

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J1021-6184 Precision/Lot 13 Liberty Meadows/Harnet

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: I52793023 thru I52793042

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

North Carolina COA: C-0844



June 28,2022

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.





818 Soundside Road Edenton, NC 27932

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 besign valid to less only with with twe commendations. This besign is based only upon parameters and properly incorporate this design into the overall a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Continued on page 2

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 and truss system. See MSI/TP11 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

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 13 Liberty Meadows/Harnet
					152793028
J1021-6184	B2	COMMON GIRDER	1	່ງ	
				2	Job Reference (optional)
Comtech, Inc, Fayettev	rille, NC - 28314,		8.	430 s Aug	16 2021 MiTek Industries, Inc. Tue Jun 28 08:42:22 2022 Page 2

ID:JJp3_bNirdpeLXA5mDh?5?y7p3U-9Rjw3prm_?1FUVnDsShRW0Xo7AggwSSI4LtE3Ez1ot?

LOAD CASE(S) Standard Concentrated Loads (Ib)

Vert: 11=-1347(B) 12=-1349(B) 13=-1347(B) 14=-1347(B) 15=-1347(B) 16=-1347(B) 17=-1347(B) 18=-1347(B) 19=-1347(B) 20=-1351(B)

June 28,2022

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Job	Truss	Truss Type	Qty	Ply	Precision/Lot 13 Liberty Meadows/Harnet
J1021-6184	C3	ATTIC	2	_	152793031
				2	Job Reference (optional)
Comtech, Inc, Fayette	ville, NC - 28314,		8.	430 s Auc	16 2021 MiTek Industries, Inc. Tue Jun 28 08:42:25 2022 Page 2

ID:JJp3_bNirdpeLXA5mDh?5?y7p3U-Z0P2hrtfHwPqLzWoYbF87f9JVNiz7zykmJ5ufZz1osy

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-4=-137 4-5=-183

Vert: 1-4=-137, 4-5=-183, 5-6=-137, 6-7=-137, 7-8=-183, 8-11=-137, 2-14=-46, 12-14=-92, 10-12=-46, 5-7=-46 Drag: 4-14=-23, 8-12=-23

Concentrated Loads (lb)

Vert: 14=-1687(F)

818 Soundside Road Edenton, NC 27932

ł LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) l/defl L/d PLATES GRIP TCLL 20.0 Plate Grip DOL тс 0.10 Vert(LL) -0.00 MT20 244/190 1.15 n/r 120 TCDL 10.0 Lumber DOL 1.15 BC 0.08 Vert(CT) 0.00 n/r 120 1 BCLL 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-P Weight: 23 lb FT = 20% LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 5-9-0 oc purlins,

BOT CHORD

except end verticals.

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

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

REACTIONS. (size) 5=5-9-0, 2=5-9-0, 6=5-9-0 Max Horz 2=80(LC 8)

Max Uplift 5=-10(LC 8), 2=-93(LC 8), 6=-93(LC 12)

Max Grav 5=20(LC 1), 2=210(LC 1), 6=284(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 C; 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 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 requires continuous bottom chord bearing.

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

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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 6) will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 5, 93 lb uplift at joint 2 and 93 lb uplift at joint 6.

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 preven tbuckling 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 sand truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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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 0.37 BC 0.27 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.04 -0.09 0.00 0.10	(loc) 2-4 2-4 2-4	l/defl >999 >728 n/a >655	L/d 360 240 n/a 240	PLATES MT20 Weight: 22 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SF	9 No.1		BRACING- TOP CHORE)	Structu	ral wood	sheathing d	lirectly applied or 5-9-0	oc purlins,

BOT CHORD

except end verticals.

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

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

REACTIONS. (size) 2=0-3-0, 4=0-1-8 Max Horz 2=56(LC 8) Max Uplift 2=-130(LC 8), 4=-85(LC 8) Max Grav 2=306(LC 1), 4=206(LC 1)

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

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NOTES-

- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 5-6-4 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
- 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 130 lb uplift at joint 2 and 85 lb uplift at joint 4.

LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	* SPACING- Plate Grip DOL Lumber DOL * Rep Stress Incr Code IRC2015/T	2-0-0 1.15 1.15 YES PI2014	CSI. TC BC WB Matrix	0.22 0.17 0.00 c-P	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.02 -0.04 0.00 0.04	(loc) 2-4 2-4 2-4	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 18 lb	GRIP 244/190 FT = 20%
LUMBER-					BRACING-						

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 2=0-3-0, 4=0-1-8 Max Horz 2=48(LC 8) Max Uplift 2=-117(LC 8), 4=-67(LC 8) Max Grav 2=268(LC 1), 4=164(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 C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 4-6-4 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
- 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 117 lb uplift at joint 2 and 67 lb uplift at joint 4.

Structural wood sheathing directly applied or 5-9-0 oc purlins,

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

except end verticals.

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818 Soundside Road

Edenton, NC 27932

BOT CHORD

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

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

REACTIONS. (size) 5=4-9-0, 2=4-9-0, 6=4-9-0 Max Horz 2=69(LC 8)

Max Uplift 5=-25(LC 8), 2=-85(LC 8), 6=-65(LC 12) Max Grav 5=70(LC 1), 2=167(LC 1), 6=197(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 C; 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 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 requires continuous bottom chord bearing.

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

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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 6) will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 5, 85 lb uplift at joint 2 and 65 lb uplift at joint 6.

Edenton, NC 27932

June 28,2022

818 Soundside Road Edenton, NC 27932

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

REACTIONS.

(size) 1=7-6-6, 3=7-6-6, 4=7-6-6 Max Horz 1=-83(LC 8) Max Uplift 1=-30(LC 13), 3=-30(LC 13)

Max Grav 1=168(LC 1), 3=168(LC 1), 4=216(LC 1)

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

NOTES-

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

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

3) 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.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 1 and 30 lb uplift at joint 3.

(size) 1=4-10-6, 3=4-10-6, 4=4-10-Max Horz 1=-51(LC 8) Max Uplift 1=-18(LC 13), 3=-18(LC 13)

Max Grav 1=103(LC 1), 3=103(LC 1), 4=132(LC 1)

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

NOTES-

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

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

3) 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.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1 and 18 lb uplift at joint 3.

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J1021-6185 Precision/Lot 13 Liberty Meadows/Harn

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: I52793650 thru I52793661

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

North Carolina COA: C-0844

June 28,2022

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	Precision/Lot 13 Libe	erty Meadows/Harn	
J1021-6185	ET1	GABLE	1	1			152793650
Comtech, Inc, Fayette	/ /ille, NC - 28314,		8	.430 s Auc	Job Reference (option 16 2021 MiTek Industr	ial) ries, Inc. Tue Jun 28 09:16:46	2022 Page 1
			ID:JJp3_bNirdpe	LXA5mDh	?5?y7p3U-BD00GxJZtt	p8gy8NHwhSTq10fMBDXX9C	5iTrSUcz1oMI
0- <u>1</u> -8							0- <u>1</u> -8
							Scale = 1:32.8
1 2 2	4 5	6 7 9 0	10	11	12 12	3x6 FP =	17 19
	4 5			0	12 13		
36	ДД				ДД	ДД	39 0
37 36 40 35	34 33 32 41	31 30 29 42 28	27	26 4	43 25 24	23 22 44 21	20 19
5x8 = 2x6	3x6 FP =	2x6 2x6 2x6 2x6	6 2x6	2x6	2x6 3	3x6 FP = 2x6	5x8 =
	2x6 2x6				2x6	2x6	
0-6-4 1-10-4 J 3-	2-4 4-6-4 5-10-4	7-2-4 8-6-4 9-10-4	11-2-4 12-6-4	l 13-1	0-4 15-2-4 16	6-6-4 17-10-4 19-2-4	19-8-8
0-6-4 1-4-0 1- Plate Offsets (X Y) [20	4-0 1-4-0 1-4-0 Edge 0-3-0] [37:Edge 0-3-0	1-4-0 1	1-4-0 1-4-0	¹ 1-4	-0 1-4-0 1	-4-0 1-4-0 1-4-0	0-6-4
				(1)			
TCLL 40.0	Plate Grip DOL 1.0) TC 0.07	Vert(LL) n/a	1 (IOC) 1 -	n/a 999	MT20 244	/190
TCDL 10.0	Lumber DOL 1.0	BC 0.03	Vert(CT) n/a	a -	n/a 999		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R	H012(C1) -0.00	19	11/a 11/a	Weight: 109 lb F	Г = 20%F, 11%E
LUMBER-			BRACING-				
TOP CHORD 2x4 SP No	.1(flat)		TOP CHORD	Structur	ral wood sheathing dir	ectly applied or 10-0-0 oc p	urlins,
WEBS 2x4 SP No	.1(flat) .3(flat)		BOT CHORD	Rigid ce	end verticals. eiling directly applied c	or 6-0-0 oc bracing.	
OTHERS 2x4 SP No	.3(flat)						
REACTIONS. All bearing	igs 19-8-8.						
(lb) - Max Uplift Max Grav	All uplift 100 lb or less at jo All reactions 250 lb or less	oint(s) 37 at joint(s) 28, 29, 30, 31, 32, 34, 35, 3	36, 27, 26, 25, 24, 2	2, 21, 20,			
	19	• • • • • • • • • •					
FORCES. (lb) - Max. Cor	np./Max. Ten All forces 25	0 (lb) or less except when shown.					
NOTES-							
1) All plates are 1.5x3 MT2	0 unless otherwise indicated	i.					
 Plates checked for a plu Gable requires continuc 	s or minus 1 degree rotation us bottom chord bearing.	about its center.					
4) Truss to be fully sheath	ed from one face or securely	braced against lateral movement (i.e.	diagonal web).				
b) Gable studs spaced at '6) Provide mechanical con	-4-U OC.						
	nection (by others) of truss t	o bearing plate capable of withstandin	ig 100 lb uplift at joir	nt(s) 37.			
This truss is designed in referenced standard	nection (by others) of truss t accordance with the 2015 I	o bearing plate capable of withstandin nternational Residential Code sections	ig 100 lb uplift at joir s R502.11.1 and R8	nt(s) 37. 02.10.2 a	ind		

 Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 19-37=-10, 1-18=-100 Concentrated Loads (lb)

Vert: 30=-74 34=-74 27=-74 24=-74 19=-78 40=-74 41=-74 42=-74 43=-74 44=-74

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 13 Liber	ty Meadows/Harn	
J1021-6185	ET2	GABLE	1	1	leb Deference (antione	I)	152793651
Comtech, Inc, Fayetter	/ille, NC - 28314,		8	.430 s Aug	16 2021 MiTek Industrie	es, Inc. Tue Jun 28 09:16:47 2	022 Page 1
		ID:JJp	3_bNirdpeL	XA5mDh?	5?y7p3U-fQaOUHKBev0	GXalxTTOziNEZrFaZ0GcSEw7	b012z1oMk
0- <mark>1-</mark> 8							0- <u>1</u> -8
							Scale = 1:28.2
						3x6 FP =	
1 2	3 4	5 6 7 8		9	10 11	12 13 14	15
a1 []			•	P	<u>e</u> <u>e</u>		
1-2-							1-2-(
			•				
		25 24 22	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~	20 40	40 47	******
30 29 3v4 —	28 27 20 3x6 EP	25 24 23 2	2	21	20 19	18 17	10 3×4 —
0,4							0.4
				10			
1-4-0 2-8	-0 <u>4-0-0 5-4-</u> -0 <u>1-4-0</u> 1-4-	0 6-8-0 8-0-0 9-4-0 0 1-4-0 1-4-0 1-4-0	10-8-0	+ 12	<u>-0-0 13-4-0 </u> 4-0 1-4-0	<u>14-8-0 16-0-0 1</u> 1-4-0 1-4-0	7-0-0 1-0-0
			ir		l/defl l/d		
TCLL 40.0	Plate Grip DOL 1.00	TC 0.06 Vert(L	L) n/a	i (i0c)	n/a 999	MT20 244/190)
TCDL 10.0	Lumber DOL 1.00	BC 0.01 Vert(C	T) n/a	- 10	n/a 999		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R	,1) 0.00	16	n/a n/a	Weight: 71 lb FT =	= 20%F, 11%E
TOP CHORD 2x4 SP No	.1(flat)	TOP C	ING- HORD	Structur	al wood sheathing dire	ctlv applied or 6-0-0 oc purlin	s.
BOT CHORD 2x4 SP No	.1(flat)			except e	end verticals.		- /
WEBS 2x4 SP No OTHERS 2x4 SP No	.3(flat) .3(flat)	BOLC	HORD	Rigid ce	elling directly applied or	10-0-0 oc bracing.	
(lb) - Max Grav	gs 17-0-0. All reactions 250 lb or less	at joint(s) 30 16 29 28 26 25 24 23 22 2	1 20 19 1	8 17			
		,	, 20, 10, 1	-,			

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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) 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) 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	Tr	uss	-	Truss Type			Q	у	Ply	Preci	sion/Lot 13	Libert	y Meadows/H	larn		1507	02652
J1021-6185	ET	-3		GABLE			1		1							1527	93032
										Job Re	eference (o	ptional)				
Comtech, Inc, F	ayetteville	, NC - 28314,					ID:JJp3_bNird	8. IpeLXA	430 s Aug 5mDh?57	g 16 202 Py7p3U-	1 MiTek In 7c7mhdLpl	dustrie PCOO	s, Inc. Tue J CSWf16VxwS	un 28 09: \$50?_vE?	16:48 20 3hO9nK2	22 Page ZZUz1oľ	e 1 Mj
0 ₁ 18																1 ₁ 0	18
																Scale =	= 1:25.8
	0	3	4	5	6		7	8		9		10	11		12	13	28 0-2-1
	******					******			*****		******			*****			1
26 25	5	24	23	22	21		20	19		18		17	16		15	14	
3x4 =																3x4 =	=
<u> 1-4-0</u> 1-4-0	<u>2-8-</u> 1-4-0	0 4-0 0 1-4	-0 5 -0 1	5-4-0	<u>6-8-0</u> 1-4-0	<u>8-0-0</u> <u>1-4-0</u>	<u>9-4-0</u> 1-4-0		<u>10-8-0</u> 1-4-0		<u>12-0-0</u> 1-4-0		13-4-0 1-4-0	<u>14-8-0</u> 1-4-0	<u>– 15</u> 0-	5-7-0 11-0	
I OADING (nsf)		SPACING-	2-0-0		CSI		DEFI	in	(loc)	l/defl	l /d		ΡΙ ΔΤΕ	s	GRIP		
TCLL 40.0 TCDL 10.0 BCLL 0.0		Plate Grip DO Lumber DOL Rep Stress Ind	L 1.00 1.00 cr YES		TC 0.06 BC 0.01 WB 0.03		Vert(LL) Vert(CT) Horz(CT)	n/a n/a 0.00	(100) - - 14	n/a n/a n/a	999 999 n/a		MT20		244/190		
BCDL 5.0		Code IRC201	5/TPI2014		Matrix-R								Weight	66 lb	FT =	20%F,	11%E
LUMBER- TOP CHORD 2x4 BOT CHORD 2x4 WEBS 2x4 OTHERS 2x4	SP No.1(f SP No.1(f SP No.3(f SP No.3(f	flat) flat) flat) flat)					BRACING- TOP CHOR BOT CHOR	RD RD	Structur except Rigid ce	ral wood end ver eiling dii	d sheathin ticals. rectly appl	g direc	tly applied c	r 6-0-0 o acing.	c purlins	.,	
REACTIONS. All	bearings	15-7-0.															

(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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) 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.

 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.

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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 13 Liberty Meadows/Harn
					152793654
J1021-6185	F2	Floor	1	1	
					Job Reference (optional)
Comtech, Inc, Faye	teville, NC - 28314,		8.	.430 s Aug	16 2021 MiTek Industries, Inc. Tue Jun 28 09:16:52 2022 Page 1
		ID:JJp:	3_bNirdpe	LXA5mDh	?5?y7p3U-0NNHX?OJTRuqg3qQGxZt4IGXOb5uxjQ_4PIniGz1oMf
0-1-8					
HL-1-3-0	2-4-4				
					Scale = 1:55.1

L	12-11-12			32-5	i-0		
	12-11-12			19-5	5-4		
Plate Offsets (X,Y)	[34:0-1-8,Edge], [35:0-1-8,Edge]		1				
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.74 BC 0.73 WB 0.69	DEFL. in Vert(LL) -0.28 Vert(CT) -0.38 Horz(CT) 0.05	n (loc) l/defl 3 25 >824 3 25 >604 5 22 n/a	L/d 480 360 n/a	PLATES MT20	GRIP 244/190
BCDL 5.0	Code IRC2015/1PI2014	Matrix-S				Weight: 163 lb	FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SF 1-10: 2 BOT CHORD 2x4 SF 22-29: WEBS 2x4 SF	P No.1(flat) *Except* 2x4 SP 2400F 2.0E(flat) P No.1(flat) *Except* 2x4 SP 2400F 2.0E(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural woo except end ve Rigid ceiling d	d sheathing dir rticals. irectly applied c	ectly applied or 6-0-0 o	oc purlins,
REACTIONS. (siz Max G	e) 37=0-3-0, 31=0-3-8, 22=0-3-0 Grav 37=608(LC 3), 31=2131(LC 1), 22=	-934(LC 4)					
FORCES. (lb) - Max. TOP CHORD 2-3= 7-8= 15-1	Comp./Max. Ten All forces 250 (lb) or -1162/48, 3-4=-1560/543, 4-5=-1560/543 0/2740, 8-9=0/2740, 9-11=-325/363, 11- 16=-3800/0, 16-17=-3800/0, 17-18=-325	less except when showr 3, 5-6=-1560/543, 6-7=-4 12=-2211/0, 12-13=-221 9/0, 18-19=-3259/0, 19-20	n. 56/1438, 1/0, 13-15=-3332/0, 0=-1967/0				
BOT CHORD 36-3 30-3 24-2	7=-9/746, 35-36=-178/1515, 34-35=-543 1=-1239/0, 28-30=-50/1381, 27-28=0/29 5=0/3625, 23-24=0/2733, 22-23=0/1171	/1560, 33-34=-1066/1064 15, 26-27=0/3800, 25-26	4, 31-33=-1777/0, =0/3800,				
WEBS 2-37 6-34 11-2 19-2	=933/12, 2-36=-50/541, 3-36=-459/170 =0/1132, 5-34=-523/0, 3-35=-484/57, 9- 8=0/1108, 13-28=-933/0, 13-27=0/647, 7 23=-997/0, 19-24=0/672, 17-24=-467/0,	7-31=-1407/0, 7-33=0/9 31=-1884/0, 9-30=0/1447 15-27=-867/0, 20-22=-146 17-25=-186/499	53, 6-33=-1014/0, ′, 11-30=-1420/0, 66/0, 20-23=0/1036,				
NOTES- 1) Unbalanced floor liv 2) All plates are 3x6 M 3) Plates checked for a 4) This truss is design referenced standard	re loads have been considered for this d IT20 unless otherwise indicated. a plus or minus 1 degree rotation about i ed in accordance with the 2015 Internati J ANSI/TPI 1.	esign. ts center. onal Residential Code se	ctions R502.11.1 and R8	302.10.2 and		UNITE OR THE	CARO

- 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.

A MiTek Affilia 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 13 Libe	erty Meadows/Harn	
J1021-6185	F3	Floor	1	1		1527	793655
Comtech Inc Eav	vetteville NC - 28314		8	430 s Au	Job Reference (option	ial) ries, Inc., Tue, Iun 28 09:16:53 2022, Pag	
			ID:JJp3_bNird	peLXA5m	Dh?5?y7p3U-UaxfkLPy	Dl0hIDPdqf46dVogP?S1g9n7J32KEiz1o	Me
0-1-8	2-1-4				2-2-0 1-1-12	0-1-8	2
₩						С- _H -6 Scale	= 1:55.1
		3х	4 =				
1.5x3		6x12 M18AF	IS =	$x_6 FP =$		15x3 15x3	П
1.5x3 = 3x4 =	3x4 = 4	$x6 = 4x6 = 3x4 \parallel$	$3x6 \text{ FP} = 6x6 = 4x6 \parallel 3x4$	=	3x4 3	x4 = 3x4 = 4x6 = 1.5x3 =	=
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	т
42				$\overline{\checkmark}$			43
							1.
41 41	40 39 38	37 36 35	34 33 32	31 2×4 —	30 29	28 27 26	
3)	44 — 440 —	4x0 = 3x0 PP = -0x12 4x12 = -0x12	3x10 M18A	3x4 — HS FP =	3X4	4xo —	
l	12-11-12				32-5-0 19-5-4		
				(10.0)			
TCLL 40.0	Plate Grip DOL 1.00	TC 0.85	Vert(LL) -0.32	30	>718 480	MT20 244/190	
TCDL 10.0 BCLL 0.0	Lumber DOL 1.00 Rep Stress Incr NC	BC 0.67 WB 0.75	Vert(CT) -0.43 Horz(CT) 0.04	30 26	>537 360 n/a n/a	M18AHS 186/179	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		20		Weight: 175 lb FT = 20%F,	11%E
LUMBER-			BRACING-				
TOP CHORD 2x4 SF BOT CHORD 2x4 SF	P 2400F 2.0E(flat) P 2400F 2.0E(flat)		TOP CHORD	Structur except e	al wood sheathing dir end verticals.	ectly applied or 6-0-0 oc purlins,	
WEBS 2x4 SF 11-34	P No.3(flat) *Except*		BOT CHORD	Rigid ce	iling directly applied o	or 6-0-0 oc bracing.	
REACTIONS (oit		0					
Max U	Jplift 41=-127(LC 4)	-0					
Max G	Grav 41=473(LC 3), 35=3044(LC	1), 26=1014(LC 4)					
FORCES. (lb) - Max.	. Comp./Max. Ten All forces 25	0 (lb) or less except when shown	2767 9-10-0/4340				
10-1	11=0/4340, 11-14=-587/0, 14-15=	-3361/0, 15-17=-3361/0, 17-19=	-4214/0,				
BOT CHORD 40-4	1=-197/565, 39-40=-648/1034, 3	=-3651/0, 22-23=-3651/0, 23-24 3-39=-1424/750, 37-38=-2245/0,	=-2171/0 35-37=-3259/0,				
34-3 28-2	5=-1864/0, 33-34=0/2709, 31-33: 9=0/4127, 27-28=0/3025, 26-27=	=0/3905, 30-31=0/4491, 29-30=0 0/1278	/4491,				
WEBS 2-41:	=-705/249, 2-40=-238/350, 3-40= 1207/0, 8-38-0/1565, 6-3870	-260/348, 9-35=-1626/0, 9-37=0	/1158,				
14-3	4=-2722/0, 14-33=0/878, 17-33=	736/0, 17-31=0/486, 19-31=-576	6/52, 5-39=0/516,				
20-29	9=-327/0, 24-26=-1601/0, 24-27= 8=-608/0, 21-29=0/742	:0/1162, 23-27=-1112/0, 23-28=0	///99,				
NOTES-							
1) Unbalanced floor liv	ve loads have been considered fo	r this design.				the second second	
3) All plates are 3x6 M	IT20 unless otherwise indicated.					WH CARO	
4) Plates checked for a5) Provide mechanical	a plus or minus 1 degree rotation I connection (by others) of truss to	about its center. b bearing plate capable of withsta	anding 127 lb uplift at joir	nt 41.		N'OR SESSION IN	112
6) This truss is designed	ed in accordance with the 2015 In ANSI/TEL1	nternational Residential Code sec	ctions R502.11.1 and R8	02.10.2 a	nd	ATA THE	14
7) Recommend 2x6 st	rongbacks, on edge, spaced at 1	0-0-0 oc and fastened to each tr	uss with 3-10d (0.131" X	3") nails.		R. R.	
Strongbacks to be a 8) CAUTION, Do not e	attached to walls at their outer energet truss backwards.	as or restrained by other means.				SEAL	
9) Hanger(s) or other of	connection device(s) shall be pro-	vided sufficient to support concer	ntrated load(s) 930 lb dov	wn at 16-	10-4 on top	036322	į.,
10) In the LOAD CASE	E(S) section, loads applied to the	face of the truss are noted as fro	ont (F) or back (B).			E A A	. 3
LOAD CASE(S) Stan	dard					TA NGINEEN	15
1) Dead + Floor Live (h	balanced): Lumber Increase=1.00), Plate Increase=1.00				A. GILBEN	11
							0

Continued on page 2

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 and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

June 28,2022

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 13 Liberty Meadows/Harn		
					152793655		
J1021-6185	F3	Floor	1	1			
					Job Reference (optional)		
Comtech, Inc,	Fayetteville, NC - 28314,		8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 28 09:16:54 2022 Page 2				
		ID: LID2 bNirdpol XA5mDb252yZn2LLym\/1ybBo_20XyyN_pOMol 0iLr0BoCBo1CXintm9z1oMd					

ID:JJp3_bNirdpeLXA5mDh?5?y7p3U-ymV1yhPa_29YwN_pOMcL9jLr9PoGPc1GXintm8z1oMd

LOAD CASE(S) Standard Uniform Loads (plf) Vert: 26-41=-10, 1-25=-100 Concentrated Loads (lb) Vert: 14=-850(B)

	1570 1570								
Plate Offsets (X,Y)	[5:0-1-8,Edge], [6:0-1-8,Edge]								
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 0.71 WB 0.42 Matrix-S	DEFL. in Vert(LL) -0.17 Vert(CT) -0.23 Horz(CT) 0.05	n (loc) l/defl 7 14-15 >999 8 14-15 >799 5 11 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 79 lb	GRIP 244/190 FT = 20%F, 11%E		
LUMBER- BRACING- TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) WEBS 2x4 SP No.3(flat) BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.									
REACTIONS. (size) 18=0-3-0, 11=0-3-8 Max Grav 18=837(LC 1), 11=837(LC 1)									
FORCES. (lb) - Max. TOP CHORD 2-3= 8-9= 8-9= BOT CHORD 17-1	. Comp./Max. Ten All forces 250 (lb) or -1726/0, 3-4=-2770/0, 4-5=-2770/0, 5-6= -1726/0 8=0/1045, 16-17=0/2371, 15-16=0/3060. 12-0/1045	less except when shown. -3060/0, 6-7=-2770/0, 7-8 14-15=0/3060, 13-14=0/3	=-2770/0, 3060, 12-13=0/2371,						
WEBS 2-18 8-12	=-1308/0, 2-17=0/886, 3-17=-840/0, 3-16 =-840/0, 8-13=0/510, 6-13=-645/6, 5-16=	6=0/510, 9-11=-1308/0, 9- 645/6	12=0/886,						
 NOTES- 1) Unbalanced floor lix 2) All plates are 1.5x3 3) Plates checked for 4) This truss is design referenced standare 5) Recommend 2x6 st Strongbacks to be a 	re loads have been considered for this de MT20 unless otherwise indicated. a plus or minus 1 degree rotation about i ed in accordance with the 2015 Internatio d ANSI/TPI 1. rongbacks, on edge, spaced at 10-0-0 co attached to walls at their outer ends or re	esign. Is center. onal Residential Code sec c and fastened to each tru strained by other means.	tions R502.11.1 and R8 uss with 3-10d (0.131" >	02.10.2 and (3") nails.					

15 7 0

The manual of the second

11111

 			<u>17-0-0</u> 17-0-0					
Plate Offsets (X,Y)	[5:0-1-8,Edge]							
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.70 BC 0.95 WB 0.48 Matrix-S	DEFL. ir Vert(LL) -0.27 Vert(CT) -0.37 Horz(CT) 0.06	n (loc) l/defl L/d 7 15-16 >748 480 7 15-16 >543 360 6 13 n/a n/a	PLATES MT20 M18AHS Weight: 87 lb	GRIP 244/190 186/179 FT = 20%F, 11%E		
LUMBER- TOP CHORD 2x4 SI BOT CHORD 2x4 SI WEBS 2x4 SI REACTIONS. (siz	P No.1(flat) P No.1(flat) P No.3(flat) e) 21=0-3-0, 13=0-3-8	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing except end verticals. Rigid ceiling directly applie 2-2-0 oc bracing: 16-17,15	directly applied or 6-0-0 d or 10-0-0 oc bracing, -16.) oc purlins, Except:			
Max C FORCES. (lb) - Max TOP CHORD 2-3= 8-10 BOT CHORD 20-2 13- 13-	Max Grav 21=915(LC 1), 13=915(LC 1) FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1923/0, 3-4=-3138/0, 4-5=-3138/0, 5-6=-3635/0, 6-7=-3635/0, 7-8=-3168/0, 8-10=-3168/0, 10-11=-1918/0 BOT CHORD 20-21=0/1147, 18-20=0/2659, 17-18=0/3635, 16-17=0/3635, 15-16=0/3508, 14-15=0/2663, 13-4=0/1146							
WEBS 2-21 11-1 NOTES- 1) Unbalanced floor liv 2) All plates are MT20	=-1436/0, 2-20=0/1010, 3-20=-958/0, 3- 4=0/1006, 10-14=-970/0, 10-15=0/645, 7 re loads have been considered for this de plates unless otherwise indicated.	18=0/611, 5-18=-890/0, 11 ?-15=-434/0, 7-16=-149/52 əsign.	-13=-1435/0, 5					

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

5) 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.

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.

⊢	13-3-0								
1				15-5-0					1
Plate Of	fsets (X,Y)	[1:Edge,0-1-8], [15:0-1-8,Edge]							
LOADIN TCLL TCDL BCLL	G (psf) 40.0 10.0 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.97 BC 0.97 WB 0.43	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.26 13-14 -0.36 13-14 0.05 11	l/defl >691 >509 n/a	L/d 480 360 n/a	PLATES MT20	GRIP 244/190
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S					Weight: 79 lb	FT = 20%F, 11%E
LUMBE TOP CH BOT CH WEBS REACTI	R- ORD 2x4 SF ORD 2x4 SF 2x4 SF ONS. (siz Max G	P No.1(flat) P No.1(flat) P No.3(flat) e) 17=Mechanical, 11=0-3-0 irav 17=834(LC 1), 11=828(LC 1)		BRACING- TOP CHOR BOT CHOR	D Structu D Rigid c	iral wood eiling dire	sheathing dir ectly applied c	ectly applied, except or 2-2-0 oc bracing.	end verticals.
FORCES TOP CH BOT CH WEBS	5. (lb) - Max. ORD 2-3≕ 8-9≕ ORD 16-13 9-11= 4-15:	Comp./Max. Ten All forces 250 (lb) or 1678/0, 3-4=-2890/0, 4-5=-2890/0, 5-6= -1698/0 7=0/1032, 15-16=0/2343, 14-15=0/2890 =-1290/0, 9-12=0/869, 8-12=-842/0, 8-11 =-437/0, 2-17=-1295/0, 2-16=0/841, 3-10	less except when shown. -2890/0, 6-7=-2743/0, 7-8 , 13-14=0/2965, 12-13=0/2 3=0/508, 6-13=-295/0, 6-1 5=-866/0, 3-15=0/903	=-2743/0, 2345, 11-12=0/103 4=-298/319,	30				

15 5 0

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.

4) 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.

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.

BCLL (BCDL 5).0 5.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.46 Matrix-S	Horz(CT) 0.0	5 11 n/a n/a	Weight: 81 lb	FT = 2
LUMBER-	2x4 SP	2 2400F 2.0E(flat)		BRACING- TOP CHORD	Structural wood sheathing di	rectly applied or 6-0-0) oc purlins,
WEBS	2x4 SP 2x4 SP	P No.3(flat)		BOT CHORD	Rigid ceiling directly applied 2-2-0 oc bracing: 13-14.	or 10-0-0 oc bracing,	Except:
REACTIONS	. (size	e) 17=0-3-8, 11=0-3-0			5		

Max Grav 17=844(LC 1), 11=844(LC 1)

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

 TOP CHORD
 2-3=-1719/0, 3-4=-3017/0, 4-5=-3017/0, 5-6=-3017/0, 6-7=-2821/0, 7-8=-2821/0, 8-9=-1738/0

BOT CHORD

9-11=-1316/0, 9-12=0/894, 8-12=-865/0, 8-13=0/535, 6-13=-313/0, 6-14=-289/360, 4-15=-434/0, 2-17=-1320/0, WEBS 2-16=0/866, 3-16=-874/0, 3-15=0/956

NOTES-

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

2) All plates are 3x6 MT20 unless otherwise indicated.

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

4) 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.

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.

= 20%F. 11%E

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 and truss systems, see Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road Edenton, NC 27932

F				13-1-8			
				13-1-8			
LOADIN TCLL TCDL BCLL BCDI	IG (psf) 40.0 10.0 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.41 BC 0.49 WB 0.32 Matrix S	DEFL. i Vert(LL) -0.1 Vert(CT) -0.14 Horz(CT) 0.03	n (loc) l/defl L/d 1 12-13 >999 480 4 12-13 >999 360 3 9 n/a n/a	PLATES MT20	GRIP 244/190
				PRACINC			
TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) WEBS 2x4 SP No.1(flat)			TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.			
D0	241 01	. toto (maty		201 0110110		· · · · · · · · · · · · · · · · · · ·	

REACTIONS. (size) 14=0-3-0, 9=0-3-8 Max Grav 14=702(LC 1), 9=702(LC 1)

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

 TOP CHORD
 2-3=-1385/0, 3-4=-2140/0, 4-5=-2140/0, 5-6=-2140/0, 6-7=-1385/0

BOT CHORD

2-14=-1088/0, 2-13=0/1865, 11-12=0/2140, 10-11=0/1865, 9-10=0/869 2-14=-1088/0, 2-13=0/671, 3-13=-626/0, 3-12=0/555, 4-12=-257/0, 5-11=-257/0, 7-9=-1088/0, 7-10=0/671, WEBS 6-10=-626/0, 6-11=0/555

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) 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.

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.

isDesign	Client:			
isDesign			Date: 6/28/2022	Page 2 of 9
IsDesign	Project:		Input by: Neal Baggett	
	Address:		Job Name: 13 LIBERTY MEADOWS	
			Project #: J0921-5439	
BM1 Kerto-S	LVL 1.750" X	4.000" 2-Ply - PA	SSED Level: Level	
· · · · · · · · · · · · · · · · · · ·	· · · ·	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
Multi-Ply Analysis				
Fasten all plies using 3 re	ows of 10d Box nails (12	3x3") at 12" o.c. Maximum en	d distance not to exceed 6".	
Capacity	93.1 %			
Load	228.5 PLF			
Yield Limit per Foot	245.6 PLF			
Yield Limit per Fastener	81.9 lb.			
Yield Mode	IV			
Edge Distance	1 1/2"			
Min. End Distance	3"			
Load Combination	D+L			
	1.00			

Notes	chemicals	6. For flat roofs provide proper drainage to prevent	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design oriteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads. Lumber 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive	Handling & Installation 1. LVL beams must not be cut or drilled 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals 3. Damaged Beams must not be used 4. Design assumes top edge is laterally restrained 5. Provide lateral support at bearing points to avoid lateral displacement and rotation	ponding This design is valid until 11/3/2024	Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us	Fayetteville, NC USA 22314 910-864-TRUS

		С	lient:				Date	: 6/28	/2022			Page 3 of 9
		P	roject:				Input	t by: Neal	Baggett			
	isDesign	A	ddress:				Job I	Name: 13 L	IBERTY MEADOWS			
-							Proje	ect #: J092	1-5439			
GDH	Kerto-S L\	/L 1.:	750" >	(24.00	0"	2-Plv - P	ASSED	Level: L	evel			
_						,						
		· · · · · · · · · · · · · · · · · · ·	•••••	•••••		····· _t <u>····</u>			<u></u>			
			(4)			S						
	1			3		U	6					
•		•	•			•			•			
											M	
	and the second				att in the			and the second	•		M	2'
- A Torres		Contraction of the										
1 SPF	End Grain						2 SF	PF End Grain				
				17'							´ ´ 3 ´	1/2"
ľ				17'					7			
Momber	Information						Doostions					
Type:	Girdor		Applicati	on: "	loor		Bra Dirocti			Snow	۱۸/۱۰۰۰	Conct
Type: Plies:	Girder 2		Design M	on: r Aethod: 4	-1001 ASD		Big Direcu	ion L	Live Dead	Show	vvina	Const
Moisture C	condition. Drv		Building	Code I	BC 2012		1 Vertica		0 6289	5720	0	0
Deflection	LL: 480		Load Sha	arina: N	No		2 venica	II	0 0200	5720	0	0
Deflection	TL: 360		Deck:	1	Not Check	ed						
Importance	e: Normal - II											
Temperatu	re: Temp <= 100)°F										
							Bearings					
							Bearing Le	ength Dir.	Cap. React D/L I	o Total	Ld. Case	Ld. Comb.
							1 - SPF 4.	.500" Vert	93% 6439 / 584	9 12288	L	D+S
	Dec. He						End					
Analysis	Results							500" Vert	91% 6288 / 572	0 12007	1	D+S
Analysis	Actual	Location A	llowed	Capacity	Comb.	Case	End		01,0 0200,012	12001	-	2.0
Moment	49112 ft-lb	9' 5/16" 84	4163 ft-lb	0.584 (58%	6) D+S	L	Grain					
Unbraced	49112 π-Ib	9. 5/16. 49	9247 π-Ib	0.997 (100%)	D+S	L						
Shear	10476 lb	2'4 1/2" 20	0608 lb	0.508 (51%	6) D+S	L						
LL Defl ind	ch 0.178 (L/1107)	8'6 1/2" 0.	.410 (L/480)	0.433 (43%	6) S	L						
TL Defl in	ch 0.379 (L/519)	8'6 7/16" 0.	.547 (L/360)	0.693 (69%	6) D+S	L						
Design N	otes						ſ					
1 Provide	support to prevent late	ral movement	and rotation	at the end b	earings. L	ateral support	4					
may also	o be required at the inte	erior bearings l	by the build	ing code.	g							
2 Fasten a	all plies using 3 rows of d 6"	f 10d Box nails	(.128x3") a	t 12" o.c. Ma	ximum en	d distance not						
3 Refer to	last page of calculation	ns for fasteners	s required fo	or specified lo	oads.							
4 Girders	are designed to be sup	ported on the	bottom edge	e only.								
5 Top load	is must be supported e	qually by all pl	ies.									
o Top mus 7 Bottom	n be laterally braced at must be laterally braced	a maximum of d at end bearin	i 3 '0 1/4" 0.(nas.	J.								
8 Lateral s	slenderness ratio based	d on single ply	width.									
ID	Load Type	Lo	ocation 1	rib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6 Const.	1.25 Com	ments	
1	Part. Uniform	0-0-0	to 4-6-8		Тор	380 PLF	0 PLF	380 PLF	0 PLF 0	PLF C2		
2	Point		4-8-0		Тор	3500 lb	0 lb	3500 lb	0 lb	0 lb C3		
	Bearing Length		0-3-8									
3	Part Uniform	4_0_8 to	11_9_8		Top	120 DI E	이 더 더	이 미 ㄷ			I	
Continued on	n page 2				.96			VILF	5121 0	· L· VVAL	-	
Sommed Of	, pago 2											
<u> </u>								Manufa	cturer Info	Comtech Ir	IC.	
Notes Calculated Struct	ured Designs is responsible only	chemicals of the Handling	& Installatio	n	6. F	or tlat roofs provide pl onding	oper drainage to prev	Metsä V	Vood	1001 S. Rei Fayetteville	lly Road, Suite # NC	639
structural adequa design criteria	acy of this component based or and loadings shown. It is	n the 1. LVL beam the 2. Refer to	ns must not be cut manufacturer	or drilled s product infor	mation			301 Mer	ritt 7 Building, 2nd Floor	USA 28314		
responsibility of t ensure the com	the customer and/or the contract nponent suitability of the inte	tor to regarding inded fastening	installation details, beam st	requirements, m rength values, an	ulti-ply d code			(800) 62	22-5850	910-864-TF	105	
Lumber	o vonty the dimensions and loads.	approvals 3. Damaged	Beams must not	be used	d			www.me	etsawood.com/us			
 Dry service co LVL not to be 	onditions, unless noted otherwise treated with fire retardant or corr	 Design as Provide la lateral disi 	ateral support at placement and ro	bearing points to tation	avoid	bia daalan la valid	until 11/2/2024			C	omt	есн

isDesign	Client: Project: Address:	Date: Input by: Job Nam	6/28/2022 Neal Baggett ne: 13 LIBERTY MEADOWS	Page 5 of
GDH Kerto-S LVL	1.750" X 24.000"	Project #	: J0921-5439 Level: Level	
· · · · · ·			· · ·	Π $$
			1/2"	2'
1 SPF End Grain		2 SPF E	Ind Grain	
4	17'			3 1/2"
lulti-Ply Analysis				
Isten all plies using 3 rows of Ipacity 0.0	10d Box nails (.128x3") at 12"	o.c Maximum end distance r	ot to exceed 6".	
ad 0.0 eld Limit per Foot 24) PLF 5.6 PLF			
Id Limit per Fastener 81.	9 lb.			
ge Distance 1 1	/2"			
n. End Distance 3"				
ad Combination	0			
Notes	chemicals	6. For flat roofs provide proper drainage to prevent	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639
Calculated Structured Designs is responsible only of the tructural adequacy of this component based on the lesign criteria and loadings shown. It is the esponsibility of the customer and/or the contractor to onsure the component suitability of the intended pullication and to profit the intended pullication and to profit the suitability of the intended pullication and to profit the suitability of the intended pullication and the profit the suitability of th	 nationing & instalilation LVL beams must not be cut or drilled Refer to manufacturer's product information regarding instaliation requirements, multi-ply fastering details, beam strength values, and code 	,g	Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850	rayetteville, NC USA 28314 910-864-TRUS
upprecauon, and to verify the dimensions and loads. Lumber 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive	approvals 3. Damaged Beams must not be used 4. Design assumes top edge is laterally restrained 5. Provide lateral support at bearing points to avoid lateral displacement and rotation	This design is valid until 11/3/2024	www.metsawood.com/us	соттесн
rsion 21.80.417 Powered by iStruct™ Datase	at: 22022301 1		1	

Version 21.80.417 Powered by iStruct[™] Dataset: 22022301.1

	Client:	Date:	6/28/2022	Page 7 of 9
isDesign	Project: Address:	Input by: Job Nam	Neal Baggett e: 13 LIBERTY MEADOWS	
			: J0921-5439	
BM2 Kerto-S LVL	1.750" X 9.250"	2-Ply - PASSED		
• •	• •	• •	• 5	
			1 1/2	9 1/
• •	• •	• •	•	
1 SPF End Grain		2 SPF En	d Grain	
	6'7"			3 1/2"
1	6'7"		1	
Multi-Ply Analysis				
Fasten all plies using 2 rows of	10d Box nails (.128x3") at 12"	o.c Maximum end distance r	ot to exceed 6".	
Capacity 0.0	%			
Yield Limit per Foot 163.	.7 PLF			
Yield Limit per Fastener 81.9 Yield Mode IV) lb.			
Edge Distance 1 1/2	2"			
Min. End Distance 3"				
Duration Factor 1.00)			
Notes Calculated Structured Designs is responsible only of the structural adequacy of this component based on the	chemicals Handling & Installation 1. LVL beams must not be cut or drilled	 For flat roofs provide proper drainage to prevent ponding 	Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Floor	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA
uesign criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.	 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvale 		Norwalk, CT 06851 (800) 622-5850	910-864-TRUS
Lumber 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive	 Damaged Beams must not be used Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation 	This design is valid until 44/9/0094	www.metsawoou.com//us	соттесн
Ι		. no acorgin is valid unui 11/3/2024	I	

isDesi	gn	Client: Project: Address:		Date: Input by: Job Name: Project #:	6/28/2022 Neal Baggett 13 LIBERTY MEADOWS J0921-5439	Page 9 of 9
FB1 SP #	2 2.000'	' X 10.000"	2-Ply - PASSED	L	evel: Level	
•	•	• •	•••	•		9 1/4
•	•	• •	• •		• • • • • • • • • • • • • • • • • • •	
/		7	1			3"
Multi-Ply Analysi	S					
Fasten all plies usi Capacity Load	ng 3 rows of 10d 69.2 % 242.0 PLI	Box nails (.128x3")	at 12" o.c Maximum end d	istance no	t to exceed 6".	
Yield Limit per Foot Yield Limit per Fastener Yield Mode	349.5 PLI 116.5 lb. IV	F				
Edge Distance Min. End Distance	1 1/2" 3"					
Load Combination	D+S 1.15					
	1.10					
					Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC
						USA 28314 910-864-TRUS
			This design is valid until 11/	2/2024		соттесн

This design is valid until 11/3/2024