

Trenco 818 Soundside Rd Edenton, NC 27932

Re: MasterFarm Mattamy - Sequoia - Farmhouse - Lot 98 Providence creek

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource-Apex,NC.

Pages or sheets covered by this seal: I49146816 thru I49146844

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



December 8,2021

Fox, Steve

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.



	12-10-8 12-10-8		<u>25-5-8</u> 12-7-0	+	38-4-0	
Plate Offsets (X,Y)	[2:0-0-0,0-1-4], [8:0-0-0,0-1-4]					
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.57 BC 0.87 WB 0.38 Matrix-MS	DEFL. in (loc) Vert(LL) -0.40 10-13 Vert(CT) -0.62 10-13 Horz(CT) 0.09 8 Wind(LL) 0.09 10-13	l/defl L/d >999 360 >746 240 n/a n/a >999 240	PLATES GRIP MT20 244/19 Weight: 239 lb FT =	0 20%
			BRACING-			

TOP CHORD

BOT CHORD

TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3 WEDGE

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=99(LC 12)

Max Grav 2=1582(LC 1), 8=1582(LC 1)

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

2-3=-2940/144, 3-5=-2589/150, 5-7=-2589/150, 7-8=-2940/144 TOP CHORD

BOT CHORD 2-13=-55/2612. 10-13=0/1771. 8-10=-57/2612

WEBS 5-10=0/910, 7-10=-574/173, 5-13=0/910, 3-13=-574/173

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-10 to 3-0-6, Interior(1) 3-0-6 to 19-2-0, Exterior(2) 19-2-0 to 24-7-1, Interior(1) 24-7-1 to 39-1-10 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.



Structural wood sheathing directly applied or 3-9-8 oc purlins.

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

December 8,2021



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LUMBER-

2x6 SP No.2 TOP CHORD 2x4 SP No.2 BOT CHORD OTHERS 2x4 SP No.3 Left 2x4 SP No.2 1-1-8, Right 2x4 SP No.2 1-1-8 SLIDER

BRACING-TOP CHORD BOT CHORD WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. 13-36 1 Row at midpt

REACTIONS. All bearings 38-4-0.

Max Horz 2=99(LC 12) (lb) -

> Max Uplift All uplift 100 lb or less at joint(s) 2, 39, 40, 41, 42, 43, 44, 45, 46, 33, 32, 31, 30, 29, 28, 27, 26

All reactions 250 lb or less at joint(s) 2, 24, 36, 37, 39, 40, 41, 42, 43, 44, 45, 46, 35, 33, 32, Max Grav 31, 30, 29, 28, 27, 26

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

NOTES

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-10 to 3-2-0, Interior(1) 3-2-0 to 19-2-0, Exterior(2) 19-2-0 to 24-7-1, Interior(1) 24-7-1 to 39-1-10 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing. 6) Gable studs spaced at 2-0-0 oc.

- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide

will fit between the bottom chord and any other members.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 39, 40, 41, 42, 43. 44. 45. 46. 33. 32. 31. 30. 29. 28. 27. 26.



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L	12-10-8	17-0-0	21-4-0 25	5-5-8	38-4-0	
	12-10-8	4-1-8	4-4-0 4	-1-8	12-10-8	1
Plate Offsets (X,Y)	[2:0-0-0,0-1-4], [8:0-0-0,0-1-4], [18:0-5-0	0,0-2-0], [19:0-5-0,0-2-0]				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code JRC2015/TPI2014	CSI. TC 0.72 BC 0.53 WB 0.63 Matrix-MS	DEFL. i Vert(LL) -0.4 Vert(CT) -0.6 Horz(CT) 0.0 Wind(L) 0.0	n (loc) l/defl 6 12-13 >999 4 12-13 >721 7 8 n/a 8 12-13 >999	L/d PLATE 360 MT20 240 n/a 240 Weight	GRIP 244/190
BODE 10.0		Matrix-MO	WING(EE) 0.0	0 12-13 2333	240 Weight	
LUMBER- TOP CHORD 2x6 SF BOT CHORD 2x6 SF WEDS 2x4 SF 16-17: WEDGE Left: 2x4 SP No.3 , Rig	P No.2 P DSS P No.3 *Except* 2x4 SP No.2 ht: 2x4 SP No.3		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood Rigid ceiling dire 1 Row at midpt	sheathing directly applied o ctly applied or 10-0-0 oc br 16-17	or 3-7-5 oc purlins. acing.
REACTIONS. (size Max H Max G	e) 2=0-3-8, 8=0-3-8 orz 2=99(LC 12) irav 2=1582(LC 1), 8=1582(LC 1)					
FORCES. (lb) - Max. TOP CHORD 2-26 5-28 30-31	Comp./Max. Ten All forces 250 (lb) or 3018/106, 26-27=-2920/135, 3-27=-28 2636/151, 5-29=-2636/151, 6-29=-265 1=-2920/135 8-31=-3018/106	less except when shown. 57/145, 3-4=-2731/111, 4-2 1/126, 6-7=-2731/111, 7-30	28=-2651/126, 0=-2857/145,			
BOT CHORD 2-15= 8-10	=-56/2695, 14-15=0/2035, 13-14=0/2035 =-58/2695	, 12-13=0/2035, 11-12=0/2	2035, 10-11=0/2035,			
WEBS 5-17=	=0/1117, 10-17=0/911, 7-10=-576/174, 1	5-16=0/911, 5-16=0/1117,	3-15=-576/174			
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-10; V gable end zone and 39-1-10 zone; cantil reactions shown; Lu 3) This truss has been will fit between the b 5) This truss is designed standard ANSI/TPI 4 6) N/A	e loads have been considered for this de /ult=115mph Vasd=91mph; TCDL=6.0ps C-C Exterior(2) -0-9-10 to 3-0-6, Interior ever left and right exposed ; end vertical mber DOL=1.60 plate grip DOL=1.60 designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t vottom chord and any other members. ed in accordance with the 2015 Internation 1.	sign. f; BCDL=6.0psf; h=32ft; Cr (1) 3-0-6 to 19-2-0, Exteric left and right exposed;C-C e load nonconcurrent with he bottom chord in all area nal Residential Code sect	at. II; Exp B; Enclosed; or(2) 19-2-0 to 24-7-1, I of members and forc any other live loads. as where a rectangle 3- ions R502.11.1 and R8	MWFRS (envelope nterior(1) 24-7-1 to es & MWFRS for 6-0 tall by 2-0-0 wid 02.10.2 and referen	e) de nced	A CARO
LOAD CASE(S) 1) Dead + Roof Live (b Uniform Loads (plf) Vert: 1-5=-6 2) Dead + 0.75 Root Live Uniform Loads (-10)	alanced): Lumber Increase=1.15, Plate 60, 5-9=-60, 20-23=-20 ve (balanced): Lumber Increase=1.15, F	ncrease=1.15 late Increase=1.15			STEL STEL	VGINEER. TUIN

2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-50, 5-9=-50, 20-23=-20, 16-17=-30

ntinued on page 2

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December 8,2021

100	Truss	Truss Type	Qly	Ріу	Mattamy - Sequoia - Farmhouse - Lot 98 Providence creek	101/6818
MASTERFARM	A02	COMMON	3	1		49140010
Builders firstsource Apex NC				5	Job Reference (optional) 3 430 s Oct 22 2021 MiTek Industries Inc. Wed Dec. 8 10:11:51 2021	Page 2
Dulucio indiduluci, Apex : No		I	D:NOHDxMFxGtH	HiYullGv80	Cp8zfMF4-A3aOZgT2NGMU7qJfolO0vdlhLCIZOVREJhhPFdyl	336s
3) Dead + Uninhabitable At	tic Without Storage: Lumber	Increase=1 25 Plate Increase=1 25				
Uniform Loads (plf)	ale Williout Otorage. Euriber					
Vert: 1-5=-20, 5	-9=-20, 20-23=-40, 16-17=-40	0				
4) Dead + 0.6 C-C Wind (P	os. Internal) Case 1: Lumber	Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)						
Vert: 1-2=42, 2-	26=22, 5-26=12, 5-29=22, 8-	29=12, 8-9=8, 20-23=-12				
5) Dead + 0.6 C-C Wind (P	2-20=-34,	8-29=24, 8-9=20 Increase-1.60 Plate Increase-1.60				
Uniform Loads (plf)	us. memai) base 2. Europer					
Vert: 1-2=8, 2-2	8=12, 5-28=22, 5-31=12, 8-3	1=22, 8-9=42, 20-23=-12				
Horz: 1-2=-20, 2	2-28=-24, 5-28=-34, 5-31=24,	8-31=34, 8-9=54				
6) Dead + 0.6 C-C Wind (N	leg. Internal) Case 1: Lumber	Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)		00.00				
Vert: 1-2=-13, 2	-5=-32, 5-8=-32, 8-9=-27, 20- 5-12, 5, 9-12, 9, 0-7	-23=-20				
7) Dead + 0.6 C-C Wind (N	leg. Internal) Case 2: Lumber	Increase=1.60. Plate Increase=1.60				
Uniform Loads (plf)						
Vert: 1-2=-27, 2	-5=-32, 5-8=-32, 8-9=-13, 20-	-23=-20				
Horz: 1-2=7, 2-5	5=12, 5-8=-12, 8-9=7					
8) Dead + 0.6 MWFRS Wir	nd (Pos. Internal) Left: Lumbe	r Increase=1.60, Plate Increase=1.60				
Vert: 1-2-20 2-	5-10 5-8-8 8-9-4 20-23	12				
Horz: 1-2=-32	2-5=-22 5-8=20 8-9=16	12				
9) Dead + 0.6 MWFRS Wir	nd (Pos. Internal) Right: Lumb	per Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)	(,)					
Vert: 1-2=4, 2-5	=8, 5-8=10, 8-9=20, 20-23=-7	12				
Horz: 1-2=-16, 2	2-5=-20, 5-8=22, 8-9=32					
10) Dead + 0.6 MWFRS W	ind (Neg. Internal) Left: Lum	ber Increase=1.60, Plate Increase=1.60				
Vert: 1-2=-2 2	-5=-7 5-8=-8 8-9=-4 20-23=	=-20				
Horz: 1-2=-18,	2-5=-13, 5-8=12, 8-9=16					
11) Dead + 0.6 MWFRS W	ind (Neg. Internal) Right: Lun	nber Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)						
Vert: 1-2=-4, 2	-5=-8, 5-8=-7, 8-9=-2, 20-23=	20				
Horz: 1-2=-16,	2-5=-12, 5-8=13, 8-9=18 and (Post Internal) 1st Paralle	l: Lumber Increase-1.60. Plate Increase-	1 60			
Uniform Loads (plf)	inu (FUS. Internal) TSt Falalle		1.00			
Vert: 1-2=14, 2	2-27=19, 5-27=9, 5-8=2, 8-9=	-3, 20-23=-12				
Horz: 1-2=-26,	2-27=-31, 5-27=-21, 5-8=14	, 8-9=9				
13) Dead + 0.6 MWFRS W	ind (Pos. Internal) 2nd Parall	el: Lumber Increase=1.60, Plate Increase:	=1.60			
Uniform Loads (plf)		44.00.00.40				
Vert: 1-2=-3, 2 Horz: 1-2=-9	-5=2, 5-30=9, 8-30=19, 8-9= 2-514 5-30-21 8-30-31 8	14, 20-23=-12 				
14) Dead + 0.6 MWFRS W	ind (Pos. Internal) 3rd Paralle	el: Lumber Increase=1.60. Plate Increase=	=1.60			
Uniform Loads (plf)						
Vert: 1-2=5, 2-	5=9, 5-8=2, 8-9=-3, 20-23=-1	2				
Horz: 1-2=-17,	2-5=-21, 5-8=14, 8-9=9					
15) Dead + 0.6 MWFRS W	ind (Pos. Internal) 4th Paralle	el: Lumber Increase=1.60, Plate Increase=	:1.60			
Vert: 1-23 2	-5-2 5-8-0 8-0-5 20-23-1	2				
Horz: 1-2=-9, 2	2-5=-14, 5-8=21, 8-9=17	2				
16) Dead + 0.6 MWFRS W	ind (Neg. Internal) 1st Paralle	el: Lumber Increase=1.60, Plate Increase=	=1.60			
Uniform Loads (plf)						
Vert: 1-2=6, 2-	27=2, 5-27=-7, 5-8=-15, 8-9=	-11, 20-23=-20				
Horz: 1-2=-26,	2-2/=-22, 5-2/=-13, 5-8=5, 3	8-9=9 al: Lumbar Incrasos 1.60. Blata Incrasos	1.60			
Uniform Loads (plf)	inu (Neg. Internal) zhu Parali	el. Lumber increase=1.00, Flate increase	=1.00			
Vert: 1-2=-11,	2-5=-15, 5-30=-7, 8-30=2, 8-	9=6, 20-23=-20				
Horz: 1-2=-9, 2	2-5=-5, 5-30=13, 8-30=22, 8-	9=26				
18) Dead: Lumber Increase	e=0.90, Plate Increase=0.90 I	Plt. metal=0.90				
Uniform Loads (plf)	F 0 00 00 00 00 10 17					
Vert: 1-5=-20,	5-9=-20, 20-23=-20, 16-17=-	4U	t) Loft): Lumbor I	norococ	1.60 Plata	
Increase-1 60	(bal.) + 0.75 Oninnab. Attic S	solage + 0.75(0.6 WWFRS Wild (Neg. In) Leit). Lumber i	nciease=	1.00, Flate	
Uniform Loads (plf)						
Vert: 1-2=-37,	2-5=-40, 5-8=-41, 8-9=-38, 2	0-23=-20, 16-17=-30				
Horz: 1-2=-13,	2-5=-10, 5-8=9, 8-9=12					
20) Dead + 0.75 Roof Live	(bal.) + 0.75 Uninhab. Attic S	torage + 0.75(0.6 MWFRS Wind (Neg. Int	t) Right): Lumber	r Increase	=1.60, Plate	
Increase=1.60						
\/ert· 1-2=-38	2-5=-41 5-8=-40 8-9=-37 2	0-23=-20 16-17=-30				
Horz: 1-2=-12.	2-5=-9, 5-8=10, 8-9=13					
21) Dead + 0.75 Roof Live	(bal.) + 0.75 Uninhab. Attic S	torage + 0.75(0.6 MWFRS Wind (Neg. Int	t) 1st Parallel): L	umber Ind	crease=1.60,	
Plate Increase=1.60						

Qty

Ply

Mattamy - Sequoia - Farmhouse - Lot 98 Providence creek

ntinued on page 3 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



Job	Truss	Truss Type	Qty	Ply	Mattamy - Sequoia - Farmhouse - Lot 98 Providence creek
MASTEDEADM	402	COMMON	2	1	149146818
MASTERFARM	A02		3	'	Job Reference (optional)
	1				

Builders firstsource, Apex . NC

ID:NOHDxMFxGtHiYullGv8Cp8zfMF4-A3aOZgT2NGMU7qJfolO0vdlhLClZOVREJhhPFdyB36s

LOAD CASE(S)

Uniform Loads (plf)

Vert: 1-2=-30, 2-27=-34, 5-27=-41, 5-8=-46, 8-9=-43, 20-23=-20, 16-17=-30

Horz: 1-2=-20, 2-27=-16, 5-27=-9, 5-8=4, 8-9=7

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-43, 2-5=-46, 5-30=-41, 8-30=-34, 8-9=-30, 20-23=-20, 16-17=-30 Horz: 1-2=-7, 2-5=-4, 5-30=9, 8-30=16, 8-9=20

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-5=-60, 5-9=-20, 20-23=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-20, 5-9=-60, 20-23=-20 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-50, 5-9=-20, 20-23=-20, 16-17=-30

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

Uniform Loads (plf) Vert: 1-5=-20, 5-9=-50, 20-23=-20, 16-17=-30

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	12-10-8	17-0-0	21-4-0	25-5-8	1	38-4-0	
I	12-10-8	4-1-8	4-4-0	4-1-8		12-10-8	1
Plate Offsets (X,Y)	[1:0-0-0,0-1-4], [7:0-0-0,0-1-4], [17:0-5-0	0,0-2-0], [18:0-5-0,0-2-0]					
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 NO Code IRC2015/TPI2014	CSI. TC 0.72 BC 0.53 WB 0.64 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.46 11-12 -0.64 11-12 0.07 7 0.08 11-12	l/defl L/d >999 360 >721 240 n/a n/a >999 240	PLATES MT20 Weight: 255 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 3 BOT CHORD 2x6 3 WEBS 2x4 3 15-1 WEDGE Left: 2x4 SP No.3 , R	SP No.2 SP DSS SP No.3 *Except* 6: 2x4 SP No.2 ight: 2x4 SP No.3		BRACING- TOP CHORI BOT CHORI WEBS	D Structu D Rigid c 1 Row	ural wood sheathing ceiling directly applie at midpt	directly applied or 3-7-5 c d or 10-0-0 oc bracing. 15-16	oc purlins.
REACTIONS. (s Max Max	ize) 1=0-3-8, 7=0-3-8 Horz 1=-102(LC 17) Grav 1=1533(LC 1), 7=1582(LC 1)						
FORCES. (lb) - Ma TOP CHORD 1-2 4-2 20	x. Comp./Max. Ten All forces 250 (lb) or 5=-3021/115, 25-26=-2923/135, 2-26=-28 7=-2639/158, 4-28=-2637/151, 5-28=-265 302921/137, 7-303019/108	less except when shown. 61/153, 2-3=-2734/118, 3- 2/126, 5-6=-2732/111, 6-2	-27=-2654/133, 29=-2858/146,				
BOT CHORD 1-1 7-9	4=-56/2698, 13-14=0/2036, 12-13=0/2036 =-60/2696	, 11-12=0/2036, 10-11=0/	2036, 9-10=0/2036	,			
WEBS 4-1	6=0/1117, 9-16=0/911, 6-9=-576/174, 14-	15=0/912, 4-15=0/1118, 2	-14=-577/174				
NOTES- 1) Unbalanced roof I 2) Wind: ASCE 7-10 gable end zone ar 39-1-10 zone; car reactions shown; 1 3) This truss has be will fit between the 5) This truss is desig standard ANSI/TF 6) N/A	ve loads have been considered for this de Vult=115mph Vasd=91mph; TCDL=6.0ps ad C-C Exterior(2) 0-0-0 to 3-10-0, Interior(tilever left and right exposed ; end vertical umber DOL=1.60 plate grip DOL=1.60 en designed for a 10.0 psf bottom chord liv een designed for a live load of 20.0psf on t bottom chord and any other members. ned in accordance with the 2015 Internation I 1.	sign. f; BCDL=6.0psf; h=32ft; C 1) 3-10-0 to 19-2-0, Exter left and right exposed;C-0 e load nonconcurrent with he bottom chord in all are onal Residential Code sec	Cat. II; Exp B; Enclo ior(2) 19-2-0 to 24-7 C for members and any other live load as where a rectang tions R502.11.1 and	sed; MWFRS 7-1, Interior(1) forces & MWI s. le 3-6-0 tall by d R802.10.2 a	(envelope)) 24-7-1 to FRS for / 2-0-0 wide and referenced	OR FESS SEA 1860	
LOAD CASE(S) 1) Dead + Roof Live Uniform Loads (pl Vert: 1-4= 2) Dead + 0.75 Roof Holicentee Loci	(balanced): Lumber Increase=1.15, Plate f) 60, 4-8=-60, 19-22=-20 Live (balanced) + 0.75 Uninhab. Attic Stor	Increase=1.15 age: Lumber Increase=1.	15, Plate Increase=	1.15		STEVEN	E.F.O.T.

2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-50, 4-8=-50, 19-22=-20, 15-16=-30

ntinued on page 2

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818 Soundside Road

Edenton, NC 27932

December 8,2021

Job	Truss	Truss Type	Qty	Ply	Mattamy - Sequoia - Farmhouse - Lot 98 Providence creek	
MASTERFARM	A03	COMMON	1	1		149146819
Puilders firstsourse Apox NC					Job Reference (optional)	0.2021 Page 2
Builders firstsource, Apex . NO		ID:	NOHDxMFxGtHi	YullGv8Cp	p8zfMF4-LSG_RFpcntuWU8S2Rdua2XSTGVs6yALMI1	uE?yB36Q
3) Dead + Uninhabitable At	tic Without Storage: Lumber	Increase=1.25. Plate Increase=1.25				
Uniform Loads (plf)	ale maleat eterage. Lamber					
Vert: 1-4=-20, 4	-8=-20, 19-22=-40, 15-16=-4	0				
4) Dead + 0.6 C-C Wind (P	os. Internal) Case 1: Lumber	Increase=1.60, Plate Increase=1.60				
Vert: 1-25=22 4	1-25=12 4-28=22 7-28=12 7	7-8=8 19-22=-12				
Horz: 1-25=-34,	4-25=-24, 4-28=34, 7-28=24	, 7-8=20				
5) Dead + 0.6 C-C Wind (P	os. Internal) Case 2: Lumber	Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)						
Horz: 1-27=12, 2	4-27=22, 4-30=12, 7-30=22, 7 4-27=-34 4-30=24 7-30=34	-0=42, 19-22=-12 7-8=54				
6) Dead + 0.6 C-C Wind (N	leg. Internal) Case 1: Lumber	Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)						
Vert: 1-4=-32, 4 Horz: 1-4=12, 4	-7=-32, 7-8=-27, 19-22=-20					
7) Dead + 0.6 C-C Wind (N	leg. Internal) Case 2: Lumber	Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)	o ,					
Vert: 1-4=-32, 4	-7=-32, 7-8=-13, 19-22=-20					
Horz: 1-4=12, 4 8) Dead + 0.6 MWFRS Wir	-/=-12, /-8=/ nd (Pos_Internal) Left: Lumbe	r Increase=1.60 Plate Increase=1.60				
Uniform Loads (plf)						
Vert: 1-4=10, 4-	7=8, 7-8=4, 19-22=-12					
Horz: 1-4=-22, 4	4-7=20, 7-8=16 od (Pos. Internal) Pight: Lumb	or Increase-1.60. Plate Increase-1.60				
Uniform Loads (plf)	iu (1 03. Internal) Night. Lumi					
Vert: 1-4=8, 4-7	=10, 7-8=20, 19-22=-12					
Horz: 1-4=-20, 4	4-7=22, 7-8=32	par Ingrange 1.60. Plata Ingrange 1.60				
Uniform Loads (plf)	ind (Neg. Internal) Len. Lum	ber increase=1.00, Plate increase=1.00				
Vert: 1-4=-7, 4	-7=-8, 7-8=-4, 19-22=-20					
Horz: 1-4=-13,	4-7=12, 7-8=16	abar Ingraada 1.60. Biata Ingraada 1.60				
Uniform Loads (plf)	ind (Neg. Internal) Right: Lun	iber increase=1.60, Plate increase=1.60				
Vert: 1-4=-8, 4	-7=-7, 7-8=-2, 19-22=-20					
Horz: 1-4=-12,	4-7=13, 7-8=18		1.00			
12) Dead + 0.6 MWFRS W Uniform Loads (plf)	ind (Pos. Internal) 1st Paralle	el: Lumber Increase=1.60, Plate Increase=	1.60			
Vert: 1-26=19,	4-26=9, 4-7=2, 7-8=-3, 19-22	2=-12				
Horz: 1-26=-3	1, 4-26=-21, 4-7=14, 7-8=9					
13) Dead + 0.6 MWFRS W	ind (Pos. Internal) 2nd Parall	el: Lumber Increase=1.60, Plate Increase	=1.60			
Vert: 1-4=2, 4-	29=9, 7-29=19, 7-8=14, 19-2	2=-12				
Horz: 1-4=-14,	4-29=21, 7-29=31, 7-8=26					
14) Dead + 0.6 MWFRS W	ind (Pos. Internal) 3rd Paralle	el: Lumber Increase=1.60, Plate Increase=	=1.60			
Vert: 1-4=9, 4-	7=2, 7-8=-3, 19-22=-12					
Horz: 1-4=-21,	4-7=14, 7-8=9					
15) Dead + 0.6 MWFRS W	ind (Pos. Internal) 4th Paralle	el: Lumber Increase=1.60, Plate Increase=	:1.60			
Vert: 1-4=2, 4-	7=9. 7-8=5. 19-22=-12					
Horz: 1-4=-14,	4-7=21, 7-8=17					
16) Dead + 0.6 MWFRS W	ind (Neg. Internal) 1st Paralle	el: Lumber Increase=1.60, Plate Increase=	=1.60			
Vert: 1-26=2. 4	4-26=-7. 4-7=-15. 7-8=-11. 19	9-22=-20				
Horz: 1-26=-22	2, 4-26=-13, 4-7=5, 7-8=9					
17) Dead + 0.6 MWFRS W	ind (Neg. Internal) 2nd Paral	el: Lumber Increase=1.60, Plate Increase	=1.60			
Vert: 1-4=-15.	4-29=-7, 7-29=2, 7-8=6, 19-2	2=-20				
Horz: 1-4=-5, 4	4-29=13, 7-29=22, 7-8=26					
18) Dead + Uninhabitable	Attic Storage: Lumber Increas	se=0.90, Plate Increase=0.90 Plt. metal=0	.90			
Uniform Loads (pif) Vert: 1-4=-20	4-8=-20 19-22=-20 15-16=-	40				
19) Dead + 0.75 Roof Live	(bal.) + 0.75 Uninhab. Attic S	Storage + 0.75(0.6 MWFRS Wind (Neg. Int	t) Left): Lumber	Increase=	=1.60, Plate	
Increase=1.60						
Uniform Loads (pif) Vert: 1-4=-40	4-7=-41 7-8=-38 19-22=-20	15-16=-30				
Horz: 1-4=-10,	4-7=9, 7-8=12	,				
20) Dead + 0.75 Roof Live	(bal.) + 0.75 Uninhab. Attic S	storage + 0.75(0.6 MWFRS Wind (Neg. In	t) Right): Lumbe	r Increase	e=1.60, Plate	
Increase=1.60						
Vert: 1-4=-41,	4-7=-40, 7-8=-37, 19-22=-20	, 15-16=-30				
Horz: 1-4=-9, 4	4-7=10, 7-8=13		A-1 D			
21) Dead + 0.75 Root Live Plate Increase=1.60	(bai.) + 0.75 Uninhab. Attic S	torage + 0.75(0.6 MWERS Wind (Neg. In	i) 1st Parallel): L	umber In	crease=1.60,	

ntinued on page 3 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	Mattamy - Sequoia - Farmhouse - Lot 98 Providence creek
MASTEREARM	403	COMMON	1	1	149146819
	100				Job Reference (optional)

Builders firstsource, Apex . NC

8.430 s Oct 22 2021 MiTek Industries, Inc. Wed Dec 8 10:12:19 2021 Page 3 ID:NOHDxMFxGtHiYullGv8Cp8zfMF4-LSG_RFpcntuWU8S2Rdua2XSTGVs6yALMI1TuE?yB36Q

LOAD CASE(S)

Uniform Loads (plf)

Vert: 1-26=-34, 4-26=-41, 4-7=-46, 7-8=-43, 19-22=-20, 15-16=-30

Horz: 1-26=-16, 4-26=-9, 4-7=4, 7-8=7

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-4=-46, 4-29=-41, 7-29=-34, 7-8=-30, 19-22=-20, 15-16=-30

Horz: 1-4=-4, 4-29=9, 7-29=16, 7-8=20 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-60, 4-8=-20, 19-22=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-20, 4-8=-60, 19-22=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-50, 4-8=-20, 19-22=-20, 15-16=-30

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

Uniform Loads (plf)

Vert: 1-4=-20, 4-8=-50, 19-22=-20, 15-16=-30

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ł		12-7-0	16-8-8	21-0-8	25-2-0				38-0-8	
Plate Offse	ts (X,Y)	[7:Edge,0-1-4], [17:0-5-0,0-2-0], [18:0-5	0,0-2-0]	4-4-0	4-1-8				12-10-8	· · · · · · · · · · · · · · · · · · ·
LOADING TCLL TCDL BCLL BCDL	(psf) 20.0 10.0 0.0 * 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.78 BC 0.53 WB 0.65 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.46 -0.65 0.07 0.08	(loc) 11-12 11-12 7 11-12	l/defl L/ >983 36 >700 24 n/a n/ >999 24	d 0 0 a 0	PLATES MT20 Weight: 254 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHOF BOT CHOF WEBS WEDGE Left: 2x4 St	RD 2x6 SP RD 2x6 SP 2x4 SP 15-16:	No.2 DSS No.3 *Except* 2x4 SP No.2 ht: 2x4 SP No.3		BRACING- TOP CHOR BOT CHOR WEBS	2D 2D	Structur Rigid ce 1 Row a	al wood shea iling directly at midpt	athing dire applied o 1	ectly applied or 3-6-8 o r 10-0-0 oc bracing. 5-16	oc purlins.
REACTION	IS. (size Max H Max G	e) 1=Mechanical, 7=0-3-8 orz 1=-103(LC 13) rav 1=1521(LC 1), 7=1570(LC 1)								
FORCES. TOP CHOF	(lb) - Max. D 1-25= 4-27=	Comp./Max. Ten All forces 250 (lb) or 2925/115, 25-26=-2828/134, 2-26=-27 2568/157, 4-28=-2612/150, 5-28=-262	less except when shown. 76/151, 2-3=-2660/117, 3 6/125, 5-6=-2706/110, 6-2	-27=-2580/132, 29=-2832/146,						
BOT CHOR	29-30 RD 1-14= 7-9=-	=-2694/137, 7-30=-2993/107 =-52/2610, 13-14=0/2004, 12-13=0/2004 59/2672	, 11-12=0/2004, 10-11=0/	/2004, 9-10=0/200	4,					
WEBS	4-16=	-0/1124, 9-16=0/920, 6-9=-575/174, 14-	15=0/854, 4-15=0/1059, 2	-14=-546/169						
NOTES- 1) Unbalan 2) Wind: AS gable en zone; ca shown; L 3) This trus 4) * This trus 4) * This trus 5) Refer to 6) This trus standard 7) N/A	ced roof live SCE 7-10; V d zone and ntilever left : Jumber DOL ss has been iss has been iss has been tween the b girder(s) for s is designe I ANSI/TPI 1	e loads have been considered for this de fult=115mph Vasd=91mph; TCDL=6.0ps C-C Exterior(2) 0-3-8 to 4-1-8, Interior(1 and right exposed ; end vertical left and .=1.60 plate grip DOL=1.60 designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on to ottom chord and any other members. truss to truss connections. ed in accordance with the 2015 Internation.	sign. f; BCDL=6.0psf; h=32ft; C) 4-1-8 to 19-2-0, Exterior right exposed;C-C for me e load nonconcurrent with he bottom chord in all are anal Residential Code sec	Cat. II; Exp B; Encl (2) 19-2-0 to 24-7- mbers and forces any other live load as where a rectan- tions R502.11.1 at	osed; M' 1, Interio & MWFF ds. ds. gle 3-6-0 nd R802	WFRS (or(1) 24 RS for re 0 tall by 2.10.2 ar	envelope) -7-1 to 39-1- eactions 2-0-0 wide nd referenced	10	SEA 1860	
LOAD CAS 1) Dead + I Uniform 2) Dead + (SE(S) Roof Live (b Loads (plf) Vert: 1-4=-6 0.75 Roof Li	alanced): Lumber Increase=1.15, Plate i0, 4-8=-60, 19-22=-20 ve (balanced) + 0.75 Uninhab. Attic Stoi	ncrease=1.15 ace: Lumber Increase=1.	15. Plate Increase	=1.15				STEVEN	EFR.

December 8,2021



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300	11055		Giy	r iy	IVIAllarity - Sequola - Farminouse - Lot 98 Providence creek	19146820
MASTERFARM	A04	СОММОН	3	1	Ich Poference (entional)	
Builders firstsource, Apex . NC	1	I		-	3430 s Oct 22 2021 MiTek Industries, Inc. Wed Dec 8 10:12:49 2021 P	Page 2
			ID:NOHDxM	IFxGtHiYu	llGv8Cp8ztMF4-TE4JkWAQj5gF4llpBwQcGsibib52_jXnfilUHFyE	335y
LOAD CASE(S)						
Uniform Loads (plf)						
Vert: 1-4=-50, 4	-8=-50, 19-22=-20, 15-16=-3	0				
3) Dead + Uninhabitable At	ttic Without Storage: Lumber	Increase=1.25, Plate Increase=1.25				
Vert: 1-4=-20. 4	-8=-20, 19-22=-40, 15-16=-4	0				
4) Dead + 0.6 C-C Wind (P	os. Internal) Case 1: Lumber	Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)						
Vert: 1-25=22, 4	4-25=12, 4-28=22, 7-28=12, 7	7-8=8, 19-22=-12				
5) Dead + 0.6 C-C Wind (P	os. Internal) Case 2: Lumber	Increase=1.60. Plate Increase=1.60				
Uniform Loads (plf)						
Vert: 1-27=12, 4	4-27=22, 4-30=12, 7-30=22, 7	7-8=42, 19-22=-12				
Horz: 1-27=-24,	4-27=-34, 4-30=24, 7-30=34	-, /-8=54 : Increase-1.60. Plate Increase-1.60				
Uniform Loads (plf)	leg. memaly base 1. Eulider					
Vert: 1-4=-32, 4	-7=-32, 7-8=-27, 19-22=-20					
Horz: 1-4=12, 4	-7=-12, 7-8=-7					
 Dead + 0.6 C-C Wind (N Uniform Loads (nlf) 	leg. Internal) Case 2: Lumber	Increase=1.60, Plate Increase=1.60				
Vert: 1-4=-32, 4	-7=-32, 7-8=-13, 19-22=-20					
Horz: 1-4=12, 4	-7=-12, 7-8=7					
8) Dead + 0.6 MWFRS Wir	nd (Pos. Internal) Left: Lumbe	r Increase=1.60, Plate Increase=1.60				
Vert: 1-4=10, 4-	7=8, 7-8=4, 19-22=-12					
Horz: 1-4=-22, 4	4-7=20, 7-8=16					
9) Dead + 0.6 MWFRS Wir	nd (Pos. Internal) Right: Lumb	per Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)	-10 7-8-20 10-22-12					
Horz: 1-4=-20, 4	4-7=22, 7-8=32					
10) Dead + 0.6 MWFRS W	ind (Neg. Internal) Left: Lumb	per Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)	7 0 7 0 4 40 00 00					
Vert: 1-4=-7, 4 Horz: 1-4=-13	4-7=-8, 7-8=-4, 19-22=-20					
11) Dead + 0.6 MWFRS W	ind (Neg. Internal) Right: Lun	nber Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)						
Vert: 1-4=-8, 4	-7=-7, 7-8=-2, 19-22=-20					
12) Dead + 0.6 MWFRS W	ind (Pos. Internal) 1st Paralle	el: Lumber Increase=1.60. Plate Increase=1.	60			
Uniform Loads (plf)						
Vert: 1-26=19,	4-26=9, 4-7=2, 7-8=-3, 19-22	2=-12				
H0rZ: 1-26=-3 13) Dead + 0.6 MWFRS W	1, 4-26=-21, 4-7=14, 7-8=9 (ind (Pos_Internal) 2nd Parall	el: Lumber Increase=1.60. Plate Increase=1	60			
Uniform Loads (plf)	ind (1 03. internal) zha i arain		.00			
Vert: 1-4=2, 4-	29=9, 7-29=19, 7-8=14, 19-2	2=-12				
Horz: 1-4=-14,	, 4-29=21, 7-29=31, 7-8=26 (ind (Dec. Internel) 2rd Parello	ali Lumbar Ingrago 1 60 Digta Ingrago 1	60			
Uniform Loads (plf)	inu (Fos. Internal) siu Falalie	ei. Lumber micrease=1.60, Plate micrease=1	.00			
Vert: 1-4=9, 4-	7=2, 7-8=-3, 19-22=-12					
Horz: 1-4=-21,	, 4-7=14, 7-8=9		~~			
15) Dead + 0.6 MWFRS W	and (Pos. Internal) 4th Paralle	el: Lumber Increase=1.60, Plate Increase=1.	.60			
Vert: 1-4=2, 4-	7=9, 7-8=5, 19-22=-12					
Horz: 1-4=-14,	, 4-7=21, 7-8=17					
16) Dead + 0.6 MWFRS W	ind (Neg. Internal) 1st Paralle	el: Lumber Increase=1.60, Plate Increase=1	.60			
Vert: 1-26=2	4-26=-7 4-7=-15 7-8=-11 19	9-22=-20				
Horz: 1-26=-22	2, 4-26=-13, 4-7=5, 7-8=9					
17) Dead + 0.6 MWFRS W	ind (Neg. Internal) 2nd Parall	el: Lumber Increase=1.60, Plate Increase=1	.60			
Uniform Loads (plf)	1 20 - 7 7 20 - 2 7 9 - 6 10 2	22- 20				
Horz: 1-4=-13,	4-29=13, 7-29=2, 7-6=0, 19-2 4-29=13, 7-29=22, 7-8=26	2=-20				
18) Dead + Uninhabitable	Attic Storage: Lumber Increas	se=0.90, Plate Increase=0.90 Plt. metal=0.9	0			
Uniform Loads (plf)	4 0 00 40 00 00 15 15	40				
Vert: 1-4=-20, 19) Dead + 0.75 Roof Live	$4-\sigma=-20$, $19-22=-20$, $15-16=-$ (bal) + 0.75 Uninhab Attic S	40 Storage + 0.75(0.6 MWERS Wind (Neg. Int)	eft): Lumber	Increase-	1 60 Plate	
Increase=1.60	(Sally + 0.70 Ommab. Alle C		Long. Lumber			
Uniform Loads (plf)						
Vert: 1-4=-40,	4-7=-41, 7-8=-38, 19-22=-20	, 15-16=-30				
Horz: 1-4=-10, 20) Dead + 0 75 Roof Live	, 4-7=9, 7-8=12 (bal) + 0.75 Uninhab Attic S	Storage + 0 75(0.6 MWERS Wind (Neg. Int)	Right). Lumbe	r Increase	e=1.60 Plate	
Increase=1.60	(20.1) · 0.10 Ommudo. Attio 0					
Uniform Loads (plf)						

Vert: 1-4=-41, 4-7=-40, 7-8=-37, 19-22=-20, 15-16=-30 Horz: 1-4=-9, 4-7=10, 7-8=13

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Job	Truss	Truss Type	Qty	Ply	Mattamy - Sequoia - Farmhouse - Lot 98 Providence creek
					149146820
MASTERFARM	A04	COMMON	3	1	
					Job Reference (optional)
Builders firstsource, Apex . NC					8.430 s Oct 22 2021 MiTek Industries, Inc. Wed Dec 8 10:12:49 2021 Page 3

ID:NOHDxMFxGtHiYullGv8Cp8zfMF4-TE4JkWAQj5gF4llpBwQcGsibib52_jXnfilUHFyB35y

LOAD CASE(S)

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-26=-34, 4-26=-41, 4-7=-46, 7-8=-43, 19-22=-20, 15-16=-30

Horz: 1-26=-16, 4-26=-9, 4-7=4, 7-8=7

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-46, 4-29=-41, 7-29=-34, 7-8=-30, 19-22=-20, 15-16=-30

Horz: 1-4=-4, 4-29=9, 7-29=16, 7-8=20

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-60, 4-8=-20, 19-22=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

- Vert: 1-4=-20, 4-8=-60, 19-22=-20
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-50, 4-8=-20, 19-22=-20, 15-16=-30

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-20, 4-8=-50, 19-22=-20, 15-16=-30

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⊢		12-7-0		25-2-0			38-0-8	
Plate Offs	ets (X,Y)	[7:Edge,0-1-4]		12-7-0			12-10-0	
LOADING	i (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.6	8 Vert(LL)	-0.40 9-12	>999 360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.8	88 Vert(CT)	-0.63 9-12	>724 240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.3	8 Horz(CT)	0.09 7	n/a n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL)	0.09 9-12	>999 240	Weight: 236 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x6 SP No.2BOT CHORD2x6 SP No.2WEBS2x4 SP No.3WEDGE

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

REACTIONS. (size) 1=Mechanical, 7=0-3-8 Max Horz 1=-103(LC 13)

Max Grav 1=1521(LC 1), 7=1570(LC 1)

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

TOP CHORD 1-2=-2844/150, 2-4=-2518/156, 4-6=-2564/149, 6-7=-2915/145

BOT CHORD 1-12=-51/2526, 9-12=0/1745, 7-9=-58/2588

WEBS 4-9=0/914, 6-9=-574/173, 4-12=0/859, 2-12=-542/168

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-3-8 to 4-1-8, Interior(1) 4-1-8 to 19-2-0, Exterior(2) 19-2-0 to 24-7-1, Interior(1) 24-7-1 to 39-1-10 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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



Structural wood sheathing directly applied or 3-5-8 oc purlins.

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

December 8,2021



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9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 38, 39, 40, 41, 42. 43. 44. 45. 32. 31. 30. 29. 28. 27. 26. 25.



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SEAL

18603

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1	12-7-0	1 2	25-3-0	28-3-12 ₁	35-9-0	38-0-8
	12-7-0	1 1	12-8-0	3-0-12	7-5-4	2-3-8
Plate Offsets (X,Y) [9:0-3-	1,0-2-0], [13:0-6-4,0-2-8], [14:Edg	ge,0-2-0]				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.69 BC 0.84 WB 0.74 Matrix-MS	DEFL. in (loc Vert(LL) -0.21 14-17 Vert(CT) -0.50 14-17 Horz(CT) 0.15 9 Wind(LL) 0.10 12-13) I/defl L/d 7 >999 360 7 >913 240 9 n/a n/a 8 >999 240	PLATES MT20 MT20HS Weight: 268 lb	GRIP 244/190 187/143 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

- TOP CHORD
 2x6 SP No.2

 BOT CHORD
 2x6 SP No.2 *Except*

 9-11:
 2x6 SP DSS, 11-13:

 WEBS
 2x4 SP No.3 *Except*

 13-17:
 2x4 SP No.2
- SLIDER Left 2x4 SP No.2 2-5-12
- REACTIONS. (size) 1=Mechanical, 9=0-3-8 Max Horz 1=-103(LC 13) Max Grav 1=1521(LC 1), 9=1570(LC 1)

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

TOP CHORD 1-3=-2814/148, 3-5=-2510/151, 5-7=-2772/176, 7-8=-3319/133, 8-9=-4421/112

 BOT CHORD
 1-17=-50/2524, 14-17=0/614, 9-11=-62/3942, 12-13=-46/3044, 11-12=-77/3755

 WEBS
 5-13=-9/1065, 7-12=0/380, 5-17=0/781, 3-17=-541/168, 13-17=-76/1217, 7-13=-913/100, 8-11=0/766, 8-12=-715/120

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-3-8 to 4-1-8, Interior(1) 4-1-8 to 19-2-0, Exterior(2) 19-2-0 to 24-7-1, Interior(1) 24-7-1 to 39-1-10 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) All plates are MT20 plates unless otherwise indicated.

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 20.0psf 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) Refer to girder(s) for truss to truss connections.

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



Structural wood sheathing directly applied or 2-11-10 oc purlins.

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

December 8,2021



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- BOT CHORD
- 2-12=-13/1148, 10-12=-3/1148

WFBS 4-12=-377/138, 6-12=0/685, 8-12=-377/139

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-0 to 2-2-0, Interior(1) 2-2-0 to 12-7-12, Exterior(2) 12-7-12 to 16-10-11, Interior(1) 16-10-11 to 26-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) * This truss has been designed for a live load of 20.0psf 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.



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TRENCIO AMITEK Affiliate 818 Soundside Road

Edenton, NC 27932

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Job	Truss	Truss Type	Qty	Ply	Mattamy - Sequoia - Farmhouse - Lot 98 Providence creek
					149146825
MASTERFARM	B01-3PL	COMMON	1	2	
				3	Job Reference (optional)
Builders FirstSource (Apex,	NC), Apex, NC - 27523,		8	.430 s Aug	16 2021 MiTek Industries, Inc. Tue Dec 7 18:50:54 2021 Page 2
		ID:NOHD	xMFxGtHi	YullGv8Cp	8zfMF4-ycX3ZYWzVvVWLU7aTPQfT2DfCnAL4SFu HryKuyBGcF

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 14-17=-782(F=-762)

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LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.05 BC 0.03	DEFL. in Vert(LL) -0.00 Vert(CT) -0.00	(loc) 8	l/defl n/r n/r	L/d 120 120	PLATES MT20	GRIP 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IRC2015/TPI2014	WB 0.04 Matrix-R	Horz(CT) 0.00	10	n/a	n/a	Weight: 73 lb	FT = 20%

LUMBER-

 TOP CHORD
 2x6 SP No.2

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x4 SP No.2

 OTHERS
 2x4 SP No.3

BRACING-TOP CHORD

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

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

REACTIONS. All bearings 11-7-0.

(lb) - Max Horz 16=99(LC 11)

 Max Uplift
 All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11

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

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-0 to 1-11-3, Exterior(2) 1-11-3 to 5-11-3, Corner(3) 5-11-3 to 8-11-3, Exterior(2) 8-11-3 to 12-5-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

5) Gable requires continuous bottom chord bearing.

6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

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

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

9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12, 11.



December 8,2021



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				1,	
MASTERFARM	B01SG	GABLE	1		1491468.
Builders firstsource, Apex , NC					Job Reference (optional) 8.430 s Oct 22 2021 MiTek Industries, Inc. Wed Dec 8 10:17:28 2021 Page 2
			ID:A9wiMK2u	uZZm?t?Q	QxTl8OF5zotvv-ovRoHvYQ0pqg2daQ10x23hmPR2IFrzTrpcqlaayB31b
LOAD CASE(S)					
3) Dead + Uninhabitable At	ttic Without Storage: Lumber	Increase=1.25, Plate Increase=1.25			
Uniform Loads (plf)					
Vert: 1-6=-20, 6	-11=-20, 29-33=-40	r Incrosso-1.60. Plata Incrosso-1.60			
Uniform Loads (plf)	US. Internal) Case T. Lumber	Increase=1.00, Flate Increase=1.00			
Vert: 1-2=32, 2-	37=17, 6-37=12, 6-39=17, 1	0-39=12, 10-11=8, 29-33=-12			
Horz: 1-2=-44, 2	2-37=-29, 6-37=-24, 6-39=29	, 10-39=24, 10-11=20			
5) Dead + 0.6 C-C Wind (P	os. Internal) Case 2: Lumbei	r Increase=1.60, Plate Increase=1.60			
Vert: 1-2=8, 2-3	8=12, 6-38=17, 6-40=12, 10-	-40=17, 10-11=32, 29-33=-12			
Horz: 1-2=-20, 2	2-38=-24, 6-38=-29, 6-40=24	, 10-40=29, 10-11=44			
6) Dead + 0.6 C-C Wind (N	leg. Internal) Case 1: Lumbe	r Increase=1.60, Plate Increase=1.60			
Vert: 1-2=-0. 2-6	6=-44. 6-10=-44. 10-11=-40.	29-33=-20			
Horz: 1-2=-20, 2	2-6=24, 6-10=-24, 10-11=-20				
7) Dead + 0.6 C-C Wind (N	leg. Internal) Case 2: Lumbe	r Increase=1.60, Plate Increase=1.60			
Vert: 1-2=-40 2	-6=-44 6-10=-44 10-11=-0	29-33=-20			
Horz: 1-2=20, 2	-6=24, 6-10=-24, 10-11=20				
8) Dead + 0.6 MWFRS Wir	nd (Pos. Internal) Left: Lumbe	er Increase=1.60, Plate Increase=1.60			
Uniform Loads (plf)	614 6-10-5 10-11-1 20-3	3312			
Horz: 1-2=-8, 2-	·6=2, 6-10=17, 10-11=13	50- 12			
9) Dead + 0.6 MWFRS Wir	nd (Pos. Internal) Right: Lum	ber Increase=1.60, Plate Increase=1.60	0		
Uniform Loads (plf)	E E 10 14 10 11 4 20 1	22 42			
Horz: 1-2=1, 2-6	2-6=-17. 6-10=-2. 10-11=-4, 29-3	55=-12			
10) Dead + 0.6 MWFRS W	ind (Neg. Internal) Left: Lum	ber Increase=1.60, Plate Increase=1.60	0		
Uniform Loads (plf)	0 0 01 0 10 11 10 11 7				
Vert: 1-2=-27, Horz: 1-2=7, 2	2-6=-31, 6-10=-11, 10-11=-7 -6=11 6-10=9 10-11=13	, 29-33=-20			
11) Dead + 0.6 MWFRS W	'ind (Neg. Internal) Right: Lur	mber Increase=1.60, Plate Increase=1.	60		
Uniform Loads (plf)					
Vert: 1-2=-7, 2 Horz: 1-213	-6=-11, 6-10=-31, 10-11=-27 2-6=-9 6-10=-11 10-11=-7	7, 29-33=-20			
12) Dead + 0.6 MWFRS W	(ind (Pos. Internal) 1st Paralle	el: Lumber Increase=1.60, Plate Increa	se=1.60		
Uniform Loads (plf)	, , , , , , , , , , , , , , , , , , ,				
Vert: 1-2=14, 2	2-4=19, 4-6=9, 6-10=2, 10-11	1=-3, 29-33=-12 10 11-0			
13) Dead + 0.6 MWFRS W	(ind (Pos. Internal) 2nd Paral	lel: Lumber Increase=1.60. Plate Increa	ase=1.60		
Uniform Loads (plf)					
Vert: 1-2=-3, 2	2-6=2, 6-8=9, 8-10=19, 10-11	=14, 29-33=-12			
Horz: 1-2=-9, 2 14) Dead + 0.6 MWFRS W	2-6=-14, 6-8=21, 8-10=31, 10 /ind (Pos_Internal) 3rd Parall	J-11=26 el: Lumber Increase=1.60. Plate Increa	se=1.60		
Uniform Loads (plf)					
Vert: 1-2=5, 2-	6=9, 6-10=2, 10-11=-3, 29-3	3=-12			
Horz: 1-2=-17, 15) Dead + 0.6 MWFRS W	, 2-6=-21, 6-10=14, 10-11=9 (ind (Pos_Internal) 4th Parall	el: Lumber Increase=1.60. Plate Increa	se=1.60		
Uniform Loads (plf)					
Vert: 1-2=-3, 2	-6=2, 6-10=9, 10-11=5, 29-3	3=-12			
Horz: 1-2=-9, 2 16) Dead + 0.6 MWERS W	2-6=-14, 6-10=21, 10-11=17 (ind (Neg. Internal) 1st Parall	el: Lumber Increase–1.60. Plate Increa	se-1.60		
Uniform Loads (plf)	ind (Neg. internal) 13t1 arain		130-1.00		
Vert: 1-2=6, 2-	4=2, 4-6=-7, 6-10=-15, 10-1	1=-11, 29-33=-20			
Horz: 1-2=-26,	, 2-4=-22, 4-6=-13, 6-10=5, 1 (ind (Neg. Internal) 2nd Paral	0-11=9	250-1.60		
Uniform Loads (plf)	ind (Neg. Internal) zha i arai		436-1.00		
Vert: 1-2=-11,	2-6=-15, 6-8=-7, 8-10=2, 10-	-11=6, 29-33=-20			
Horz: 1-2=-9, 2	2-6=-5, 6-8=13, 8-10=22, 10-	-11=26			
Uniform Loads (plf)	e=0.90, Plate Increase=0.90	Pit. metai=0.90			
Vert: 1-6=-20,	6-11=-20, 29-33=-20				
19) Dead + 0.75 Roof Live	(bal.) + 0.75(0.6 MWFRS W	ind (Neg. Int) Left): Lumber Increase=1	.60, Plate Increas	e=1.60	
Uniform Loads (plf)	2-658 6-1044 10-114	10 29-3320			
Horz: 1-2=5, 2	-6=8, 6-10=6, 10-11=10	0, 23-3320			
20) Dead + 0.75 Roof Live	(bal.) + 0.75(0.6 MWFRS W	ind (Neg. Int) Right): Lumber Increase=	=1.60, Plate Increa	ase=1.60)
Uniform Loads (plf)	2-6-11 6 10- 59 10 11 5	5 29-33-20			
Horz: 1-2=-40,	2-0=-44, 0-10=-38, 10-11=-5 , 2-6=-6, 6-10=-8, 10-11=-5	55, 23-35=-20			
21) Dead + 0.75 Roof Live	(bal.) + 0.75(0.6 MWFRS W	ind (Neg. Int) 1st Parallel): Lumber Incr	rease=1.60, Plate	Increase	∋=1.60
Uniform Loads (plf)	04 04 40 44 040 10	40.44 40.00 00 00			
Vert: 1-2=-30, Horz: 1-2=-20	∠-4=-34, 4-b=-41, b-10=-46, 2-4=-16, 4-6=-9, 6-10=4, 10	10-11=-43, 29-33=-20)-11=7			
22) Dead + 0.75 Roof Live	(bal.) + 0.75(0.6 MWFRS W	ind (Neg. Int) 2nd Parallel): Lumber Inc	rease=1.60, Plate	Increase	e=1.60

Ply

Mattamy - Sequoia - Farmhouse - Lot 98 Providence creek

Qty

Truss Type

ntinued on page 3

Job

Truss

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	Mattamy - Sequoia - Farmhouse - Lot 98 Providence creek
					149146827
MASTERFARM	B01SG	GABLE	1	1	
					Job Reference (optional)
Builders firstsource, Apex . NC				8	8.430 s Oct 22 2021 MiTek Industries, Inc. Wed Dec 8 10:17:28 2021 Page 3

8.430 s Oct 22 2021 MiTek Industries, Inc. Wed Dec 8 10:17:28 2021 Page 3 ID:A9wiMK2uZZm?t?QxTl8OF5zotvv-ovRoHvYQ0pqg2daQ10x23hmPR2IFrzTrpcqlaayB31b

LOAD CASE(S)

Uniform Loads (plf)

Vert: 1-2=-43, 2-6=-46, 6-8=-41, 8-10=-34, 10-11=-30, 29-33=-20 Horz: 1-2=-7, 2-6=-4, 6-8=9, 8-10=16, 10-11=20

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-6=-60, 6-11=-20, 29-33=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-6=-20, 6-11=-60, 29-33=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-6=-50, 6-11=-20, 29-33=-20

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

Uniform Loads (plf) Vert: 1-6=-20, 6-11=-50, 29-33=-20

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TOP CHORD 2-3=-761/46, 3-4=-769/106, 4-7=-412/109

BOT CHORD 2-8=-104/677

WEBS 3-8=-351/126, 4-8=-103/823

NOTES-

Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 11-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.



December 8,2021

TREERING BY AMITEK Attiliate 818 Soundside Road Edenton, NC 27932

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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 0.14 BC 0.09 WB 0.04 Matrix-S	DEFL. in Vert(LL) -0.00 Vert(CT) 0.00 Horz(CT) -0.00	(loc) 1 1 8	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 56 lb
			DD A OINIO				

LUMBER-

2x4 SP No.2
2x4 SP No.2
2x4 SP No.3
2x4 SP No.3

BRACING-TOP CHORD

BOT CHORD

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

REACTIONS. All bearings 11-8-0.

Max Horz 2=138(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 9, 10, 11, 12, 13

Max Grav All reactions 250 lb or less at joint(s) 2, 8, 9, 10, 11, 12 except 13=282(LC 1)

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

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 11-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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) All plates are 2x4 MT20 unless otherwise indicated.

4) Gable requires continuous bottom chord bearing.

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

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

7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 9, 10, 11, 12, 13.



GRIP

244/190

FT = 20%

December 8,2021



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6-7-8 7-8-0 6-7-8 1-0-8 LOADING (psf) SPACING-DEFL. L/d PLATES GRIP 2-0-0 CSI in (loc) l/def 20.0 244/190 TCLL Plate Grip DOL 1.15 тс 0.20 Vert(LL) 0.00 n/r 120 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.13 Vert(CT) 0.01 120 n/r BCLL 0.0 Rep Stress Incr NO WB 0.04 Horz(CT) -0.00 8 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 34 lb FT = 20% BRACING-LUMBER-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9, 6-7.

BOT CHORD

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

REACTIONS. All bearings 7-8-0.

(lb) - Max Horz 2=103(LC 12)

6-9=-848/203

Max Uplift All uplift 100 lb or less at joint(s) 9, 8, 2, 11, 10

Max Grav All reactions 250 lb or less at joint(s) 8, 2, 10 except 9=880(LC 19), 11=315(LC 23)

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

TOP CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 7-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 8, 2, 11, 10.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

 Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-60, 6-7=-60, 2-8=-20

Concentrated Loads (lb) Vert: 6=-800



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

10-0-0 oc bracing: 8-9.

December 8,2021



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			3-8-0	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.17 BC 0.13 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) -0.01 4-7 >999 360 Vert(CT) -0.02 4-7 >999 240 Horz(CT) 0.00 2 n/a n/a	PLATES GRIP MT20 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP	Wind(LL) 0.01 4-7 >999 240	Weight: 13 lb FT = 20%

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2

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

Max Horz 2=51(LC 8)

Max Uplift 3=-31(LC 12), 2=-37(LC 8) Max Grav 3=93(LC 1), 2=212(LC 1), 4=66(LC 3)

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

NOTES-

 Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-7-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



December 8,2021

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BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.



IIIMDED	

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2OTHERS2x4 SP No.3

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-8-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 3-8-0. (Ib) - Max Horz 2=49(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 4, 2, 6

Max Grav All reactions 250 lb or less at joint(s) 4, 2, 5, 6

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

NOTES-

 Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

Gable 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.

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 6.



December 8,2021



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TREENCO AMITEK Affiliate 818 Soundside Road

Edenton, NC 27932

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		0-6	5-8			6-7-8					7-8-0		
		' 0-6	6-8			6-1-0					' 1-0-8		
Plate Of	fsets (X,Y)	[2:0-0-0,0-0-6], [2:0-0-13	3,0-9-1]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	тс	0.92	Vert(LL)	-0.04	7-12	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.09	7-12	>999	240			

ι.	11	IN.	16	21	F	P	_

BCLL

BCDL

LOWIDER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except*
	3-7: 2x4 SP No.1

0.0

10.0

BRACING-TOP CHORD

BOT CHORD

0.01

0.09

2

7-12

n/a

>979

n/a

240

Horz(CT)

Wind(LL)

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7, 4-5. Rigid ceiling directly applied or 6-11-9 oc bracing.

Weight: 32 lb

WEDGE Left: 2x4 SP No.3

REACTIONS.	(size)	6=Mechanical, 2=0-3-0
	Max Horz	2=102(LC 12)
	Max Uplift	6=-249(LC 8), 2=-143(LC 8)
	Max Grav	6=949(LC 1), 2=513(LC 1)

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

Rep Stress Incr

Code IRC2015/TPI2014

TOP CHORD 2-3=-511/325

BOT CHORD 2-7=-397/441, 6-7=-722/873

WEBS 4-6=-1044/858

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 7-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-MS

0.26

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

NO

- 5) * This truss has been designed for a live load of 20.0psf 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=249, 2=143.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-3=-60, 4-5=-60, 6-8=-20

Continued on page 2

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FT = 20%





Job	Truss	Truss Type	Qty	Ply	Mattamy - Sequoia - Farmhouse - Lot 98 Providence creek
					I49146834
MASTERFARM	P01	SPECIAL	2	1	
					Job Reference (optional)
Builders FirstSource (Apex,	NC), Apex, NC - 27523,		8	.430 s Aug	16 2021 MiTek Industries, Inc. Tue Dec 7 18:51:00 2021 Page 2
		ID:NOHDxMFxGtHiYullGv8Cp8zfMF4-nmuKpbbk4lFf3PbkqgX3jJTeYBFxUlOnMDIGYYyBGc9			

LOAD CASE(S) Standard Concentrated Loads (Ib) Vert: 4=-800

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LOAD CASE(S) Standard

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 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-74/3 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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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Edenton, NC 27932

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Job	Truss	Truss Type	Qty	Ply	Mattamy - Sequoia - Farmhouse - Lot 98 Providence creek
					149146835
MASTERFARM	P01SG	GABLE	1	1	
					Job Reference (optional)
Builders FirstSource (Apex, NC), Apex, NC - 27523,		8	.430 s Aug	16 2021 MiTek Industries, Inc. Tue Dec 7 18:51:01 2021 Page 2	

ID:NOHDxMFxGtHiYullGv8Cp8zfMF4-FySi1xcMr2NWgZ9wNN2IFW0plbbADlewbt2p4_yBGc8

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-3=-60, 4-5=-60, 6-12=-20 Concentrated Loads (lb)

Vert: 4=-800

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F	6-0-0			12-0-0		
Plate Offsets (X,Y)	6-0-0 [2:0-0-0,0-1-6], [2:0-3-3,Edge], [4:0-0-0,	0-1-6], [4:0-3-3,Edge]		6-0-0		
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 0.39 BC 0.35 WB 0.10 Matrix-MS	DEFL. in Vert(LL) -0.04 Vert(CT) -0.07 Horz(CT) 0.01 Wind(LL) 0.04	(loc) l/defl L/d 6-9 >999 360 6-9 >999 240 2 n/a n/a 6-12 >999 240	PLATES G MT20 2 Weight: 47 lb	RIP 44/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 WEDGE Left: 2x4 SP No.3 , Right: 2x4 SP No.3			BRACING- TOP CHORD BOT CHORD	Structural wood sheathing di Rigid ceiling directly applied	rectly applied or 6-0-0 oc or 10-0-0 oc bracing.	purlins.
REACTIONS. (siz Max H Max U Max C	e) 2=0-3-0, 4=0-3-0 forz 2=-50(LC 13) Jplift 2=-95(LC 8), 4=-95(LC 9) Grav 2=540(LC 1), 4=540(LC 1)					
FORCES. (lb) - Max. TOP CHORD 2-3= BOT CHORD 2-6= WEBS 3-6=	Comp./Max. Ten All forces 250 (lb) or -686/417, 3-4=-686/414 -311/578, 4-6=-311/578 -192/251	less except when shown.				
NOTES-	e loads have been considered for this de	sian				

Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-0-0, Exterior(2) 6-0-0 to 10-2-15, Interior(1) 10-2-15 to 13-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



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- reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 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 20.0psf 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10, 11, 14, 13.



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

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 9, 12, 11.



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(2) Wind: ASCE 7-10, Vull=115inph vasd=91mph; TCDL=0.0pst; BCDL=0.0pst; n=32h; Cal. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 7-3-5, Exterior(2) 7-3-5 to 10-6-10, Interior(1) 10-6-10 to 14-0-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 9.



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5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 8.



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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 4-5-1, Exterior(2) 4-5-1 to 7-5-1, Interior(1) 7-5-1 to 8-3-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 7.



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Max Horz T=28(LC 9)Max Uplift 1=-13(LC 12), 3=-17(LC 13)

Max Grav 1=102(LC 1), 3=102(LC 1), 4=189(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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide

will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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