

Trenco RE: 654049___120mph - H&H/Wilmington/ 818 Soundside Rd Site Information: Edenton, NC 27932 Project Customer: h and h Project Name: 654049 120 mph Lot/Block: a Subdivision: all Model: Address: City: Fayetteville State: nc General Truss Engineering Criteria & Design Loads (Individual Truss Design **Drawings Show Special Loading Conditions):** Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.2 Wind Code: ASCE 7-10 Wind Speed: 120 mph Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-10 Roof Load: 40.0 psf Floor Load: N/A psf Mean Roof Height (feet): 25 Exposure Category: C No. Seal# Truss Name Date No. Seal# Truss Name Date C05 C06 C07 CP01 CP02 A01 A02 35 36 137221785 137221819 5/28/10 5/28/19 123456789111111111122222222222233333 137221786 137221820 28/19 5/28/19 37 38 137221787 137221821 A03 28/10 5/28/19 137221788 A04 137221822 5/28/19 28/19 **3**9 137221789 A04A 137221823 28. 137221790 **4**0 D01 137221824 A05 41 42 137221791 A05A 137221825 28/ D02 5/28/19 137221792 137221826 D03 A06 28/1 137221793 43 A07 137221827 G01 G02 28/ 5/28 137221794 A08 44 137221828 28/19 137221795 45 137221829 G03 J01 A09 /28/19 5/28/10 137221796 46 137221830 A10 28/19 4Ť i37221831 ĴŎ2 137221797 /28/19 5/28 137221798 48 137221832 <u>Ĵ03</u> A24 5/28 /28/19 137221799 4ğ 137221833 J04 A24A 28/19 137221800 A25 50 1372218 Ĵ05 /28/19 5/28/19 51 52 137221801 A25A 137221835 J06 '28/ 137221802 137221836 Ĵ07 A26 28/19 53 54 55 56 137221803 A34 137221837 J08 28/1 21804 A34A ĴÕ9 137221839 J10 37221805 A35 1806 A35A 137221840 J11 57 58 59 60 137221841 21807 A36 J12 1808 **B01** J13 1809 B02 137221843 J14 21844 1810 J15 21811 61 137221845 B04 J21 1812 B05 62 21846 21813 B23 63 21847 J23 J24 PB01 PB02 PB03 1814 B24 64 21848 C01 C02 C03 C04 137221815 65 137221849 137221816 137221817 137221818 137221850 66 67 l37221851 l37221852 **PB04** 68

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

MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Sumter,SC. Truss Design Engineer's Name: Sevier, Scott My license renewal date for the state of North Carolina is December 31, 2019 **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 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.



Sevier, Scott

May 28,2019

1 of 2



RE: 654049__120mph - H&H/Wilmington/

Trenco 818 Soundside Rd Edenton, NC 27932

No.	Seal#	Job ID#	Truss	Name Date
69	l37221853	654049	120 mb0 5	5/28/19
70	l37221854	654049	120 mb0 6	5/28/19
71	l37221855	654049	120 mb0 7	5/28/19



- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1149, 8=1146.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Continued on page 2

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Ì	leb	Truce	Truce Ture	Otre	Dhy	LIQ LIAA/ilmington/	
	JOD	Truss	Truss Type	QIY	FIY	nan/wiimingion/	
							137221785
	654049 120mph	A01	HIP GIRDER	5	•		
				-	2	lob Reference (entional)	
	Builders FirstSource. S	Sumter, SC - 29153.		8.2	240 s Mav	13 2019 MiTek Industries, Inc. Tue May 28 09:28:16 2019	Page 2

NOTES-

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-coK9e_e4L6uXPWKqPkZZ07N_f0Y6ZircEjT1FkzC05z

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 55 lb down and 72 lb up at 3-6-0, 20 lb down and 38 lb up at 5-6-0, 143 lb down and 169 lb up at 7-5-0, 148 lb down and 169 lb up at 9-5-0, 148 lb down and 169 lb up at 11-5-0, 148 lb down and 169 lb up at 13-5-0, 148 lb down and 169 lb up at 15-5-0, 148 lb down and 169 lb up at 15-5-0, 148 lb down and 169 lb up at 15-5-0, 148 lb down and 169 lb up at 13-5-0, 148 lb down and 169 lb up at 13-5-0, 148 lb down and 169 lb up at 13-5-0, 148 lb down and 169 lb up at 13-5-0, 148 lb down and 169 lb up at 13-5-0, 148 lb down and 169 lb up at 13-5-0, 148 lb down and 169 lb up at 13-5-0, 148 lb down and 169 lb up at 13-5-0, 148 lb down and 169 lb up at 13-5-0, 148 lb down and 169 lb up at 13-5-0, 148 lb down and 169 lb up at 13-5-0, 148 lb down and 169 lb up at 13-5-0, 148 lb down and 169 lb up at 13-5-0, 148 lb down and 169 lb up at 13-5-0, 51 lb down and 51 lb up at 13-5-0, 52 lb down and 28 lb up at 15-5-0, 52 lb down and 28 lb up at 13-5-0, 52 lb down and 28 lb up at 13-5-0, 52 lb down and 28 lb up at 13-5-0, 52 lb down and 28 lb up at 13-5-0, 52 lb down and 28 lb up at 13-5-0, 52 lb down and 28 lb up at 13-5-0, 52 lb down and 28 lb up at 13-5-0, 52 lb down and 28 lb up at 13-5-0, 52 lb down and 28 lb up at 13-5-0, 52 lb down and 28 lb up at 13-5-0, 52 lb down and 28 lb up at 13-5-0, 52 lb down and 28 lb up at 13-5-0, 52 lb down and 28 lb up at 13-5-0, 52 lb down and 28 lb up at 13-5-0, 52 lb down and 28 lb up at 23-5-0, 148 lb down and 132 lb up at 25-5-0, and 95 lb down and 51 lb up at 27-5-0, and 167 lb down and 81 lb up at 29-5-0 on bottom chord. 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: 1-3=-60, 3-7=-60, 7-9=-60, 15-18=-20

Concentrated Loads (lb)

Vert: 21=-15(F) 23=-68(F) 24=-68(F) 25=-68(F) 25=-68(F) 27=-68(F) 28=-68(F) 29=-68(F) 30=-68(F) 31=-68(F) 33=-15(F) 34=-167(F) 35=-95(F) 36=-148(F) 37=-42(F) 38=-42(F) 39=-42(F) 40=-42(F) 41=-42(F) 42=-42(F) 43=-42(F) 45=-42(F) 46=-148(F) 47=-95(F) 48=-167(F)

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	L	9-6-5	1	21-4-11	1	30-11-0	
	1	9-6-5		11-10-5	I	9-6-5	1
Plate Offsets ()	X,Y)	[2:0-8-0,0-0-12], [3:0-3-0,0-2-12], [5:)-3-0,0-2-12], [6:0-8-0,0-0-12]				
LOADING (pst) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	f) 0 0 0 * 0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.48 BC 0.62 WB 0.26 Matrix-AS	DEFL. in Vert(LL) -0.14 Vert(CT) -0.23 Horz(CT) 0.04 Wind(LL) 0.12	(loc) I/defl L/d 8-10 >999 360 8-10 >999 240 6 n/a n/a 10-13 >999 240	d PLATES 00 MT20 00 a Weight: 198 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS	2x6 SP 3-5: 2x4 2x6 SP 2x4 SP	No.2 *Except* 4 SP No.2 No.2 No.3		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood shea 2-0-0 oc purlins (4-9- Rigid ceiling directly a 1 Row at midpt	thing directly applied, except 10 max.): 3-5. applied. 4-10, 4-8	
REACTIONS.	(lb/size Max He	e) 2=1283/0-5-8, 6=1283/0-4-8 orz 2=219(LC 11)					

Max Uplift 2=-178(LC 12), 6=-178(LC 13) Max Grav 2=1331(LC 2), 6=1331(LC 2)

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

TOP CHORD 2-3=-1758/411, 3-4=-1317/441, 4-5=-1317/441, 5-6=-1758/411

BOT CHORD 2-10=-189/1305, 8-10=-210/1429, 6-8=-123/1305

WEBS 3-10=-26/619, 4-10=-319/239, 4-8=-319/239, 5-8=-26/619

NOTES- (10)

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

2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) 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, with BCDL = 10.0psf.

6) All bearings are assumed to be User Defined crushing capacity of 565 psi.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=178, 6=178.

8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any

particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

COLUMN AND AND SEAL 044925 minin May 28,2019

TENGINEERING BY A MITEK Atfiliate 818 Soundside Road Edenton, NC 27932

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	10-3-14		20-7-2		30-11-0	
	10-3-14	I	10-3-4	I	10-3-14	1
Plate Offsets (X,Y)	[2:0-6-4,0-0-12], [3:0-3-0,0-3-4], [4:0-5-3	,Edge], [5:0-3-3,Edge], [6	:0-3-0,0-3-4], [7:0-0-0,0-0	0-4]		
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 0.58 BC 0.49 WB 0.29 Matrix-AS	DEFL. in Vert(LL) -0.16 Vert(CT) -0.23 Horz(CT) 0.03 Wind(LL) 0.05	(loc) l/defl L/d 9-11 >999 360 9-11 >999 240 7 n/a n/a 11-14 >999 240	PLATES MT20 Weight: 195 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 5 BOT CHORD 2x6 5 WEBS 2x4 5 4-9: 1 WEDGE Left: 2x4 SP No.3	SP No.2 SP No.2 SP No.3 *Except* 2x4 SP No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing 2-0-0 oc purlins (4-8-11 m Rigid ceiling directly applie 1 Row at midpt	directly applied, except ax.): 4-5. d. 4-9	
REACTIONS. (Ib/s Max Max	ze) 2=1289/0-5-8, 7=1289/0-5-8 Horz 2=276(LC 11) Uplift 2=-203(LC 12), 7=-203(LC 13)					
FORCES. (Ib) - Ma	x. Comp./Max. Ten All forces 250 (lb) or	less except when shown.				

TOP CHORD 2-3=-1699/455, 3-4=-1465/474, 4-5=-1009/439, 5-6=-1465/474, 6-7=-1699/455

BOT CHORD 2-11=-265/1381, 9-11=-102/1028, 7-9=-228/1281

WEBS 3-11=-382/297, 4-11=-104/612, 5-9=-75/520, 6-9=-381/298

NOTES- (10)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) 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, with BCDL = 10.0psf.

- 6) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=203, 7=203.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any

particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



818 Soundside Road Edenton, NC 27932

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A MiTek Affi 818 Soundside Road Edenton, NC 27932

May 28,2019



	10-9-12	15-5-8	20-1-6	30-11-0		
	10-9-12	4-7-12	4-7-14	10-9-10	1	
Plate Offsets (X,Y)	[2:0-0-0,0-0-4], [5:0-3-12,0-1-12], [6:0-3	-12,0-1-12]				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-12 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.66 BC 0.66 WB 0.37 Matrix-MS	DEFL. ir Vert(LL) -0.12 Vert(CT) -0.21 Horz(CT) 0.03 Wind(LL) 0.06	n (loc) l/defl L/d 2 13 >999 360 11-23 >999 240 3 9 n/a n/a 5 11-23 >999 240	PLATES MT20 Weight: 211 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 4-5,	SP No.2 *Except* 6-7: 2x4 SP No.1	· · · · ·	BRACING- TOP CHORD	Structural wood sheathing dir except	ectly applied or 3-11-5	oc purlins,
BOT CHORD 2x6 WEBS 2x4 15-1	SP No.2 SP No.3 *Except* 6: 2x4 SP No.2		BOT CHORD WEBS	2-0-0 oc purlins (5-8-10 max. Rigid ceiling directly applied of 1 Row at midpt 1): 5-6. or 10-0-0 oc bracing. 5-16, 6-14	
REACTIONS. (Ib/s Max	size) 2=1329/0-5-8, 9=1329/0-4-8 Horz 2=-310(LC 10)					

Max Horz 2=-310(LC 10) Max Uplift 2=-216(LC 12), 9=-216(LC 13) Max Grav 2=1334(LC 19), 9=1344(LC 20)

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

TOP CHORD 2-3=-1734/464, 3-5=-1521/504, 5-6=-1020/450, 6-8=-1537/505, 8-9=-1742/464

BOT CHORD 2-14=-284/1482, 13-14=0/1009, 11-13=0/1009, 9-11=-221/1324

WEBS 3-14=-451/339, 5-14=-127/657, 6-16=-156/725, 11-16=-156/687, 8-11=-452/339

NOTES- (9)

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

2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) 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, with BCDL = 10.0psf.

6) All bearings are assumed to be User Defined crushing capacity of 425 psi.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=216, 9=216.

8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any

particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-62, 5-6=-62, 6-10=-62, 18-21=-21





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TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied, except

14-15, 6-13

2-0-0 oc purlins (5-8-14 max.): 5-6.

Rigid ceiling directly applied.

1 Row at midpt

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LOWIDER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *

Except 14-15: 2x4 SP No.2 WEDGE

Right: 2x4 SP No.3

- REACTIONS. (lb/size) 2=1290/0-5-8. 9=1236/Mechanical Max Horz 2=294(LC 11) Max Uplift 2=-210(LC 12), 9=-186(LC 13) Max Grav 2=1313(LC 19), 9=1268(LC 20)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 2-3=-1707/451, 3-5=-1508/490, 5-6=-991/438, 6-8=-1520/492, 8-9=-1718/452
- BOT CHORD 2-13=-289/1456, 12-13=-22/995, 10-12=-22/995, 9-10=-240/1308
- 3-13=-438/328, 5-13=-122/663, 6-15=-152/715, 10-15=-152/677, 8-10=-439/328 WEBS

NOTES-(11)

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left 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, with BCDL = 10.0psf.
- 6) All bearings are assumed to be User Defined crushing capacity of 425 psi.

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

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=210, 9=186.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any
- particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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

Continued on page 2

🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign valid for use only with with every connectors. This design is based only upon parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	
					1372	221791
654049120mph	A05A	PIGGYBACK BASE	35	1		
					Job Reference (optional)	
Builders FirstSource,	Sumter, SC - 29153,		8.2	40 s May	13 2019 MiTek Industries, Inc. Tue May 28 09:28:23 2019 Pag	ge 2
		ID	:XOjtQcFi	Qu8X?XjG	N5R0bmzVOFf-v8Go6NkTiFnXlbMBKjBCob9Argt3igterJfv?rzC	05s

LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 1-5=-60, 5-6=-60, 6-9=-60, 17-20=-20

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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 **ANSUTPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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	1	8-11-6	8-4-2	11-2-0	2-5-8	
Plate Offsets (X,Y)	[2:0-3-8,Edge],	, [2:0-0-8,0-3-12], [2:0-0-4,0-0-5	, [5:0-3-0,0-2-2], [6:0-4-4,0-1-	8], [7:0-3-0,0-3-4], [10:0-5-7,0-0-0],	[15:0-4-12,0-3-8], [16:Edge,0-1-8],	
	[17:0-3-8.0-3-0)]				

LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2015/TPI2014	CSI. TC 0.93 BC 0.83 WB 0.70 Matrix-AS	DEFL. in (loc) l/de Vert(LL) -0.27 14-15 >99 Vert(CT) -0.64 14-15 >58 Horz(CT) 0.22 11 n/ Wind(LL) 0.22 14-15 >99	fl L/d 9 360 2 240 a n/a 9 240	PLATES MT20 Weight: 214 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP 5-7,7-8 BOT CHORD 2x4 SP 10-15:: WEBS 2x4 SP WEDGE Left: 2x4 SP No.3	No.2 *Except* : 2x6 SP No.2, 8-12: 2x6 SP No.1 No.2 *Except* 2x6 SP No.2 No.3		BRACING- TOP CHORD Structural wo 2-0-0 oc purl BOT CHORD Rigid ceiling WEBS 1 Row at mic	bod sheathing direct ins (6-0-0 max.): 5-7 directly applied. dpt 5-15	ly applied, except 7.	
REACTIONS. (Ib/size Max He Max U	e) 11=1281/0-5-8, 2=1289/0-5-8 orz 2=-300(LC 10) olift 11=-206(LC 13), 2=-209(LC 12)					
FORCES. (lb) Max. TOP CHORD 2-3=- 9-10= BOT CHORD 2-17= WEBS 3-17=	Comp./Max. Ten All forces 250 (lb) or 1677/435, 3-5=-1526/547, 5-6=-1060/42 1800/491, 10-11=-783/234 268/1343, 6-15=-136/672, 14-15=-228 426/331, 5-17=-214/504, 15-17=-30/11	less except when shown. 6, 6-7=-1066/423, 7-9=-1 '1488, 10-14=-228/1488 79, 5-15=-110/263, 9-15=	-632/319			
 NOTES- (10) 1) Unbalanced roof live 2) Wind: ASCE 7-10; V MWFRS (envelope) MWFRS for reaction 3) Provide adequate dr. 4) This truss has been will fit between the b 6) All bearings are assu 7) Provide mechanical 11=206, 2=209. 8) This truss design reacher sheetrock be applied 9) Graphical purlin repr 9) Graphical purlin repr 9) This truss design reacher sheetrock be applied 9) Graphical purlin repr 	loads have been considered for this de ult=120mph (3-second gust) Vasd=95m gable end zone and C-C Exterior(2) zor s shown; Lumber DOL=1.60 plate grip I ainage to prevent water ponding. designed for a 10.0 psf bottom chord liv o designed for a live load of 20.0psf on t ottom chord and any other members, wi imed to be User Defined crushing capa connection (by others) of truss to bearin quires that a minimum of 7/16" structura I directly to the bottom chord. esentation does not depict the size or th truss is designed as an individual build	sign. ph; TCDL=6.0psf; BCDL= e; end vertical left and rig DOL=1.60 e load nonconcurrent with he bottom chord in all are th BCDL = 10.0psf. ity of 565 psi. g plate capable of withsta wood sheathing be applie e orientation of the purlin	6.0psf; h=25ft; Cat. II; Exp C; Enclose ht exposed;C-C for members and forc any other live loads. as where a rectangle 3-6-0 tall by 2-0- nding 100 lb uplift at joint(s) except (jt- ed directly to the top chord and 1/2" gy along the top and/or bottom chord.	d; es & 0 wide =lb) psum	Annu RTT	SEAL 44925

10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code. 044925 WGINEER May 28,2019

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Plate Offsets (X,Y)	[2:0-3-8,Edge], [2:0-0-8,0-3-12], [2:0-0-4 [15:Edge,0-1-8]	,0-0-5], [5:0-3-0,0-2-2], [6	6:0-4-4,0-1-8], [7:0-3-0,0-3-4]	, [10:0-6-7,0-0-0], [11:0-2-0	,Edge], [14:0-4-12,0-3-8],

LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2015/TPI2014	CSI. TC 0.94 BC 0.84 WB 0.70 Matrix-AS	DEFL. ir Vert(LL) -0.27 Vert(CT) -0.64 Horz(CT) 0.22 Wind(LL) 0.22	(loc) l/defl 13-14 >999 13-14 >579 11 n/a 13-14 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 211 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP 5-7,7-8: BOT CHORD 2x4 SP 10-14: 2 WEBS 2x4 SP WEDGE Left: 2x4 SP No.3	No.2 *Except* 2x6 SP No.2, 8-11: 2x6 SP No.1 No.2 *Except* 2x6 SP No.2 No.3		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood 2-0-0 oc purlins Rigid ceiling dire 1 Row at midpt	sheathing directly (6-0-0 max.): 5-7. ectly applied. 5-14	applied, except	
REACTIONS. (Ib/size Max Ho Max Up) 11=1236/Mechanical, 2=1290/0-5-8 prz 2=293(LC 11) lift 11=-186(LC 13), 2=-209(LC 12)						
FORCES. (lb) - Max. (TOP CHORD 2-3=-' 9-10= BOT CHORD 2-16=	Comp./Max. Ten All forces 250 (lb) or 1678/436, 3-5=-1527/548, 5-6=-1059/42 -1802/497, 10-11=-784/209 -279/1336 6-14=-140/670 13-14=-254/	less except when shown. 9, 6-7=-1065/426, 7-9=-14 1491 10-13=-254/1491	150/457,				
WEBS 3-16=	-426/331, 5-16=-213/502, 14-16=-41/11	71, 5-14=-111/263, 9-14=-	-629/323				
 NOTES- (11) 1) Unbalanced roof live 2) Wind: ASCE 7-10; Vi MWFRS (envelope) MWFRS for reactions 3) Provide adequate dra 4) This truss has been will fit between the bo 6) Bearings are assume 7) Refer to girder(s) for 8) Provide mechanical of 11=186, 2=209. 9) This truss design req sheetrock be applied 10) Graphical purlin rep 11) This manufactured in particular building is 	loads have been considered for this de- ult=120mph (3-second gust) Vasd=95m gable end zone and C-C Exterior(2) zon s shown; Lumber DOL=1.60 plate grip D ainage to prevent water ponding. designed for a 10.0 psf bottom chord live n designed for a live load of 20.0psf on t bottom chord and any other members, wi ed to be: Joint 2 User Defined crushing of truss to truss connections. connection (by others) of truss to bearin uires that a minimum of 7/16" structural directly to the bottom chord. resentation does not depict the size or to truss is designed as an individual building s the responsibility of the building design	sign. bh; TCDL=6.0psf; BCDL=6 e; end vertical left and righ OL=1.60 e load nonconcurrent with he bottom chord in all area h BCDL = 10.0psf. rapacity of 565 psi, Joint 1 g plate capable of withstar wood sheathing be applie he orientation of the purlin ig component. The suitab er per ANSI TPI 1 as refer	5.0psf; h=25ft; Cat. II; E at exposed;C-C for mer any other live loads. Is where a rectangle 3- 1 User Defined crushin ading 100 lb uplift at join d directly to the top cho along the top and/or b ility and use of this con renced by the building i	xp C; Enclosed; hers and forces & 3-0 tall by 2-0-0 w g capacity of 425 ht(s) except (jt=lb) ord and 1/2" gypsu ottom chord. hponent for any code.	& ride psi.		SEAL GINEER, IK, IIII

particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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	6-10-5	12-0-15	17-3-8		24-0-11		28-5-8 30-1	1-0
	6-10-5	5-2-9	5-2-9		6-9-3		4-4-13 2-5	-8
Plate Offsets (X,Y)	[2:0-0-0,0-0-4], [3:0-6-0,0-2-	-0], [7:0-6-0,0-2-0], [8:0)-5-4,0-2-7], [12:0-4-8	3,0-1-8], [14:0-2	2-12,0-2-12]			
LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- 2 Plate Grip DOL Lumber DOL	2-0-0 CS 1.15 TC 1.15 BC	0.47 0.82	DEFL. Vert(LL) 0 Vert(CT) -0	in (loc) l/d 0.18 13-14 >9 0.20 12-13 >9	efl L/d 99 240 99 240	PLATES MT20	GRIP 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr Code IRC2015/TPI2	NO WB 014 Mat	0.32 rix-MS	Horz(CT) ().11 9 r	n/a n/a	Weight: 414 lb	FT = 20%
LUMBER- TOP CHORD 2x4 SP 7-10: 2 BOT CHORD 2x6 SP 5-15: 2 WEBS 2x4 SP REACTIONS. (lb/size Max H Max U	No.2 *Except* x6 SP No.2 No.2 *Except* x4 SP No.2, 8-14: 2x6 SP N No.2 2) 2=2187/0-5-8, 9=2129/0 corz 2=167(LC 26) plift 2=-1166(LC 8), 9=-1145	lo.1 0-5-8 5(LC 9)		BRACING- TOP CHORD BOT CHORD	Structural w 2-0-0 oc pu Rigid ceilinų 10-0-0 oc b	vood sheathing d rlins (6-0-0 max. g directly applied racing: 12-13	irectly applied or 6-0-0 o): 3-7. or 10-0-0 oc bracing. E	oc purlins, except
FORCES. (lb) - Max. TOP CHORD 2-3=- 8-9=- 8-9=- BOT CHORD 2-18= 12-13 12-13 WEBS 3-18= 7-14= 7-14=	Comp./Max. Ten All force: 2838/1639, 3-4=-2880/1888 2785/1575 1366/2170, 16-18=-1369/2 3=-1643/2682, 8-12=-1643// -147/498, 3-16=-873/1137, 898/1171, 7-13=-486/932,	s 250 (lb) or less excepts 3, 4-5=-3603/2383, 5-7 2181, 15-16=-217/369, 2682, 9-11=-1034/187 4-16=-1139/973, 14-10 11-12=-981/1823, 8-1	ot when shown. =-3632/2405, 7-8=-3 5-14=-446/432, 13-1 5 5=-1731/2642, 4-14= 1=-2523/1391	415/2052, 4=-1657/2713, -647/950,				
 NOTES- (12) 1) 2-ply truss to be con Top chords connecte Bottom chords connected Bottom chords connected as 2) All loads are conside ply connections have 3) Unbalanced roof live 4) Wind: ASCE 7-10; V MWFRS (envelope) 5) Provide adequate dr 6) This truss has been will fit between the b 8) All bearings are assi 9) Provide mechanical 2=1166, 9=1145. 10) Graphical purlin rep 	nected together with 10d (0. ed as follows: 2x4 - 1 row at ected as follows: 2x6 - 2 row follows: 2x4 - 1 row at 0-9-0 ered equally applied to all pli a been provided to distribute loads have been considere ult=120mph (3-second gust gable end zone; end vertica ainage to prevent water pon designed for a 10.0 psf botto n designed for a live load of ottom chord and any other r umed to be User Defined cru connection (by others) of tru presentation does not depict	.131"x3") nails as follor 0-9-0 oc, 2x6 - 2 rows vs staggered at 0-9-0 c 0 oc. ies, except if noted as i e only loads noted as (I ed for this design.) Vasd=95mph; TCDL= al left and right exposed nding. om chord live load non 20.0psf on the bottom members. ushing capacity of 565 uss to bearing plate cap t the size or the orienta	vs: staggered at 0-9-0 c c, 2x4 - 1 row at 0-9 rront (F) or back (B) f F) or (B), unless othe e6.0psf; BCDL=6.0ps i; Lumber DOL=1.60 concurrent with any chord in all areas wh psi. bable of withstanding tion of the purlin alor	oc. -0 oc. ace in the LOA rwise indicated sf; h=25ft; Cat. I plate grip DOL other live loads here a rectangle 100 lb uplift at ng the top and/o	D CASE(S) sect I; Exp C; Enclos =1.60 3-6-0 tall by 2-0 joint(s) except (j or bottom chord.	ion. Ply to ed; ŀ-0 wide t=lb)	A LINE RTH	SEAL GINEER, HERLING M. SEVIEL
Continued on page 2							M	ay 28,2019

NGINEERING

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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	
						137221795
654049120mph	A09	HIP GIRDER	1	2		
				2	Job Reference (optional)	
Builders FirstSource. S	umter, SC - 29153.		8.2	240 s Mav	13 2019 MiTek Industries, Inc. Tue May 28 09:28:32 2019	Page 2

NOTES- (12)

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-8tIC?Sr6a0vGKzYvL6sJgV1i2TvVJwlzvDLtppzC05j

- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 55 lb down and 72 lb up at 3-6-0, 20 lb down and 38 lb up at 5-6-0, 143 lb down and 169 lb up at 7-5-0, 148 lb down and 169 lb up at 9-5-0, 148 lb down and 169 lb up at 11-5-0, 148 lb down and 169 lb up at 13-5-0, 148 lb down and 169 lb up at 15-5-0, 92 lb down and 88 lb up at 13-5-0, 148 lb down and 169 lb up at 15-5-0, 92 lb down and 88 lb up at 12-5-0, 92 lb down and 88 lb up at 12-5-0, 89 lb down and 88 lb up at 23-5-0, and 84 lb down and 111 lb up at 25-5-0, and 88 lb down and 87 lb up at 27-5-0 on top chord, and 167 lb down and 88 lb up at 11-6-0, 95 lb down and 51 lb up at 3-6-0, 148 lb down and 132 lb up at 5-6-0, 52 lb down and 28 lb up at 7-5-0, 52 lb down and 28 lb up at 11-5-0, 52 lb down and 28 lb up at 13-5-0, 52 lb down and 28 lb up at 13-5-0, 113 lb down and 113 lb up at 13-5-0, 113 lb down and 131 lb up at 23-5-0, 63 lb down and 63 lb up at 25-5-0, and 35 lb down and 35 lb up at 27-5-0, and 36 lb up at 13-5-0, 52 lb down and 28 lb up at 13-5-0, 52 lb down and 28 lb up at 13-5-0, 113 lb down and 131 lb up at 13-5-0, 113 lb down and 131 lb up at 13-5-0, 113 lb down and 131 lb up at 23-5-0, 63 lb down and 63 lb up at 25-5-0, and 35 lb down and 35 lb up at 27-5-0, and 167 lb down and 81 lb up at 29-8-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf) Vert: 1-3=-60. 3-7=-60. 7-10=-60. 15-19=-20. 12-14=-20. 11-22=-20

Concentrated Loads (lb)

Vert: 15=-92(F) 5=-8(F) 8=-167(F) 25=-15(F) 27=-68(F) 28=-68(F) 29=-68(F) 30=-68(F) 31=-68(F) 32=-8(F) 33=-8(F) 34=-8(F) 35=-44(F) 36=-48(F) 37=-167(F) 38=-95(F) 39=-148(F) 40=-42(F) 41=-42(F) 42=-42(F) 43=-42(F) 44=-42(F) 45=-92(F) 46=-92(F) 47=-92(F) 48=-57(F) 49=-53(F) 49=-53(F) 40=-42(F) 42=-42(F) 42=-42(F) 43=-42(F) 45=-92(F) 46=-92(F) 47=-92(F) 48=-57(F) 49=-53(F) 49=-53(F) 40=-42(F) 41=-42(F) 42=-42(F) 43=-42(F) 45=-92(F) 46=-92(F) 47=-92(F) 48=-57(F) 49=-53(F) 40=-42(F) 40=-42(F) 42=-42(F) 43=-42(F) 45=-92(F) 46=-92(F) 47=-92(F) 48=-57(F) 49=-53(F) 40=-52(F) 40=

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L	9-6-5	17-3-8	1	21-4-11	1	28-5-8	J 30-11-0			
1	9-6-5	7-9-3	1	4-1-3		7-0-13	2-5-8	1		
Plate Offsets (X,Y)	[2:Edge,0-2-8], [3:0-5-4,0-3-4], [5:0-4-0,0	0-2-8], [6:0-5-4,0-3-6], [10	<u>):0-4-12,0-1-8], [12</u>	2:0-4-12,0-3-8],	[14:0-5-0,	0-4-8]				
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 0.68 BC 0.71 WB 0.45 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.16 10-11 -0.33 10-11 0.14 7 0.16 10-11	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 219 lb	GRIP 244/190 FT = 20%		
LUMBER- TOP CHORD 2x6 SP 3-5: 2x BOT CHORD 2x6 SP 4-13,7- WEBS 2x4 SP	No.2 *Except* 4 SP No.2 No.2 *Except* 9: 2x4 SP No.2, 6-12: 2x6 SP DSS No.3		BRACING- TOP CHOR BOT CHOR	D Structur 2-0-0 or D Rigid ce 10-0-0 o	ral wood s c purlins (3 eiling direc oc bracing	heathing diro 3-7-5 max.): tly applied. : 10-11	ectly applied, except 3-5. Except:			
REACTIONS. (Ib/size Max He Max U	REACTIONS. (lb/size) 7=1281/0-5-8, 2=1281/0-5-8 Max Horz 2=218(LC 11) Max Uplift 7=-177(LC 13), 2=-177(LC 12)									
FORCES. (lb) - Max. TOP CHORD 2-3=- BOT CHORD 2-14= 6-10= 8-3 WEBS 3-14= 5-11= 5-11=	Comp./Max. Ten All forces 250 (lb) or 1639/427, 3-4=-1525/518, 4-5=-1510/50 199/1192, 13-14=-7/262, 4-12=-366/22 163/1425, 7-9=-310/1073 -0/299, 12-14=-202/949, 3-12=-195/514, 26/551, 6-9=-1499/433	less except when shown. 8, 5-6=-1867/473, 6-7=-1 9, 11-12=-162/1414, 10-1 5-12=-236/313, 9-10=-29	578/461 1=-163/1425, 92/1076,							
 NOTES- (10) 1) Unbalanced roof live 2) Wind: ASCE 7-10; V MWFRS (envelope) MWFRS for reaction 3) Provide adequate dr 4) This truss has been 5) * This truss has been will fit between the b 6) All bearings are assist 7) Provide mechanical 7=177, 2=177. 8) This truss design red 	loads have been considered for this der ult=120mph (3-second gust) Vasd=95m gable end zone and C-C Exterior(2) zon s shown; Lumber DOL=1.60 plate grip D ainage to prevent water ponding. designed for a 10.0 psf bottom chord live n designed for a live load of 20.0psf on the ottom chord and any other members, wi umed to be User Defined crushing capac connection (by others) of truss to bearing aures that a minimum of 7/16" structural	sign. bh; TCDL=6.0psf; BCDL= c; end vertical left and rig IOL=1.60 bload nonconcurrent with the bottom chord in all are th BCDL = 10.0psf. ity of 565 psi. g plate capable of withsta wood sheathing be applie	6.0psf; h=25ft; Ca ht exposed;C-C fo any other live loa as where a rectar nding 100 lb uplift ed directly to the t	at. II; Exp C; En or members and ds. gle 3-6-0 tall by at joint(s) exce op chord and 1/	closed; d forces & / 2-0-0 wic pt (jt=lb) /2" avpsun	le	A Contraction	CAROLINA SSIO		

- sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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	<u>8-11-6</u> 8-11-6	17-3-8 8-4-2		<u>28-5-8</u> 11-2-0	<u>30-11-0</u> 2-5-8	
Plate Offsets (X,Y)	[2:0-3-8,Edge], [2:0-0-8,0-3-12], [2:0-0-4	,0-0-5], [5:0-4-0,0-1-6], [8:0-5-0,0-4	1-8], [9:0-5-7,0-0-0], [1	14:0-6-4,0-2-8], [15:Edge,	0-1-8], [16:0-3-8,0-3-	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. DE TC 0.93 Ve BC 0.75 Ve WB 0.70 Ho Matrix-AS Wit Wit	FL. in (loc) tt(LL) -0.25 13-14 tt(CT) -0.61 13-14 rz(CT) 0.21 10 nd(LL) 0.20 13-14	l/defi L/d >999 360 >610 240 n/a n/a >999 240	PLATES MT20 Weight: 217 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SF 7-8: 2x BOT CHORD 2x4 SF 9-14: 2 WEBS 2x4 SF WEDGE Left: 2x4 SP No.3	P No.2 *Except* 6 SP No.2, 8-11: 2x6 SP No.1 P No.2 *Except* 2x6 SP No.2 P No.3	BR TO BO	ACING- P CHORD Struct 2-0-0 T CHORD Rigid 1 Rov	tural wood sheathing direc oc purlins (5-1-9 max.): 5 ceiling directly applied. E w at midpt 6-1	ctly applied, except -7. :xcept: 4	
REACTIONS. (Ib/size Max H Max U	e) 10=1281/0-5-8, 2=1289/0-5-8 lorz 2=-277(LC 10) Jplift 10=-200(LC 13), 2=-203(LC 12)					
FORCES. (lb) - Max. TOP CHORD 2-3=- 8-9=- BOT CHORD 2-16- WEBS 3-16- 8-14: NOTES- (10) 1) Unbalanced roof live 2) Wind: ASCE 7-10; \/ MWFRS (envelope) MWFRS for reactior 3) Provide adequate di 4) This truss has been 5) * This truss has been will fit between the b 6) All bearings are ass 7) Provide mechanical 10=200, 2=203. 8) This truss design re	Comp./Max. Ten All forces 250 (lb) or -1685/444, 3-5=-1512/514, 5-6=-1181/44 -1834/503, 9-10=-783/237 =-258/1269, 6-14=-261/143, 13-14=-246 =-376/299, 5-16=-160/420, 14-16=-53/11 =-640/294 e loads have been considered for this de /ult=120mph (3-second gust) Vasd=95m gable end zone and C-C Exterior(2) zor ns shown; Lumber DOL=1.60 plate grip I rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv en designed for a live load of 20.0psf on t bottom chord and any other members. umed to be User Defined crushing capar connection (by others) of truss to bearin quires that a minimum of 7/16" structural	less except when shown. 3, 6-7=-1188/439, 7-8=-1454/445, 1534, 9-13=-246/1534 45, 5-14=-104/377, 7-14=-164/726 sign. ph; TCDL=6.0psf; BCDL=6.0psf; h: e; end vertical left and right expose VDL=1.60 e load nonconcurrent with any othe he bottom chord in all areas where bity of 565 psi. g plate capable of withstanding 100 wood sheathing be applied directly	, =25ft; Cat. II; Exp C; E d;C-C for members a r live loads. a rectangle 3-6-0 tall) Ib uplift at joint(s) exp v to the top chord and	Enclosed; ind forces & by 2-0-0 wide cept (jt=lb) 1/2" gypsum	S Contraction	SEAL 944925
sheetrock be applied 9) Graphical purlin rep 10) This manufactured particular building	d directly to the bottom chord. resentation does not depict the size or th truss is designed as an individual buildin is the responsibility of the building design	e orientation of the purlin along the ng component. The suitability and ler per ANSI TPI 1 as referenced b	top and/or bottom ch use of this component y the building code.	ord. t for any		GINEER, HALL

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May 28,2019





9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

Contraction of the 044925 S Μ. humm May 28,2019



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ENGINEERING BY ERENCO A MITEK Affiliate 818 Soundside Road

Edenton, NC 27932

May 28,2019

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- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=209, 10=216.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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	10-2-15	14-2-3	21-1-1	30-1	11-0	
	10-2-15	3-11-4	6-10-15	9-9	9-15	
Plate Offsets (X,Y)	[2:0-0-0,0-0-4], [5:0-3-12,0-1-12], [6:0-3	-12,0-1-12]				
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 0.58 BC 0.71 WB 0.44 Matrix-AS	DEFL. in Vert(LL) -0.22 Vert(CT) -0.31 Horz(CT) 0.04 Wind(LL) 0.06	(loc) l/defl L/d 12-14 >999 360 12-14 >999 240 10 n/a n/a 15-21 >999 240	PLATES MT20 Weight: 219 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x6 SP WEBS 2x4 SP 5-12,16 SLIDER Right 2 REACTIONS. (Ib/size Max H Max U Max G	P No.2 P No.2 P No.3 *Except* 6-17: 2x4 SP No.2 2x6 SP No.2 1-11-12 P) 2=1288/0-5-8, 10=1315/0-5-8 orz 2=-303(LC 10) plift 2=-209(LC 12), 10=-216(LC 13) irav 2=1311(LC 19), 10=1321(LC 20)		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathir 2-0-0 oc purlins (5-9-8 m Rigid ceiling directly app 1 Row at midpt	ng directly applied, except nax.): 5-6. slied. 5-12, 16-17	
FORCES. (lb) - Max. TOP CHORD 2-3=- BOT CHORD 2-15= WEBS 3-15=	Comp./Max. Ten All forces 250 (lb) or 1729/444, 3-5=-1548/503, 5-6=-967/438 =-274/1478, 14-15=-64/1054, 12-14=-64 =-436/329, 15-16=-162/734, 5-16=-158/7	less except when shown. 8, 6-8=-1464/489, 8-10=-10 /1054, 10-12=-193/1227 /67, 6-12=-111/637, 8-12=	605/434 390/311			
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-10; V MWFRS (envelope) MWFRS for reaction 3) Provide adequate dr 4) This truss has been 5) * This truss has been will fit between the b 6) All bearings are assi	e loads have been considered for this de /ult=120mph (3-second gust) Vasd=95m gable end zone and C-C Exterior(2) zor is shown; Lumber DOL=1.60 plate grip I rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on f vottom chord and any other members, w umed to be User Defined crushing capa	sign. ph; TCDL=6.0psf; BCDL= ie; end vertical left and rig DOL=1.60 e load nonconcurrent with he bottom chord in all area th BCDL = 10.0psf. city of 565 psi.	6.0psf; h=25ft; Cat. II; Ex ht exposed;C-C for memb any other live loads. as where a rectangle 3-6-	p C; Enclosed; bers and forces & -0 tall by 2-0-0 wide	ALL ART	A CARO

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=209, 10=216.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-60, 5-6=-60, 6-11=-60, 19-22=-20



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Max Grav 2=1320(LC 19), 10=1253(LC 20)

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

- TOP CHORD 2-3=-1710/446, 3-5=-1533/505, 5-6=-966/439, 6-8=-1448/492, 8-10=-1593/437
- BOT CHORD 2-14=-248/1442, 13-14=-42/1032, 11-13=-42/1032, 10-11=-232/1212
- WEBS 3-14=-436/302, 14-15=-133/702, 5-15=-131/737, 6-11=-114/616, 8-11=-392/285

NOTES-

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

2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; 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) 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, with BCDL = 10.0psf.

6) All bearings are assumed to be User Defined crushing capacity of 565 psi.

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

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

9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-60, 5-6=-60, 6-10=-60, 18-21=-20





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- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) 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, with BCDL = 10.0psf.
- 6) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=119, 7=119.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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Job		Truss	Truss Type		Qty	,	Ply	H&H/Wilmington	/			
654049120mph		B03	COMMON		13		1				13722	1810
								Job Reference (optional)	T N 00.00	00 55 0040 D	
Builders FirstSou	irce,	Sumter, SC - 29153,			ID:XOitQcFi	8.2 2u8X?	40 s May XiGN5R0	bmzVOFf-zIBvaK	dustries, Ind 6X95p?bWr	C. Tue May 28 09 KCRmi5LUfVksx	CDIMCIPb7_zC05N	1 M
		-0-10-8	5-11-	9 9-11-8	<u>3 13-11-</u>	7	+	<u>19-11-0</u>	20-9-8			
		0-10-8	5-11-	-9 ' 3-11-1	5 3-11-1	5		5-11-9	0-10-8			
					3x6 =						Scale =	1:66.5
		6x8 =	12.00 12	3x6 //	4		3x6 \ 5	6x	3 = 6 7 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u>e</u>		
		I T V	3					3x6 11		0-4-		
		1	2 3x6	11 10 4x6	_	1	9	5.0 11	3			
				4x6 =	_	4	x6 =					
		ł	5-1-8		14-9-8			<u>19-11-0</u> 5-1-8	-1			
Plate Offsets (X,	,Y) [2	:0-3-8,Edge], [4:0-3-0,Edge],	[6:0-3-8,Edge	e]				010				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	*	SPACING- 2-0 Plate Grip DOL 1. Lumber DOL 1. Rep Stress Incr YE Code IRC2015/TPI201-	-0 5 5	CSI. TC 0.39 BC 0.43 WB 0.75 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.18 -0.18 0.01	(loc) 11-12 11-12 8	l/defl L/d >999 240 >999 180 n/a n/a		PLATES MT20 Weight: 142 lb	GRIP 244/190 FT = 20%	
LUMBER- TOP CHORD 2 BOT CHORD 2 WEBS 2	2x4 SP N 2x6 SP N 2x4 SP N 2-12,6-8:	lo.2 lo.2 lo.3 *Except* 2x4 SP No.2			BRACING- TOP CHORI BOT CHORI	כ כ	Structur except e Rigid ce	al wood sheathir end verticals. eiling directly app	ig directly a lied or 9-1-	applied or 5-8-12 14 oc bracing.	oc purlins,	
REACTIONS.	(lb/size) Max Hor Max Upli Max Gra	12=846/0-5-8, 8=846/0-5-8 z 12=349(LC 11) ft 12=-124(LC 12), 8=-124(L v 12=868(LC 20), 8=868(LC	3 C 13) 19)									
FORCES. (Ib) TOP CHORD BOT CHORD WEBS	- Max. Co 2-3=-10 11-12=- 5-9=-52	003/240, 5-6=-1003/240, 2-12 03/240, 5-6=-1003/240, 2-12 -474/561, 9-11=-44/691, 8-9= 2/307, 3-11=-53/307, 3-5=-60	50 (lb) or less 2=-896/256, 6 232/299 7/324, 2-11=-	except when shown. -8=-897/256 182/662, 6-9=-191/67()							
NOTES- (7) 1) Unbalanced re	oof live lo	oads have been considered f	or this design.									

 Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=124, 8=124.

7) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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NOTES- (7)

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

2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=109, 7=124.

7) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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, with BCDL = 10.0psf.

6) All bearings are assumed to be User Defined crushing capacity of 565 psi.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=136, 10=136.

8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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Design valid for use only with MITeKe 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 we band/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 **ANSUTPH Quality Criteria**, **DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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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 ocllapse 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.
Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	
					1372	221815
654049120mph	C01	GABLE	3	1		
					Job Reference (optional)	
Builders FirstSource,	Sumter, SC - 29153,		8.2	40 s May	13 2019 MiTek Industries, Inc. Tue May 28 09:29:02 2019 Pag	ge 2
		ID:XOjtQo	FiQu8X?>	(jGN5R0bi	mzVOFf-Ge6YIjCwWEh?warg6POLupHgcZGdKWXNptcTt4zC0)5F

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-4=-75(F=-15), 4-6=-75(F=-15), 6-9=-60, 20-26=-35(F=-15), 23-26=-20, 7-11=-45(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	
654049 120mph	C02	Hip Girder	3			137221816
004040_120mph	002		5	2	Job Reference (optional)	
Builders FirstSource S	umter SC - 29153		82	40 s May	13 2019 MiTek Industries Inc. Tue May 28 09:29:03 2019	Page 2

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-krgwW3DYHYpsYkQtg6vaQ1p3EyS?3v7X1XL0PWzC05E 12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 4-6=-60, 12-15=-20

Concentrated Loads (lb) Vert: 18=-1218(B) 19=-1216(B) 20=-1216(B) 21=-1216(B) 22=-1216(B) 23=-1216(B) 24=-1216(B) 25=-1216(B) 26=-1216(B) 26=-120(B) 26

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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	
					137	7221817
654049120mph	C03	GABLE	5	1		
					Job Reference (optional)	
Builders FirstSource,	Sumter, SC - 29153,		8.2	40 s May	13 2019 MiTek Industries, Inc. Tue May 28 09:29:05 2019 Pa	ige 2
		ID:XOjt	QcFjQu8X	XiGN5R0	bmzVOFf-gDohwkEpp94ao2ZFnXy2VSvLfmIgXtXgVrg7UPzC	05C

LOAD CASE(S) Standard

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

Vert: 1-2=-60, 2-4=-75(F=-15), 4-27=-75(F=-15), 7-27=-60, 21-28=-35(F=-15), 24-28=-20, 5-10=-45(F)

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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	
					1372218	818
654049120mph	C04	Common Girder	5	2		
				_	Job Reference (optional)	
Builders FirstSource,	Sumter, SC - 29153,		8.2	240 s May	13 2019 MiTek Industries, Inc. Tue May 28 09:29:06 2019 Page 2	2
		ID:XOjtQcF	Qu8X?XjG	N5R0bm	VOFf-8QM384FRZTCRPC8RLFTH2fRamAV?GBmzjVaq0rzC05B	

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-3=-60, 3-5=-60, 10-13=-20

Concentrated Loads (lb)

Vert: 7=-1216(B) 6=-1216(B) 15=-1222(B) 16=-1216(B) 17=-1216(B) 18=-1216(B) 19=-1216(B) 20=-1216(B) 21=-1216(B)

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

- TOP CHORD 4-5=-473/97, 5-6=-833/5, 2-3=-565/29, 3-4=-533/13, 6-8=-802/102, 2-14=-461/0
- BOT CHORD 13-14=-75/390, 12-13=-75/390, 11-12=-75/390, 9-11=-17/638, 8-9=-348/468
- 11-15=-495/252, 5-15=-509/243, 5-9=0/251, 6-9=-1/488, 3-12=-597/378 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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, with BCDL = 10.0psf.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 12=347.13=364.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
					137221819
654049120mph	C05	GABLE	2	1	
					Job Reference (optional)
Builders FirstSource,	Sumter, SC - 29153,		8.2	40 s May	13 2019 MiTek Industries, Inc. Tue May 28 09:29:07 2019 Page 2
		ID:XOji	tQcFjQu8>	?XjGN5R	0bmzVOFf-ccwRLQG3KnKI1Mjevy_Wbt_gAaul?jL7y9JEYHzC05A

LOAD CASE(S) Standard Uniform Loads (plf)

Vert: 4-5=-76(F=-16), 5-6=-60, 6-7=-60, 1-2=-60, 2-4=-76(F=-16), 14-23=-36(F=-16), 8-23=-20, 5-11=-46(F)

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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	
						137221820
654049120mph	C06	Common Girder	1	2		
				_	Job Reference (optional)	
Builders FirstSource,	Sumter, SC - 29153,		8.1	240 s May	13 2019 MiTek Industries, Inc. Tue May 28 09:29:09	2019 Page 2
			ID:XOjtQcFjQu8X?	XiGN5R0	omzVOFf-Z 1Bm6HJsOa0Gft00N0 gl32 NVbTZXPQ	ToLdAzC058

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-3=-60, 3-5=-60, 6-11=-20

Concentrated Loads (lb)

Vert: 8=-1215(B) 7=-1215(B) 6=-1223(B) 12=-1215(B) 13=-1215(B) 14=-1215(B) 15=-1215(B) 16=-1215(B) 17=-1215(B)

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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	
						137221821
654049120mph	C07	Common Girder	1	2		
				_	Job Reference (optional)	
Builders FirstSource,	Sumter, SC - 29153,		8.2	240 s May	13 2019 MiTek Industries, Inc. Tue May 28 09:29:10 2019	Page 2
		ID:>	(OjtQcFjQ	u8X?XjGN	5R0bmzVOFf-1Bba SIxdiitupSDa4XDCVcDjnrsC0IZe7Yu9	czC057

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-3=-60, 3-5=-60, 6-11=-20

Concentrated Loads (lb)

Vert: 8=-1216(B) 7=-1216(B) 6=-1224(B) 12=-1216(B) 13=-1216(B) 14=-1216(B) 15=-1216(B) 16=-1216(B) 17=-1216(B)

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NOTES- (8)

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

 Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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
 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 20.0ps for 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) All bearings are assumed to be User Defined crushing capacity of 425 psi.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=169, 4=169.

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



818 Soundside Road Edenton, NC 27932

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minin May 28,2019

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11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 16 except (jt=lb) 19=170, 17=168, 18=235, 14=154, 13=245.



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NOTES-

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

2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.

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

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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May 28,2019

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818 Soundside Road Edenton, NC 27932



BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD2x6 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

REACTIONS. (lb/size) 2=836/0-5-8, 4=836/0-3-8 Max Horz 2=-85(LC 13)

Max Uplift 2=-164(LC 12), 4=-164(LC 13)

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

TOP CHORD 2-3=-1235/403, 3-4=-1235/403

BOT CHORD 2-6=-241/1080, 4-6=-241/1080

WEBS 3-6=0/404

NOTES- (8)

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

2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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.

5) All bearings are assumed to be User Defined crushing capacity of 565 psi.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=164, 4=164.

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=479, 5=477.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 76 lb down and 48 lb up at 6-2-6, 81 lb down and 48 lb up at 7-10-4, 81 lb down and 48 lb up at 9-10-4, and 81 lb down and 48 lb up at 11-10-4, and 76 lb down and 48 lb up at 13-8-10 on top chord, and 42 lb down and 50 lb up at 2-3-12, 40 lb down and 82 lb up at 4-3-12, 33 lb down and 56 lb up at 6-3-12, 33 lb down and 56 lb up at 13-7-4, and 40 lb down and 52 lb up at 15-7-4, and 42 lb down and 56 lb up at 13-7-4, on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	
						37221829
654049120mph	G03	Hip Girder	1	1		
					Job Reference (optional)	
Builders FirstSource,	Sumter, SC - 29153,		8.2	240 s May	13 2019 MiTek Industries, Inc. Tue May 28 09:29:20 2019 I	Page 2

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-k6CL4tQDGmzS5LD89BjZcc0u5pMmYgC1yhzQV1zC04z

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 4-6=-60, 8-11=-20 Concentrated Loads (lb) Vert: 17=-42(B) 18=-30(B) 23=-30(B) 24=-42(B)

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3x4 =

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LOADING TCLL TCDL BCLL BCDL	(psf) 20.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/T	2-0-0 1.15 1.15 YES PI2014	CSI. TC BC WB Matri	0.19 0.13 0.07 x-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 0.00 0.00	(loc) 1 1 5	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 23 lb	GRIP 244/190 FT = 20%
LUMBER-			0			in other and line does 0.000)					

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

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. (lb/size) 5=14/6-0-0, 2=190/6-0-0, 6=317/6-0-0 Max Horz 2=79(LC 9) Max Uplift 5=-5(LC 9), 2=-71(LC 8), 6=-94(LC 12)

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

NOTES-(9)

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) Gable requires continuous bottom chord bearing.

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

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

* This truss has been designed for a live load of 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.

7) All bearings are assumed to be User Defined crushing capacity of 565 psi.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.
- 9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any

particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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	0-6-8		6-0-0	
	0-6-8		5-5-8	
Plate Offsets (X,Y)	[2:0-0-0,0-0-12], [2:0-2-9,Edge]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.35	Vert(LL) 0.10 4-9 >733 240	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(CT) -0.07 4-9 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.01 2 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS		Weight: 23 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x4 SP No.2

 WEDGE
 Left: 2x4 SP No.3

REACTIONS. (Ib/size) 2=320/0-3-0, 4=201/0-1-8 Max Horz 2=78(LC 8) Max Uplift 2=-171(LC 8), 4=-114(LC 8)

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

NOTES- (

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed ; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 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.
- All bearings are assumed to be User Defined crushing capacity of 425 psi.
- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=171, 4=114.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



818 Soundside Road Edenton, NC 27932

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

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	0-6-8			
Plate Offsets (X,Y)	[2:0-0-0,0-1-0], [2:0-2-9,Edge]		4-0-0	
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 0.21 BC 0.21 WB 0.00 Matrix-AS	DEFL. in (loc) l/defl L/d Vert(LL) 0.04 4-9 >999 240 Vert(CT) -0.03 4-9 >999 240 Horz(CT) -0.01 2 n/a n/a	PLATES GRIP MT20 244/190 Weight: 20 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.2WEDGELeft: 2x4 SP No.3

REACTIONS. (lb/size) 2=283/0-3-0, 4=158/0-1-8 Max Horz 2=67(LC 8) Max Uplift 2=-154(LC 8), 4=-90(LC 8)

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

NOTES- (

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed ; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 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.
- All bearings are assumed to be User Defined crushing capacity of 425 psi.
- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=154.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



818 Soundside Road Edenton, NC 27932

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

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Max Horz 2=55(LC 11) Max Uplift 4=-41(LC 12), 2=-82(LC 8)

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

NOTES- (9)

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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					1	4-10-12		1				
	G (psf)	SPACING-	2-0-0	CSI.	0.40	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15		0.18	Vert(LL)	0.02	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.01	4-7	>999	240		
BCDL	10.0	Code IRC2015/TF	12014	Matriz	0.00 k-AS	HOTZ(CT)	-0.01	3	n/a	1/2	Weight: 32 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

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LUMBER-
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TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2 WEDGE Left: 2x4 SP No.3

REACTIONS. (lb/size) 3=128/Mechanical, 2=242/0-5-8, 4=62/Mechanical Max Horz 2=244(LC 12)

Max Uplift 3=-161(LC 12), 4=-8(LC 12)

Max Grav 3=159(LC 19), 2=242(LC 1), 4=92(LC 3)

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

NOTES- (8)

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 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) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 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) 4 except (jt=lb) 3=161.

- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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2x6 SP No.2 *Except* TOP CHORD 3-4: 2x4 SP No.2 BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except 2-0-0 oc purlins: 3-4. Rigid ceiling directly applied.

REACTIONS. (Ib/size) 4=30/Mechanical, 2=236/0-5-8, 6=168/Mechanical Max Horz 2=207(LC 12) Max Uplift 4=-16(LC 8), 6=-112(LC 12) Max Grav 4=30(LC 1), 2=236(LC 1), 6=181(LC 19)

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

NOTES-(11)

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

2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) 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) All bearings are assumed to be User Defined crushing capacity of 425 psi.

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

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 6=112.

9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any

particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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TCLL TCDL BCLL BCDL	20.0 10.0 0.0 * 10.0	Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TP	1.15 1.15 YES I2014	TC BC WB Matri	0.11 0.09 0.03 x-AS	Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.01 -0.01 0.00 0.00	6-9 6-9 4 6-9	>999 >999 n/a >999	360 240 n/a 240	MT20 Weight: 31 lb	244/190 FT = 20%	
LUMBER-					3-	Christer		ah a ath in a	diversity emplied except				

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.2 *Except*	TOP CHORD	Structural wood sheathing directly applied, except
	3-4: 2x4 SP No.2		2-0-0 oc purlins: 3-4.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.3		

REACTIONS. (lb/size) 4=75/Mechanical, 2=242/0-5-8, 5=115/Mechanical Max Horz 2=140(LC 12) Max Uplift 4=-41(LC 8), 2=-23(LC 12), 5=-31(LC 12) Max Grav 4=75(LC 1), 2=242(LC 1), 5=119(LC 3)

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

NOTES- (11)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left 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) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any
- particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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4-10-12
4-10-12

TOP CHORD

Plate Offsets (X,Y) [3:0-4-4,0-1-12]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP			
TCLL 20.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.00 5-8 >999 360 MT20 244/190			
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) -0.01 5-8 >999 240			
BCLL 0.0 *	Rep Stress Incr NO	WB 0.03	Horz(CT) 0.00 2 n/a n/a			
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP	Wind(LL) 0.00 5-8 >999 240 Weight: 31 lb FT = 20%			
LUMBER-			BRACING-			

TOP CHORD 2x6 SP No.2 *Except*

3-4: 2x4 SP No.2 BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.2

Structural wood sheathing directly applied or 4-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=240/0-5-8, 5=187/Mechanical

Max Horz 2=73(LC 8) Max Uplift 2=-52(LC 8), 5=-61(LC 5)

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

NOTES-(12)

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

2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed;

- MWFRS (envelope) gable end zone; end vertical left exposed; 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) Bearings are assumed to be: Joint 2 User Defined crushing capacity of 565 psi, Joint 5 User Defined crushing capacity of 425 psi. 7) Refer to girder(s) for truss to truss connections.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 52 lb down and 26 lb up at 0-9-15, and 61 lb down and 24 lb up at 2-11-8 on top chord, and 8 lb down and 11 lb up at 0-11-8, and 8 lb down and 11 lb up at 2-11-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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

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

Vert: 10=-1(B) 11=-1(B)





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BRACING-

TOP CHORD

BOT CHORD

NOTES	1-

LUMBER-

WEDGE Left: 2x4 SP No.3 REACTIONS. (I

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

(lb/size) 3=28/Mechanical, 2=126/0-5-8, 4=13/Mechanical

Max Uplift 3=-30(LC 12), 2=-18(LC 12), 4=-4(LC 12) Max Grav 3=34(LC 19), 2=126(LC 1), 4=23(LC 3) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 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.
- All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 5) Refer to girder(s) for truss to truss connections.

Max Horz 2=72(LC 12)

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 7) This manufactured truss is designed as an individual building component. The suitability and use of this component for any
- particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Structural wood sheathing directly applied or 1-5-4 oc purlins.

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

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818 Soundside Road Edenton, NC 27932



11/1	D	E	D	_

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

WEBS 2x4 SP No.3

BRACING-TOP CHORD

 TOP CHORD
 Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 4-5.

 BOT CHORD
 Rigid ceiling directly applied.

REACTIONS. (lb/size) 9=255/0-5-8, 5=104/Mechanical, 6=77/Mechanical Max Horz 9=195(LC 12) Max Uplift 5=-75(LC 12), 6=-43(LC 12) Max Grav 9=255(LC 1), 5=104(LC 1), 6=88(LC 19)

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

NOTES- (12)

2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left 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) All plates are MT20 plates unless otherwise indicated.

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) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 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) 5, 6.

10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any

particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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



LOADING (psf) SPACING- 2-0-0 TCLL 20.0 Plate Grip DOL 1.15 TCDL 10.0 Lumber DOL 1.15 BCLL 0.0 * Rep Stress Incr YES BCDL 10.0 Code IRC2015/TPI2014	CSI. TC 0.24 BC 0.29 WB 0.02 Matrix-AS	DEFL. in Vert(LL) -0.02 Vert(CT) -0.04 Horz(CT) 0.05 Wind(LL) 0.03	(loc) 5-6 5-6 4 5-6	l/defl L >999 30 >999 20 n/a r >999 20	L/d 60 40 n/a 40	PLATES MT20 MT20HS Weight: 26 lb	GRIP 244/190 187/143 FT = 20%	
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TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 3-4. Rigid ceiling directly applied.

 REACTIONS.
 (lb/size)
 8=255/0-5-8, 4=108/Mechanical, 5=73/Mechanical

 Max Horz
 8=128(LC 12)
 Max Uplift
 8=-27(LC 12), 4=-51(LC 9), 5=-15(LC 12)

 Max Grav
 8=255(LC 1), 4=108(LC 1), 5=82(LC 3)
 8

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

NOTES- (12)

2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left 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) All plates are MT20 plates unless otherwise indicated.

- 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) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 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) 8, 4, 5.

10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any
- particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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



LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD 2x4 SP No.2 *Except* WEBS 2-5: 2x4 SP No.3

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing

- REACTIONS. (Ib/size) 6=152/0-5-8, 3=38/Mechanical, 4=18/Mechanical Max Horz 6=107(LC 12) Max Uplift 3=-53(LC 12), 4=-45(LC 12) Max Grav 6=152(LC 1), 3=50(LC 19), 4=45(LC 10)
- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.

NOTES-(6)

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 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) 3, 4.
- 6) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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Plate Offsets (X,Y)	[3:0-2-8,Edge]			_
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 0.12 BC 0.08 WB 0.00	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.00 6 >999 360 MT20 244/190 Vert(CT) -0.00 6 >999 240 MT20 244/190	=
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MR	Wind(LL) 0.00 6 >999 240 Weight: 13 lb FT = 20%	
		•	DDA OINO	_

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-0-0 oc purlins,
BOT CHORD	2x4 SP No.2		except end verticals, and 2-0-0 oc purlins: 3-4.
WEBS	2x4 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
	4-5: 2x4 SP No.3		

REACTIONS. (lb/size) 5=50/Mechanical, 6=148/0-5-8 Max Horz 6=105(LC 11) Max Uplift 5=-65(LC 9), 6=-28(LC 12) Max Grav 5=62(LC 19), 6=148(LC 1)

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

NOTES- (10)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) 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) Bearings are assumed to be: Joint 6 User Defined crushing capacity of 565 psi.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any
- particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.




REACTIONS. (lb/size) 5=50/Mechanical, 6=140/0-5-8 Max Horz 6=66(LC 11) Max Uplift 5=-33(LC 9), 6=-36(LC 12) Max Grav 5=62(LC 24), 6=140(LC 1)

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

NOTES- (10)

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

- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 1-10-4 zone; 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) 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) Bearings are assumed to be: Joint 6 User Defined crushing capacity of 565 psi.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



818 Soundside Road Edenton, NC 27932



3x4 =

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LOADING TCLL TCDL BCLL BCDL	(psf) 20.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TF	2-0-0 1.15 1.15 YES Pl2014	CSI. TC BC WB Matri	0.19 0.13 0.07 x-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 0.00 0.00	(loc) 1 1 5	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 23 lb	GRIP 244/190 FT = 20%
LUMBER-					BRACING-							

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

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. (lb/size) 5=14/6-0-0, 2=190/6-0-0, 6=317/6-0-0 Max Horz 2=79(LC 11) Max Uplift 5=-5(LC 9), 2=-71(LC 8), 6=-94(LC 12)

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

NOTES-(9)

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) Gable requires continuous bottom chord bearing.

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

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

* This truss has been designed for a live load of 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.

7) All bearings are assumed to be User Defined crushing capacity of 565 psi.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.
- 9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any

particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.







6-0-0		
5-5-8		
CSI. DEFL. in (loc) I/defl L/d	PLATES GRIP	
TC 0.35 Vert(LL) 0.10 4-9 >733 240	MT20 244/190	
BC 0.32 Vert(CT) -0.07 4-9 >999 240		
WB 0.00 Horz(CT) -0.01 2 n/a n/a		
Matrix-AS	Weight: 23 lb FT = 20%	
	6-0-0 5-5-8 CSI. DEFL. in (loc) l/defl L/d TC 0.35 Vert(LL) 0.10 4-9 >733 240 BC 0.32 Vert(CT) -0.07 4-9 >999 240 WB 0.00 Horz(CT) -0.01 2 n/a n/a	

TOP CHORD

BOT CHORD

LUMBER-

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x4 SP No.2

 WEDGE
 Left: 2x4 SP No.3

REACTIONS. (Ib/size) 2=320/0-3-0, 4=201/0-1-8 Max Horz 2=78(LC 8) Max Uplift 2=-171(LC 8), 4=-114(LC 8)

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

NOTES- (

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed ; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 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.
- All bearings are assumed to be User Defined crushing capacity of 425 psi.
- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=171, 4=114.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



818 Soundside Road Edenton, NC 27932

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.



	0-6-8		<u>5-0-0</u> 4-5-8				
Plate Offsets (X,Y) [2:0-0-0,0-1-0], [2:0-2-9,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 0.21 BC 0.21 WB 0.00 Matrix-AS	DEFL. in (loc) l/defl L/d Vert(LL) 0.04 4-9 >999 240 Vert(CT) -0.03 4-9 >999 240 Horz(CT) -0.01 2 n/a n/a	PLATES GRIP MT20 244/190 Weight: 20 lb FT = 20%			

TOP CHORD

BOT CHORD

LUMBER-

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x4 SP No.2

 WEDGE
 Left: 2x4 SP No.3

REACTIONS. (lb/size) 2=283/0-3-0, 4=158/0-1-8 Max Horz 2=67(LC 8) Max Uplift 2=-154(LC 8), 4=-90(LC 8)

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

NOTES- (

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed ; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 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.
- All bearings are assumed to be User Defined crushing capacity of 425 psi.
- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=154.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



818 Soundside Road Edenton, NC 27932

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.



REACTIONS. (Ib/size) 4=148/4-0-0, 2=213/4-0-0 Max Horz 2=55(LC 9) Max Uplift 4=-41(LC 12), 2=-82(LC 8)

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

NOTES- (9)

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.







0.00

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

6

except

n/a

2-0-0 oc purlins: 3-4.

n/a

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

Structural wood sheathing directly applied or 4-6-11 oc purlins,

Weight: 13 lb

FT = 20%

BCLL

BCDL

LUMBER-

BOT CHORD

REACTIONS.

0.0

10.0

TOP CHORD 2x4 SP No.2

2x4 SP No.2

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

Max Grav 1=20(LC 9), 2=175(LC 1), 5=175(LC 1)

NOTES- (13)

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

Rep Stress Incr

Code IRC2015/TPI2014

- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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.

WΒ

Matrix-R

0.00

4) Provide adequate drainage to prevent water ponding.

Max Horz 1=-32(LC 10)

- 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.

YES

(lb/size) 1=-11/4-6-11, 6=-11/4-6-11, 2=175/4-6-11, 5=175/4-6-11

Max Uplift 1=-32(LC 10), 6=-25(LC 3), 2=-37(LC 12), 5=-23(LC 13)

- 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 2, 5.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.







TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. All bearings 4-6-11.

(lb) - Max Horz 1=43(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 4 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4

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

NOTES- (11)

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

2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 4.

 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Structural wood sheathing directly applied or 4-6-11 oc purlins.

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





TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. All bearings 4-6-11.

(lb) - Max Horz 1=43(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 4 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4

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

NOTES- (11)

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

2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 4.

 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Structural wood sheathing directly applied or 4-6-11 oc purlins.

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





10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.







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) All bearings are assumed to be User Defined crushing capacity of 565 psi.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 4.

 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.







- 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 4.

 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.





