

Trenco 818 Soundside Rd Edenton, NC 27932

Re: MasterFarm Mattamy-Sequoia-Lot 107 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: I54531033 thru I54531060

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

North Carolina COA: C-0844



October 4,2022

# Gilbert, Eric

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



	12-10-8			1	25-5-8			1	1		
	1	12-10-8		I		12-7-0		I		12-10-8	I
Plate Offset	ts (X,Y)	[2:0-0-0,0-1-4], [8:0-0-0,0	)-1-4]								
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	тс	0.57	Vert(LL)	-0.40 10-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.62 10-13	>746	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.09 8	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matrix	k-MS	Wind(LL)	0.09 10-13	>999	240	Weight: 239 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) 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.

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

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.

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





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



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 property 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





	12-10-8	17-0-0	21-4-0	25-5-8		38-4-0	-1	
Plate Offsets (X,Y)	[2:0-0-0,0-1-4], [8:0-0-0,0-1-4], [18:0-5-0	,0-2-0], [19:0-5-0,0-2-0]	4-4-0	4-1-0		12-10-0		
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 0.63 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.46 12-13 -0.64 12-13 0.07 8 0.08 12-13	l/defl L/d >999 360 >721 240 n/a n/a >999 240	PLATES MT20 Weight: 258 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER- TOP CHORD 2x6 SP BOT CHORD 2x6 SP WEBS 2x4 SP 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 CHOF BOT CHOF WEBS	RD Structu RD Rigid c 1 Row a	ral wood sheathing eiling directly applie at midpt	directly applied or 3-7-5 ed or 10-0-0 oc bracing. 16-17	oc purlins.	
REACTIONS. (size Max H Max G	e) 2=0-3-8, 8=0-3-8 lorz 2=99(LC 12) irav 2=1582(LC 1), 8=1582(LC 1)							
FORCES.       (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-26=-3018/106, 26-27=-2920/135, 3-27=-2857/145, 3-4=-2731/111, 4-28=-2651/126, 5-28=-2636/151, 5-29=-2636/151, 6-29=-2651/126, 6-7=-2731/111, 7-30=-2857/145, 30-31=-2920/135, 8-31=-3018/106								
BOT CHORD 2-15= 8-10 WEBS 5-17=	=-56/2695, 14-15=0/2035, 13-14=0/2035  =-58/2695 =0/1117, 10-17=0/911, 7-10=-576/174, 1	, 12-13=0/2035, 11-12=0/2 5-16=0/911, 5-16=0/1117	2035, 10-11=0/20 , 3-15=-576/174	35,				
<ul> <li>WEBS 5-17=0/1117, 10-17=0/911, 7-10=-576/174, 15-16=0/911, 5-16=0/1117, 3-15=-576/174</li> <li>NOTES- <ol> <li>Unbalanced roof live loads have been considered for this design.</li> <li>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; c-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>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.</li> <li>This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.</li> <li>N/A</li> </ol></li></ul>								
LOAD CASE(S) 1) Dead + Roof Live (b Uniform Loads (plf) Vert: 1-5=-6 2) Dead + 0.75 Roof Li Uniform Loads (plf) Vert: 1-5=-5	alanced): Lumber Increase=1.15, Plate I 50, 5-9=-60, 20-23=-20 ve (balanced): Lumber Increase=1.15, P 50, 5-9=-50, 20-23=-20, 16-17=-30	ncrease=1.15 late Increase=1.15				Cotob	EER. KINN HERTUN er 4,2022	

818 Soundside Road Edenton, NC 27932

### tinued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Qty

Ply

Mattamy-Sequoia-Lot 107 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-Lot 107 Providence Creek
					154531035
MASTERFARM	A02	COMMON	3	1	
					Job Reference (optional)

Builders firstsource, Apex . NC

8.530 s May 26 2022 MiTek Industries, Inc. Tue Oct 4 14:13:16 2022 Page 3 ID:NOHDxMFxGtHiYullGv8Cp8zfMF4-RXSwhPNEA0Cls21U57xY?gTFbxOCKQj1SkIJ6zyWmen

# 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

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





<b> </b>	12-10-8	17-0-0	21-4-0	25-5-8	1	38-4-0	
Plate Offsets (X,Y)	[1:0-0-0,0-1-4], [7:0-0-0,0-1-4], [17:0-5-0	),0-2-0], [18:0-5-0,0-2-0]	440	4-1-0		2-10-0	
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	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 SF BOT CHORD 2x6 SF WEBS 2x4 SF 15-16: 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 CHOR BOT CHOR WEBS	RD Structu RD Rigid c 1 Row	ral wood sheathing di eiling directly applied at midpt 1	rectly applied or 3-7-5 or 10-0-0 oc bracing. 5-16	oc purlins.
REACTIONS. (size Max H Max G	e) 1=0-3-8, 7=0-3-8 lorz 1=-102(LC 17) irav 1=1533(LC 1), 7=1582(LC 1)						
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       1-25=-3021/115, 25-26=-2923/135, 2-26=-2861/153, 2-3=-2734/118, 3-27=-2654/133, 4-27=-2639/158, 4-28=-2637/151, 5-28=-2652/126, 5-6=-2732/111, 6-29=-2858/146, 29-30=-2921/137, 7-30=-3019/108         BOT CHORD       1-14=-56/2698, 13-14=0/2036, 12-13=0/2036, 10-11=0/2036, 9-10=0/2036, 7-9=-60/2696         WEBS       4-16=-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 live 2) Wind: ASCE 7-10; V gable end zone and 39-1-10 zone; cantil reactions shown; Lu 3) This truss has been 4) * This truss has been will fit between the b 5) This truss is designed standard ANSI/TPL 7 6) N/A	e loads have been considered for this de /ult=115mph Vasd=91mph; TCDL=6.0ps C-C Exterior(2) 0-0-0 to 3-10-0, 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. ad in accordance with the 2015 Internation 1.	sign. f; BCDL=6.0psf; h=32ft; C 1) 3-10-0 to 19-2-0, Exter left and right exposed;C-C e load nonconcurrent with he bottom chord in all area onal Residential Code sec	at. II; Exp B; Encloir(2) 19-2-0 to 24 C for members and any other live load as where a rectand tions R502.11.1 at	osed; MWFRS -7-1, Interior(1) d forces & MWF ds. gle 3-6-0 tall by nd R802.10.2 a	(envelope) 24-7-1 to TRS for 2-0-0 wide and referenced	NILOR TH CA	ROUNT
LOAD CASE(S) 1) Dead + Roof Live (b Uniform Loads (plf) Vert: 1-4=-6 2) Dead + 0.75 Roof Li Uniform Loads (plf) Vert: 1-4=-5	alanced): Lumber Increase=1.15, Plate I 60, 4-8=-60, 19-22=-20 ve (balanced) + 0.75 Uninhab. Attic Stor 50, 4-8=-50, 19-22=-20, 15-16=-30	ncrease=1.15 age: Lumber Increase=1.	15, Plate Increase	=1.15		A. O Octob	EER. HLBERTUUT er 4,2022

## inued on page 2

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



MASTERFARM	A03	COMMON	1	1	ntional)	10 100 1000
Builders firstsource, Apex . NC				8.530 s May 26 202	2 MiTek Industries, Inc. Tue Oct 4 14:1	3:44 2022 Page 2
						14406LywmeL
2) Dood + Upinbabitable At	ttie Without Storage: Lumber	Increase-1 25 Plate Increase-1 25				
Uniform Loads (plf)	uic Willioul Storage. Luitiber	increase=1.25, Flate increase=1.25				
Vert: 1-4=-20, 4	-8=-20, 19-22=-40, 15-16=-4	0				
<ol> <li>Dead + 0.6 C-C Wind (P Uniform Loads (plf)</li> </ol>	os. Internal) Case 1: Lumber	Increase=1.60, Plate Increase=1.60				
Vert: 1-25=22, 4	4-25=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 Uniform Loads (plf)	os. Internal) Case 2: Lumber	Increase=1.60, Plate Increase=1.60				
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	, 7-8=54				
Uniform Loads (plf)	leg. Internal/ Case T. Lumber					
Vert: 1-4=-32, 4	-7=-32, 7-8=-27, 19-22=-20					
Horz: 1-4=12, 4- 7) Dead + 0 6 C-C Wind (N	-/=-12, /-8=-/ leg_Internal) Case 2 <sup>.</sup> Lumber	Increase=1.60 Plate Increase=1.60				
Uniform Loads (plf)						
Vert: 1-4=-32, 4	-7=-32, 7-8=-13, 19-22=-20					
8) Dead + 0.6 MWFRS Wir	-7=-12, 7-8=7 nd (Pos. Internal) Left: Lumbe	er Increase=1.60. Plate Increase=1.60				
Uniform Loads (plf)						
Vert: 1-4=10, 4-	7=8, 7-8=4, 19-22=-12					
9) Dead + 0.6 MWFRS Wir	+-7=20, 7-6=16 nd (Pos. Internal) Right: Lumb	per Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)						
Vert: 1-4=8, 4-7 Horz: 1-420	=10, 7-8=20, 19-22=-12 1-7-22 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.	-7=-8, 7-8=-4, 19-22=-20 . 4-7=12. 7-8=16					
11) Dead + 0.6 MWFRS W	ind (Neg. Internal) Right: Lun	nber Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)	7 7 7 9 9 10 22 20					
Horz: 1-4=-0, 4	, 4-7=13, 7-8=18					
12) Dead + 0.6 MWFRS W	ind (Pos. Internal) 1st Paralle	el: Lumber Increase=1.60, Plate Increase	=1.60			
Uniform Loads (plf)	1-26-0 1-7-2 7-83 10-2	212				
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	e=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 Uniform Loads (plf)	(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	al Lumber Increase 4.00 Dista Increase	1.00			
Uniform Loads (plf)	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 (ind (Neg. Internal) 2nd Parall	lel: Lumber Increase-1.60. Plate Increase	-1 60			
Uniform Loads (plf)	ind (Neg. internal) zha i aran		2=1.00			
Vert: 1-4=-15,	4-29=-7, 7-29=2, 7-8=6, 19-2	22=-20				
18) Dead + Uninhabitable /	4-29=13, 7-29=22, 7-8=26 Attic Storage: Lumber Increas	se=0.90. Plate Increase=0.90 Plt. metal=0	0.90			
Uniform Loads (plf)						
Vert: 1-4=-20, 19) Dead + 0.75 Roof Live	4-8=-20, 19-22=-20, 15-16=- (bal) + 0.75 Uninbab Attic S	40 Storage + 0.75(0.6 MW/ERS Wind (Neg. In	nt) Left): Lumber	Increase-1.60 Plate		
Increase=1.60	(ball) + 0.75 Offinitiab. Auto e		ity Leity. Lumber			
Uniform Loads (plf)	4 7 44 7 0 00 40 00 00	45.40.00				
Vert: 1-4=-40, Horz: 1-4=-10	4-7=-41, 7-8=-38, 19-22=-20 4-7=9 7-8=12	, 15-16=-30				
20) Dead + 0.75 Roof Live	(bal.) + 0.75 Uninhab. Attic S	Storage + 0.75(0.6 MWFRS Wind (Neg. Ir	nt) Right): Lumbe	r Increase=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					
21) Dead + 0.75 Roof Live Plate Increase=1.60	(bal.) + 0.75 Uninhab. Attic S	storage + 0.75(0.6 MWFRS Wind (Neg. Ir	it) 1st Parallel): L	umber Increase=1.60,		

Qty

Ply

Mattamy-Sequoia-Lot 107 Providence Creek

154531036

Truss Type

Job

Truss

Marking - 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 designer must verify the applicability of 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-Lot 107 Providence Creek	
	MASTEREARM	402	COMMON	4	1	15	4531036
	MASTERFARM	A03	COMMON	1	1	Job Reference (optional)	
ľ	Builders firstsource, Apex . NC				1	8.530 s May 26 2022 MiTek Industries, Inc. Tue Oct 4 14:13:44 2022 P	Page 3
			ID:NO	HDxMFxG	tHiYullGv8	Cp8zfMF4-dw9WZ_joacjnDMAtk?R68ae1VDylu5d9u44o6LyWn	neL

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

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





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

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

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

7) N/A

#### LOAD CASE(S)

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

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

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

### ontinued on page 2

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





300	11055	Truss Type	Qiy	FIY	Mattamy-Sequola-Lot 107 Providence Creek	154504007				
MASTERFARM	A04	соммол	3	1		154531037				
Builders firstsource, Apex, NC					Job Reference (optional) 8.530 s May 26 2022 MiTek Industries, Inc. Tue Oct 4 14:14:02 20	)22 Page 2				
ID:NOHDxMFxGtHiYullGv8Cp8zfMF4-5OEJL8x4K8?DN7YKonlKtNN5zT5u6Dro1uRlklyWme3										
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								
Uniform Loads (pif)	-820 19-2240 15-164	0								
4) Dead + 0.6 C-C Wind (P	vert: 1-4=-20, 4-8=-20, 19-22=-40, 15-16=-40 4) Dead + 0.6 C-C Wind (Pos. 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								
6) Dead + 0.6 C-C Wind (N	4-27=-34, 4-30=24, 7-30=34 leg_Internal) Case 1: Lumber	r Increase=1 60 Plate Increase=1 60								
Uniform Loads (plf)	logi momai) ease in zamse.									
Vert: 1-4=-32, 4	-7=-32, 7-8=-27, 19-22=-20									
Horz: 1-4=12, 4 7) Dead + 0.6 C-C Wind (N	-/=-12, /-8=-/ leg_Internal) Case 2: Lumber	r Increase-1.60. Plate Increase-1.60								
Uniform Loads (plf)	leg. Internal/ Case 2. Lumber	nicrease=1.00, 1 late increase=1.00								
Vert: 1-4=-32, 4	-7=-32, 7-8=-13, 19-22=-20									
Horz: 1-4=12, 4	-7=-12, 7-8=7	r Ingradad 1.60. Plata Ingradad 1.60								
Uniform Loads (plf)	id (Pos. Internal) Left: Lumbe	er 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									
<li>9) Dead + 0.6 MWFRS Wir Uniform Loads (plf)</li>	nd (Pos. Internal) Right: Lumb	per Increase=1.60, Plate Increase=1.60								
Vert: 1-4=8, 4-7	=10, 7-8=20, 19-22=-12									
Horz: 1-4=-20, 4	4-7=22, 7-8=32									
10) Dead + 0.6 MWFRS W	ind (Neg. Internal) Left: Lumi	ber Increase=1.60, Plate Increase=1.60								
Vert: 1-4=-7. 4	-7=-8, 7-8=-4, 19-22=-20									
Horz: 1-4=-13,	, 4-7=12, 7-8=16									
11) Dead + 0.6 MWFRS W	ind (Neg. Internal) Right: Lur	nber Increase=1.60, Plate Increase=1.60								
Uniform Loads (plf)	-77 7-82 10-2220									
Horz: 1-4=-12,	, 4-7=13, 7-8=18									
12) Dead + 0.6 MWFRS W	ind (Pos. Internal) 1st Paralle	el: Lumber Increase=1.60, Plate Increase=1.60	)							
Uniform Loads (plf)		2 42								
Horz: 1-26=-3	, 4-26=9, 4-7=2, 7-8=-3, 19-2. 1, 4-26=-21, 4-7=14, 7-8=9	2=-12								
13) Dead + 0.6 MWFRS W	ind (Pos. Internal) 2nd Parall	el: Lumber Increase=1.60, Plate Increase=1.6	0							
Uniform Loads (plf)	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~									
Vert: 1-4=2, 4- Horz: 1-4=-14	29=9, 7-29=19, 7-8=14, 19-2 4-29=21 7-29=31 7-8=26	22=-12								
14) Dead + 0.6 MWFRS W	ind (Pos. Internal) 3rd Paralle	el: Lumber Increase=1.60, Plate Increase=1.6	D							
Uniform Loads (plf)										
Vert: 1-4=9, 4-	·7=2, 7-8=-3, 19-22=-12									
15) Dead + 0.6 MWFRS W	ind (Pos. Internal) 4th Paralle	el: Lumber Increase=1.60, Plate Increase=1.60	)							
Uniform Loads (plf)	, , , , , , , , , , , , , , , , , , ,									
Vert: 1-4=2, 4-	7=9, 7-8=5, 19-22=-12									
16) Dead + 0.6 MWFRS W	/ind (Neg. Internal) 1st Paralle	el: Lumber Increase=1.60. Plate Increase=1.6	)							
Uniform Loads (plf)		,								
Vert: 1-26=2, 4	4-26=-7, 4-7=-15, 7-8=-11, 19	9-22=-20								
Horz: 1-26=-22 17) Dead + 0.6 MW/ERS W	2, 4-26=-13, 4-7=5, 7-8=9 (ind (Neg. Internal) 2nd Paral	lel: Lumber Increase-1.60. Plate Increase-1.6	:0							
Uniform Loads (plf)	ind (Neg. internal) zha i ala		0							
Vert: 1-4=-15,	4-29=-7, 7-29=2, 7-8=6, 19-2	22=-20								
Horz: 1-4=-5, 4	4-29=13, 7-29=22, 7-8=26	a 0.00 Plate Increase 0.00 Plt motel 0.00								
Uniform Loads (plf)	Allic Storage. Lumber increas									
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) Le	ft): Lumber	Increase=	1.60, Plate					
Increase=1.60										
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. Int) Ri	ght): Lumbe	er Increase	=1.60, Plate					
Uniform Loads (olf)										
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									

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

ntinued on page 3

Τ...



Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 107 Providence Creek
MASTEREARM	404	COMMON	3	1	154531037
			5	·	Job Reference (optional)

Builders firstsource, Apex . NC

8.530 s May 26 2022 MiTek Industries, Inc. Tue Oct 4 14:14:02 2022 Page 3 ID:NOHDxMFxGtHiYullGv8Cp8zfMF4-50EJL8x4K8?DN7YKonlKtNN5zT5u6Dro1uRlklyWme3

# 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

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





	12-7-0			38-0-8			
•	12-7-0	12-7-0		•	12-10-8		
Plate Offsets (X,Y)	[7:Edge,0-1-4]						
LOADING (psf)	SPACING- 2-0-0	CSI. DEF	L. in (loc)	l/defl L/d	PLATES GRIP		
TCLL 20.0	Plate Grip DOL 1.15	TC 0.68 Ver	(LL) -0.40 9-12	>999 360	MT20 244/190		
TCDL 10.0	Lumber DOL 1.15	BC 0.88 Ver	(CT) -0.63 9-12	>724 240			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.38 Hor	2(CT) 0.09 7	n/a n/a			
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS Win	d(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.

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





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.

\* 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 8) 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) 1, 38, 39, 40, 41, 42. 43. 44. 45. 32. 31. 30. 29. 28. 27. 26. 25.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss system. See MSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





2-4=-1394/95, 4-6=-1090/85, 6-8=-1090/85, 8-10=-1394/95 TOP CHORD

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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss system. See MSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road Edenton, NC 27932



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 sand truss system. See **MSIVTPI1 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



#### 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.



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 property 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 sand truss system. See **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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) 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 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.



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 property 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 sand truss system. See **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





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

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

TOP CHORD

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.



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 property 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 sand truss system. See **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





LOADING (pr TCLL 20 TCDL 10 BCLL 0 BCDL 10	osf) 0.0 0.0 0.0 * 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TF	2-0-0 <b>CSI.</b> 1.15 TC 1.15 BC YES WB PI2014 Matr	0.14 0.09 0.04 ix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 0.00 -0.00	(loc) 1 1 8	l/defl n/r n/r n/a	L/d 120 120 n/a	<b>PLATES</b> MT20 Weight: 56 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD BOT CHORD	0 2x4 SP 0 2x4 SP	No.2 No.2			BRACING- TOP CHOR	RD	Structur except e	ral wood end vertio	sheathing dire	ectly applied or 6-0-0	oc purlins,
TOP CHORD BOT CHORD WEBS	<ul> <li>2x4 SP</li> <li>2x4 SP</li> <li>2x4 SP</li> <li>2x4 SP</li> </ul>	No.2 No.2 No.3			TOP CHOR		Structur except e Rigid ce	ral wood end vertic eiling dire	sheathing dire cals. ctly applied o	ectly appl r 10-0-0 (	ied or 6-0-0 oc bracing.

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 11-8-0.

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

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.

\* 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 7) 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.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to preven tbuckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses sand truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



<sup>111111</sup> OR anna anna SEAL 036322 G mmm October 4,2022



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 2x4 SP No 2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD

TOF CHORD	2X4 3F NU.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)

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

TOP CHORD 6-9=-848/203

#### NOTES-

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

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
 Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry

Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 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



except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9, 6-7.

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

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







				3-8-0	
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.15	TC 0.17	Vert(LL) -0.01 4-7 >999 360 MT20 244/190	
TCDL	10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) -0.02 4-7 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 2 n/a n/a	
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.



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

AMITEK Affiliate 818 Soundside Road Edenton, NC 27932

# 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.



 184	D	•
 J I V I		<b>R</b> -

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

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.



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





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 oullapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss system. See **ANSUTPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

A MiTek Affiliate 818 Soundside Road Edenton, NC 27932



	0-6-8	6-7-8	7-8-0	
	0-6-8	6-1-0	1-0-8	
Plate Offsets (X,Y)	[2:0-0-0,0-0-6], [2:0-0-13,0-9-1]			

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.92	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		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	912014	Matri	x-MS	Wind(LL)	0.09	7-12	>979	240	Weight: 32 lb	FT = 20%

## LUMBER-

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

BRACING-TOP CHORD BOT CHORD

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

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.

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

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	Ply	Mattamy-Sequoia-Lot 107 Providence Creek
					1545310
MASTERFARM	P01	SPECIAL	2	1	
					Job Reference (optional)
Builders FirstSource (Apex, NC), Apex, NC - 27523,			6	3.530 s Aug	g 11 2022 MiTek Industries, Inc. Tue Oct 4 09:26:09 2022 Page 2

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 09:26:09 2022 Page 2 ID:NOHDxMFxGtHiYullGv8Cp8zfMF4-?e?I0EUP8t1SRTwM5oOVe5UEvduRWlvM62IEzzyWqry

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

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





LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCodeIRC2015/TPI2014	CSI. TC 0.92 BC 0.36 WB 0.26 Matrix-MS	DEFL.         ir           Vert(LL)         -0.04           Vert(CT)         -0.09           Horz(CT)         0.01           Wind(LL)         0.09	(loc) 7-16 7-16 2 7-16	l/defl L/d >999 360 >999 240 n/a n/a >979 240	PLATES         GRIP           MT20         244/190           Weight: 37 lb         FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP 3-7: 2x. OTHERS 2x4 SP WEDGE Left: 2x4 SP No.3	No.2 No.2 No.3 *Except* 4 SP No.1 No.3		BRACING- TOP CHORD BOT CHORD	Structura except e Rigid cei	al wood sheathing di ind verticals, and 2-0 iling directly applied	rectly applied or 6-0-0 oc purlins, )-0 oc purlins (6-0-0 max.): 4-7, 4-5. or 6-11-9 oc bracing.
REACTIONS. (size Max H Max U Max G	e) 6=Mechanical, 2=0-3-0 orz 2=102(LC 12) plift 6=-249(LC 8), 2=-143(LC 8) rav 6=949(LC 1), 2=513(LC 1)					
FORCES.         (lb) - Max.           TOP CHORD         2-3=-           BOT CHORD         2-7=-           WEBS         4-6=-	Comp./Max. Ten All forces 250 (lb) or 511/325 397/441, 6-7=-722/873 1044/858	less except when shown				
<ul> <li>NOTES-</li> <li>1) Unbalanced roof live</li> <li>2) Wind: ASCE 7-10; V gable end zone and and right exposed; p plate grip DOL=1.60</li> <li>3) Truss designed for w Gable End Details at</li> <li>4) Provide adequate dr</li> <li>5) Gable studs spaced</li> <li>6) This truss has been</li> <li>7) * This truss has been</li> <li>7) * This truss has been</li> <li>7) * This truss has been</li> <li>7) Provide mechanical 6=249, 2=143.</li> <li>10) Graphical purlin rep</li> <li>11) Hanger(s) or other</li> </ul>	e loads have been considered for this de fult=115mph Vasd=91mph; TCDL=6.0ps C-C Exterior(2) -1-0-0 to 2-0-0, Interior( orch left and right exposed;C-C for men- vind loads in the plane of the truss only. s applicable, or consult qualified building ainage to prevent water ponding. at 2-0-0 oc. 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. connection (by others) of truss to bearin presentation does not depict the size or connection device(s) shall be provided s	sign. f; BCDL=6.0psf; h=32ft; ( 1) 2-0-0 to 7-6-4 zone; ca bers and forces & MWFF For studs exposed to wir designer as per ANSI/TF e load nonconcurrent with he bottom chord in all are g plate capable of withsta the orientation of the purli sufficient to support conce	Cat. II; Exp B; Enclosed; ntilever left and right exp S for reactions shown; I ad (normal to the face), s PI 1. any other live loads. as where a rectangle 3- nding 100 lb uplift at joir n along the top and/or b entrated load(s). The de	MWFRS ( loosed ; end Lumber DC see Standa 6-0 tall by ht(s) excep ottom choi sign/selec	(envelope) d vertical left DL=1.60 ard Industry 2-0-0 wide bt (jt=lb) rd.	SEAL 036322

- will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

# LOAD CASE(S) Standard

#### Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



G١ 11111111

October 4,2022

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 107 Providence Creek	
						154531051
MASTERFARM	P01SG	GABLE	1	1		
					Job Reference (optional)	
Builders FirstSource (Apex,	NC), Apex, NC - 27523,			3.530 s Au	g 11 2022 MiTek Industries, Inc. Tue Oct 4 09:26:10 2022	Page 2

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 09:26:10 2022 Page 2 ID:NOHDxMFxGtHiYullGv8Cp8zfMF4-TqZhDaV1vB9J3dVZfWvkAl1Pe1EgFk9WLiVnWPyWqrx

# 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

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





	6-0-0			12-0-	0	
	6-0-0		1	6-0-0	0	
Plate Offsets (X,Y)	[2:0-0-0,0-1-6], [2:0-3-3,Edge], [4:0-0-0,	0-1-6], [4:0-3-3,Edge]				
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 6-9 >999 3 6-9 >999 2 2 n/a 6-12 >999 2	L/d <b>PLATES</b> 360 MT20 240 n/a 240 Weight: 47 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S WEBS 2x4 S WEDGE Left: 2x4 SP No.3 , R	P No.2 P No.2 P No.3 ght: 2x4 SP No.3		BRACING- TOP CHORD BOT CHORD	Structural wood she Rigid ceiling directly	eathing directly applied or 6-0-0 y applied or 10-0-0 oc bracing.	oc purlins.
REACTIONS.         (size)         2=0-3-0, 4=0-3-0           Max Horz         2=-50(LC 13)           Max Uplift         2=-95(LC 8), 4=-95(LC 9)           Max Grav         2=540(LC 1), 4=540(LC 1)						
FORCES.       (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-3=-686/417, 3-4=-686/414         BOT CHORD       2-6=-311/578, 4-6=-311/578         WEBS       3-6=-192/251						
NOTES-	in loads have been considered for this do	sign				

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 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.



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





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss system. See MSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY A MITEK Affiliate 818 Soundside Road

Edenton, NC 27932



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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 11-6-12, Exterior(2) 11-6-12 to 14-6-12, Interior(1) 14-6-12 to 22-7-0 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) All plates are 2x4 MT20 unless otherwise indicated.

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.

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, 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, 8, 9, 12, 11.



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







WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss system. See MSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





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, 8.



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





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



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

A MiTek Affili 818 Soundside Road Edenton, NC 27932



#### 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.



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 sand truss system. See **MSIVTPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





Max Uplift 1=-13(LC 12), 3=-17(LC 13)

Max Grav 1=102(LC 1), 3=102(LC 1), 4=187(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.



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 sand truss system. 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

A MiTek Affili 818 Soundside Road Edenton, NC 27932

