

RE: J0822-3968 Ben Stout/Lot 47 Liberty Meadows/Harnett

Site Information:

Customer: Project Name: J0822-3968 Lot/Block: Address: City:

Model: Subdivision: State:

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

Design Code: IRC2015/TPI2014 Wind Code: N/A Roof Load: N/A psf Design Program: MiTek 20/20 8.4 Wind Speed: N/A mph Floor Load: 55.0 psf

This package includes 11 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	150350606	F01	2/22/2022
2	150350607	F02	2/22/2022
3	150350608	F02G	2/22/2022
4	150350609	F03	2/22/2022
5	150350610	F03G	2/22/2022
6	150350611	F04	2/22/2022
7	150350612	F05	2/22/2022
8	150350613	F06G	2/22/2022
9	150350614	F07G	2/22/2022
10	150350615	KW1	2/22/2022
11	150350616	KW2	2/22/2022

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

Truss Engineering Co. under my direct supervision

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

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

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

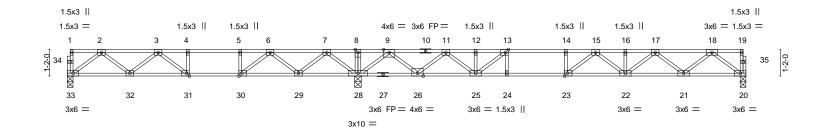


Gilbert, Eric

Trenco 818 Soundside Rd Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 47 Liberty Meadows/Harnett
					150350606
J0822-3968	F01	Floor	6	1	
					Job Reference (optional)
Comtech, Inc, Fayettev	ille, NC - 28314,	8.430 s Aug 16 2021 MiTek Industr			16 2021 MiTek Industries, Inc. Mon Feb 21 13:44:15 2022 Page 1
Comtech, Inc, Fayettev	ille, NC - 28314,	Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 13:44:15 20			





	<u>12-9-12</u> 12-9-12				<u>29-1</u> 17-			
Plate Offsets (X		1-8,Edge], [31:0-1-8,Edge]			17-	1-4		
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	Plate Grip DOL 1.00 Lumber DOL 1.00	CSI. TC 0.90 BC 0.73 WB 0.57	Vert(LL) -0.28	(loc) 22-23 22-23 20	l/defl >731 >536 n/a	L/d 480 360 n/a	PLATES MT20	GRIP 244/190
BCDL 5.0		Matrix-S	11012(01) 0.00	20	n/a	174	Weight: 148 lb	FT = 20%F, 11%E
BOT CHORD	2x4 SP No.1(flat) 2x4 SP No.1(flat) *Except* 20-27: 2x4 SP 2400F 2.0E(flat) 2x4 SP No.3(flat)	· · · · · ·	BRACING- TOP CHORD BOT CHORD	except of	end verti	cals.	ectly applied or 2-2-0 o	oc purlins,
REACTIONS.	(size) 33=0-3-0, 28=0-3-8, 20=0-3-0 Max Grav 33=617(LC 3), 28=1881(LC 1), 20=	-848(LC 4)						
FORCES. (Ib) TOP CHORD	- Max. Comp./Max. Ten All forces 250 (lb) or 2-3=-1184/0, 3-4=-1629/80, 4-5=-1629/80, 5- 8-9=0/1791, 9-11=-859/222, 11-12=-2275/0, 14-15=-3038/0, 15-16=-2844/0, 16-17=-2844	-6=-1629/80, 6-7=-630/669 12-13=-2275/0, 13-14=-30	, ,					
BOT CHORD	32-33=0/759, 31-32=0/1549, 30-31=-80/1629 26-28=-580/0, 25-26=0/1704, 24-25=0/3038, 20-21=0/1055							
WEBS 2-33=-950/0, 2-32=0/553, 3-32=-476/42, 3-31=-252/101, 7-28=-1273/0, 7-29=0/842, 6-29=-873/0, 6-30=0/854, 5-30=-382/0, 9-28=-1616/0, 9-26=0/1202, 11-26=-1148/0, 11-25=0/769, 18-20=-1321/0, 18-21=0/900, 17-21=-877/0, 17-22=0/541, 15-22=-303/0, 15-23=-336/242, 13-25=-1203/0, 13-24=0/287								
 All plates are Plates checked Recommend Strongbacks 	loor live loads have been considered for this d 3x4 MT20 unless otherwise indicated. ed for a plus or minus 1 degree rotation about i 2x6 strongbacks, on edge, spaced at 10-0-0 of to be attached to walls at their outer ends or re-	ts center. oc and fastened to each true	ss with 3-10d (0.131" X	3") nails.			HUNHTH CA	NROJINI

5) CAUTION, Do not erect truss backwards.

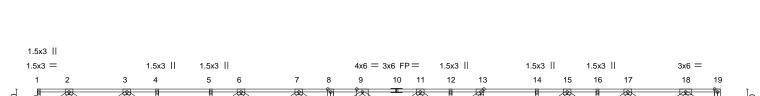


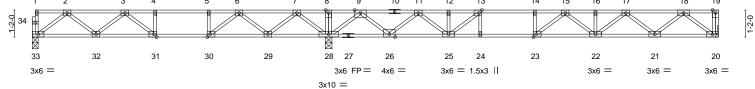
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 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



Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 47 Liberty Meadows/Harnett			
					150350607			
J0822-3968	F02	Floor Girder	1	1				
					Job Reference (optional)			
Comtech, Inc, Fayetteville, NC - 28314, 8.430				8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 13:44:17 2022 Page 1				
· · · •		ID:	FcNqFeBM	DbEpQt48	prlavzQQxj-z7JQVjoqBVOqkqYgnl85RWXdkpEU4Y46MaMU5lziuri			
0-1-8								
H⊢ <u>1-3-0</u>	2-2-4			F	2-2-12 Scale - 1:49.8			

Scale = 1:49.8





 	12-9-12 12-9-12			29-8-0 16-10-4					
Plate Offsets (X,Y)-		1-8,Edge], [31:0-1-8,Edge]			10-10-4			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYES	CSI. TC 0.88 BC 0.68 WB 0.56	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (lo -0.24 22-2 -0.33 22-2 0.04	23 >829	L/d 480 360 n/a	PLATES MT20	GRIP 244/190	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S					Weight: 148 lb	FT = 20%F, 11%E	
BOT CHORD 2x4 20-3	SP No.1(flat) SP No.1(flat) *Except* 27: 2x4 SP 2400F 2.0E(flat) SP No.3(flat)		BRACING- TOP CHOR BOT CHOR	exc	cept end ver	ticals.	rectly applied or 2-2-0 o or 6-0-0 oc bracing.	oc purlins,	
Ma	size) 33=0-3-0, 28=0-3-8, 20=Mechanica x Grav 33=615(LC 3), 28=1873(LC 1), 20=	838(LC 4)							
TOP CHORD 2- 8-	ax. Comp./Max. Ten All forces 250 (lb) or .3=-1179/0, 3-4=-1617/88, 4-5=-1617/88, 5- .9=0/1826, 9-11=-813/249, 11-12=-2206/0, 4-15=-2925/0, 15-16=-2763/0, 16-17=-2763	6=-1617/88, 6-7=-612/683 12-13=-2206/0, 13-14=-29	3, 7-8=0/1826,						
BOT CHORD 32 26	2-33=0/757, 31-32=0/1542, 30-31=-88/1617 6-28=-574/0, 25-26=0/1645, 24-25=0/2925, 0-21=0/1035	7, 29-30=-413/1189, 28-29		0,					
6- 11	.33=-946/0, 2-32=0/550, 3-32=-473/45, 3-3 .29=-878/0, 6-30=0/858, 5-30=-384/0, 9-28 1-25=0/761, 18-20=-1299/0, 18-21=0/875, 5-23=-357/217, 13-25=-1145/0, 13-24=0/27	=-1599/0, 9-26=0/1186, 11 17-21=-850/0, 17-22=0/51	-26=-1133/0,						
 2) All plates are 3x² 3) Plates checked for 4) Refer to girder(s) 	r live loads have been considered for this d 4 MT20 unless otherwise indicated. or a plus or minus 1 degree rotation about i 6 for truss to truss connections. 6 strongbacks, on edge, spaced at 10-0-0 c	ts center.	uss with 3-10d (0.1	31" X 3") r	nails.		TH CA	NROLING Distant	

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

6) CAUTION, Do not erect truss backwards.

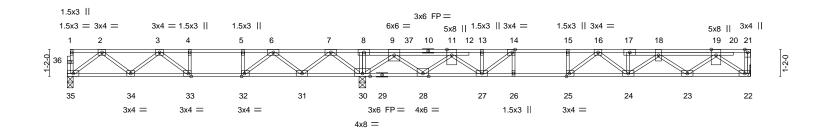


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 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



ſ	lob	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 47 Liberty Meadows/Harnett		
	10822-3968	F02G	Floor Girder	1	1	1503506	8	
						Job Reference (optional)		
	Comtech, Inc, Fayetteville, NC - 28314,			8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 13:44:18 2022 Page 1				
			ID:IFcNqFeBMDbEpQi48prlavzQQxj-RKspi3pSyoWhL_6sKTfKzk3nIDZhpz7FbE52dBziurh					

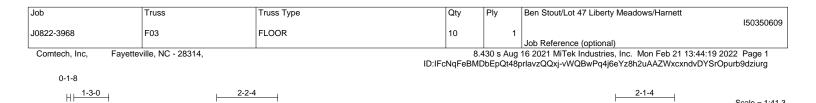




	12-9-12 12-9-12			<u> </u>					
Plate Offsets (X,Y)		-1-8,Edge], [33:0-1-8,Edg	e]						
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.95 BC 0.74 WB 0.64 Matrix-S	Vert(LL) -0.24	n (loc) l/defl 4 24-25 >835 3 24-25 >600 5 22 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 160 lb	GRIP 244/190 FT = 20%F, 11%		
10 BOT CHORD 2x 22	4 SP No.1(flat) *Except* -21: 2x4 SP 2400F 2.0E(flat) 4 SP No.1(flat) *Except* -29: 2x4 SP 2400F 2.0E(flat) 4 SP No.3(flat)	-	BRACING- TOP CHORD BOT CHORD	except end ver	ticals.	otly applied or 6-0-0 6-0-0 oc bracing.	oc purlins,		
REACTIONS.	(size) 35=0-3-0, 30=0-3-8, 22=Mechanica ax Grav 35=583(LC 3), 30=2312(LC 1), 22=								
TOP CHORD	Max. Comp./Max. Ten All forces 250 (lb) o 2-3=-1103/0, 3-4=-1421/197, 4-5=-1421/197 8-9=0/2197, 9-11=-1380/0, 11-13=-2770/0, 15-16=-3488/0, 16-17=-3327/0, 17-18=-333 34-35=0/715, 33-34=0/1421, 32-33=-197/14 28-30=-209/369, 27-28=0/2357, 26-27=0/34 23-24=0/3062, 22-23=0/1307 2-35=-894/0, 2-34=0/505, 3-34=-414/77, 3-3 5-31=-916/0, 6-32=0/911, 5-32=-405/0, 9-30 11-27=0/570, 13-27=0/335, 19-22=-1604/0, 18-24=-12/330, 16-24=-284/21, 16-25=-360/	, 5-6=-1421/197, 6-7=-29 13-14=-2757/0, 14-15=-34 3/0, 18-19=-2195/0 21, 31-32=-564/918, 30-3 88, 25-26=0/3488, 24-25= 3=-309/18, 7-30=-1448/0, =-2473/0, 9-28=0/1347, 1 19-23=0/1128, 18-23=-11	5/860, 7-8=0/2198, 488/0, 1=-1139/0, =0/3550, 7-31=0/873, 1-28=-1302/0,						
 All plates are 3: Plates checked Refer to girder(Recommend 2x Strongbacks to CAUTION, Do r Hanger(s) or otti 230 lb down at 	or live loads have been considered for this d 66 MT20 unless otherwise indicated. for a plus or minus 1 degree rotation about s) for truss to truss connections. 66 strongbacks, on edge, spaced at 10-0-0 be attached to walls at their outer ends or re not erect truss backwards. her connection device(s) shall be provided s 25-4-8 on top chord. The design/selection ASE(S) section, loads applied to the face of the	its center. cc and fastened to each tr estrained by other means. ufficient to support concer of such connection device	ntrated load(s) 498 lb do	wn at 14-9-12, a	nd	SEA 0363			
LOAD CASE(S) 3 1) Dead + Floor Li	Standard ve (balanced): Lumber Increase=1.00, Plate (plf)	e Increase=1.00			in the second seco	ANGIN Fabria	EERPALIUM		

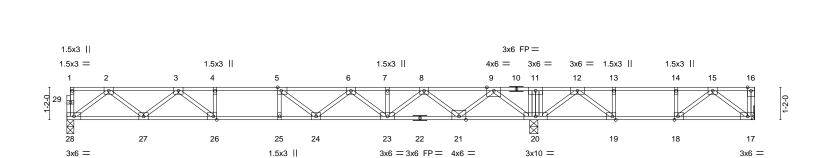
818 Soundside Road Edenton, NC 27932

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 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



 \vdash

Scale = 1:41.3

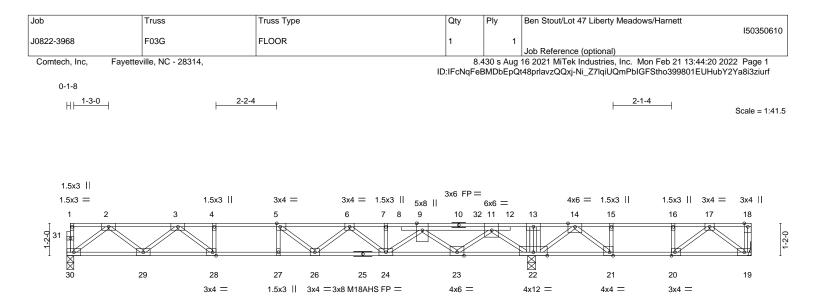


L	16-9-0			<u>16-9-8 24-8-0</u>				
Plate Offsets (X,Y) [5:0-1-8,Ed	dge], [18:0-1-8,Edge], [19:0-1-	<u>16-9-0</u> -8.Edae]. [26:0-1-8.Edae]			0-0-8	7-10-8		
LOADING (psf) SPA TCLL 40.0 Plate TCDL 10.0 Lum BCLL 0.0 Rep	ACING- 2-0-0 te Grip DOL 1.00 nber DOL 1.00 o Stress Incr NO de IRC2015/TPI2014	CSI. TC 0.97 BC 0.72 WB 0.55 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.25 24-25 -0.34 24-25 0.04 20	>801 480 >594 360	PLATES MT20 Weight: 125 lb	GRIP 244/190 FT = 20%F, 11%E	
LUMBER- TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) *Except* 22-28: 2x4 SP 2400F 2.0E(flat) WEBS 2x4 SP No.3(flat)			BRACING- TOP CHOR BOT CHOR	excep	ural wood sheathing d ot end verticals. ceiling directly applied	lirectly applied or 6-0-0 o	oc purlins,	
Max Uplift 17=-74	REACTIONS. (size) 20=0-3-8, 28=0-3-0, 17=Mechanical Max Uplift 17=-74(LC 3) Max Grav 20=3473(LC 1), 28=828(LC 10), 17=357(LC 4)							
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1677/0, 3-4=-2912/0, 4-5=-2913/0, 6-7=-2261/0, 7-8=-2261/0, 8-9=-881/0, 9-11=0/1587, 11-12=0/1587, 12-13=-510/481, 13-14=-510/481, 14-15=-510/481 BOT CHORD 27-28=0/1029, 26-27=0/2350, 25-26=0/2912, 24-25=0/2912, 23-24=0/2767, 21-23=0/1698, 19-20=-997/98, 18-19=-481/510, 17-18=-136/375 WEBS 11-20=-2021/0, 9-20=-1640/0, 9-21=0/1150, 8-21=-1093/0, 8-23=0/749, 6-23=-669/0, 6-24=0/344, 5-24=-352/171, 12-20=-937/0, 12-19=0/928, 13-19=-443/0, 2-28=-1288/0, 2-27=0/844, 3-27=-877/0, 15-17=-470/171, 3-26=0/837, 4-26=-326/0, 15-18=-440/172								
NOTES- 1) Unbalanced floor live loads hav 2) All plates are 3x4 MT20 unless 3) Plates checked for a plus or min 4) Refer to girder(s) for truss to tru 5) Provide mechanical connection 6) Recommend 2x6 strongbacks, Strongbacks to be attached to v 7) CAUTION, Do not erect truss b LOAD CASE(S) Standard 1) Dead + Floor Live (balanced): L Uniform Loads (plf) Vert: 17-28=-10, 1-16= Concentrated Loads (lb) Vert: 11=-1833	to therwise indicated. inus 1 degree rotation about it uss connections. In (by others) of truss to bearin on edge, spaced at 10-0-0 o walls at their outer ends or resp backwards. Lumber Increase=1.00, Plate	s center. g plate capable of withsta c and fastened to each tr strained by other means.			2	SEA 0363	22 EERER III	



A. GILBE A. GILD February 22,2022

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



16-<mark>₽-</mark>8

24-8-0

	16-9-0			0-0-8 7-10-8			
Plate Offsets (X,Y)	[5:0-1-8,Edge], [20:0-1-8,Edge], [21:0-			0-0-8		7-10-8	
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 0.81 BC 0.78 WB 0.58 Matrix-S	Vert(LL) -0.2	in (loc) l/defl 7 26-27 >741 7 26-27 >546 4 22 n/a	L/d 480 360 n/a	PLATES MT20 M18AHS Weight: 131 lb	GRIP 244/190 186/179 FT = 20%F, 11%E
BOT CHORD 2x4 S 25-30	3: 2x4 SP 2400F 2.0E(flat)		BRACING- TOP CHORD BOT CHORD	except end ver	ticals.	ectly applied or 6-0-0 o	oc purlins,
Max	ze) 22=0-3-8, 30=0-3-0, 19=Mechanic Uplift 19=-127(LC 3) Grav 22=3896(LC 1), 30=849(LC 10), 1						
TOP CHORD 2-3= 9-11 16-1 BOT CHORD 29-3 21- WEBS 13-2 6-26 2-3	 Comp./Max. Ten All forces 250 (lb) c =-1725/0, 3-4=-3036/0, 4-5=-3036/0, 5-6 1=-1164/0, 11-13=0/1981, 13-14=0/1970 17=-333/675 30=0/1055, 28-29=0/2428, 27-28=0/3036 :22=-1323/0, 20-21=-675/333, 19-20=-20 :22=-2067/0, 11-22=-2334/0, 11-23=0/12 :60=0/284, 5-26=-257/234, 5-27=-250/11, :60=-1321/0, 2-29=0/872, 3-29=-916/0, 17 20=-606/27, 16-20=-41/292 	=-3086/0, 6-7=-2472/0, 7-5 1, 14-15=-333/675, 15-16=- 5, 26-27=0/3036, 24-26=0/: 10/312 16, 9-23=-1158/0, 9-24=0/: 14-22=-1009/0, 14-21=0/10	9=-2482/0, 333/675, 2972, 23-24=0/2052, 567, 6-24=-658/0, 098, 15-21=-538/0,				
 All plates are MT20 All plates are 3x6 M Plates checked for Refer to girder(s) fr Provide mechanica Recommend 2x6 s Strongbacks to be CAUTION, Do not Hanger(s) or other chord. The design. 	ve loads have been considered for this of D plates unless otherwise indicated. MT20 unless otherwise indicated. a plus or minus 1 degree rotation about or truss to truss connections. al connection (by others) of truss to beari trongbacks, on edge, spaced at 10-0-0 attached to walls at their outer ends or n erect truss backwards. connection device(s) shall be provided s /selection of such connection device(s) i SE(S) section, loads applied to the face of	its center. ng plate capable of withsta oc and fastened to each tri estrained by other means. sufficient to support concer s the responsibility of other	uss with 3-10d (0.131") ntrated load(s) 471 lb dc rs.	X 3") nails.	top	SEA 0363	
LOAD CASE(S) Star	ndard (balanced): Lumber Increase=1.00, Plate					A. C.	BELIN

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 ev. 5/19/2/2/2/ 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

16-9-0



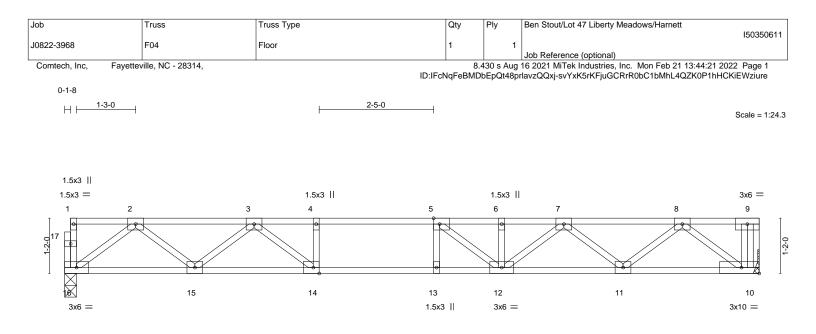
Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 47 Liberty Meadows/Harnett
					150350610
J0822-3968	F03G	FLOOR	1	1	
					Job Reference (optional)
Comtech, Inc,	Fayetteville, NC - 28314,	8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 13:44:20 2022 Page			
		ID:IFcNqFeBMDbEpQt48prlavzQQxj-Ni_Z7lqiUQmPbIGFStho399801EUHubY2Ya8i3ziurf			

LOAD CASE(S) Standard Concentrated Loads (Ib)

Vert: 13=-1833 32=-391(F)

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





 			<u>14-8-0</u> 14-8-0			
Plate Offsets (X,Y)	[5:0-1-8,Edge], [14:0-1-8,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 0.66 BC 0.87 WB 0.37 Matrix-S	Vert(LL) -0.20	n (loc) l/defl L/d 0 12-13 >862 480 7 12-13 >649 360 4 10 n/a n/a	PLATES MT20 Weight: 75 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SP	Y No.1(flat) Y No.1(flat) Y No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied or		oc purlins,

REACTIONS.	(size)	16=0-3-0, 10=Mechanical
	Max Grav	16=787(LC 1), 10=793(LC 1)

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

TOP CHORD 2-3=-1583/0, 3-4=-2656/0, 4-5=-2656/0, 5-6=-2566/0, 6-7=-2566/0, 7-8=-1657/0

BOT CHORD 15-16=0/978, 14-15=0/2184, 13-14=0/2656, 12-13=0/2656, 11-12=0/2229, 10-11=0/1055

WEBS 8-10=-1284/0, 8-11=0/783, 7-11=-745/0, 7-12=0/431, 2-16=-1225/0, 2-15=0/787,

3-15=-783/0, 3-14=0/786, 4-14=-350/0, 5-12=-472/154

NOTES-

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

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

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

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

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

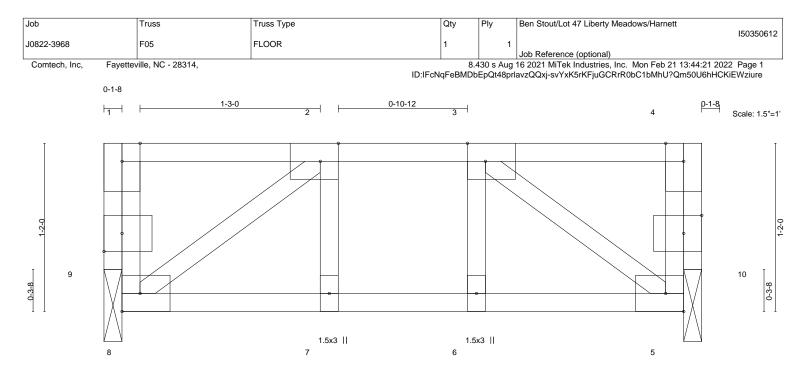
Strongbacks to be attached to walls at their outer ends or restrained by other means.

6) CAUTION, Do not erect truss backwards.



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/TP11** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





⊢			<u>4-1-12</u> 4-1-12			
Plate Offsets (X,Y)	[2:0-1-8,Edge], [3:0-1-8,Edge], [9:0-1-8,	0-1-8], [10:0-1-8,0-1-8]				
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 0.09 BC 0.06 WB 0.05 Matrix-S	DEFL. ir Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) 0.00	7 >999 480 7 >999 360	PLATES MT20 Weight: 24 lb	GRIP 244/190 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)			BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied o		2 oc purlins,

REACTIONS. (size) 9=0-1-8, 10=0-1-8 Max Grav 9=207(LC 1), 10=207(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) All plates are 3x4 MT20 unless otherwise indicated.

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

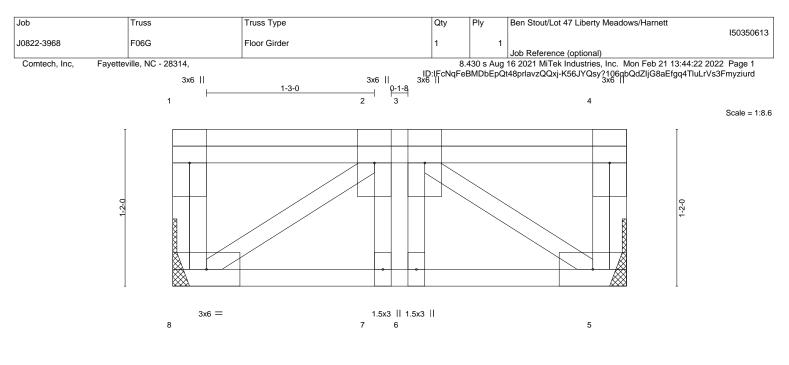
 Bearing at joint(s) 9, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9, 10.
- 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.



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

A MITEK Affiliate A MITEK Affiliate 818 Soundside Road Edenton, NC 27932



3x6 =

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

			<u>3-4-8</u> <u>3-4-8</u>					
LOADING (psf)	SPACING- 2-	-0-0 CSI.	DEFL.	in (loc) l/d	efl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1	1.00 TC C	0.10 Vert(LL)	0.00	7 >9	99 480	MT20	244/190
TCDL 10.0	Lumber DOL 1	1.00 BC C	0.18 Vert(CT)	-0.01	7 >9	99 360		
BCLL 0.0	Rep Stress Incr	NO WB C	0.18 Horz(CT)	0.00	5 r	n/a n/a		
BCDL 5.0	Code IRC2015/TPI20	14 Matrix-S	-S				Weight: 27 lb	FT = 20%F, 11%E
LUMBER-			BRACING-					
TOP CHORD 2x4 SP BOT CHORD 2x4 SP	TOP CHORE			vood sheathing di verticals.	rectly applied or 3-4-8	oc purlins,		

BOT CHORD

BOT CHORD2x4 SP No.1(flat)WEBS2x4 SP No.3(flat)

REACTIONS. (size) 8=Mechanical, 5=Mechanical Max Grav 8=546(LC 1), 5=491(LC 1)

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

TOP CHORD 2-3=-629/0

BOT CHORD 7-8=0/629, 6-7=0/629, 5-6=0/629

WEBS 2-8=-761/0, 3-5=-761/0

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) 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) 735 lb down at 1-6-4 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: 5-8=-10, 1-4=-100 Concentrated Loads (lb) Vert: 2=-693(B)



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



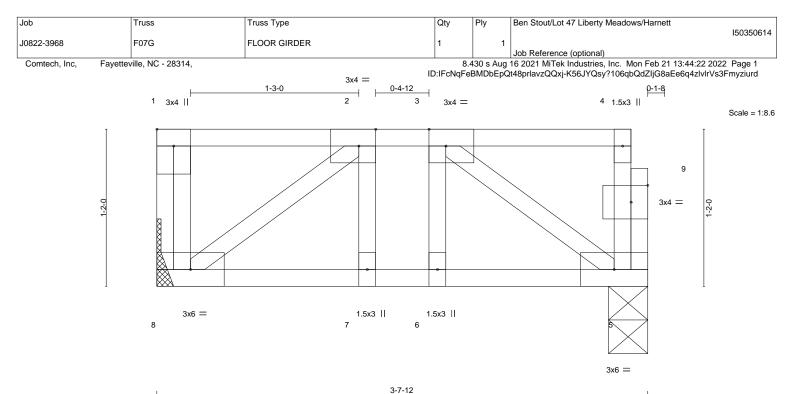


Plate Offsets (X,Y) [1	l:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8	,Edge], [9:0-1-8,0-1-8]	3-7-12					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrNOCode IRC2015/TPI2014	CSI. TC 0.13 BC 0.14 WB 0.09 Matrix-S	DEFL. Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) 0.0	1 7-8	>999	L/d 480 360 n/a	PLATES MT20 Weight: 23 lb	GRIP 244/190 FT = 20%F, 11%E
REACTIONS. (size)	No.1(flat) No.3(flat)		BRACING- TOP CHORD BOT CHORD	excep	t end vert	icals.	irectly applied or 3-7-1 or 10-0-0 oc bracing.	2 oc purlins,
TOP CHORD 2-3=-2: BOT CHORD 7-8=0/: WEBS 2-8=-30 NOTES- 1) Unbalanced floor live	comp./Max. Ten All forces 250 (lb) o 97/0 297, 6-7=0/297, 5-6=0/297 67/0, 3-5=-363/0 loads have been considered for this d olus or minus 1 degree rotation about	esign.						

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

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.

LOAD CASE(S) Standard 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

```
Uniform Loads (plf)
```

Vert: 5-8=-10, 1-4=-100 Concentrated Loads (lb) Vert: 7=-197



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/TP11** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



ob	Truss		Truss Type				Qty	Ply	Ben Stout/L	ot 47 Lib	erty Mea	adows/H	arnett		1502	50615
0822-3968	KW1		Floor Support	ed Gable			1	1							1505	50015
									Job Referen	nce (optio	onal)					
Comtech, Inc, Fayetter	ville, NC - 28314,								6 2021 MiT sprlavzQQxj							
0.1.8						10.11	civqi eb	WDDLpQl40	pnavzoovj	-011420	LD A EI IQ	Svaorijin	KD:JUKC	III DQ00		
0-1-8 H															0-1-8 H	D
															Scale =	= 1:50.0
			3x6 FP	=				3x6 FP								
1 2 3	4 5 6	7	8 9 1) 11	12 13	14	15	16 17 1	8 19	20	21	22	23	24	2526	
				8	<u>e</u> e		9			8		8	8	8		53
	a a i															53
			~~~~~~~~~~~	~~~~~~					~~~~~~							
51 50 49	48 47 4	6 45	44 4	3 42	41 40 39	38	37	36 3	5 34	33	32	31	30	29	28 27	
3x4 =					3x6 FP =										3x4 =	_

	29-11-0								
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 0.06 BC 0.01 WB 0.03 Matrix-R	Vert(LL) n	in (loc) l/defl L/d /a - n/a 999 /a - n/a 999 00 27 n/a n/a	PLATES MT20 Weight: 124 lb	<b>GRIP</b> 244/190 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)			BRACING- TOP CHORD BOT CHORD	Structural wood sheathing di except end verticals. Rigid ceiling directly applied	<i>y</i>	oc purlins,			

29-11-0

OTHERS 2x4 SP No.3(flat)

REACTIONS. All bearings 29-11-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 51, 27, 50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28

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) 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.



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

Job	Truss	Truss Type	Qty P	Ply	Ben Stout/Lot 47 Liberty Meadows/Harnett	150350616
J0822-3968	KW2	Floor Supported Gable	1	1		130330010
					Job Reference (optional)	
Comtech, Inc, Fayette	ville, NC - 28314,		8.43	0 s Aug	16 2021 MiTek Industries, Inc. Mon Feb 21 13:44:2	25 2022 Page 1
· · · •		ID	IFcNqFeBMDb	EpQt48p	orlavzQQxj-kgnSASurIyPhh39CFRHzmCsBT27iyH0	OHCqlvNHziura
0-1-8						0- <u>1</u> -8
						Scale = 1:41.1
		3x6 FP=				
1 2 3	4 5 6	7 8 9 10 11 1	2 13	14	15 16 17 18 19	20 21
243 <b>a</b>				0		
42 41 40	39 38 37	36 35 34 33 3	2 31 30	29	28 27 26 25 24	23 22
3x4 =			3x6 FP=			3x4 =

<u>24-8-0</u> 24-8-0								
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	<b>CSI.</b> TC 0.06 BC 0.01 WB 0.03 Matrix-R	DEFL. n/ Vert(LL) n/ Vert(CT) n/ Horz(CT) 0.0	a - n/a 999	<b>PLATES</b> MT20 Weight: 102 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E		
LUMBER-     Example       TOP 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 dire except end verticals. Rigid ceiling directly applied o		oc purlins,		

REACTIONS. All bearings 24-8-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 42, 22, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 30, 29, 28, 27, 26, 25, 24, 23

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

#### NOTES-

OTHERS

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.

2x4 SP No.3(flat)

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.



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/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

