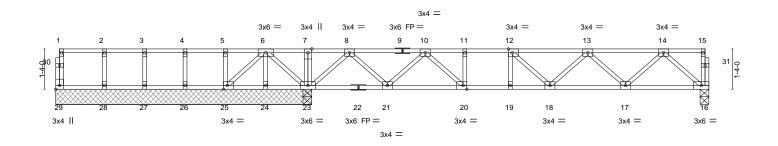


Plate Offsets (X,Y)	8-4-0 8-4-0 [12:0-1-8,Edge], [20:0-1-8,Edge], [25:0-	8-5-8 0-1-8 1-8 Edge) [29:Edge 0-1-8]		21-7-0 13-1-8		
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.41 BC 0.63 WB 0.35 Matrix-S	Vert(LL) -0.09	n (loc) l/defl L/d 9 18-19 >999 480 2 18-19 >999 360 2 16 n/a n/a	PLATES MT20 Weight: 111 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SF	P No.1(flat) P No.1(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied o 6-0-0 oc bracing: 24-25,23-24	r 10-0-0 oc bracing, I	
(lb) - Max U	earings 8-5-8 except (jt=length) 16=0-3-8 plift All uplift 100 lb or less at joint(s) ex rav All reactions 250 lb or less at joint(16=634(LC 4)	cept 24=-116(LC 4), 25=-26		23=1357(LC 1),		

- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 6-7=0/858, 7-8=0/858, 8-10=-505/0, 10-11=-1449/0, 11-12=-1449/0, 12-13=-1488/0, 13-14=-1057/0
- BOT CHORD 24-25=-345/0, 23-24=-345/0, 20-21=0/1044, 19-20=0/1449, 18-19=0/1449, 17-18=0/1429, 16-17=0/662 WEBS 6-23=-705/0, 6-25=0/466, 8-23=-1114/0, 8-21=0/734, 10-21=-752/0, 10-20=0/598,
- 14-16=-879/0, 14-17=0/549, 13-17=-518/0

NOTES-

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

2) 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 116 lb uplift at joint 24 and 267 lb uplift at joint 25.

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.

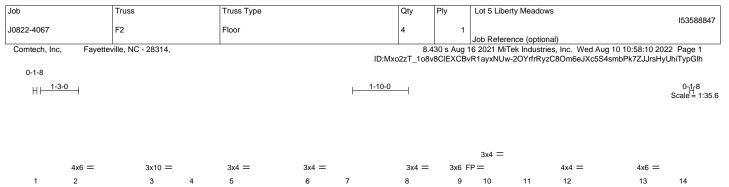
Strongbacks to be attached to walls at their outer ends or restrained by other means. 6) CAUTION, Do not erect truss backwards.

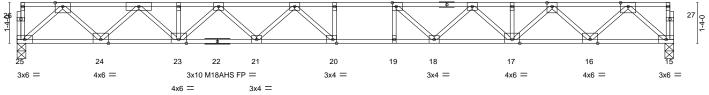


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent ouclidal truss evel and/or chord members only. Additional temporary and permanent bracing fabrication, storage, delivery, rerection and bracing of trusses shaft muss systems, see **ANSUTPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road Edenton, NC 27932





 			21-7-0					
Plate Offsets (X,	Y) [8:0-1-8,Edge], [20:0-1-8,Edge]		21-7-0					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.86 BC 0.71 WB 0.62 Matrix-S	Vert(CT) -0	in (loc) 42 20 58 20-21 .09 15	l/defl >613 >444 n/a	L/d 480 360 n/a	PLATES MT20 M18AHS Weight: 113 lb	GRIP 244/190 186/179 FT = 20%F, 11%E
BOT CHORD	2x4 SP No.1(flat) 2x4 SP 2400F 2.0E(flat) 2x4 SP No.3(flat)		BRACING- TOP CHORD BOT CHORD	except	end vert	icals.	ectly applied or 2-2-0 o	oc purlins,
REACTIONS.	(size) 25=0-3-8, 15=0-3-8 Max Grav 25=1167(LC 1), 15=1167(LC 1)							
FORCES. (lb) TOP CHORD	- Max. Comp./Max. Ten All forces 250 (lb) o 2-3=-2204/0, 3-4=-3798/0, 4-5=-3798/0, 5-6- 8-10=-4749/0, 10-11=-3802/0, 11-12=-3802/	-4756/0, 6-7=-5128/0, 7-8						
BOT CHORD	24-25=0/1276, 23-24=0/3102, 21-23=0/4408 17-18=0/4399, 16-17=0/3103, 15-16=0/1275	, 20-21=0/5062, 19-20=0/	/5128, 18-19=0/5128,					
WEBS	13-15=-1695/0, 13-16=0/1291, 12-16=-1251	0, 12-17=0/951, 10-17=-8						

2-25=-1696/0, 2-24=0/1292, 3-24=-1249/0, 3-23=0/946, 5-23=-828/0, 5-21=0/485, 6-21=-471/0, 6-20=-297/542, 8-18=-785/0, 8-19=-149/254

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.

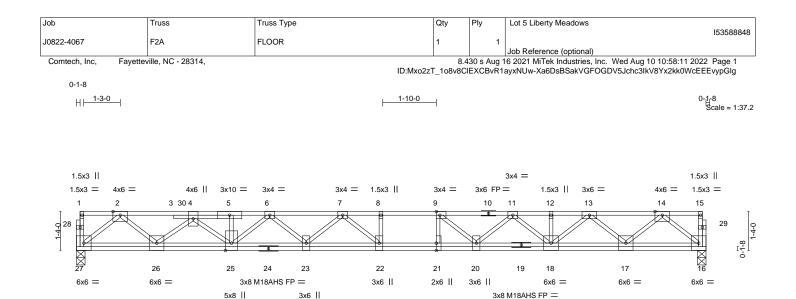
4) Plates checked for a plus or minus 1 degree rotation about its center.

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.







1	7-10-8			21-7-0		
	7-10-8	I		13-8-8		I
Plate Offsets (X	(,Y) [9:0-1-8,Edge], [21:0-3-0,0-0-0]				-1	
LOADING (psf TCLL 40.0 TCDL 10.0 BCLL 0.0	D Plate Grip DOL 1.00 D Lumber DOL 1.00	CSI. TC 0.97 BC 0.44 WB 0.70	DEFL. in Vert(LL) -0.36 Vert(CT) -0.49 Horz(CT) 0.05	22 >718 480 22 >519 360	PLATES MT20 M18AHS	GRIP 244/190 186/179
BCDL 5.0		Matrix-S	1012(01) 0.03	10 11/4 11/4	Weight: 145 lb	FT = 20%F, 11%E
LUMBER- TOP CHORD BOT CHORD WEBS	2x4 SP No.1(flat) 2x4 SP 2400F 2.0E(flat) 2x4 SP No.3(flat) (size) 27=0-3-8, 16=0-3-8		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing o Rigid ceiling directly applied		end verticals.
	()					
FORCES. (Ib) TOP CHORD	Max Grav 27=1242(LC 1), 16=1182(LC 1)) - Max. Comp./Max. Ten All forces 250 (lb) c 2-4=-2507/0, 4-5=-4202/0, 5-6=-4195/0, 6-7 9-11=-5061/0, 11-12=-4047/0, 12-13=-4047/	=-5160/0, 7 ⁻ 8=-5507/0, 8-9 0, 13-14=-2340/0	=-5507/0,			
	Max Grav 27=1242(LC 1), 16=1182(LC 1) - Max. Comp./Max. Ten All forces 250 (lb) c 2-4=-2507/0, 4-5=-4202/0, 5-6=-4195/0, 6-7	=-5160/0, 7-8=-5507/0, 8-9 0, 13-14=-2340/0 5, 22-23=0/5455, 21-22=0/5	=-5507/0,			

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.

5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 170 lb down at 3-7-12 on top

chord. The design/selection of such connection device(s) is the responsibility of others.

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: 16-27=-10, 1-15=-100

Concentrated Loads (lb)

Vert: 30=-90(B)



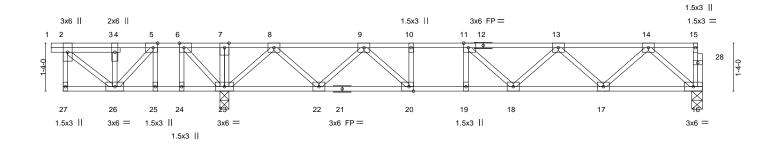
August 11,2022





<u>1-3-0</u> || <u>1-0-0</u> | |<mark>0-7-4</mark> | <u>1-0-0</u> |

|<u>1-4-12</u>| 0-<u>1</u>_18 Scale = 1:30.1



0-4-0 0-4-0		4-9-12 0-1-8			18-1-0				
Plate Offsets (X,Y)	4-4-4 [5:0-1-8,Edge], [6:0-1-8,E		Edge], [20:0-1-8,Edge]		13-3-4				
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 Pl2014	CSI. TC 0.50 BC 0.68 WB 0.36 Matrix-S	Vert(CT)	in (loc) -0.09 18-19 -0.12 18-19 0.02 16	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 100 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 S	SP No.1(flat) SP No.1(flat) SP No.3(flat)	i		BRACING- TOP CHORE BOT CHORE	except D Rigid c	end vertication	als.	ctly applied or 6-0-0 c 6-0-0 oc bracing, E 3,16-17.	• •
,	ize) 23=0-3-0, 16=0-3-8 Grav 23=1344(LC 1), 16=6	691(LC 4)				-			
TOP CHORD 5-6 11-	x. Comp./Max. Ten All for =0/477, 6-7=0/1040, 7-8=0, 13=-1730/0, 13-14=-1180/0 26=-477/0, 24-25=-477/0, 2	/1040, 8-9=-997/)	500, 9-10=-1785/41, 10-	,					
BOT CHORD 25-26=-477/0, 24-25=-477/0, 23-24=-477/0, 22-23=-727/520, 20-22=- 40-20-44/4785-48-40-44/285-47-49, 24-60-46-47, 0/220				30/1471,					

 WEBS
 3-26=-253/0, 5-26=0/569, 6-23=-803/0, 8-23=-1156/0, 8-22=0/758, 9-22=-773/0, 9-20=0/710, 10-20=-289/0, 14-16=-967/0, 14-17=0/627, 13-17=-593/0

NOTES-

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

2) All plates are 3x4 MT20 unless otherwise indicated.

3) Plates checked for a plus or minus 1 degree rotation about its center.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

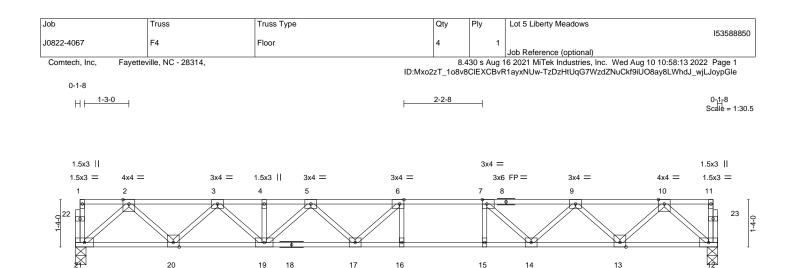
Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.









16

1.5x3 ||

15

1.5x3 ||

14

3x4 =

13

4x4 =

3x6 =

H			18-1-0					
Plate Offsets (X,Y)	[6:0-1-8,Edge], [7:0-1-8,Edge]		18-1-0					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.74 BC 0.83 WB 0.48 Matrix-S	Vert(LL) -0.2	in (loc) 8 16-17 8 16-17 5 12	l/defl >758 >558 n/a	L/d 480 360 n/a	PLATES MT20 M18AHS Weight: 94 lb	GRIP 244/190 186/179 FT = 20%F, 11%E
BOT CHORD 2x4	SP No.1(flat) SP 2400F 2.0E(flat) SP No.3(flat)		BRACING- TOP CHORD BOT CHORD	except	end vert	icals.	rectly applied or 5-9-4 or 10-0-0 oc bracing.	oc purlins,
,	size) 21=0-3-8, 12=0-3-8 (Grav 21=975(LC 1), 12=975(LC 1)							
TOP CHORD 2-3	ax. Comp./Max. Ten All forces 250 (lb) of 3=-1788/0, 3-4=-2968/0, 4-5=-2968/0, 5-6= 10=-1790/0							
BOT CHORD 20	-21=0/1057, 19-20=0/2487, 17-19=0/3397 3-14=0/2478, 12-13=0/1060 -12=-1409/0, 10-13=0/1015, 9-13=-957/0,	, , , , , , , , , , , , , , , , , , ,	, ,					

2-21=-1405/0, 2-20=0/1016, 3-20=-972/0, 3-19=0/655, 5-19=-583/0, 5-17=0/339, 6-17=-375/282, 6-16=-308/84

NOTES-

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

20

4x4 =

3x6 =

19

3x6 =

18

3x8 M18AHS FP =

17

3x4 =

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.



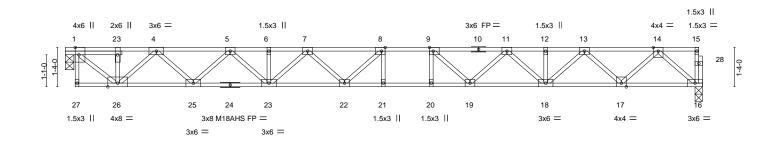


Job	Truss	Truss Type	Qty	Ply	Lot 5 Liberty Meadows
					153588851
J0822-4067	F5	Floor	3	1	
					Job Reference (optional)
Comtech, Inc, Fayettev	ille, NC - 28314,		8.4	30 s Aug '	16 2021 MiTek Industries, Inc. Wed Aug 10 10:58:14 2022 Page 1

H

0-4-0 1-3-0 ⊢

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0-4-ρ 0-4-ρ			<u>21-7-0</u> 21-3-0			
	[1:0-3-0,Edge], [8:0-1-8,Edge], [9:0-1-8,	Edge]	21-3-0			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 1-7-3 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.52 BC 0.96 WB 0.62 Matrix-S	DEFL. in Vert(LL) -0.35 Vert(CT) -0.48 Horz(CT) 0.01	21 >717 480	PLATES MT20 M18AHS Weight: 115 lb	GRIP 244/190 186/179 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) REACTIONS. (size) 1=0-3-8, 16=0-3-0 Max Grav 1=927(LC 1), 16=922(LC 1)			BRACING- TOP CHORD BOT CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 21-22,20-21.		

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 1-2=-1000/0, 2-4=-1000/0, 4-5=-2427/0, 5-6=-3434/0, 6-7=-3434/0, 7-8=-3922/0,

8-9=-4011/0, 9-11=-3722/0, 11-12=-2992/0, 12-13=-2992/0, 13-14=-1737/0

- BOT CHORD $25\text{-}26\text{-}0/1815, \ 23\text{-}25\text{-}0/3016, \ 22\text{-}23\text{-}0/3792, \ 21\text{-}22\text{-}0/4011, \ 20\text{-}21\text{-}0/4011, \ 19\text{-}20\text{-}0/4011, \ 19\text{-}20\text{-}0/4011, \ 10\text{-}20\text{-}0/4011, \ 10\text{-}0/4011, \ 10\text{-}0/$ 18-19=0/3457, 17-18=0/2444, 16-17=0/1007
- 1-26=0/1302, 14-16=-1338/0, 14-17=0/1015, 13-17=-984/0, 13-18=0/745, 11-18=-632/0, 11-19=0/461, 9-19=-587/4, 4-26=-1108/0, 4-25=0/850, 5-25=-820/0, 5-23=0/568, WEBS 7-23=-487/0, 7-22=-21/337, 8-22=-406/185

NOTES-

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

2) All plates are MT20 plates unless otherwise indicated.

3) All plates are 3x4 MT20 unless otherwise indicated.

4) Plates checked for a plus or minus 1 degree rotation about its center.

5) 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

7) CAUTION, Do not erect truss backwards.





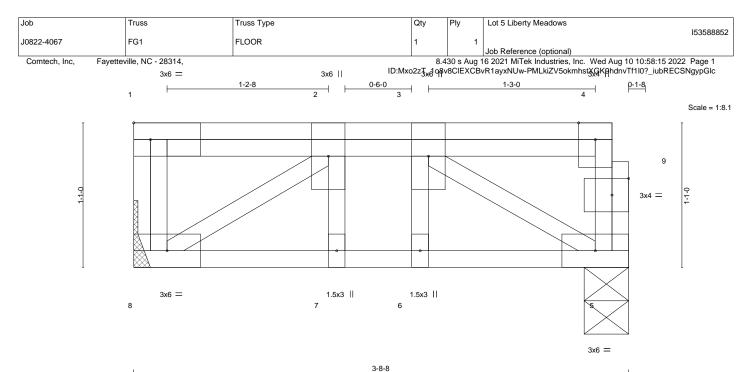


Plate Offsets (X,Y)	[9:0-1-8.0-1-8]		3-8-8			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.04 BC 0.05 WB 0.05 Matrix-S	DEFL. Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) 0.0	0 6 >999 360	PLATES MT20 Weight: 27 lb	GRIP 244/190 FT = 20%F. 11%E
BCDL 5.0 Code RC2015/1P12014 Matrix-S LUMBER- TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) WEBS 2x4 SP No.3(flat)			BRACING- TOP CHORD BOT CHORD	Structural wood sheathing directly applied or 3-8-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.		

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

Max Grav 8=190(LC 1), 5=184(LC 1)

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

NOTES-

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

2) Plates checked for a plus or minus 1 degree rotation about its center.

3) Refer to girder(s) for truss to truss connections.

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) CAUTION, Do not erect truss backwards.





