

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: FPC_8_Unit_Roof
FPC 8 Unit Bldg Roof

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carter Lumber.

Pages or sheets covered by this seal: E13144331 thru E13144368

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844



June 10, 2019

Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144331
FPC_8_Unit_Roof	A01	GABLE	2	1		

Carter Lumber Company, Spartanburg, SC - 29301,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:58:38 2019 Page 1

ID:vEQ8yXJsehX_YGARPbjvWvzB?VO-HHF2hDCFg1Nw7DCVxToH5hAoSf68Z5E?mOGu4z7IC?

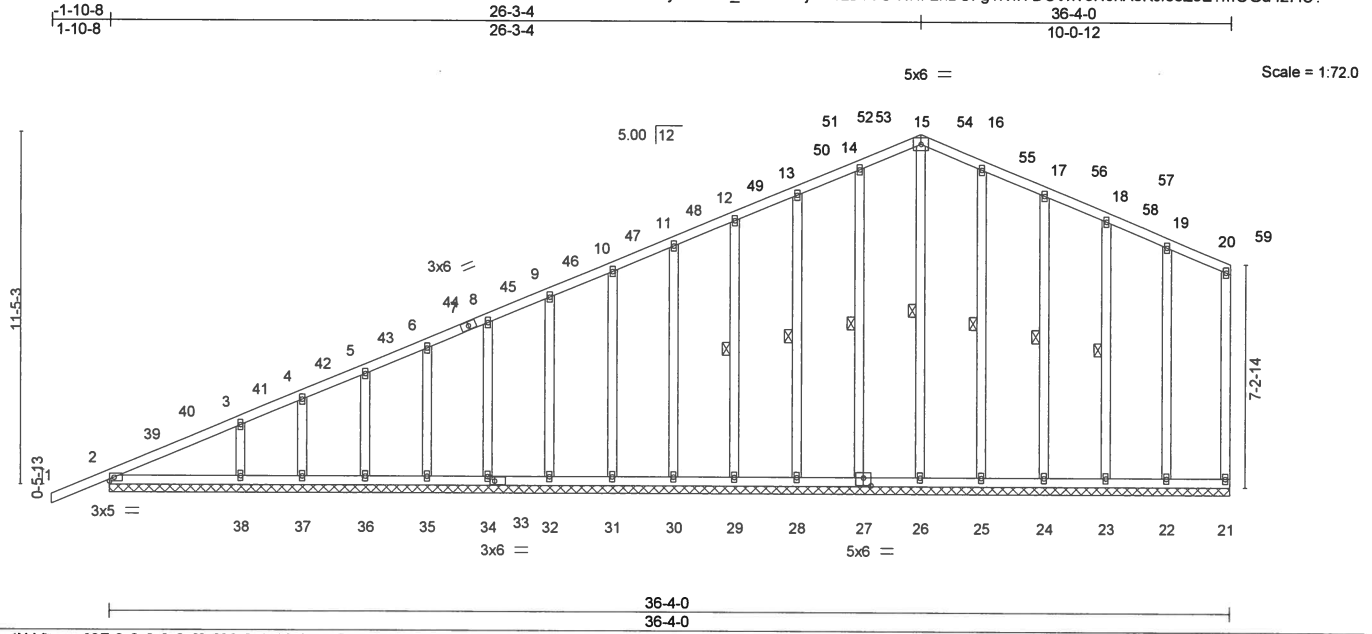


Plate Offsets (X, Y)-- [27:0-3-0,0-3-0], [33:0-1-12,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.47	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.17	Vert(LL) -0.00 1 n/r 120		
TCDL 15.0	Lumber DOL 1.15	WB 0.33	Vert(CT) -0.00 1 n/r 120		
BCLL 0.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.01 21 n/a n/a		
BCDL 15.0	Code IBC2015/TPI2014			Weight: 291 lb	FT = 20%

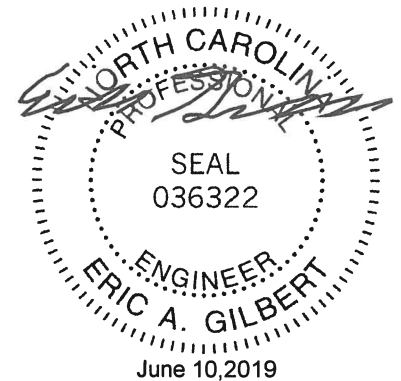
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2 *Except*
6-35,5-36,4-37,3-38: 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 15-26, 14-27, 13-28, 12-29, 16-25, 17-24, 18-23

REACTIONS. All bearings 36-4-0.
(lb) - Max Horz 2=367(LC 15)
Max Uplift All uplift 100 lb or less at joint(s) 21, 2, 27, 28, 29, 30, 31, 32, 34, 35, 36, 37, 38, 25, 24, 23, 22
Max Grav All reactions 250 lb or less at joint(s) except 21=304(LC 53), 2=438(LC 54), 26=353(LC 66), 27=360(LC 65), 28=360(LC 64), 29=358(LC 63), 30=361(LC 62), 31=362(LC 61), 32=364(LC 60), 34=367(LC 59), 35=364(LC 58), 36=382(LC 57), 37=322(LC 56), 38=494(LC 55), 25=362(LC 67), 24=357(LC 68), 23=357(LC 69), 22=372(LC 70)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=393/222, 3-4=301/167, 4-5=268/165, 12-13=170/291, 13-14=185/337, 14-15=197/374, 15-16=197/364, 16-17=183/297, 20-21=281/134
WEBS 15-26=-296/47, 14-27=-300/157, 13-28=-296/114, 12-29=-299/89, 11-30=-300/90, 10-31=-302/90, 9-32=-304/89, 8-34=-306/90, 6-35=-306/88, 5-36=-314/96, 4-37=-291/66, 3-38=-370/175, 16-25=-301/149, 17-24=-297/116, 18-23=-298/115, 19-22=-307/199

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=36ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) -1-10-8 to 1-9-2, Exterior(2) 1-9-2 to 26-3-4, Corner(3) 26-3-4 to 29-10-14, Exterior(2) 29-10-14 to 36-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.6 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



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 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.

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144331
FPC_8_Unit_Roof	A01	GABLE	2	1	Job Reference (optional)	

Carter Lumber Company, Spartanburg, SC - 29301,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:58:39 2019 Page 2
 ID:vEQ8yXJsehX_YGARPbjvWvzB7VO-ITpRvZDIrLVnkNnhVBJWdujz4F_Lt0LNEQ8pQXz7IC_

NOTES-

- 11) * 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 2, 27, 28, 29, 30, 31, 32, 34, 35, 36, 37, 38, 25, 24, 23, 22.
- 13) This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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.

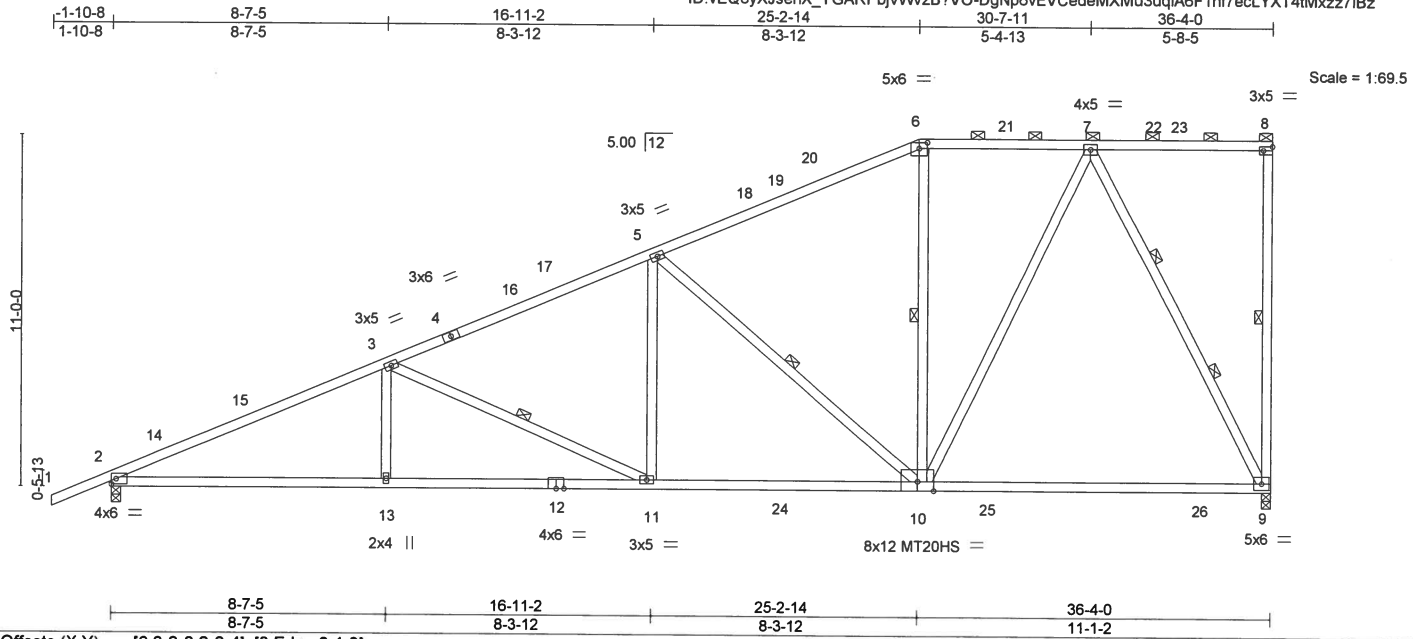


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144332
FPC_8_Unit_Roof	A02	Piggyback Base	41	1		

Carter Lumber Company, Spartanburg, SC - 29301,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:58:40 2019 Page 1
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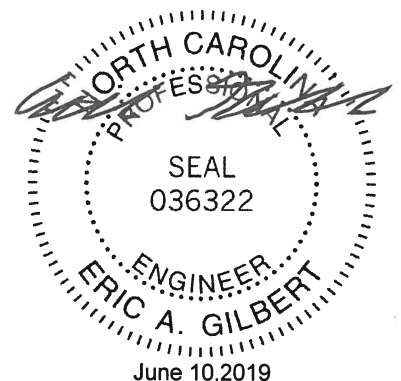
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.92	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 16.5/15.0	Plate Grip DOL 1.15	BC 1.00	Vert(LL) -0.53 9-10 >817 360	MT20HS	187/143
TCDL 15.0	Lumber DOL 1.15	WB 0.84	Vert(CT) -1.01 9-10 >427 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.11 9 n/a n/a		
BCDL 15.0	Code IBC2015/TPI2014		Wind(LL) 0.12 9-10 >999 240	Weight: 225 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E *Except* 6-8: 2x4 SP No.2	TOP CHORD Sheathed or 2-4-4 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-5 max.): 6-8.
BOT CHORD 2x4 SP 2400F 2.0E *Except* 2-12: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 7-3-8 oc bracing.
WEBS 2x4 SP No.2 *Except* 8-9: 2x4 SP No.1, 3-13: 2x4 SP No.3	WEBS 1 Row at midpt 8-9, 3-11, 5-10, 6-10 2 Rows at 1/3 pts 7-9

REACTIONS. (lb/size) 9=1587/0-3-8, 2=1624/0-3-8
 Max Horz 2=457(LC 13)
 Max Uplift 9=301(LC 16), 2=358(LC 16)
 Max Grav 9=1900(LC 28), 2=1948(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3651/517, 3-5=-2606/446, 5-6=-1581/345, 6-7=-1361/363, 8-9=-333/92
 BOT CHORD 2-13=-736/3267, 11-13=-736/3267, 10-11=-590/2397, 9-10=-288/860
 WEBS 3-13=0/467, 3-11=-1025/224, 5-11=0/711, 5-10=-1321/316, 6-10=-35/261,
 7-10=-207/1326, 7-9=-1719/416

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=35ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-10-8 to 1-9-2, Interior(1) 1-9-2 to 25-2-14, Exterior(2) 25-2-14 to 30-7-11, Interior(1) 30-7-11 to 36-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) All plates are MT20 plates unless otherwise indicated.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 15.0psf.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=301, 2=358.
 - 10) This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144333
FPC_8_Unit_Roof	A03	Piggyback Base	10	1		

Carter Lumber Company, Spartanburg, SC - 29301,

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Job Reference (optional)

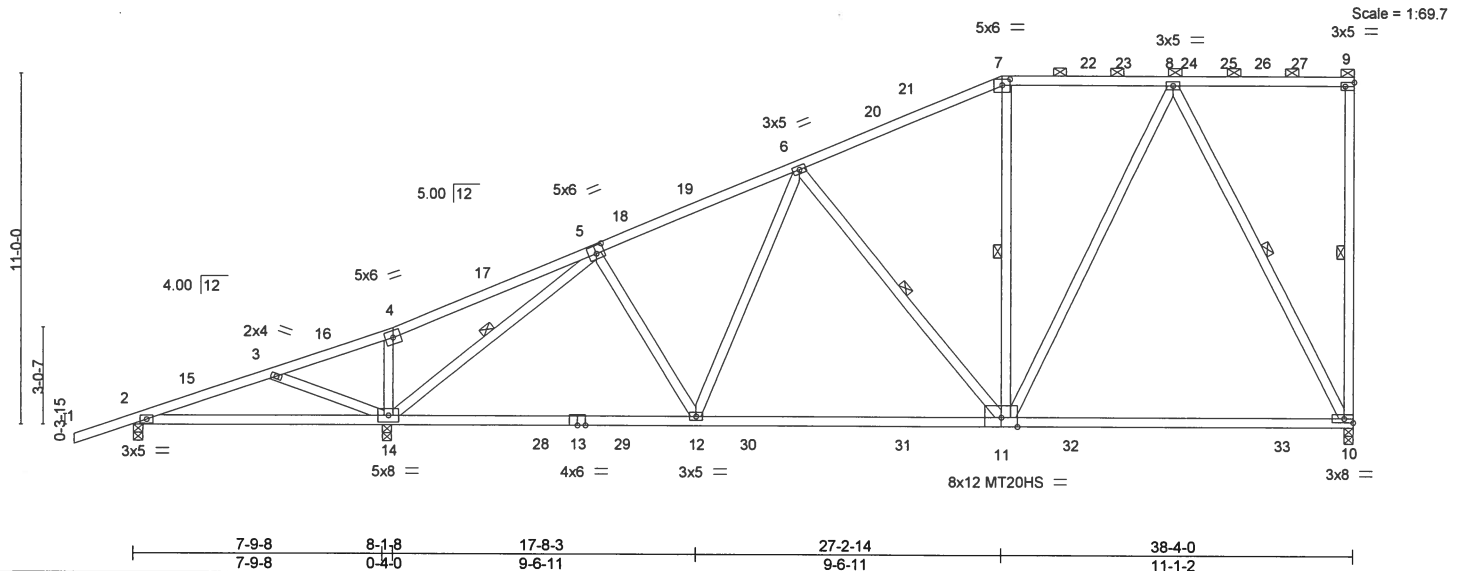
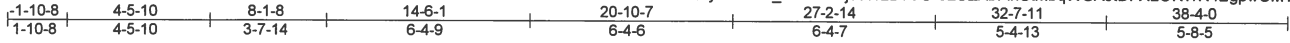


Plate Offsets (X, Y)--	[5:0-3-0,0-3-0], [7:0-3-0,0-2-4], [9:Edge,0-1-8]
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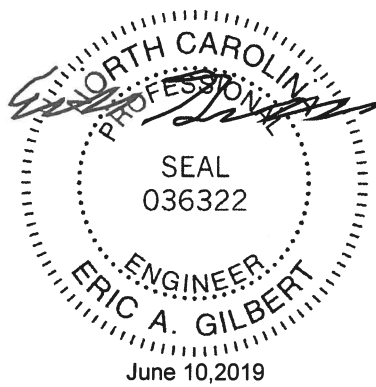
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.50 10-11	>728	360	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.94 10-11	>386	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.04 10	n/a	n/a		
BCLL	0.0	Code IBC2015/TPI2014		Matrix-S		Wind(LL)	0.11 10-11	>999	240		
BCDL	15.0									Weight: 244 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except* 5-7: 2x4 SP No.1	TOP CHORD	Sheathed or 4-4-9 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-0 max.): 7-9.
BOT CHORD	2x4 SP 2400F 2.0E *Except* 2-13: 2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 9-0-13 oc bracing.
WEBS	2x4 SP No.2 *Except* 9-10: 2x4 SP No.1, 3-14,4-14: 2x4 SP No.3	WEBS	1 Row at midpt 9-10, 5-14, 6-11, 7-11, 8-10

REACTIONS. (lb/size) 10=1320/0-3-8, 2=352/0-3-8, 14=1705/0-3-8
 Max Horz 2=457(LC 13)
 Max Uplift 10=250(LC 16), 2=-123(LC 16), 14=-316(LC 16)
 Max Grav 10=1620(LC 28), 2=493(LC 63), 14=2066(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-333/78, 3-4=-298/341, 4-5=-235/324, 5-6=-1711/314, 6-7=-1277/298,
 7-8=-1093/309, 9-10=-332/92
 BOT CHORD 2-14=-370/349, 12-14=-465/1482, 11-12=-433/1509, 10-11=-259/720
 WEBS 3-14=-559/149, 4-14=-405/163, 5-14=-2079/335, 5-12=0/280, 6-12=0/289,
 6-11=-660/213, 8-11=-136/1023, 8-10=-1411/356

- NOTES-**
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=35ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-10-8 to 1-11-8, Interior(1) 1-11-8 to 27-2-14, Exterior(2) 27-2-14 to 31-0-14, Interior(1) 31-0-14 to 38-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TC LL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members, with BCDL = 15.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=250, 2=123, 14=316.
 - This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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TRENCO ENGINEERING BY
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144334
FPC_8_Unit_Roof	A04	Piggyback Base	4	1		

Carter Lumber Company, Spartanburg, SC - 29301,

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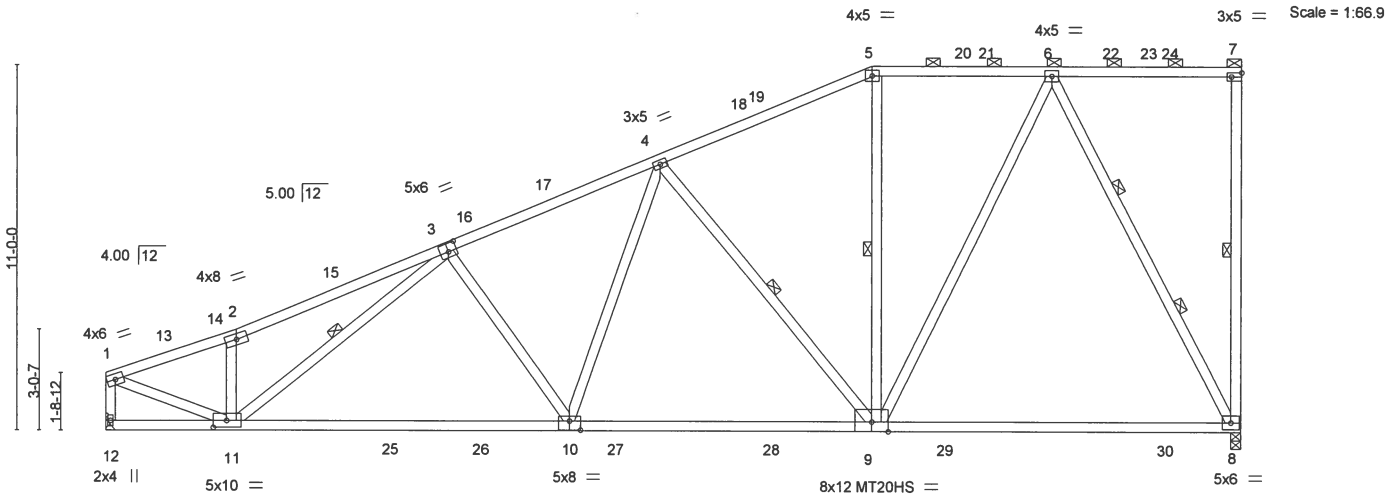
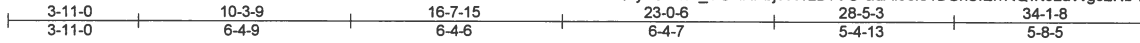


Plate Offsets (X,Y) - [3:0-3-0,0-3-0], [7:Edge,0-1-8], [10:0-4-0,0-3-4], [11:0-4-12,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.92	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 16.5/15.0	Plate Grip DOL 1.15	BC 0.86	Vert(LL) -0.51 8-9 >795	MT20HS	187/143
TCDL 15.0	Lumber DOL 1.15	WB 0.95	Vert(CT) -0.98 8-9 >414		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.06 8 n/a n/a		
BCDL 15.0	Code IBC2015/TPI2014		Wind(LL) 0.12 8-9 >999		
				Weight: 229 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
2-3,3-5: 2x4 SP No.1
BOT CHORD 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
7-8: 2x4 SP No.1, 2-11,1-12,1-11: 2x4 SP No.3

BRACING-

TOP CHORD Sheathed or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-5-11 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-8, 3-11, 4-9, 5-9
2 Rows at 1/3 pts 6-8

REACTIONS.

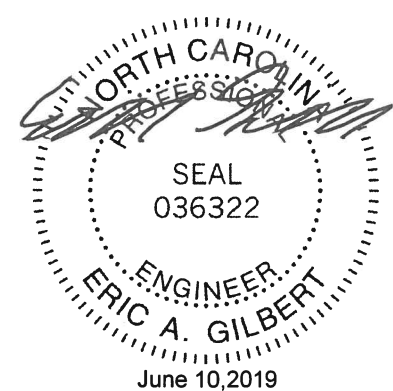
(lb/size) 8=1498/0-3-8, 12=1423/Mechanical
Max Horz 12=442(LC 13)
Max Uplift 8=287(LC 16), 12=245(LC 16)
Max Grav 8=1829(LC 27), 12=1700(LC 27)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2343/318, 2-3=-2470/427, 3-4=-2383/427, 4-5=-1482/338, 5-6=-1286/347, 7-8=-332/93, 1-12=-1712/239
BOT CHORD 11-12=-576/441, 10-11=-622/2417, 9-10=-503/1971, 8-9=-278/828
WEBS 2-11=-545/196, 3-11=-266/234, 3-10=-411/216, 4-10=-66/746, 4-9=-1029/276, 5-9=-36/253, 6-9=-171/1238, 6-8=-1644/390, 1-11=-252/2316

NOTES-

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 4-4-4 to 7-9-3, Interior(1) 7-9-3 to 27-2-14, Exterior(2) 27-2-14 to 30-7-13, Interior(1) 30-7-13 to 38-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 will fit between the bottom chord and any other members, with BCDL = 15.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j=lb) 8=287, 12=245.
- This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 ANSIT/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144335
FPC_8_Unit_Roof	A05	Piggyback Base	12	1		

Carter Lumber Company, Spartanburg, SC - 29301,

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ID: vEQ8yXJsehX_YGARPljvWzB?VO-2qk4NjJGoUOo4Sp1P9x9QNV5t4CE04yPr0Kh9dz7lBt

Job Reference (optional)

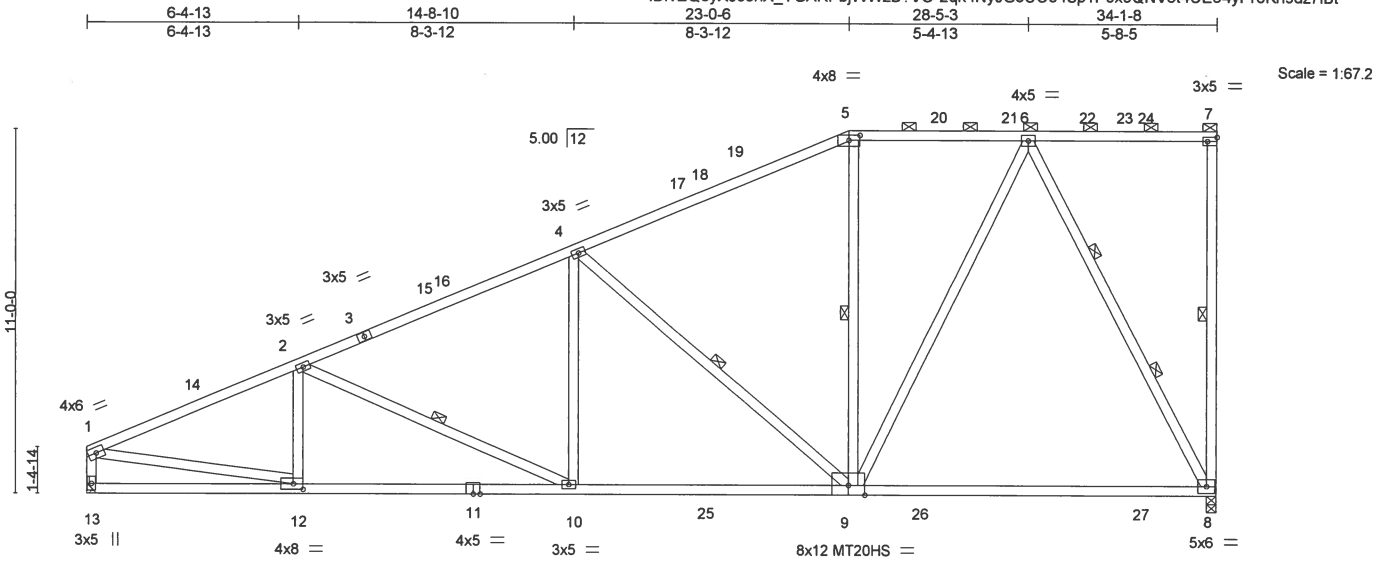


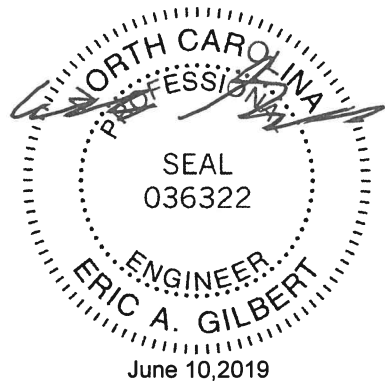
Plate Offsets (X,Y)-- [5:0-4-0,0-1-13], [7:Edge,0-1-8], [12:0-3-8,0-2-0]					
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.82	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 16.5/15.0	Plate Grip DOL 1.15	BC 0.86	Vert(LL) -0.53 8-9 >769 360	MT20HS	187/143
TCDL 15.0	Lumber DOL 1.15	WB 0.78	Vert(CT) -1.00 8-9 >406 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.06 8 n/a n/a		
BCDL 15.0	Code IBC2015/TPI2014		Wind(LL) 0.12 8-9 >999 240		
				Weight: 225 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E *Except* 5-7: 2x4 SP No.2, 1-3: 2x4 SP No.1	TOP CHORD Sheathed or 3-1-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-8 max.): 5-7.
BOT CHORD 2x4 SP 2400F 2.0E *Except* 11-13: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 7-7-1 oc bracing.
WEBS 2x4 SP No.2 *Except* 7-8: 2x4 SP No.1, 2-12,1-13: 2x4 SP No.3	WEBS 1 Row at midpt 7-8, 2-10, 4-9, 5-9 2 Rows at 1/3 pts 6-8

REACTIONS. (lb/size) 8=1498/0-3-8, 13=1423/Mechanical
 Max Horz 13=443(LC 13)
 Max Uplift 8=-287(LC 16), 13=-245(LC 16)
 Max Grav 8=1793(LC 27), 13=1692(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2675/408, 2-4=-2300/406, 4-5=-1474/330, 5-6=-1251/349, 7-8=-333/93,
 1-13=-1608/273
 BOT CHORD 12-13=-595/532, 10-12=-677/2448, 9-10=-570/2123, 8-9=-285/808
 WEBS 2-10=-495/142, 4-10=0/524, 4-9=-1118/289, 6-9=-196/1212, 6-8=-1599/406,
 1-12=-275/2285

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 2-4-4 to 5-9-3, Interior(1) 5-9-3 to 25-2-14, Exterior(2) 25-2-14 to 30-0-13, Interior(1) 30-0-13 to 36-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 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 = 15.0psf.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=287, 13=245.
 - 10) This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144336
FPC_8_Unit_Roof	A05A	PIGGYBACK BASE	2	1		

Carter Lumber Company, Spartanburg, SC - 29301,

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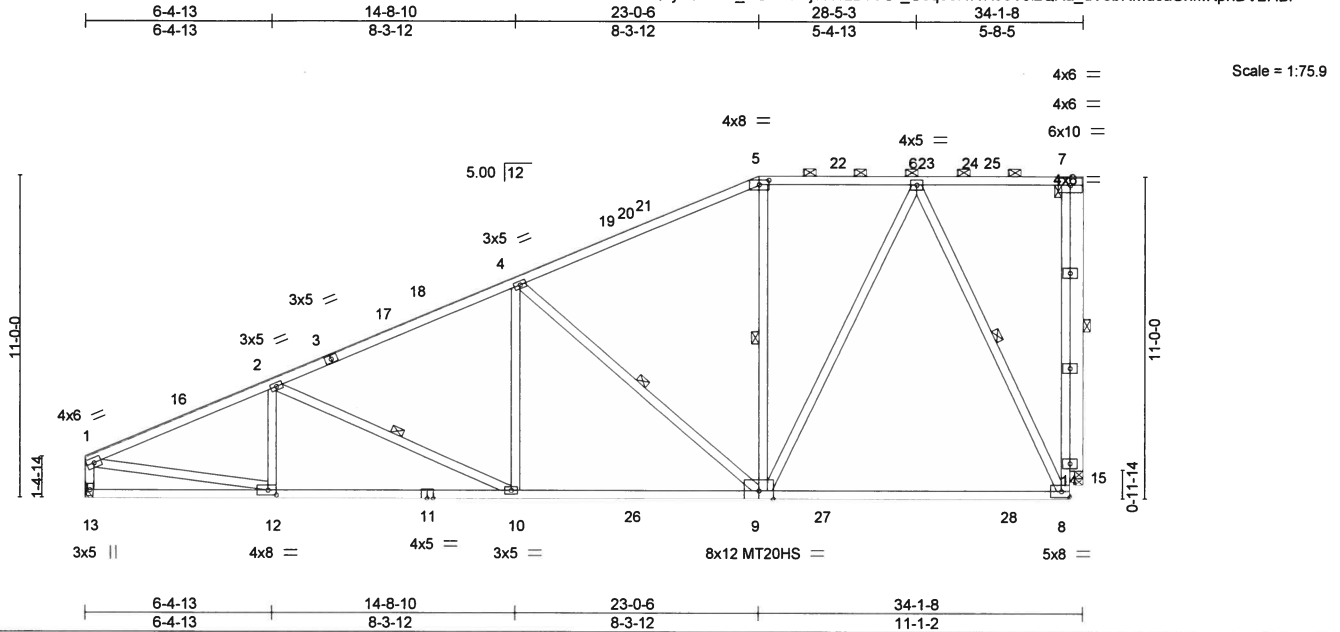


Plate Offsets (X,Y)-- [5:0-4-0,0-1-13], [12:0-3-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.82	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 16.5/15.0	Plate Grip DOL 1.15	BC 1.00	Vert(LL) -0.43 8-9 >939 360	MT20HS	187/143
TCDL 15.0	Lumber DOL 1.15	WB 0.96	Vert(CT) -0.83 8-9 >488 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.04 15 n/a n/a		
BCDL 15.0	Code IBC2015/TPI2014		Wind(LL) 0.09 10-12 >999 240		
				Weight: 247 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E *Except*
 5-7: 2x4 SP No.2, 1-3: 2x4 SP No.1
 BOT CHORD 2x4 SP 2400F 2.0E *Except*
 11-13: 2x4 SP No.2
 WEBS 2x4 SP No.2 *Except*
 2-12,1-13: 2x4 SP No.3
 OTHERS 2x6 SP No.2

BRACING-

TOP CHORD Sheathed or 3-0-14 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-4 max.): 5-7.
 BOT CHORD Rigid ceiling directly applied or 7-5-5 oc bracing.
 WEBS 1 Row at midpt 2-10, 4-9, 5-9, 6-8, 7-15

REACTIONS.

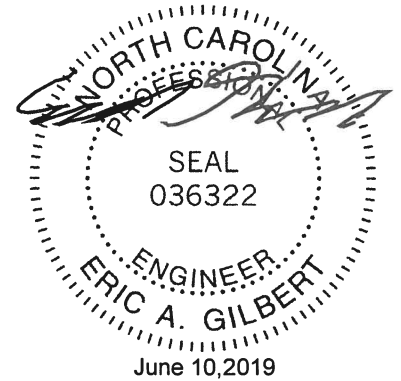
(lb/size) 13=1423/Mechanical, 15=1455/0-3-8
 Max Horz 13=379(LC 16)
 Max Uplift 13=200(LC 16), 15=325(LC 16)
 Max Grav 13=1691(LC 2), 15=1732(LC 28)

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

TOP CHORD 1-2=-2674/321, 2-4=-2320/304, 4-5=-1478/221, 5-6=-1268/248, 8-14=-265/1590,
 7-14=-265/1590, 1-13=-1608/228
 BOT CHORD 12-13=-405/277, 10-12=-617/2401, 9-10=-474/2075, 8-9=-165/747
 WEBS 2-10=-493/157, 4-10=0/534, 4-9=-1125/299, 6-9=-185/1188, 6-8=-1509/354,
 1-12=-216/2286, 7-15=-1734/326

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 2-4-4 to 5-9-3, Interior(1) 5-9-3 to 25-2-14, Exterior(2) 25-2-14 to 30-0-13, Interior(1) 30-0-13 to 35-8-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Unbalanced snow loads have been considered for this design.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 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 = 15.0psf.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=200, 15=325.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.



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.

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TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144336
FPC_8_Unit_Roof	A05A	PIGGYBACK BASE	2	1		
						Job Reference (optional)

Carter Lumber Company, Spartanburg, SC - 29301,

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 ID:vEQByXJsehX_YGARPbjvWvzB?VO-_CsqoeKWK6eVJzQXa_dVobRMusaUxfilKpnDVz7lBr

NOTES-

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

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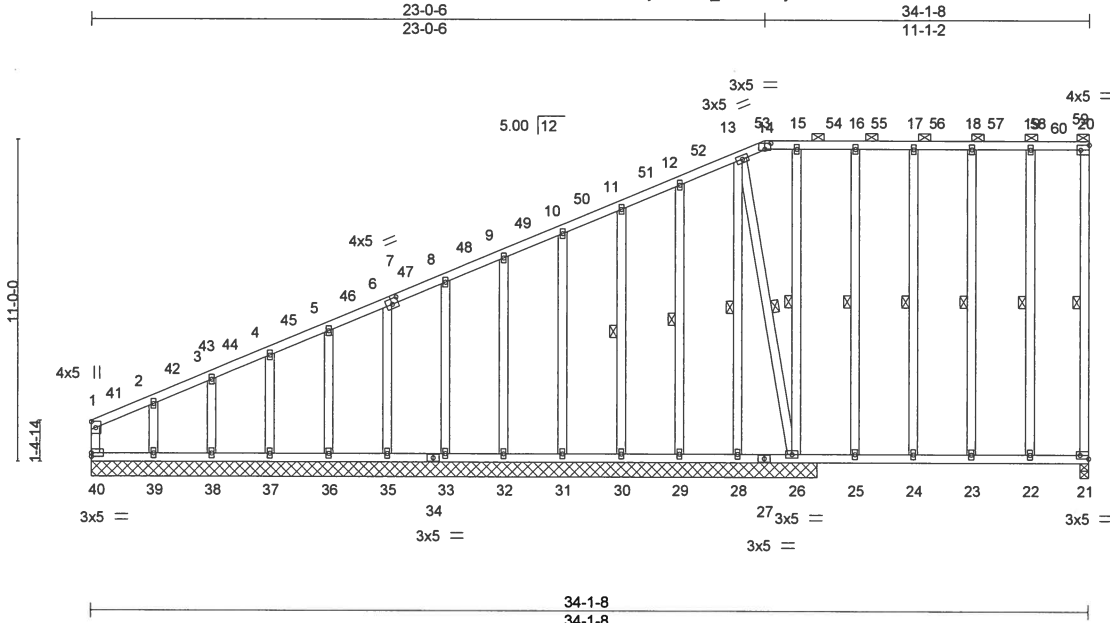
ENGINEERING BY
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 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144337
FPC_8_Unit_Roof	A06	GABLE COMMON	1	1	Job Reference (optional)	

Carter Lumber Company, Spartanburg, SC - 29301,

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 ID:vEQ8yXJsehX_YGARpbjvWvzB?VO-tz5Ld0N1NK8xoNGBmQ2Zfel7uVJqQvDIDyn?MGz7IBn



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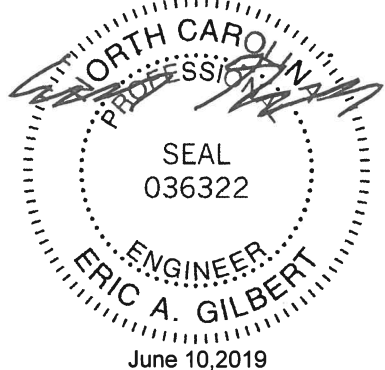
Plate Offsets (X,Y)-- [6:0-1-14,0-0-0], [7:0-2-8,0-2-4], [7:0-0-0,0-1-12], [14:0-2-8,0-2-7], [20:Edge,0-2-0], [21:Edge,0-1-8]					
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.78	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 16.5/15.0	Plate Grip DOL 1.15	BC 0.59	Vert(LL) -0.23 23-24 >518 360		
TCDL 15.0	Lumber DOL 1.15	WB 0.35	Vert(CT) -0.49 23-24 >243 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.01 21 n/a n/a		
BCDL 15.0	Code IBC2015/TPI2014		Wind(LL) 0.19 23-24 >611 240		
				Weight: 311 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E	TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 14-20.
BOT CHORD 2x4 SP No.1 *Except* 21-27: 2x4 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 25-26,24-25,23-24,22-23,21-22.
WEBS 2x4 SP No.2 *Except* 1-40: 2x4 SP No.3	WEBS 1 Row at midpt 20-21, 19-22, 18-23, 17-24, 16-25, 15-26, 13-28, 12-29, 11-30, 13-26
OTHERS 2x4 SP No.2 *Except* 5-36,4-37,3-38,2-39: 2x4 SP No.3	

REACTIONS. All bearings 24-10-0 except (jt=length) 21=0-3-8.
 (lb) - Max Horz 40=443(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 21, 40, 29, 30, 31, 32, 33, 35, 36,
 37 except 26=567(LC 13), 28=486(LC 32), 39=257(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 21=515(LC 69), 40=309(LC
 50), 26=1228(LC 32), 28=408(LC 13), 29=441(LC 79), 30=332(LC 78), 31=358(LC
 77), 32=355(LC 76), 33=358(LC 75), 35=361(LC 74), 36=362(LC 73), 37=366(LC
 72), 38=365(LC 71), 39=386(LC 70)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=433/276, 2-3=333/215, 3-4=317/210, 4-5=284/193, 5-6=253/178,
 20-21=382/177, 1-40=-285/138
 WEBS 15-26=655/147, 13-28=-399/310, 12-29=-324/61, 11-30=-288/89, 10-31=-294/68,
 9-32=-296/69, 8-33=-298/69, 6-35=-301/70, 5-36=-302/68, 4-37=-305/74, 3-38=-307/50,
 2-39=-319/236, 13-26=-245/500

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 3-6-11, Interior(1) 3-6-11 to 23-0-6, Exterior(2) 23-0-6 to 28-1-8, Interior(1) 28-1-8 to 33-11-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144337
FPC_8_Unit_Roof	A06	GABLE COMMON	1	1	Job Reference (optional)	

Carter Lumber Company, Spartanburg, SC - 29301,

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NOTES-

- 11) * 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 40, 29, 30, 31, 32, 33, 35, 36, 37 except (jt=lb) 26=567, 28=486, 39=257.
- 13) This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144338
FPC_8_Unit_Roof	A07	GABLE	2	1		

Carter Lumber Company, Spartanburg, SC - 29301,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:58:54 2019 Page 1

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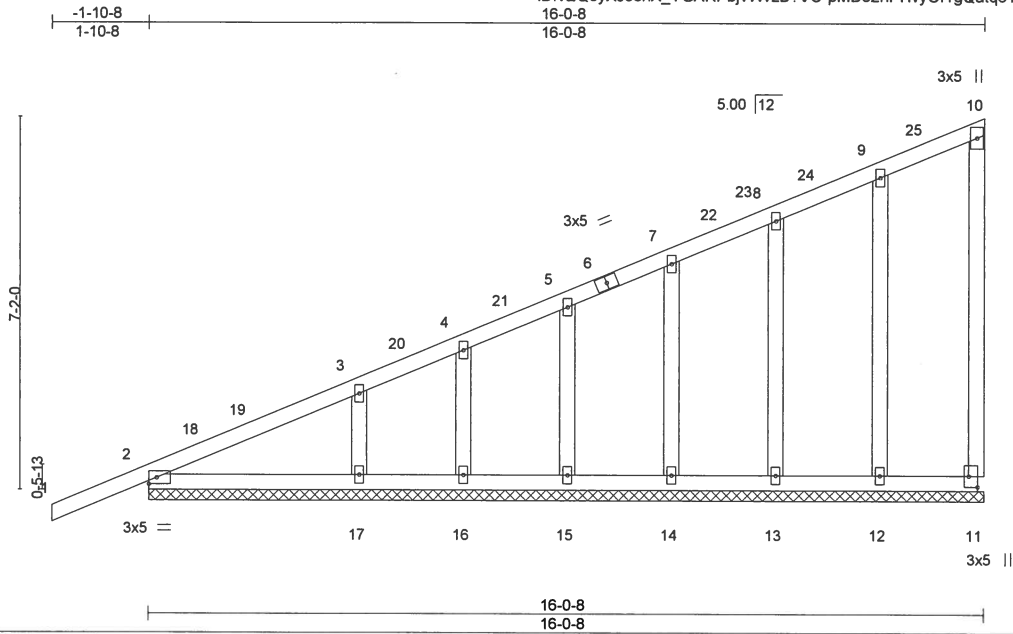


Plate Offsets (X,Y)-- [11:Edge,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.44	in (loc) l/def L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.18	Vert(LL) -0.00 1 n/r 120		
TCDL 15.0	Lumber DOL 1.15	WB 0.19	Vert(CT) -0.01 1 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 11 n/a n/a		
BCDL 15.0	Code IBC2015/TPI2014			Weight: 96 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2
 OTHERS 2x4 SP No.3 *Except*
 9-12: 2x4 SP No.2

BRACING-

TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

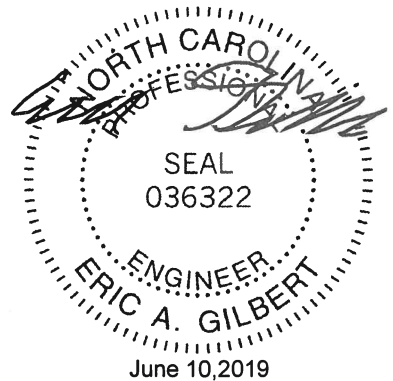
All bearings 16-0-8.
 (lb) - Max Horz 2=294(LC 15)
 Max Uplift All uplift 100 lb or less at joint(s) 11, 2, 12, 13, 14, 15, 16, 17
 Max Grav All reactions 250 lb or less at joint(s) except 11=302(LC 39), 2=433(LC 40), 12=372(LC 46),
 13=365(LC 45), 14=365(LC 44), 15=380(LC 43), 16=331(LC 42), 17=478(LC 41)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-451/252, 3-4=-361/201, 4-5=-326/197, 5-7=-279/179, 10-11=-279/62
 WEBS 9-12=-309/200, 8-13=-305/106, 7-14=-306/90, 5-15=-314/98, 4-16=-295/79,
 3-17=-362/172

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) -1-10-8 to 1-1-8, Exterior(2) 1-1-8 to 15-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.6 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 2, 12, 13, 14, 15, 16, 17.
- 12) This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI1-7473 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.

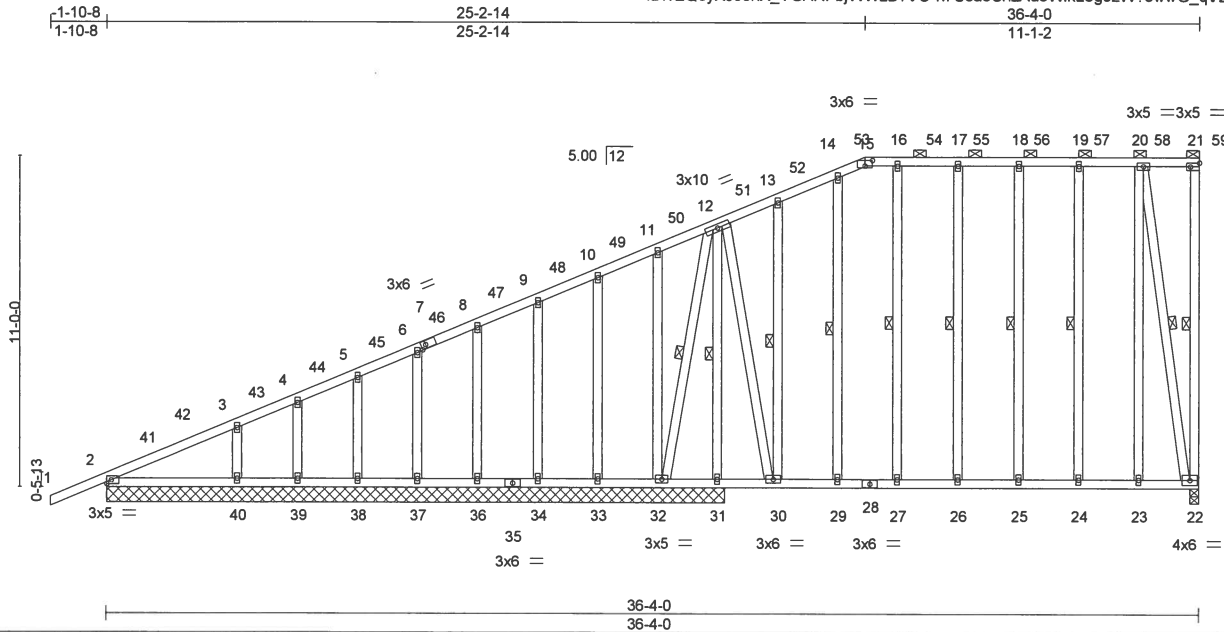
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144339
FPC_8_Unit_Roof	A08	GABLE I I	2	1		

Carter Lumber Company, Spartanburg, SC - 29301,

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ID:vEQ8yXJsehX_YGARpbjvWzB7VO-h7Scu3SznAu5Wkl6g9zvv75wwG_qVzActEJawz7Ibh



Scale = 1:73.8

Plate Offsets (X,Y)-- [7:0-1-13,0-1-8], [15:0-3-0,0-2-4], [21:Edge,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 1.00	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 16.5/15.0	Plate Grip DOL 1.15	BC 0.99	Vert(LL) -0.35 26 >548		
TCDL 15.0	Lumber DOL 1.15	WB 0.78	Vert(CT) -0.79 26 >242		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.01 22 n/a		
BCDL 15.0	Code IBC2015/TPI2014		Wind(LL) 0.33 26 >569		
				Weight: 345 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
15-21: 2x4 SP No.1
BOT CHORD 2x4 SP No.1 *Except*
2-35: 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2 *Except*
6-37,5-38,4-39,3-40: 2x4 SP No.3

BRACING-

TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 15-21.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 21-22, 19-24, 18-25, 17-26, 16-27, 14-29, 13-30, 12-31, 12-32, 20-22

REACTIONS.

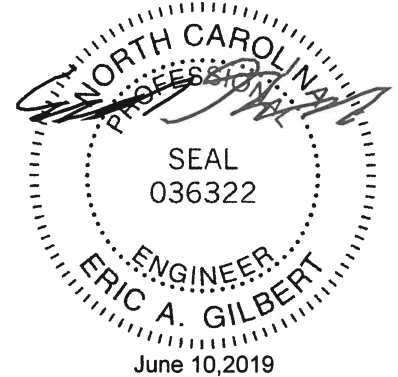
All bearings 20-7-0 except (jt=length) 22=0-3-8.
(lb) - Max Horz 2=457(LC 15)
Max Uplift All uplift 100 lb or less at joint(s) 2, 32, 33, 34, 36, 37, 38, 39, 40 except 22=162(LC 13), 31=124(LC 16)
Max Grav All reactions 250 lb or less at joint(s) except 22=870(LC 33), 2=402(LC 70), 31=488(LC 60), 32=752(LC 2), 33=341(LC 77), 34=368(LC 76), 36=366(LC 75), 37=364(LC 74), 38=383(LC 73), 39=320(LC 72), 40=501(LC 71)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=555/460, 3-4=484/400, 4-5=460/399, 5-6=427/380, 6-8=397/366, 8-9=366/351, 9-10=334/335, 10-11=305/326, 11-12=269/287, 12-13=319/172, 13-14=431/214, 14-15=399/223, 15-16=332/217, 16-17=332/217, 17-18=332/217, 18-19=332/217, 19-20=332/217, 21-22=107/287
BOT CHORD 29-30=141/286, 27-29=141/286, 26-27=141/286, 25-26=141/286, 24-25=141/286, 23-24=141/286, 22-23=141/286
WEBS 20-23=200/643, 13-30=540/189, 12-31=689/302, 11-32=339/71, 10-33=290/68, 9-34=306/69, 8-36=306/69, 6-37=306/68, 5-38=315/73, 4-39=289/61, 3-40=376/124, 12-32=444/37, 20-22=1440/278, 12-30=300/1130

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 1-10-8 to 1-9-2, Interior(1) 1-9-2 to 25-2-14, Exterior(2) 25-2-14 to 30-4-0, Interior(1) 30-4-0 to 36-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144339
FPC_8_Unit_Roof	A08	GABLE I I	2	1	Job Reference (optional)	

Carter Lumber Company, Spartanburg, SC - 29301,

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 ID:vEQ8yXJsehX_YGARbjvWzB?VO-9K0_5PTQkU1x8SJXgOgCR6YGgJcDZyDKqX_t6Mz7lBg

NOTES-

- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 32, 33, 34, 36, 37, 38, 39, 40 except (jt=lb) 22=162, 31=124.
- 13) This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144340
FPC_8_Unit_Roof	A09	Piggyback Base	8	1		

Carter Lumber Company, Spartanburg, SC - 29301,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:00 2019 Page 1

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Job Reference (optional)

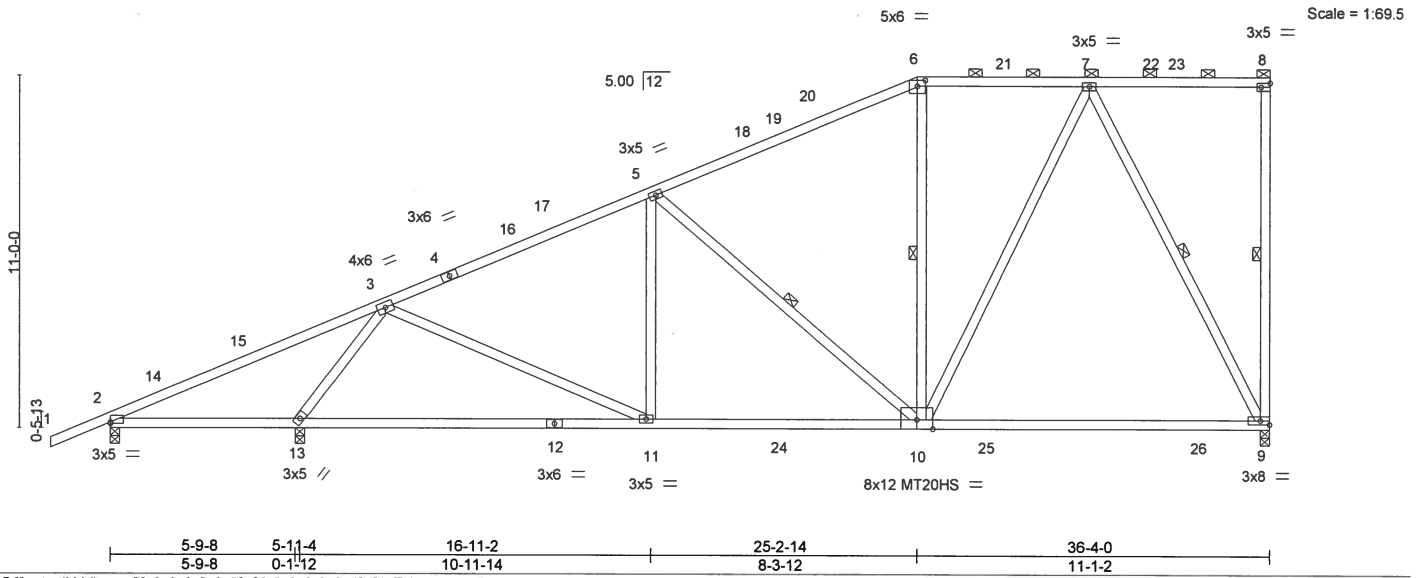
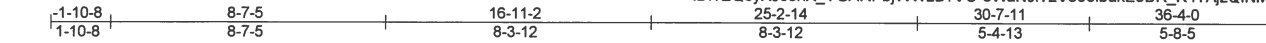


Plate Offsets (X,Y)-- [2:0-0-0,0-0-8], [6:0-3-0,0-2-4], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.89	0.53	9-10	>694	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.93	-1.00	9-10	>363	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	0.91	0.03	9	n/a		
BCLL	0.0	Code IBC2015/TPI2014		Matrix-S		0.11	9-10	>999		
BCDL	15.0								Weight: 226 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E *Except*
6-8: 2x4 SP No.2, 1-4: 2x4 SP No.1
BOT CHORD 2x4 SP 2400F 2.0E *Except*
2-12: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
8-9: 2x4 SP No.1, 3-13: 2x4 SP No.3

BRACING-

TOP CHORD Sheathed or 3-11-7 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-4 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 8-9, 5-10, 6-10, 7-9

REACTIONS.

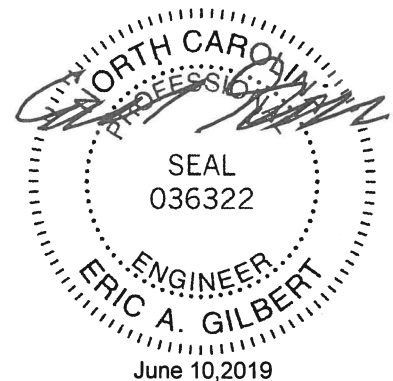
(lb/size) 9=1322/0-3-8, 2=207/0-3-8, 13=1683/0-3-8
Max Horz 2=457(LC 13)
Max Uplift 9=256(LC 16), 2=121(LC 16), 13=282(LC 16)
Max Grav 9=1588(LC 28), 2=377(LC 53), 13=1983(LC 2)

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

TOP CHORD 2-3=-411/568, 3-5=-1721/310, 5-6=-1275/305, 6-7=-1065/319, 8-9=-333/92
BOT CHORD 2-13=-459/106, 11-13=-456/915, 10-11=-468/1582, 9-10=-267/701
WEBS 3-11=-13/784, 5-10=-712/209, 7-10=-160/992, 7-9=-1365/370, 3-13=-2048/480

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-10-8 to 1-9-2, Interior(1) 1-9-2 to 25-2-14, Exterior(2) 25-2-14 to 30-7-11, Interior(1) 30-7-11 to 36-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 15.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 9=256, 2=121, 13=282.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-1473 rev. 10/03/2015 BEFORE USE.

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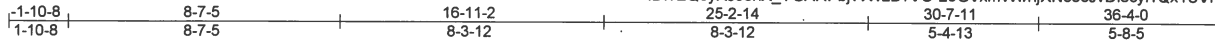
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144341
FPC_8_Unit_Roof	A10	GABLE	1	1		

Carter Lumber Company, Spartanburg, SC - 29301,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:03 2019 Page 1

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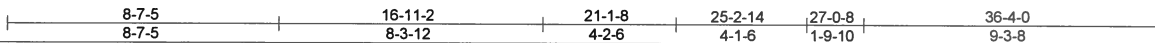
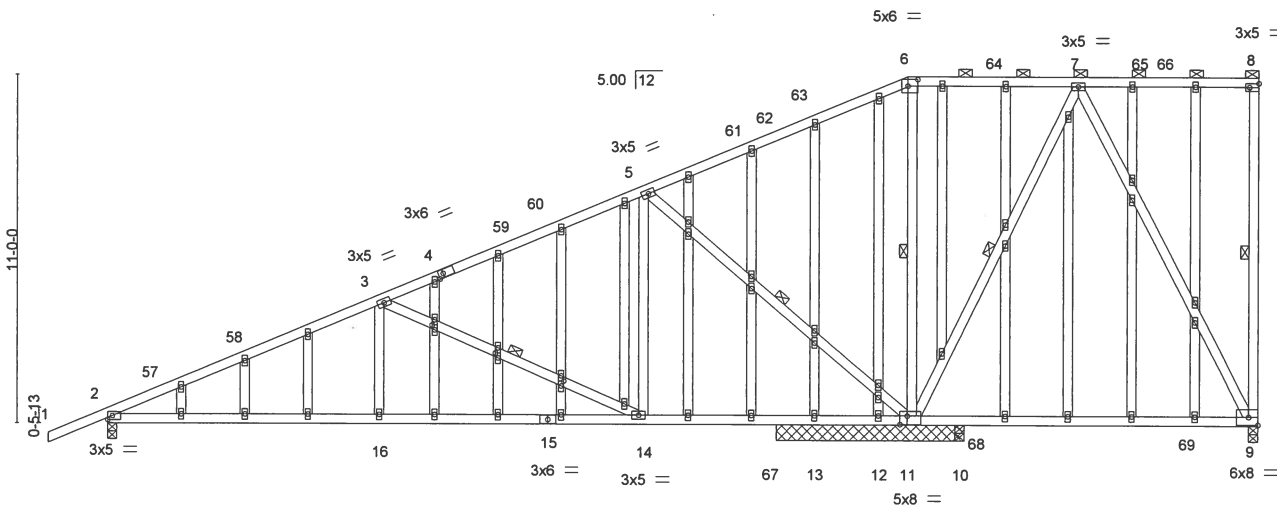


Plate Offsets (X,Y)-- [4:0-1-13,0-1-8], [6:0-3-12,0-2-8], [8:Edge,0-1-8], [11:0-2-12,0-3-4], [42:0-1-13,0-1-0], [45:0-1-13,0-1-0], [48:0-1-13,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc) l/defl L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.23 9-10 >475 360	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.44 9-10 >255 240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.04 11 n/a n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-S		Wind(LL)	-0.07 9-10 >999 240		
BCDL	15.0							Weight: 389 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E *Except*
6-8: 2x4 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
9-11: 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
8-9: 2x4 SP No.1, 3-16: 2x4 SP No.3
OTHERS 2x4 SP No.3 *Except*
17-19,21-22,23-24,26-27,28-29,30-31,32-33,38-39,40-41: 2x4 SP No.2

BRACING-

TOP CHORD Sheathed or 5-9-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 8-9, 3-14, 5-11, 6-11, 7-11

REACTIONS.

All bearings 0-3-8 except (jt=length) 11=5-11-0, 12=5-11-0, 13=5-11-0.
(lb) - Max Horz 2=457(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) except 9=322(LC 34), 2=221(LC 16), 11=619(LC 16)
Max Grav All reactions 250 lb or less at joint(s) 9, 12, 13 except 2=1092(LC 2), 11=2223(LC 2), 10=814(LC 23)

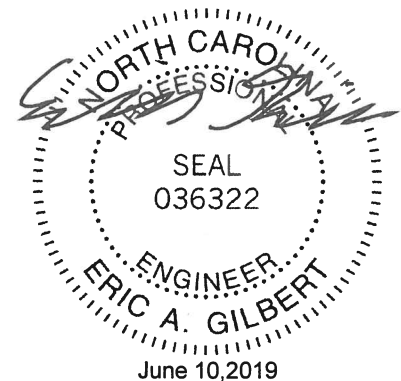
FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=1558/183, 3-5=585/146, 5-6=274/831, 6-7=161/688, 8-9=331/92
BOT CHORD 2-16=406/1325, 14-16=406/1325, 13-14=247/421, 12-13=247/421, 11-12=247/421, 10-11=373/185, 9-10=373/185
WEBS 3-16=0/473, 3-14=1106/235, 5-14=8/720, 5-11=1332/326, 6-11=714/292, 7-11=987/190, 7-9=42/596

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-10-8 to 1-9-2, Interior(1) 1-9-2 to 25-2-14, Exterior(2) 25-2-14 to 30-7-11, Interior(1) 30-7-11 to 36-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 10/03/2015 BEFORE USE.
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ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144341
FPC_8_Unit_Roof	A10	GABLE	1	1	Job Reference (optional)	

Carter Lumber Company, Spartanburg, SC - 29301,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:04 2019 Page 2

ID:vEQ8yXJsehX_YGARpbjvWzB?VO-WHpt96XY0fEEDBVtxGN8AFCAKMjEEt3_phenaz7IbB

NOTES-

- 10) * 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 = 15.0psf.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 322 lb uplift at joint 9, 221 lb uplift at joint 2 and 619 lb uplift at joint 11.
- 12) This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

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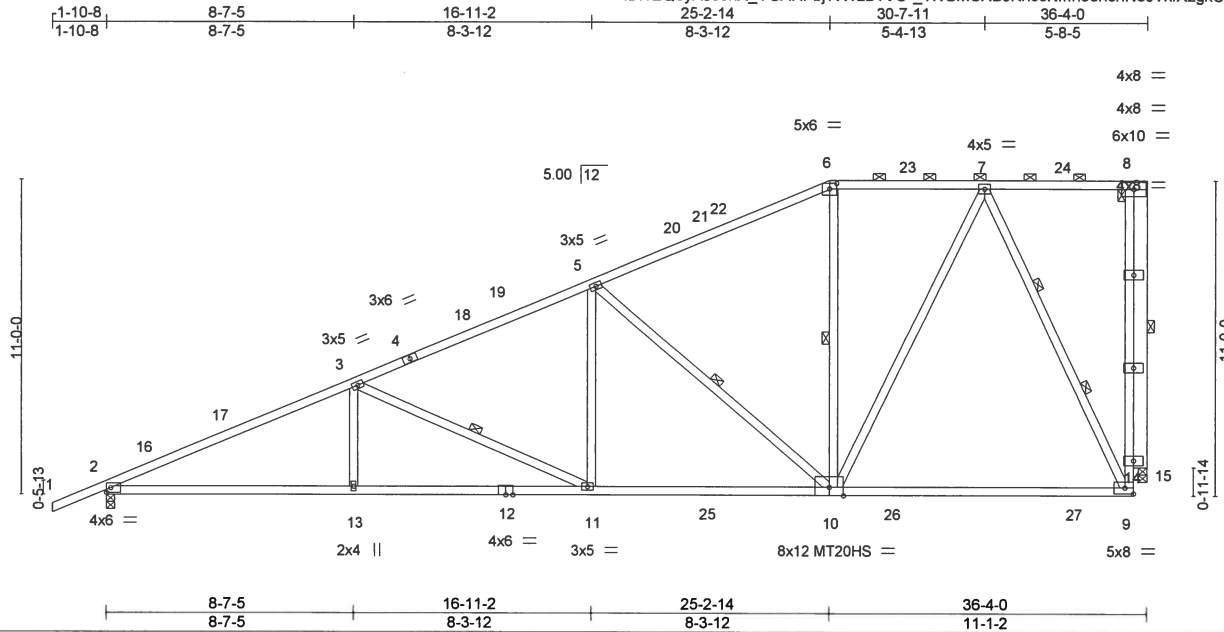
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144342
FPC_8_Unit_Roof	A11	Piggyback Base	2	1		

Carter Lumber Company, Spartanburg, SC - 29301,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:05 2019 Page 1

ID: vEQ8yXJsehX_YGARpbjvVwzB?VO-_TNGMSXBJKn5sNmh0enchNoJTkfXzggkCDTRBk0z7Iba



Scale = 1:77.5

Plate Offsets (X,Y)-- [6:0-3-0,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.92	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 16.5/15.0	Plate Grip DOL 1.15	BC 1.00	Vert(LL) -0.43 9-10 >996 360	MT20HS	187/143
TCDL 15.0	Lumber DOL 1.15	WB 0.78	Vert(CT) -0.84 9-10 >512 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.08 15 n/a n/a		
BCDL 15.0	Code IBC2015/TPI2014		Wind(LL) 0.13 11-13 >999 240	Weight: 246 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E *Except*
6-8: 2x4 SP No.2
BOT CHORD 2x4 SP 2400F 2.0E *Except*
2-12: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
3-13: 2x4 SP No.3
OTHERS 2x6 SP No.2

BRACING-

TOP CHORD Sheathed or 2-4-4 oc purlins, except end verticals, and 2-0-0 oc purlins (4-3-14 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 7-6-10 oc bracing.
WEBS 1 Row at midpt 3-11, 5-10, 6-10, 8-15
2 Rows at 1/3 pts 7-9

REACTIONS.

(lb/size) 2=1624/0-3-8, 15=1545/0-3-8
Max Horz 2=437(LC 16)
Max Uplift 2=-315(LC 16), 15=-336(LC 16)
Max Grav 2=1947(LC 2), 15=1840(LC 28)

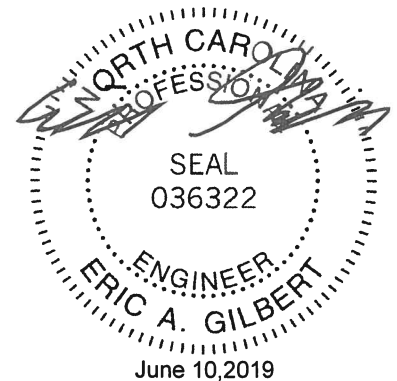
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3649/410, 3-5=-2625/339, 5-6=-1596/233, 6-7=-1379/260, 9-14=-276/1697,
8-14=-276/1697
BOT CHORD 2-13=-685/3235, 11-13=-685/3235, 10-11=-480/2357, 9-10=-178/808
WEBS 3-13=0/465, 3-11=-1023/225, 5-11=-3/720, 5-10=-1326/322, 6-10=-40/255,
7-10=-199/1303, 7-9=-1628/366, 8-15=-1842/337

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-10-8 to 1-9-2, Interior(1) 1-9-2 to 25-2-14, Exterior(2) 25-2-14 to 30-7-11, Interior(1) 30-7-11 to 35-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 15.0psf.
- 9) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 315 lb uplift at joint 2 and 336 lb uplift at joint 15.

Continued on page 2



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

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ENGINEERING BY
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144342
FPC_8_Unit_Roof	A11	Piggyback Base	2	1	Job Reference (optional)	

Carter Lumber Company, Spartanburg, SC - 29301,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:05 2019 Page 2
 ID:vEQ8yXJsehX_YGARPbjvWwzB?VO-_TNGMSXBJKn5sNmh0enchNoJTkfXzgzCDTRBK0z7IBa

NOTES-

- 11) This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 12) 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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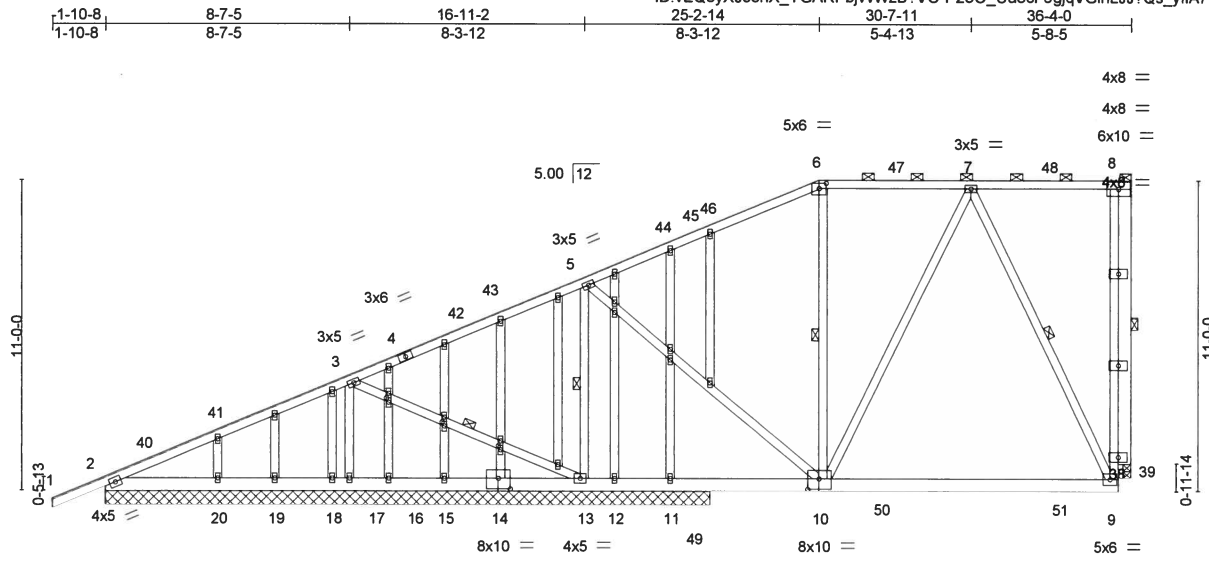


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Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144343
FPC_8_Unit_Roof	A12	GABLE	2	1		

Carter Lumber Company, Spartanburg, SC - 29301,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:08 2019 Page 1
 ID: vEQ8yXJsehX_YGARPbjvWzB7VO-P23O_Ua3cF9gjqVGinLJJ?Qs_yIIA7DevRfwwLz7IBX



Scale = 1:78.7

Plate Offsets (X,Y)--	[6:0-3-0,0-2-4], [10:0-4-12,0-4-8], [14:0-5-0,0-4-8], [26:0-1-13,0-1-0], [28:0-1-13,0-1-0], [30:0-1-13,0-1-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15		TC 0.77	Vert(LL) -0.17	9-10	>999	360	MT20	244/190
Snow (Pf/Pg) 16.5/15.0	Lumber DOL 1.15		BC 0.74	Vert(CT) -0.33	9-10	>584	240		
TCDL 15.0	Rep Stress Incr YES		WB 0.41	Horz(CT) -0.04	39	n/a	n/a		
BCLL 0.0 *	Code IBC2015/TPI2014		Matrix-S	Wind(LL) 0.02	9-10	>999	240		
BCDL 15.0								Weight: 345 lb	FT = 20%

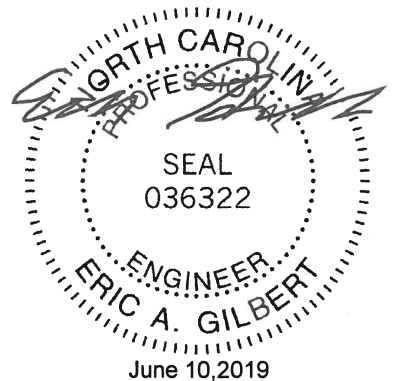
LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E *Except* 6-8: 2x4 SP No.2, 1-4: 2x4 SP No.1	TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 12-13,11-12,10-11.
WEBS 2x4 SP No.2 *Except* 3-17: 2x4 SP No.3	WEBS 1 Row at midpt 3-13, 5-13, 6-10, 7-9, 8-39
OTHERS 2x4 SP No.3 *Except* 8-38: 2x6 SP No.2, 21-22,32-33,12-34: 2x4 SP No.2	

REACTIONS. All bearings 21-5-0 except (jt=length) 39=0-3-8.
 (lb) - Max Horz 2=441(LC 16)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 19, 12, 11 except 17=-208(LC 16), 13=-299(LC 16), 39=-184(LC 16)
 Max Grav All reactions 250 lb or less at joint(s) 19, 18, 16, 15, 12, 11 except 2=463(LC 53), 17=535(LC 2), 13=1364(LC 2), 20=345(LC 47), 39=966(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 5-6=-603/65, 6-7=-462/111, 9-38=-124/811, 8-38=-124/811
 BOT CHORD 9-10=-106/347
 WEBS 3-17=-529/228, 5-13=-1184/314, 5-10=-25/636, 6-10=-293/188, 7-10=-41/336, 7-9=-655/196, 8-39=-967/185

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-10-8 to 1-9-2, Interior(1) 1-9-2 to 25-2-14, Exterior(2) 25-2-14 to 30-7-11, Interior(1) 30-7-11 to 35-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15; Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15; Category II; Exp C; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - 6) Provide adequate drainage to prevent water ponding.
 - 7) All plates are 2x4 MT20 unless otherwise indicated.
 - 8) Gable studs spaced at 2-0-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * 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 = 15.0psf.

Continued on page 2



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ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144343
FPC_8_Unit_Roof	A12	GABLE	2	1	Job Reference (optional)	

Carter Lumber Company, Spartanburg, SC - 29301,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:08 2019 Page 2
 ID:vEQ8yXJsehX_YGARPbjvWzB?VO-P23O_Ua3cF9gjqVGinLJJ?Qs_yIA7DevRfrwLz7IBX

NOTES-

- 11) Bearing at joint(s) 39 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 20, 19, 12, 11 except (jt=lb) 17=208, 13=299, 39=184.
- 13) This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 14) 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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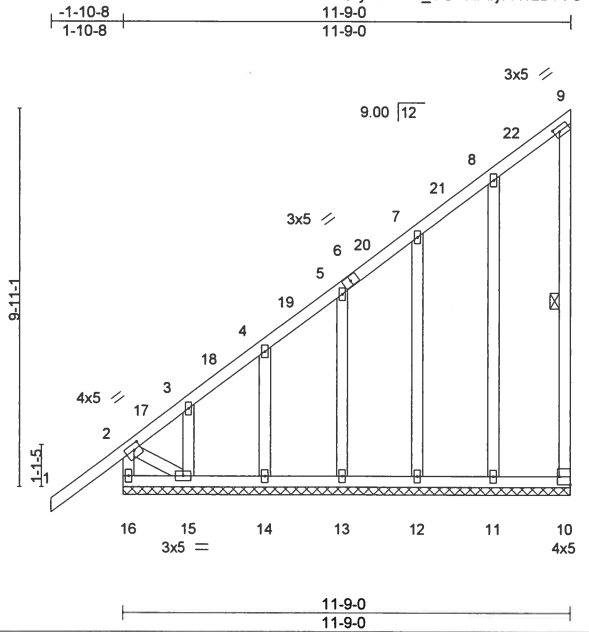
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144344
FPC_8_Unit_Roof	B01	Monopitch Supported Gable	1	1		

Carter Lumber Company, Spartanburg, SC - 29301,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:09 2019 Page 1

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Scale = 1:58.3

Plate Offsets (X,Y)-- [2:0-2-4,0-1-12], [9:0-1-12,0-1-8], [10:Edge,0-3-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC	Vert(LL)	0.00	1	n/r	120	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Lumber DOL	1.15	BC	Vert(CT)	-0.03	1	n/r	120		
TCDL 15.0	Rep Stress Incr	YES	WB	Horz(CT)	-0.00	10	n/a	n/a		
BCLL 0.0 *	Code IBC2015/TPI2014		Matrix-S						Weight: 96 lb	FT = 20%
BCDL 15.0										

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 9-10: 2x4 SP No.2
 OTHERS 2x4 SP No.3 *Except*
 8-11,7-12: 2x4 SP No.2

BRACING-

TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 6-0-0 oc bracing: 15-16.
 WEBS 1 Row at midpt 9-10

REACTIONS.

All bearings 11-9-0.
 (lb) - Max Horz 16=420(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 11, 12, 13, 14 except
 15=188(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) except 16=446(LC 25), 10=301(LC
 35), 11=371(LC 40), 12=364(LC 39), 13=366(LC 38), 14=376(LC 37), 15=327(LC
 36)

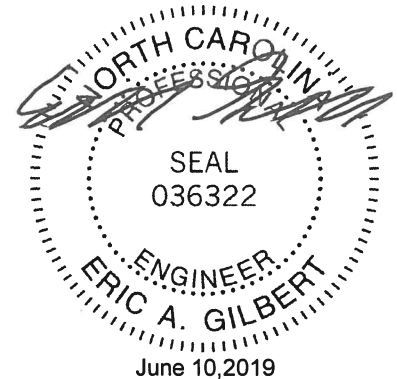
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-16=-520/353, 2-3=-576/549, 3-4=-519/522, 4-5=-432/448, 5-7=-350/381,
 7-8=-277/327, 9-10=-279/63
 BOT CHORD 15-16=-599/577
 WEBS 8-11=-307/198, 7-12=-305/144, 5-13=-306/113, 4-14=-316/130, 3-15=-282/76,
 2-15=-471/550

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) -1-10-8 to 1-1-8, Exterior(2) 1-1-8 to 11-7-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.6 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * 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.

Continued on page 2



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ENGINEERING BY
TRENCO
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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144344
FPC_8_Unit_Roof	B01	Monopitch Supported Gable	1	1		
						Job Reference (optional)

Carter Lumber Company, Spartanburg, SC - 29301,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:09 2019 Page 2

ID:vEQ8yXJsehX_YGARPbjvWwzB?VO-fDmCqahNZHXL_4SFUsYrDy0MLB7vbPo75PPPtnz7IBW

NOTES-

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 11, 12, 13, 14 except (jt=lb) 15=188.
- 12) This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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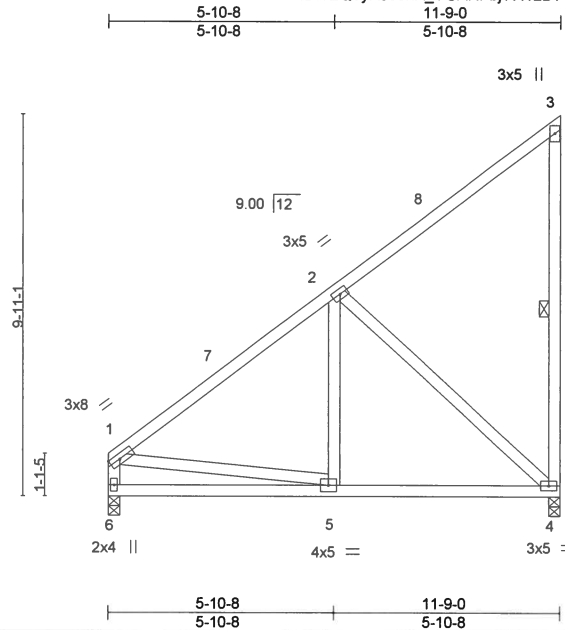


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144345
FPC_8_Unit_Roof	B02	Monopitch	1	1		

Carter Lumber Company, Spartanburg, SC - 29301,

8.220 s Nov 16 2018 MITek Industries, Inc. Mon Jun 10 07:59:10 2019 Page 1
 ID: vEQ8yXJsehX_YGARPbjvWvzB?VO-LRB9PAbJ8sPOy8ffpCNnOQVBWV6ezqxMI8y?Ez7IBV



Scale = 1:57.7

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.77	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.46	Vert(LL) -0.04 4-5 >999 240		
TCDL 15.0	Lumber DOL 1.15	WB 0.66	Vert(CT) -0.08 4-5 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 4 n/a n/a		
BCDL 15.0	Code IBC2015/TPI2014			Weight: 81 lb	FT = 20%

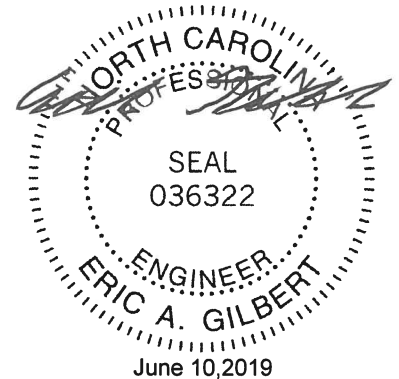
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2 *Except*
 2-5,1-6: 2x4 SP No.3

BRACING-
 TOP CHORD Sheathed or 5-5-3 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 7-6-4 oc bracing.
 WEBS 1 Row at midpt 3-4

REACTIONS. (lb/size) 4=476/0-3-8, 6=476/0-3-8
 Max Horz 6=393(LC 11)
 Max Uplift 4=-165(LC 11), 6=-41(LC 14)
 Max Grav 4=634(LC 23), 6=604(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-646/137, 2-3=-271/253, 3-4=-328/195, 1-6=-530/142
 BOT CHORD 5-6=-602/723, 4-5=-293/618
 WEBS 2-5=0/302, 2-4=-641/232, 1-5=-106/350

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 11-7-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCCL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.6 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 4=165.
 - 6) This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.



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818 Soundside Road
 Edenton, NC 27932

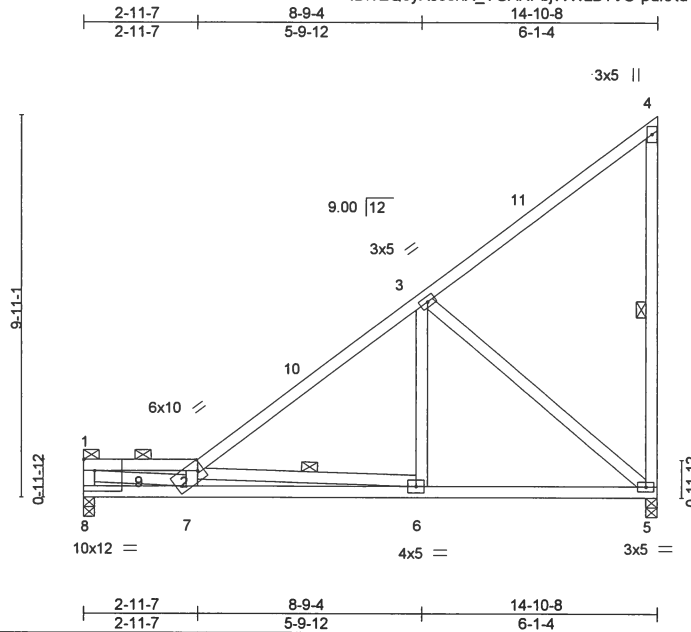
Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144346
FPC_8_Unit_Roof	B03	Roof Special	1	1		

Carter Lumber Company, Spartanburg, SC - 29301,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:11 2019 Page 1

ID:vEQ8yXjsehX_YGARPbjvWzB?VO-pdkXdVcxvAXEalDrNvu0we2K09iGNNa5bPuVXgz7IBU

Job Reference (optional)



Scale = 1:57.7

Plate Offsets (X,Y)-- [2:0-1-12,0-3-0], [8:Edge,0-3-8], [8:0-1-12,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.92	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 16.5/15.0	Plate Grip DOL 1.15	BC 0.98	Vert(LL) -0.09 6-7 >999 360		
TCDL 15.0	Lumber DOL 1.15	WB 0.88	Vert(CT) -0.26 6-7 >683 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.03 5 n/a n/a		
BCDL 15.0	Code IBC2015/TPI2014		Wind(LL) 0.08 6-7 >999 240	Weight: 94 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 4-5,2-6,3-5: 2x4 SP No.2

BRACING-

TOP CHORD Sheathed or 3-3-3 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-8 max.): 1-2.
 BOT CHORD Rigid ceiling directly applied or 8-2-11 oc bracing.
 WEBS 1 Row at midpt 4-5, 2-6

REACTIONS.

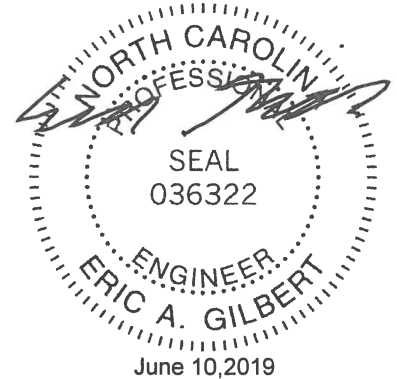
(lb/size) 8=631/0-3-8, 5=609/0-3-8
 Max Horz 8=394(LC 13)
 Max Uplift 8=-76(LC 14), 5=-153(LC 14)
 Max Grav 8=729(LC 2), 5=774(LC 23)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-8=-630/116, 1-2=-2211/331, 2-3=-877/163, 3-4=-279/248, 4-5=-328/193
 BOT CHORD 7-8=-519/659, 6-7=-328/2318, 5-6=-244/744
 WEBS 1-7=-309/2090, 2-7=-506/172, 2-6=-1749/324, 3-6=0/530, 3-5=-846/250

NOTES-

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 2-11-7, Interior(1) 2-11-7 to 14-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- 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 will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 5=153.
- This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 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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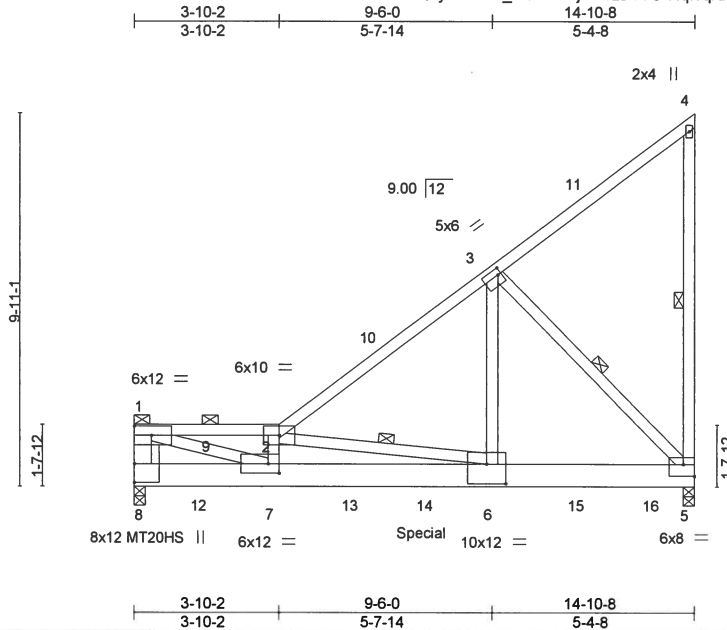
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144347
FPC_8_Unit_Roof	B04	ROOF SPECIAL GIRDER	1	2	Job Reference (optional)	

Carter Lumber Company, Spartanburg, SC - 29301,

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ID: vEQ8yXJsehX_YGARPbjvWvzB?VO-HqlvqrdagUF5CRo1xcPFTraVKZ4M6o5Eq3d336z7IBT



Scale = 1:59.0

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.94	in (loc) l/defl	MT20	244/190
Snow (Pf/Pg) 16.5/15.0	Plate Grip DOL 1.15	BC 0.86	Vert(LL) -0.16 6-7 >999 360	MT20HS	187/143
TCDL 15.0	Lumber DOL 1.15	WB 0.99	Vert(CT) -0.38 6-7 >452 240		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.03 5 n/a n/a		
BCDL 15.0	Code IBC2015/TPI2014		Wind(LL) 0.15 6-7 >999 240		
				Weight: 239 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
 2-4: 2x4 SP No.1
 BOT CHORD 2x8 SP 2400F 2.0E
 WEBS 2x4 SP No.2 *Except*
 1-8: 2x6 SP No.2, 1-7: 2x4 SP 2400F 2.0E, 2-7: 2x4 SP No.3

BRACING-

TOP CHORD Sheathed or 4-5-4 oc purlins, except end verticals, and 2-0-0 oc purlins (2-5-1 max.): 1-2.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 4-5, 2-6, 3-5

REACTIONS.

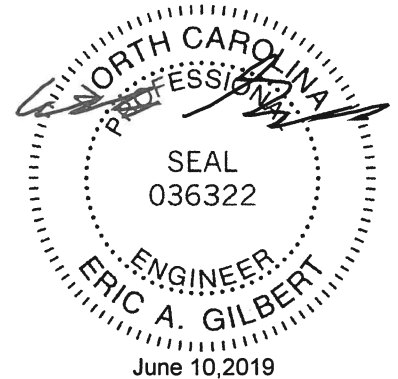
(lb/size) 8=5718/0-3-8, 5=6079/0-3-8
 Max Horz 8=356(LC 10)
 Max Uplift 8=869(LC 10), 5=1159(LC 10)
 Max Grav 8=6370(LC 2), 5=6711(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-8=4261/592, 1-2=-13113/1748, 2-3=-6089/730, 4-5=-314/106
 BOT CHORD 7-8=-504/1229, 6-7=-2105/13367, 5-6=-820/4836
 WEBS 1-7=-1658/12574, 2-7=-2078/275, 2-6=-8715/1312, 3-6=-1127/8098, 3-5=-6940/1174

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=35ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=869, 5=1159.
- This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 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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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144347
FPC_8_Unit_Roof	B04	ROOF SPECIAL GIRDER	1	2	Job Reference (optional)	

Carter Lumber Company, Spartanburg, SC - 29301,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:12 2019 Page 2
 ID:vEQ8yXJsehX_YGARPbjvWvzB?VO-HqlvqrdagUf5CRo1xcPFTraVKZ4M6o5Eq3d336z7IBT

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1662 lb down and 275 lb up at 1-8-12, 1662 lb down and 275 lb up at 3-8-12, 1662 lb down and 275 lb up at 5-8-12, 1662 lb down and 275 lb up at 7-8-12, 1662 lb down and 275 lb up at 9-8-12, and 1662 lb down and 275 lb up at 11-8-12, and 1662 lb down and 275 lb up at 13-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-63, 2-4=-53, 5-8=-30

Concentrated Loads (lb)

Vert: 7=-1467(B) 6=-1524(B) 12=-1467(B) 13=-1524(B) 14=-1524(B) 15=-1524(B) 16=-1524(B)

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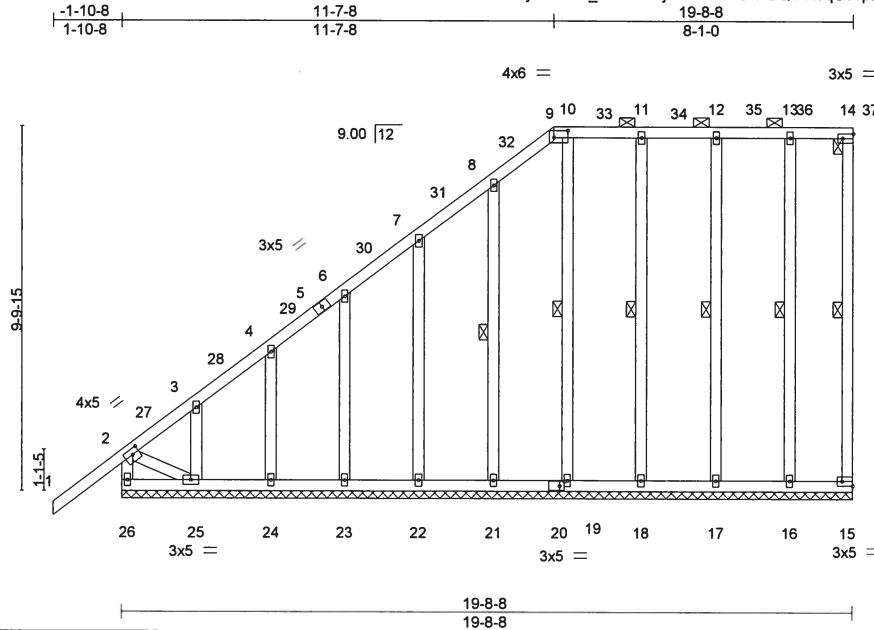
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144348
FPC_8_Unit_Roof	B05	GABLE	1	1		

Carter Lumber Company, Spartanburg, SC - 29301,

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ID:vEQ8yXJsehX_YGARPbjvWvzB?VO-DCQfXeqC5vpRlyQ21SjYGguVMu0atLXHN6A8?z7IBR



Scale = 1:59.9

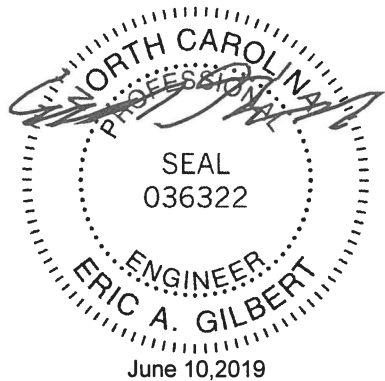
Plate Offsets (X,Y)--	[2:0-2-4,0-1-12], [9:0-0-0,0-1-12], [9:0-4-8,0-2-4], [10:0-1-12,0-0-0], [14:Edge,0-1-8], [15:Edge,0-1-8], [20:0-1-8,0-1-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.71	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 16.5/15.0	Lumber DOL 1.15	BC 0.33	Vert(LL) -0.00 1 n/r 120		
TCDL 15.0	Rep Stress Incr YES	WB 0.24	Vert(CT) -0.03 1 n/r 120		
BCLL 0.0 *	Code IBC2015/TPI2014	Matrix-S	Horz(CT) -0.01 15 n/a n/a		
BCDL 15.0				Weight: 177 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 9-14.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 14-15: 2x4 SP No.2	WEBS 1 Row at midpt 14-15, 8-21, 10-19, 11-18, 12-17, 13-16
OTHERS 2x4 SP No.2 *Except* 3-25, 4-24: 2x4 SP No.3	

REACTIONS. All bearings 19-8-8.
 (lb) - Max Horz 26=422(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 26, 15, 24, 23, 22, 21, 19, 18, 17, 16 except 25=170(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) except 26=435(LC 25), 15=289(LC 41), 25=342(LC 42), 24=374(LC 43), 23=367(LC 44), 22=365(LC 45), 21=361(LC 46), 19=361(LC 36), 18=357(LC 49), 17=357(LC 50), 16=349(LC 51)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-26=-454/284, 2-3=-539/512, 3-4=-476/474, 4-6=-395/404, 6-7=-318/340, 7-8=-243/279, 14-15=-272/156
 BOT CHORD 25-26=-556/521
 WEBS 3-25=-291/84, 4-24=-315/119, 6-23=-307/105, 7-22=-305/115, 8-21=-301/120, 10-19=-301/154, 11-18=-297/76, 12-17=-296/82, 13-16=-291/140, 2-25=-424/501

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) -1-10-8 to 1-1-8, Exterior(2) 1-1-8 to 11-7-8, Corner(3) 11-7-8 to 14-7-8, Exterior(2) 14-7-8 to 19-6-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) All plates are 2x4 MT20 unless otherwise indicated.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 9) Gable studs spaced at 2-0-0 oc.
 - 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144348
FPC_8_Unit_Roof	B05	GABLE	1	1	Job Reference (optional)	

Carter Lumber Company, Spartanburg, SC - 29301,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:14 2019 Page 2
 ID:vEQ8yXJsehX_YGARPbjvWvzB?VO-DCQFFXeqC5vpRlyQ21SjYGguVMu0atLXHN6A8?z7IBR

NOTES-

- 11) * 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26, 15, 24, 23, 22, 21, 19, 18, 17, 16 except (jt=lb) 25=170.
- 13) This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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.



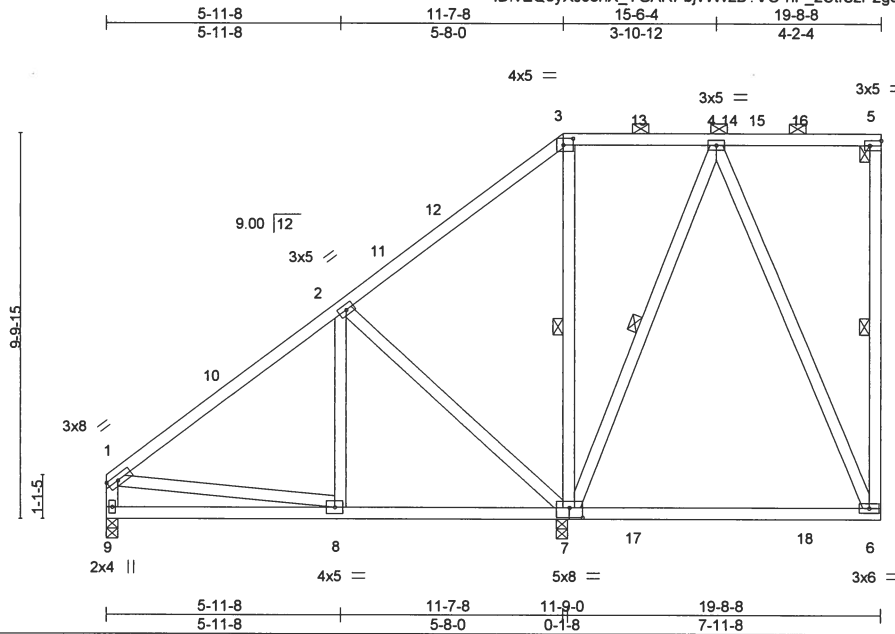
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144349
FPC_8_Unit_Roof	B06	Piggyback Base	1	1	Job Reference (optional)	

Carter Lumber Company, Spartanburg, SC - 29301,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:15 2019 Page 1

ID: vEQ8yXJsehX_YGARPbjvWwzB?VO-hP_2SfSzP2g3vXccly5UC25m6rJDsgW1sjRz7IBQ



Scale = 1:56.6

Plate Offsets (X,Y)-- [3:0-3-0,0-2-0], [5:Edge,0-1-8], [7:0-4-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.78	Vert(LL)	0.05	7-8	>999	MT20	244/190
Snow (Pf/Pg) 16.5/15.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.08	8-9	>999		
TCDL 15.0	Rep Stress Incr	YES	WB 0.67	Horz(CT)	0.01	7	n/a		
BCLL 0.0 *	Code IBC2015/TPI2014		Matrix-S	Wind(LL)	-0.07	7-8	>999		
BCDL 15.0								Weight: 148 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2 *Except*
 1-9: 2x4 SP No.3

BRACING-

TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 5-6, 3-7, 4-7

REACTIONS.

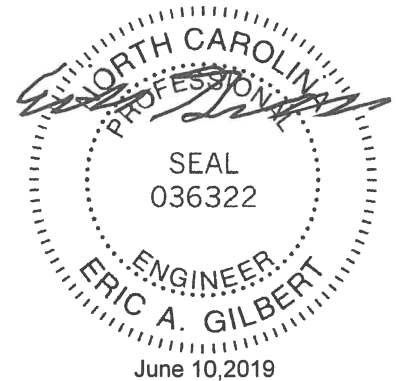
(lb/size) 9=243/0-3-8, 7=1450/0-3-8
 Max Horz 9=395(LC 11)
 Max Uplift 9=-2(LC 14), 7=-632(LC 11)
 Max Grav 9=454(LC 28), 7=1755(LC 23)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-525/229, 2-3=-500/529, 3-4=-313/383, 5-6=-311/93, 1-9=-372/61
 BOT CHORD 8-9=-565/695, 7-8=-135/410, 6-7=-231/263
 WEBS 2-8=0/284, 2-7=-636/229, 3-7=-536/401, 4-7=-616/365, 4-6=-241/447, 1-8=-288/511

NOTES-

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCCL=6.0psf; h=35ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 11-7-8, Exterior(2) 11-7-8 to 15-10-7, Interior(1) 15-10-7 to 19-6-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- 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 will fit between the bottom chord and any other members, with BCCL = 15.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 7=632.
- This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

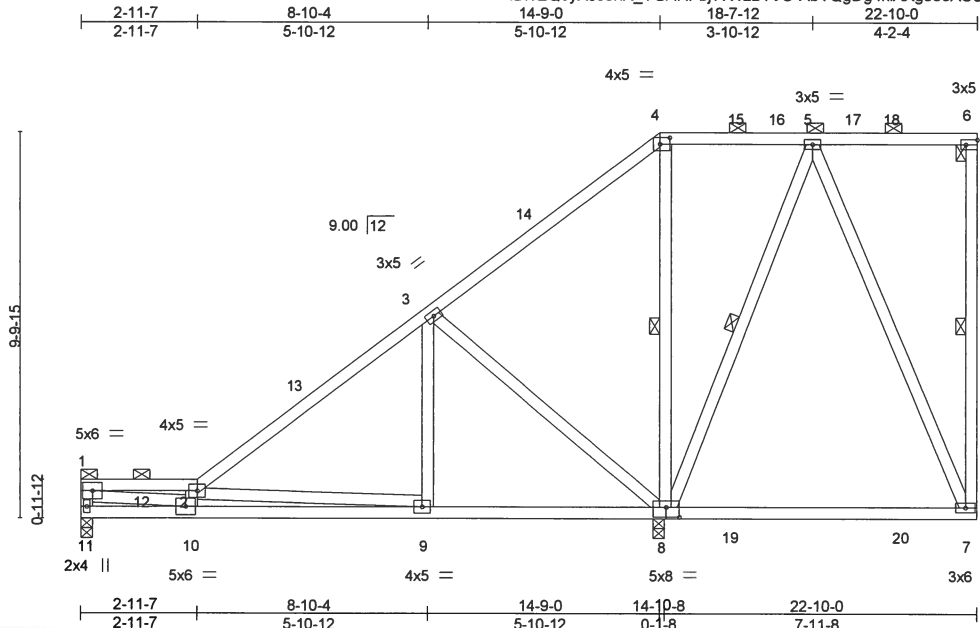
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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.



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144350
FPC_8_Unit_Roof	B07	Piggyback Base	1	1		

Carter Lumber Company, Spartanburg, SC - 29301, 8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:16 2019 Page 1
 ID:vEQ8yXJsehX_YGARPbjvWvzB?VO-AbYQgDg4kiAXg36oASUCdhiCVAS12bCqkhhGCTz7IBP



Scale = 1:56.6

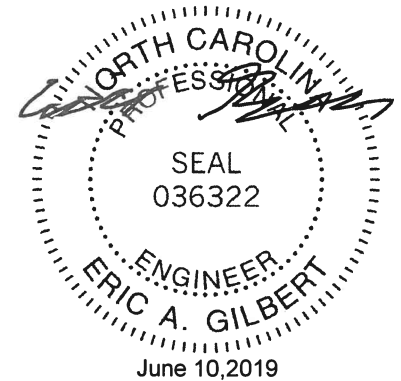
Plate Offsets (X,Y)--	[4:0-3-0,0-2-0], [6:Edge,0-1-8], [8:0-4-0,0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.87	Vert(LL) -0.08 9-10 >999 360	MT20	244/190
Snow (Pf/Pg) 16.5/15.0	Lumber DOL 1.15	BC 0.87	Vert(CT) -0.22 9-10 >817 240		
TCDL 15.0	Rep Stress Incr YES	WB 0.99	Horz(CT) 0.02 8 n/a n/a		
BCLL 0.0 *	Code IBC2015/TPI2014	Matrix-S	Wind(LL) -0.07 8-9 >999 240		
BCDL 15.0				Weight: 161 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Sheathed or 4-7-10 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-12 max.): 1-2, 4-6.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS 1 Row at midpt 6-7, 4-8, 5-8
1-11,1-10,2-10,3-9: 2x4 SP No.3	

REACTIONS. (lb/size) 11=449/0-3-8, 8=1532/0-3-8
 Max Horz 11=396(LC 11)
 Max Uplift 11=46(LC 14), 8=574(LC 11)
 Max Grav 11=580(LC 28), 8=1836(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-11=-534/44, 1-2=-1678/107, 2-3=-609/179, 3-4=-487/531, 4-5=-300/383, 6-7=-311/92
 BOT CHORD 10-11=-455/602, 9-10=-220/1750, 8-9=-92/502, 7-8=-228/255
 WEBS 1-10=-92/1597, 2-10=-339/95, 2-9=-1552/211, 3-9=0/433, 3-8=-773/243, 4-8=-543/395, 5-8=-616/352, 5-7=-229/447

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 2-11-7, Interior(1) 2-11-7 to 14-9-0, Exterior(2) 14-9-0 to 17-9-0, Interior(1) 17-9-0 to 22-8-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - 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 = 15.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 8=574.
 - 7) This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144351
FPC_8_Unit_Roof	B08	PIGGYBACK BASE GIRDE	1	2		

Carter Lumber Company, Spartanburg, SC - 29301, 8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:18 2019 Page 1
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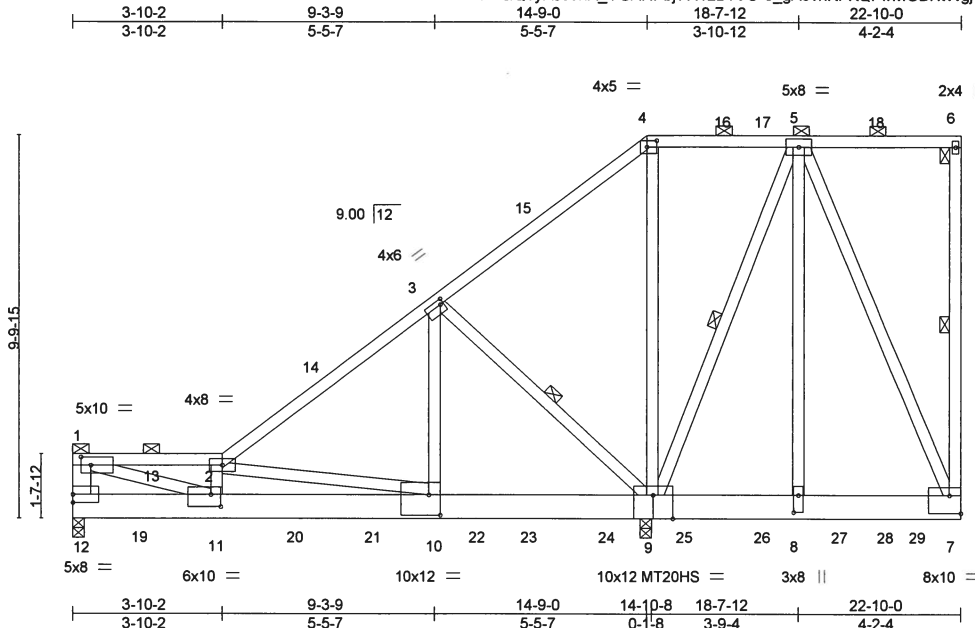


Plate Offsets (X,Y)-- [1:0-3-0,0-2-8], [3:0-1-0,0-1-8], [4:0-3-0,0-2-0], [7:Edge,0-5-8], [8:0-5-4,0-1-8], [9:0-6-0,Edge], [10:0-3-8,0-6-4], [11:0-3-0,0-3-12]

LOADING (psf)	SPACING-	CS.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.70	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 16.5/15.0	Plate Grip DOL 1.15	BC 0.66	Vert(LL) -0.12 10-11 >999 360	MT20HS	187/143
TCDL 15.0	Lumber DOL 1.15	WB 0.97	Vert(CT) -0.29 10-11 >610 240		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.02 9 n/a n/a		
BCDL 15.0	Code IBC2015/TP12014		Wind(LL) 0.11 10-11 >999 240		
				Weight: 421 lb	FT = 20%

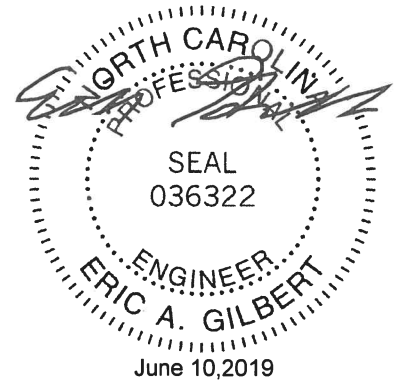
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x8 SP 2400F 2.0E
 WEBS 2x4 SP No.2 *Except*
 1-12: 2x6 SP No.2, 2-11: 2x4 SP No.3

BRACING-
 TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-12 max.): 1-2, 4-6.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 6-7, 3-9, 5-9

REACTIONS. (lb/size) 12=3998/0-3-8, 9=14639/0-3-8 (req. 0-6-10)
 Max Horz 12=388(LC 7)
 Max Uplift 12=684(LC 10), 9=2553(LC 7)
 Max Grav 12=4499(LC 2), 9=16025(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-12=-2736/432, 1-2=-8512/1291, 2-3=-2187/378, 3-4=-715/3406, 4-5=-519/2685, 6-7=-311/77
 BOT CHORD 11-12=-475/1083, 10-11=-1371/8516, 9-10=-344/1708, 8-9=-799/242, 7-8=-799/242
 WEBS 1-11=-1181/7908, 2-11=-293/249, 2-10=-6966/1127, 3-10=-980/6861, 3-9=-5957/1057, 4-9=-2268/495, 5-9=-5148/832, 5-8=-385/2636, 5-7=-338/1993

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members, with BCDL = 15.0psf.
 - WARNING: Required bearing size at joint(s) 9 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=684, 9=2553.
 - This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- On the page representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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ENGINEERING BY
TRENCO
 A MiTek Affiliates
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144351
FPC_8_Unit_Roof	B08	PIGGYBACK BASE GIRDE	1	2	Job Reference (optional)	

Carter Lumber Company, Spartanburg, SC - 29301,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:18 2019 Page 2

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NOTES-

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1662 lb down and 275 lb up at 1-8-12, 1662 lb down and 275 lb up at 3-8-12, 1662 lb down and 275 lb up at 5-8-12, 1662 lb down and 275 lb up at 7-8-12, 1662 lb down and 275 lb up at 9-8-12, 1662 lb down and 275 lb up at 11-8-12, 1662 lb down and 275 lb up at 13-8-12, 1662 lb down and 275 lb up at 15-8-12, 1661 lb down and 230 lb up at 17-8-12, and 1661 lb down and 230 lb up at 19-8-12, and 1662 lb down and 274 lb up at 21-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-63, 2-4=-53, 4-6=-63, 7-12=-30

Concentrated Loads (lb)

Vert: 11=-1467(F) 19=-1467(F) 20=-1524(F) 21=-1524(F) 22=-1524(F) 23=-1524(F) 24=-1524(F) 25=-1524(F) 26=-1524(F) 27=-1524(F) 29=-1525(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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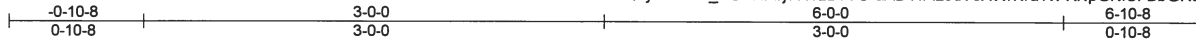
Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144352
FPC_8_Unit_Roof	C01	Common Supported Gable	1	1		

Carter Lumber Company, Spartanburg, SC - 29301,

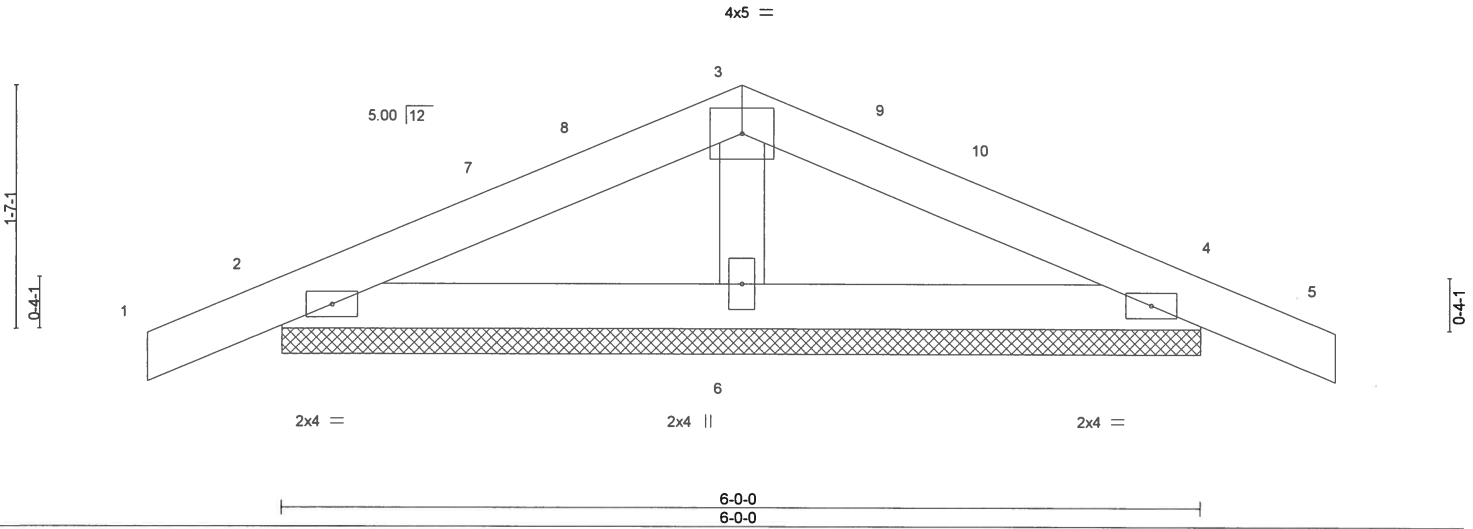
8 220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:19 2019 Page 1

Id: vEQ8yXJsehX_YGARPbjvWzB7VO-aADYIFiz0dY6XWfRnra1vFKnpGNfSFbBGRReqwpCz7IBM

Job Reference (optional)



Scale = 1:14.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.45	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) 0.00 4 n/r 120		
TCDL 15.0	Lumber DOL 1.15	WB 0.05	Vert(CT) 0.00 5 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 4 n/a n/a		
BCDL 15.0	Code IBC2015/TPI2014			Weight: 23 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

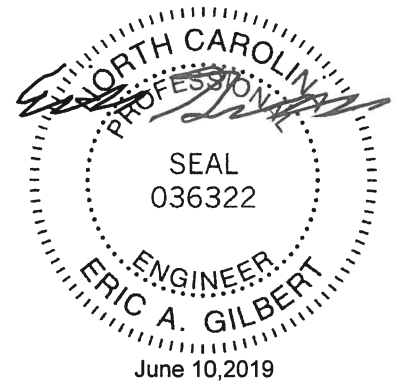
BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=171/6-0-0, 4=171/6-0-0, 6=249/6-0-0
Max Horz 2=-25(LC 14)
Max Uplift 2=-84(LC 16), 4=-84(LC 16), 6=-5(LC 16)
Max Grav 2=371(LC 38), 4=371(LC 40), 6=432(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-319/162

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCCL=6.0psf; h=35ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 3-0-0, Corner(3) 3-0-0 to 6-0-0, Exterior(2) 6-0-0 to 6-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.6 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 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 will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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.

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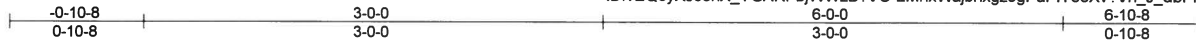
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144353
FPC_8_Unit_Roof	C02	Common	1	1		

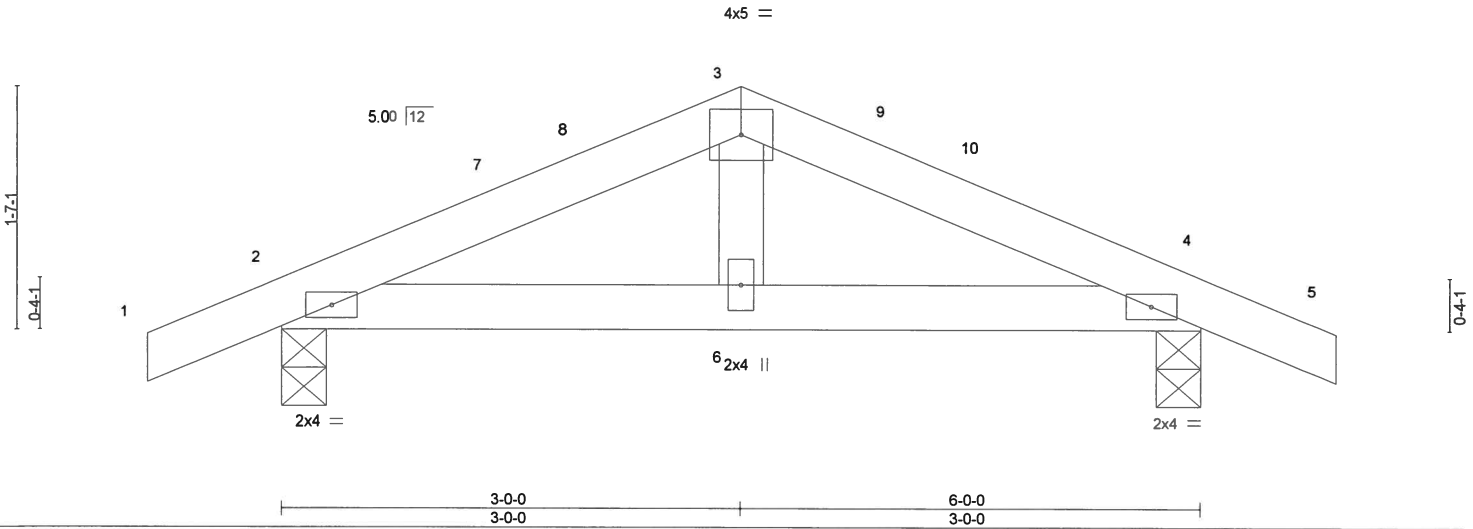
Carter Lumber Company, Spartanburg, SC - 29301,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:20 2019 Page 1

ID:vEQ8yXJsehX_YGARPbjvWwzB?VO-2MnxWajbnxg9gPaPIY8oXv?Vn_J_dbPfIZUMez7IBL



Scale = 1:14.5



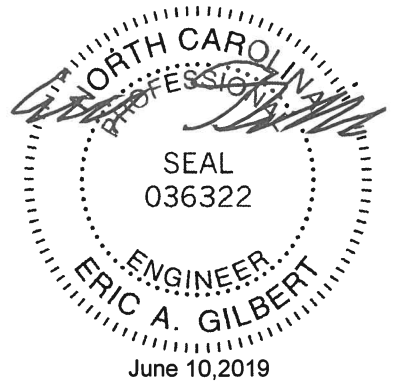
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.01	6	>999	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.01	6	>999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	4	n/a		
BCLL	0.0	Code IBC2015/TPI2014		Matrix-P		Wind(LL)	0.00	6	>999	Weight: 23 lb	FT = 20%
BCDL	15.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Sheathed or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (lb/size) 2=291/0-3-8, 4=291/0-3-8
 Max Horz 2=25(LC 15)
 Max Uplift 2=-91(LC 16), 4=-91(LC 16)
 Max Grav 2=462(LC 38), 4=462(LC 40)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-542/99, 3-4=-542/99
 BOT CHORD 2-6=-20/477, 4-6=-20/477

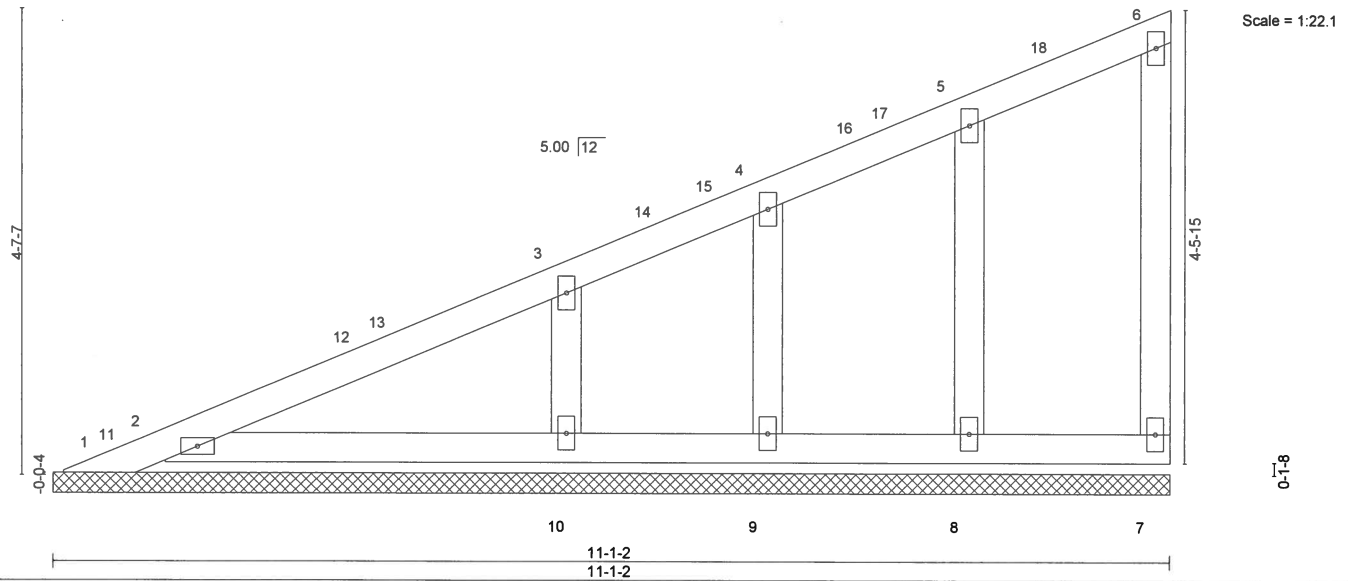
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-0-0, Exterior(2) 3-0-0 to 5-10-4, Interior(1) 5-10-4 to 6-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.6 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - 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 will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
 - This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.



Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144354
FPC_8_Unit_Roof	PB01	GABLE	8	1		

Carter Lumber Company, Spartanburg, SC - 29301,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:21 2019 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.37	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.14	Vert(LL) n/a - n/a 999		
TCDL 15.0	Lumber DOL 1.15	WB 0.08	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.00 7 n/a n/a		
BCDL 15.0	Code IBC2015/TPI2014			Weight: 49 lb	FT = 20%

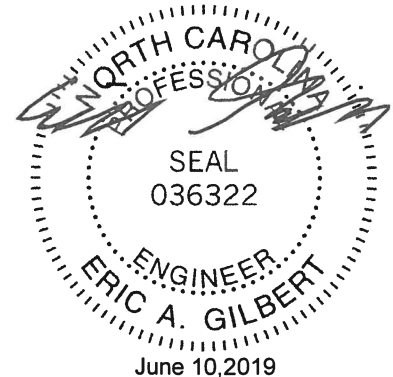
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 11-1-2.
 (lb) - Max Horz 1=178(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 8, 9, 10 except 1=243(LC 33)
 Max Grav All reactions 250 lb or less at joint(s) 1 except 7=301(LC 37), 2=535(LC 33), 8=387(LC 42), 9=332(LC 41), 10=473(LC 40)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-331/269, 6-7=-280/51
 WEBS 5-8=-318/135, 4-9=-296/74, 3-10=-360/120

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-5-7 to 3-5-7, Interior(1) 3-5-7 to 10-11-6 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.6 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Bearing at joint(s) 1, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2, 8, 9, 10 except (jt=lb) 1=243.
 - 12) This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 - 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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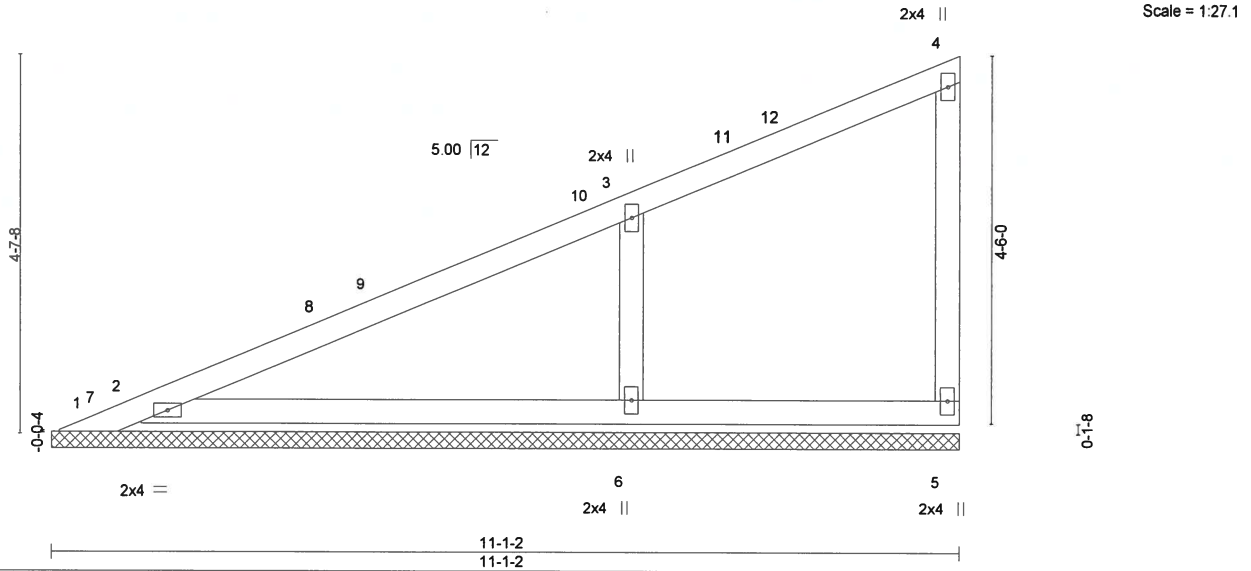
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 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144355
FPC_8_Unit_Roof	PB02	GABLE	77	1		

Carter Lumber Company, Spartanburg, SC - 29301,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:22 2019 Page 1
ID:vEQ8yXJsehX_YGARPBjvWvzB?VO-_lvhwGkrJYwhO_ZyWjbcty?lubdlSXki7c2bQXz7IBJ



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.62	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.34	Vert(LL) n/a - n/a 999		
TCDL 15.0	Lumber DOL 1.15	WB 0.09	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.00 5 n/a n/a		
BCDL 15.0	Code IBC2015/TPI2014			Weight: 42 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

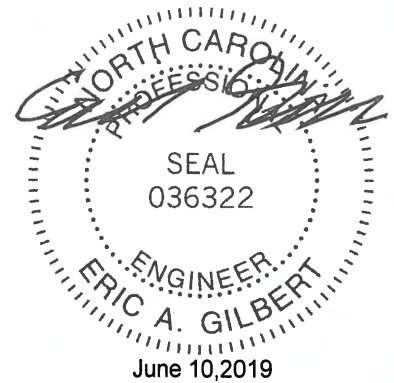
All bearings 11-1-2.
 (lb) - Max Horz 1=178(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 5 except 1=475(LC 33), 2=174(LC 16), 6=120(LC 16)
 Max Grav All reactions 250 lb or less at joint(s) 1 except 5=334(LC 35), 2=830(LC 33), 6=602(LC 38)

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

TOP CHORD 1-2=347/326, 4-5=298/100
 WEBS 3-6=425/234

NOTES-

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-5-7 to 3-5-7, Interior(1) 3-5-7 to 10-11-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCCL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.6 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Truss requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- 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 will fit between the bottom chord and any other members.
- Bearing at joint(s) 1, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 1=475, 2=174, 6=120.
- This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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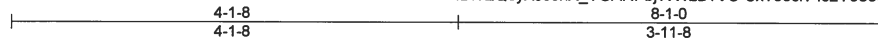
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144356
FPC_8_Unit_Roof	PB03	GABLE	4	1		

Carter Lumber Company, Spartanburg, SC - 29301,

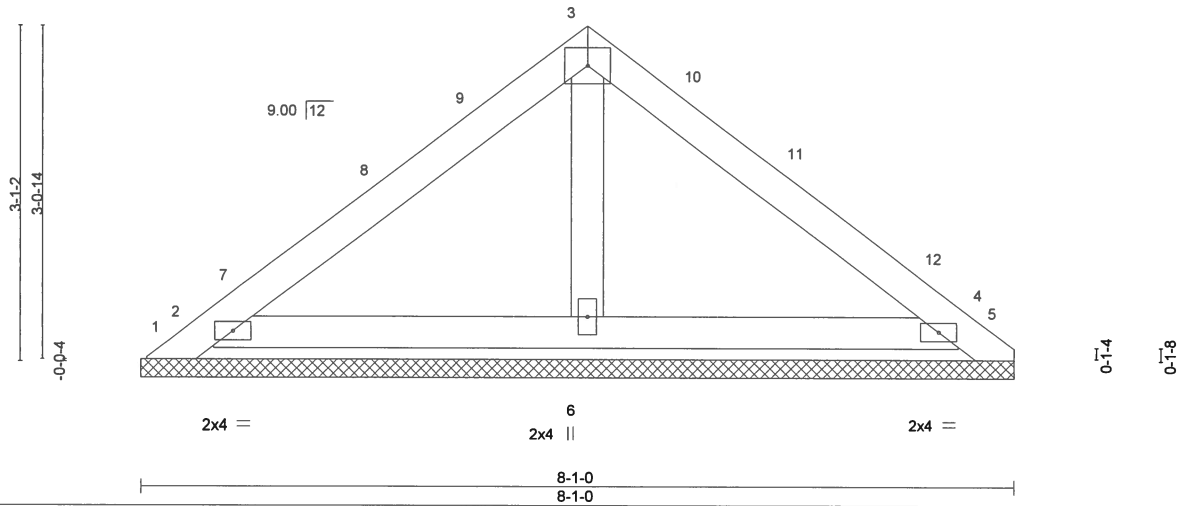
8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:23 2019 Page 1

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4x5 =

Scale = 1:20.5



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-P							Weight: 29 lb	FT = 20%
BCDL	15.0											

LUMBER-

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

BRACING-

TOP CHORD Sheathed or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

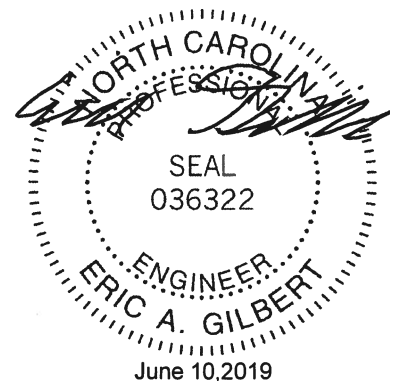
All bearings 8-1-0.
 (lb) - Max Horz 1=70(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) except 1=471(LC 33), 5=560(LC 34), 2=240(LC 14), 4=271(LC 14)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 2=787(LC 33), 4=873(LC 34), 6=390(LC 38)

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

TOP CHORD 1-2=107/257, 4-5=121/293
 WEBS 3-6=261/33

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-3-7 to 3-3-7, Interior(1) 3-3-7 to 4-1-8, Exterior(2) 4-1-8 to 7-1-8, Interior(1) 7-1-8 to 7-10-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.6 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 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 will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 471 lb uplift at joint 1, 560 lb uplift at joint 5, 240 lb uplift at joint 2 and 271 lb uplift at joint 4.
- This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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 Edenton, NC 27932

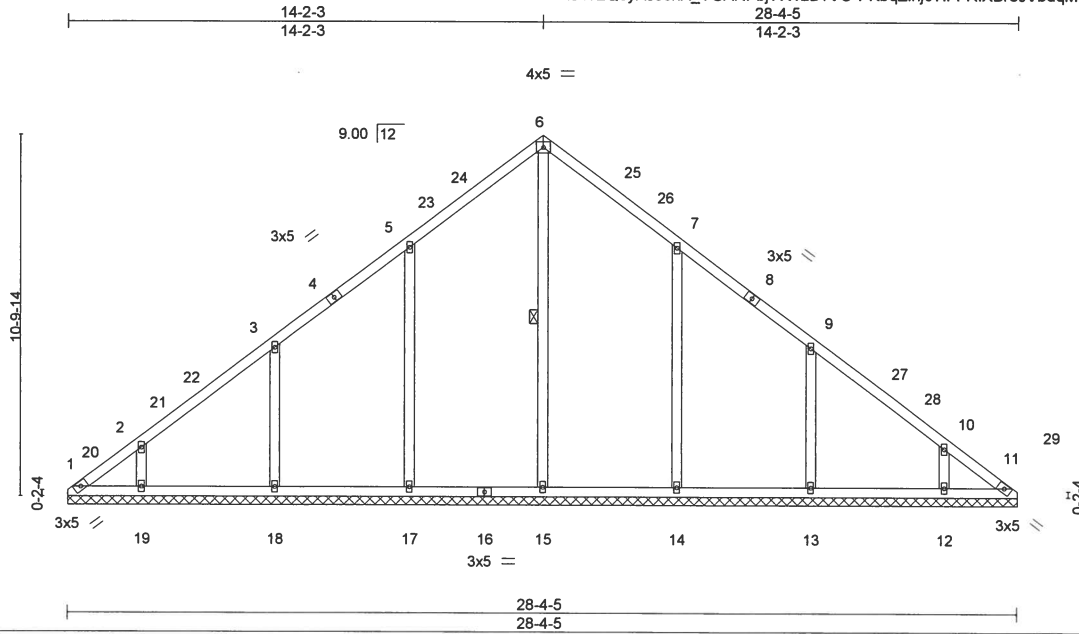
Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144357
FPC_8_Unit_Roof	V01	GABLE	1	1		

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Job Reference (optional)



Scale = 1:66.5

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.48	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.22	Vert(LL) n/a - n/a 999		
TCDL 15.0	Lumber DOL 1.15	WB 0.37	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 11 n/a n/a		
BCDL 15.0	Code IBC2015/TPI2014			Weight: 148 lb	FT = 20%

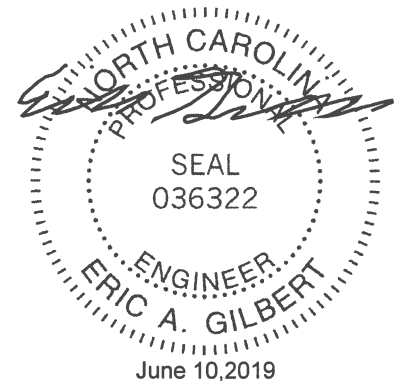
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3 *Except*
6-15,5-17,7-14: 2x4 SP No.2

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-15

REACTIONS. All bearings 28-4-5.
(lb) - Max Horz 1=256(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 1, 11 except 17=161(LC 14), 18=155(LC 14), 19=131(LC 14), 14=161(LC 14), 13=155(LC 14), 12=131(LC 14)
Max Grav All reactions 250 lb or less at joint(s) except 1=301(LC 39), 15=440(LC 23), 17=567(LC 23), 18=504(LC 41), 19=465(LC 40), 14=567(LC 24), 13=504(LC 45), 12=465(LC 46), 11=301(LC 47)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=273/251, 6-7=273/251
WEBS 6-15=285/45, 5-17=384/208, 3-18=380/204, 2-19=362/171, 7-14=384/208, 9-13=380/204, 10-12=362/171

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-2-4 to 3-2-4, Interior(1) 3-2-4 to 14-2-3, Exterior(2) 14-2-3 to 17-2-3, Interior(1) 17-2-3 to 28-2-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15; Pg=15.0 psf (ground snow); Pf=11.6 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15; Category II; Exp C; Partially Exp.; Ct=1.10
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - 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 will fit between the bottom chord and any other members, with BCDL = 15.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11 except (jt=lb) 17=161, 18=155, 19=131, 14=161, 13=155, 12=131.
 - This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.



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.

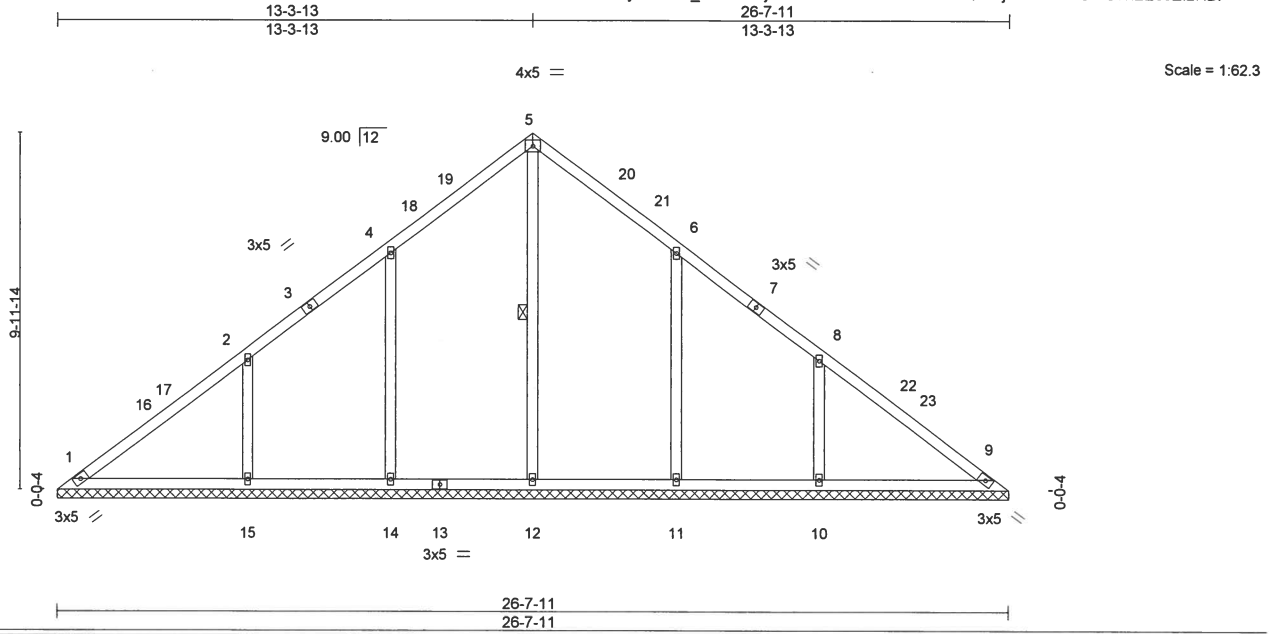
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144358
FPC_8_Unit_Roof	V02	GABLE	1	1		

Carter Lumber Company, Spartanburg, SC - 29301,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:26 2019 Page 1
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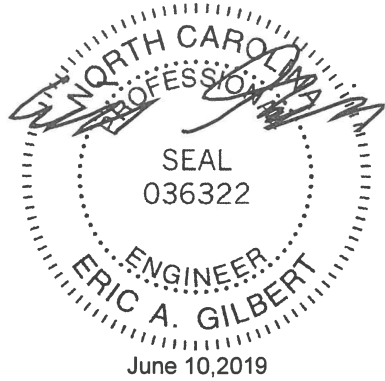
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.64	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.27	Vert(LL) n/a - n/a 999		
TCDL 15.0	Lumber DOL 1.15	WB 0.29	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 9 n/a n/a		
BCDL 15.0	Code IBC2015/TPI2014			Weight: 131 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2 *Except* 2-15,8-10: 2x4 SP No.3	WEBS 1 Row at midpt 5-12

REACTIONS. All bearings 26-7-11.
 (lb) - Max Horz 1=-236(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) except 14=-148(LC 14), 15=-196(LC 14), 11=-148(LC 14), 10=-196(LC 14)
 Max Grav All reactions 250 lb or less at joint(s) except 1=391(LC 37), 12=451(LC 23), 14=531(LC 23), 15=598(LC 23), 11=531(LC 24), 10=599(LC 24), 9=391(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 4-5=-252/228, 5-6=-252/228
 WEBS 5-12=-288/14, 4-14=-374/196, 2-15=-418/245, 6-11=-374/196, 8-10=-418/245

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 13-3-13, Exterior(2) 13-3-13 to 16-3-13, Interior(1) 16-3-13 to 26-2-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.6 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - 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 will fit between the bottom chord and any other members, with BCDL = 15.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 14, 196 lb uplift at joint 15, 148 lb uplift at joint 11 and 196 lb uplift at joint 10.
 - This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

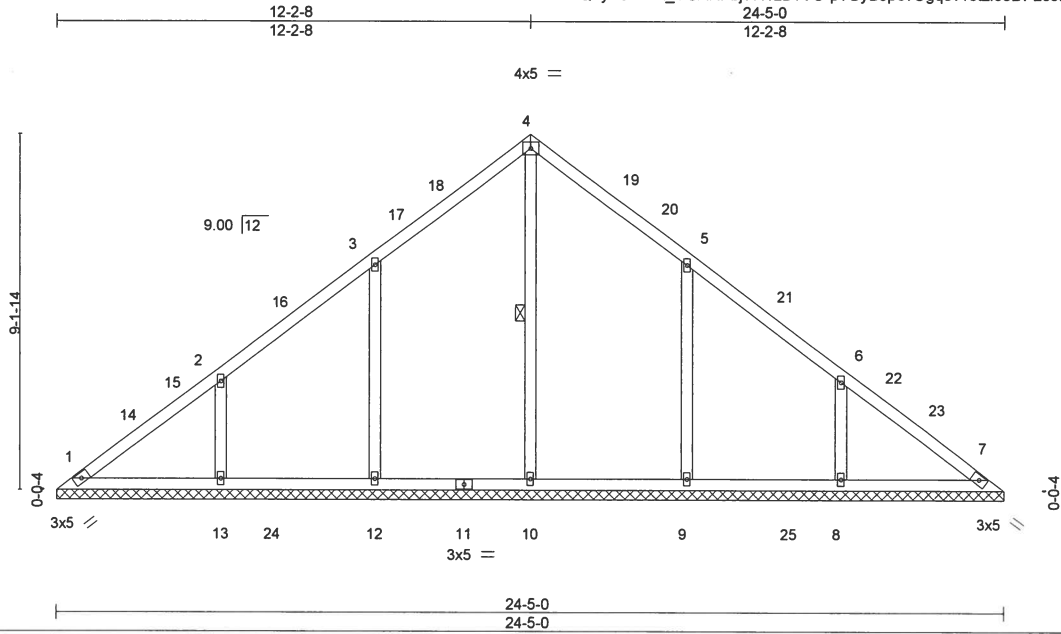


Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144359
FPC_8_Unit_Roof	V03	GABLE	1	1		

Carter Lumber Company, Spartanburg, SC - 29301,

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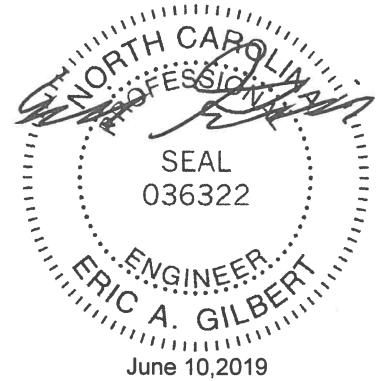
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.48	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.21	Vert(LL) n/a - n/a 999		
TCDL 15.0	Lumber DOL 1.15	WB 0.22	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 7 n/a n/a		
BCDL 15.0	Code IBC2015/TPI2014			Weight: 117 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2 *Except* 2-13,6-8: 2x4 SP No.3	WEBS 1 Row at midpt 4-10

REACTIONS. All bearings 24-5-0.
 (lb) - Max Horz 1=215(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) except 12=159(LC 14), 13=164(LC 14), 9=159(LC 14), 8=164(LC 14)
 Max Grav All reactions 250 lb or less at joint(s) except 1=361(LC 37), 7=361(LC 43), 10=441(LC 23), 12=554(LC 23), 13=520(LC 38), 9=553(LC 24), 8=520(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-10=-286/0, 3-12=-383/208, 2-13=-387/208, 5-9=-383/208, 6-8=-387/208

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 12-2-8, Exterior(2) 12-2-8 to 15-2-8, Interior(1) 15-2-8 to 23-11-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.6 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 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 = 15.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 159 lb uplift at joint 12, 164 lb uplift at joint 13, 159 lb uplift at joint 9 and 164 lb uplift at joint 8.
 - 9) This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

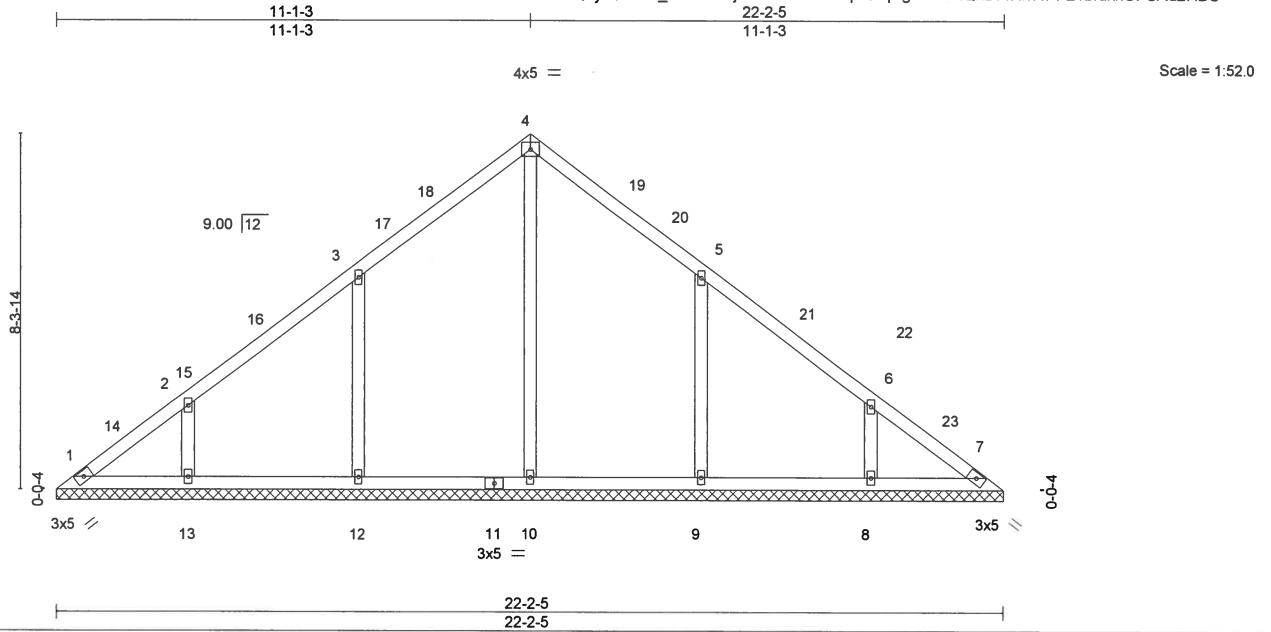


Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144360
FPC_8_Unit_Roof	V04	GABLE	1	1		

Carter Lumber Company, Spartanburg, SC - 29301,

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.47	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.24	Vert(LL) n/a - n/a 999		
TCDL 15.0	Lumber DOL 1.15	WB 0.32	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 7 n/a n/a		
BCDL 15.0	Code IBC2015/TPI2014			Weight: 104 lb	FT = 20%

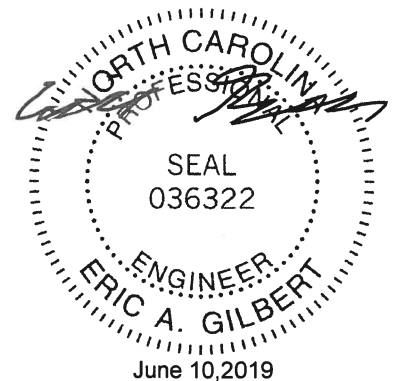
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3 *Except*
 4-10: 2x4 SP No.2

BRACING-
 TOP CHORD Sheathed or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 22-2-5.
 (lb) - Max Horz 1=195(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 12=166(LC 14), 13=138(LC 14), 9=166(LC 14), 8=138(LC 14)
 Max Grav All reactions 250 lb or less at joint(s) except 1=327(LC 37), 7=327(LC 43), 10=448(LC 23), 12=511(LC 39), 13=479(LC 38), 9=511(LC 41), 8=479(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-10=-284/0, 3-12=-388/216, 2-13=-367/179, 5-9=-388/216, 6-8=-367/179

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 11-1-3, Exterior(2) 11-1-3 to 14-1-3, Interior(1) 14-1-3 to 21-9-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.6 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 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 = 15.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 12=166, 13=138, 9=166, 8=138.
 - 9) This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

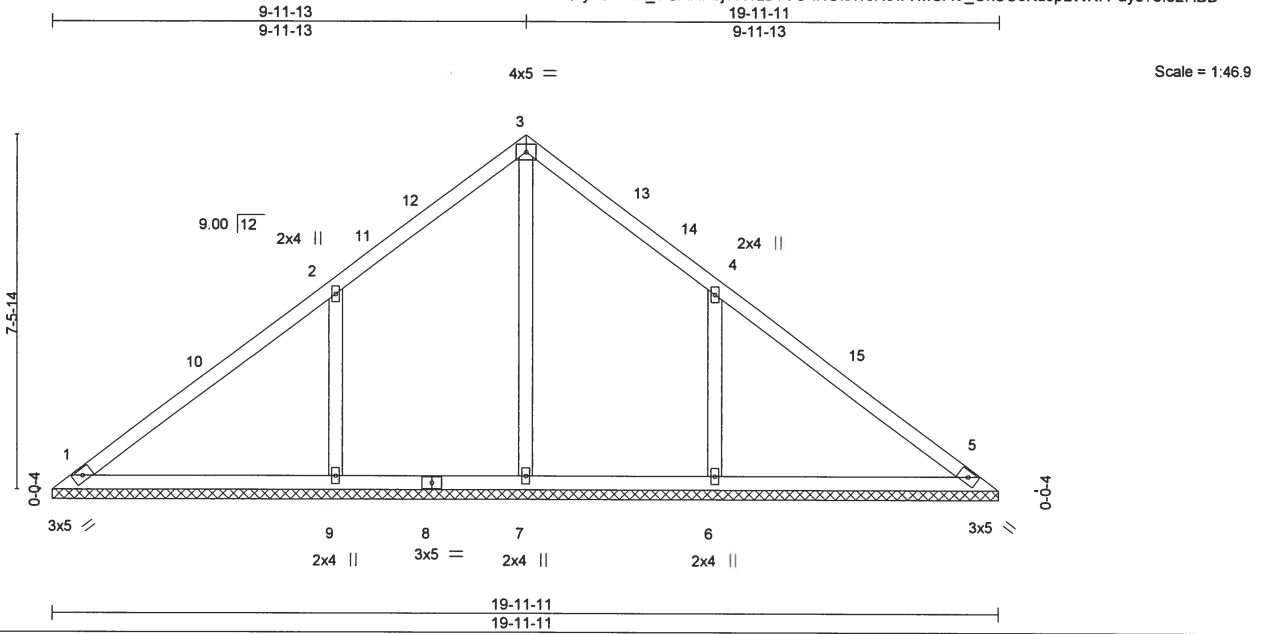
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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.

ENGINEERING BY
TRENCO
 A MiTek Affiliates

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144361
FPC_8_Unit_Roof	V05	GABLE	1	1		

Carter Lumber Company, Spartanburg, SC - 29301, 8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:30 2019 Page 1
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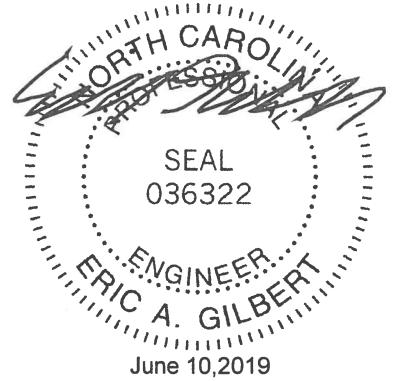
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	n/a	-	n/a		
TCDL	15.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.00	5	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-S							
BCDL	15.0									Weight: 87 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Sheathed or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3 *Except* 3-7: 2x4 SP No.2		

REACTIONS. All bearings 19-11-11.
 (lb) - Max Horz 1=175(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) except 9=229(LC 14), 6=229(LC 14)
 Max Grav All reactions 250 lb or less at joint(s) except 1=403(LC 35), 5=403(LC 39), 7=369(LC 23), 9=682(LC 23), 6=682(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-7=-264/10, 2-9=-484/283, 4-6=-484/283

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 9-11-13, Exterior(2) 9-11-13 to 12-11-13, Interior(1) 12-11-13 to 19-6-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.6 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - Gable requires continuous bottom chord bearing.
 - 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 will fit between the bottom chord and any other members, with BCDL = 15.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 9 and 229 lb uplift at joint 6.
 - This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

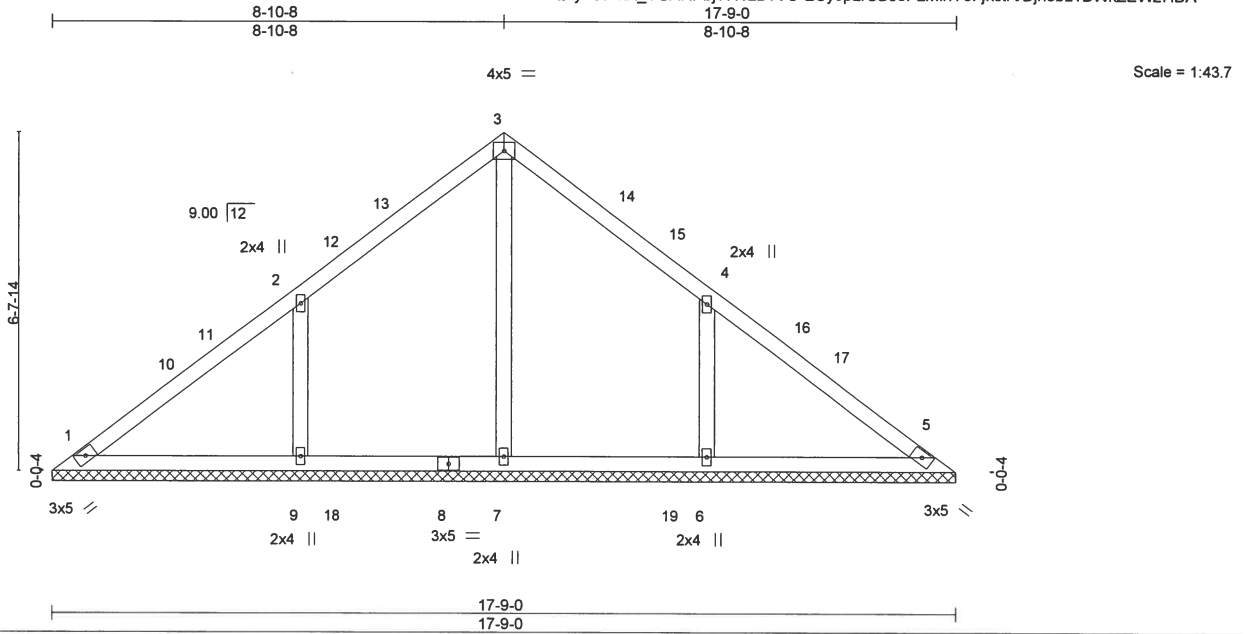


Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144362
FPC_8_Unit_Roof	V06	GABLE	1	1		

Carter Lumber Company, Spartanburg, SC - 29301,

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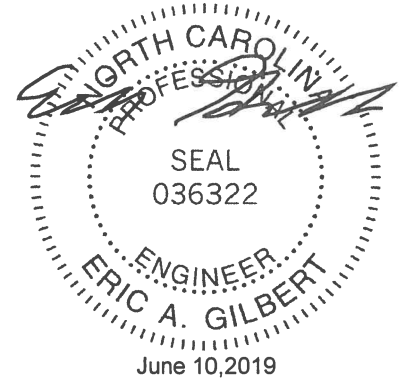
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.56	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.22	Vert(LL) n/a - n/a 999		
TCDL 15.0	Lumber DOL 1.15	WB 0.19	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
BCDL 15.0	Code IBC2015/TPI2014			Weight: 76 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3 *Except* 3-7: 2x4 SP No.2	

REACTIONS. All bearings 17-9-0.
 (lb) - Max Horz 1=154(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) except 9=195(LC 14), 6=195(LC 14)
 Max Grav All reactions 250 lb or less at joint(s) except 1=376(LC 35), 5=376(LC 39), 7=410(LC 23), 9=568(LC 23), 6=568(LC 24)

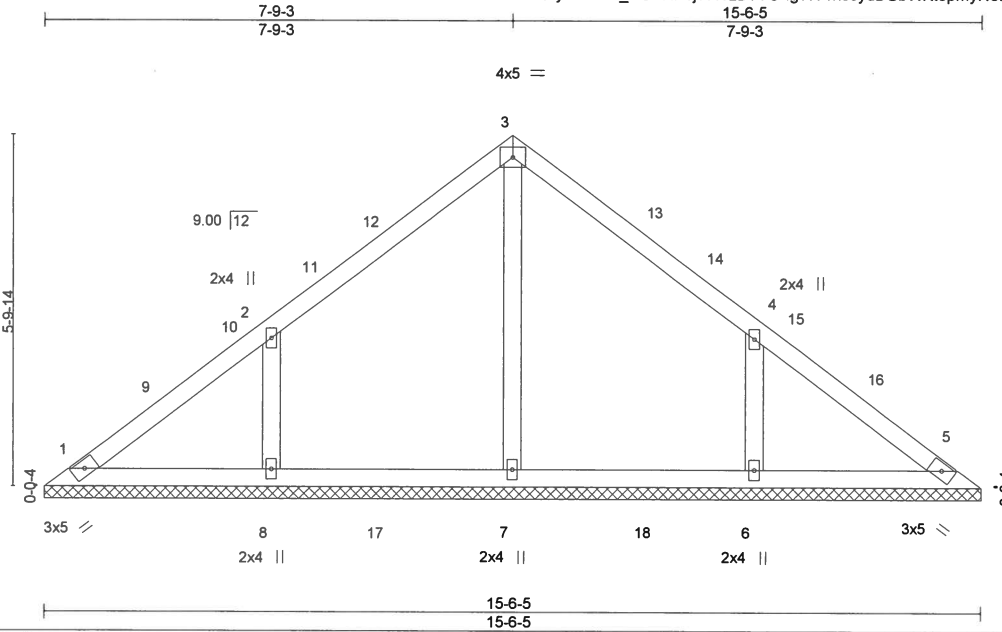
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-7=-276/0, 2-9=-413/242, 4-6=-413/242

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 8-10-8, Exterior(2) 8-10-8 to 11-10-8, Interior(1) 11-10-8 to 17-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.6 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - Gable requires continuous bottom chord bearing.
 - 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 will fit between the bottom chord and any other members, with BCDL = 15.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 195 lb uplift at joint 9 and 195 lb uplift at joint 6.
 - This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.



Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144363
FPC_8_Unit_Roof	V07	GABLE	1	1		

Carter Lumber Company, Spartanburg, SC - 29301, 8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:32 2019 Page 1
 ID:vEQ8yXJsehX_YGARpbjvWvzB7VO-igWT1hs6ydBGBWk6pmyH3P1id4So2HAQAU6nyz7IB9



Scale = 1:36.8

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.47	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.19	Vert(LL) n/a - n/a 999		
TCDL 15.0	Lumber DOL 1.15	WB 0.15	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
BCDL 15.0	Code IBC2015/TP12014			Weight: 65 lb	FT = 20%

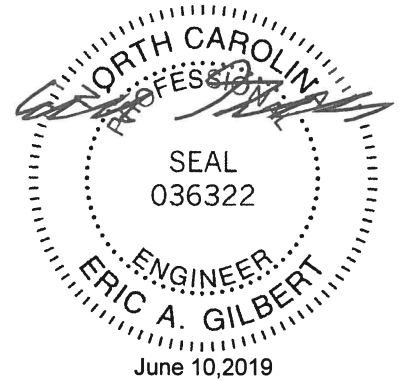
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3 *Except*
 3-7: 2x4 SP No.2

BRACING-
 TOP CHORD Sheathed or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-6-5.
 (lb) - Max Horz 1=-134(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) except 8=-167(LC 14), 6=-167(LC 14)
 Max Grav All reactions 250 lb or less at joint(s) except 1=346(LC 35), 5=346(LC 39), 7=414(LC 23), 8=512(LC 36), 6=512(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-7=-284/0, 2-8=-388/210, 4-6=-388/210

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 7-9-3, Exterior(2) 7-9-3 to 10-9-3, Interior(1) 10-9-3 to 15-1-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15; Pg=15.0 psf (ground snow); Pf=11.6 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15; Category II; Exp C; Partially Exp.; Ct=1.10
 - Gable requires continuous bottom chord bearing.
 - 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 will fit between the bottom chord and any other members, with BCDL = 15.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 167 lb uplift at joint 8 and 167 lb uplift at joint 6.
 - This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.



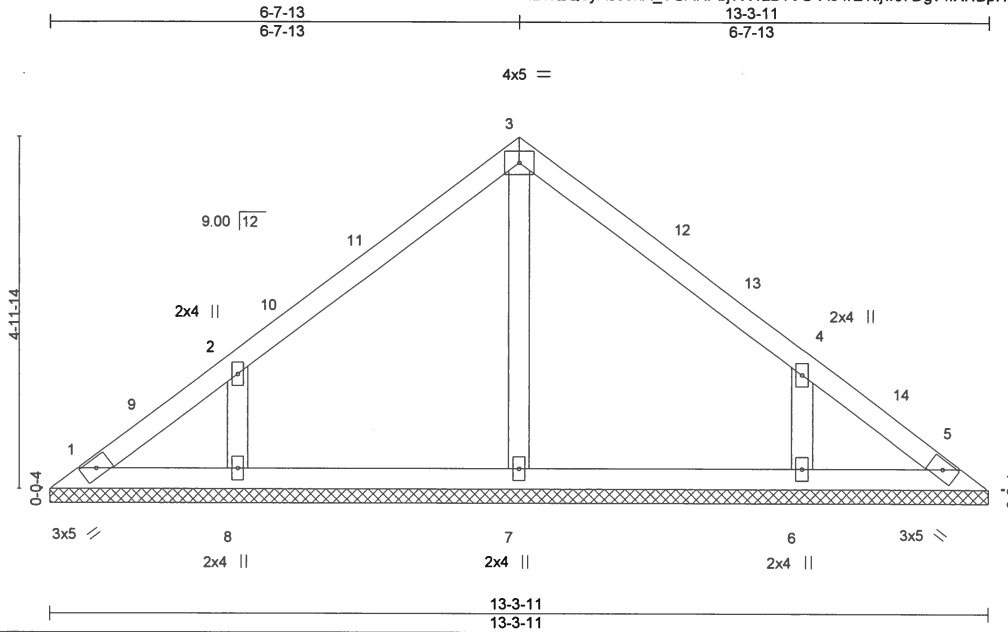
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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/TP1 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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Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144364
FPC_8_Unit_Roof	V08	GABLE	1	1		

Carter Lumber Company, Spartanburg, SC - 29301,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:33 2019 Page 1
ID:vEQ8yXJsehX_YGARpbjvWvzB?VO-As4rE1tjwJ7Dgv4fXHBpHyCc1Q3XVzKfqDgJ0z7I88



Scale = 1:31.5

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2'-0-0	TC 0.46	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.17	Vert(LL) n/a - n/a 999		
TCDL 15.0	Lumber DOL 1.15	WB 0.12	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
BCDL 15.0	Code IBC2015/TPI2014			Weight: 54 lb	FT = 20%

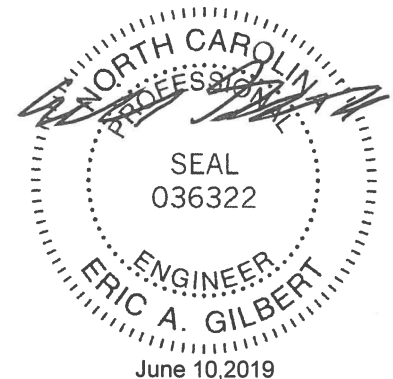
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 6'-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.

REACTIONS. All bearings 13-3-11.
(lb) - Max Horz 1=114(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=147(LC 14), 6=147(LC 14)
Max Grav All reactions 250 lb or less at joint(s) except 1=310(LC 35), 5=310(LC 39), 7=410(LC 37), 8=477(LC 36), 6=477(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-7=283/1, 2-8=373/188, 4-6=373/188

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 6-7-13, Exterior(2) 6-7-13 to 9-7-13, Interior(1) 9-7-13 to 12-10-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.6 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - Gable requires continuous bottom chord bearing.
 - 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" tall by 2'-0" wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=147, 6=147.
 - This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

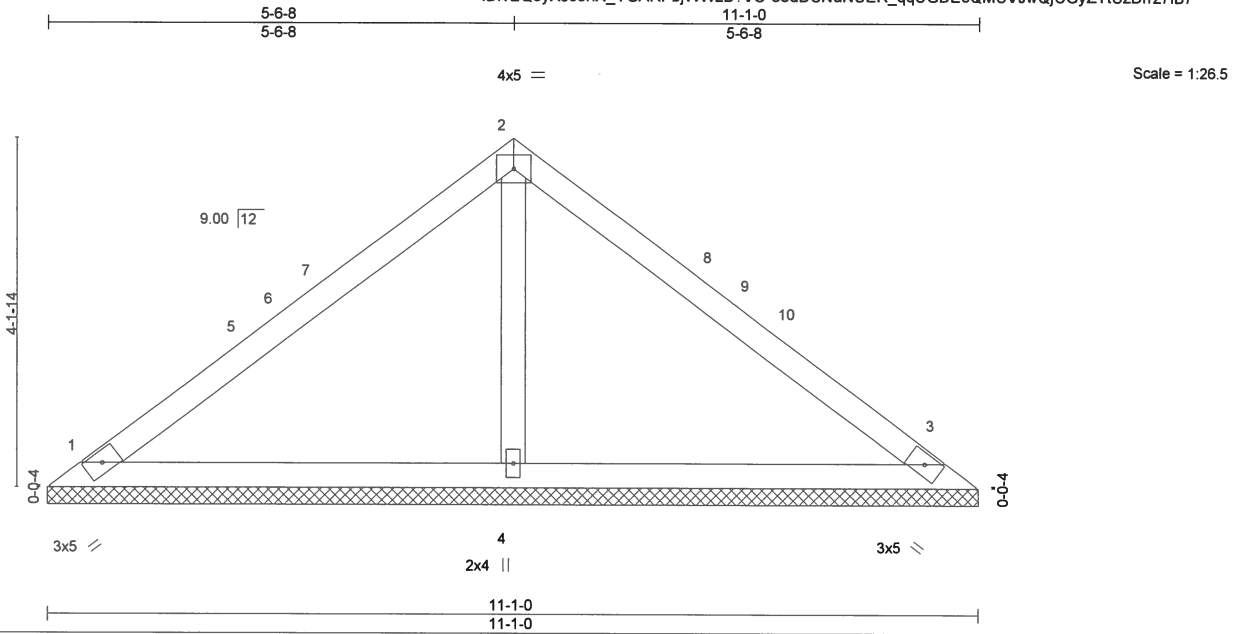
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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.

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Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144365
FPC_8_Unit_Roof	V09	GABLE	1	1		

Carter Lumber Company, Spartanburg, SC - 29301, 8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:34 2019 Page 1
 ID:vEQ8yXJsehX_YGARPbjvWvzB?VO-e3dDSNuNUER_qqUGDEoQMUVJwQjCgYzTtUzDrrz7IB7



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	n/a	-	n/a		
TCDL	15.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	3	n/a		
BCLL	0.0	Code IBC2015/TPI2014		Matrix-S						Weight: 41 lb	FT = 20%
BCDL	15.0										

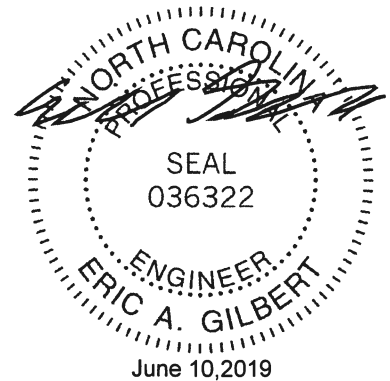
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Sheathed or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=209/11-1-0, 3=209/11-1-0, 4=430/11-1-0
 Max Horz 1=93(LC 13)
 Max Uplift 1=-62(LC 14), 3=-62(LC 14), 4=-37(LC 14)
 Max Grav 1=404(LC 33), 3=404(LC 35), 4=523(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-325/91

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 5-6-8, Exterior(2) 5-6-8 to 8-6-8, Interior(1) 8-6-8 to 10-7-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15; Pg=15.0 psf (ground snow); Pf=11.6 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15; Category II; Exp C; Partially Exp.; Ct=1.10
 - Gable requires continuous bottom chord bearing.
 - 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 will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
 - This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.



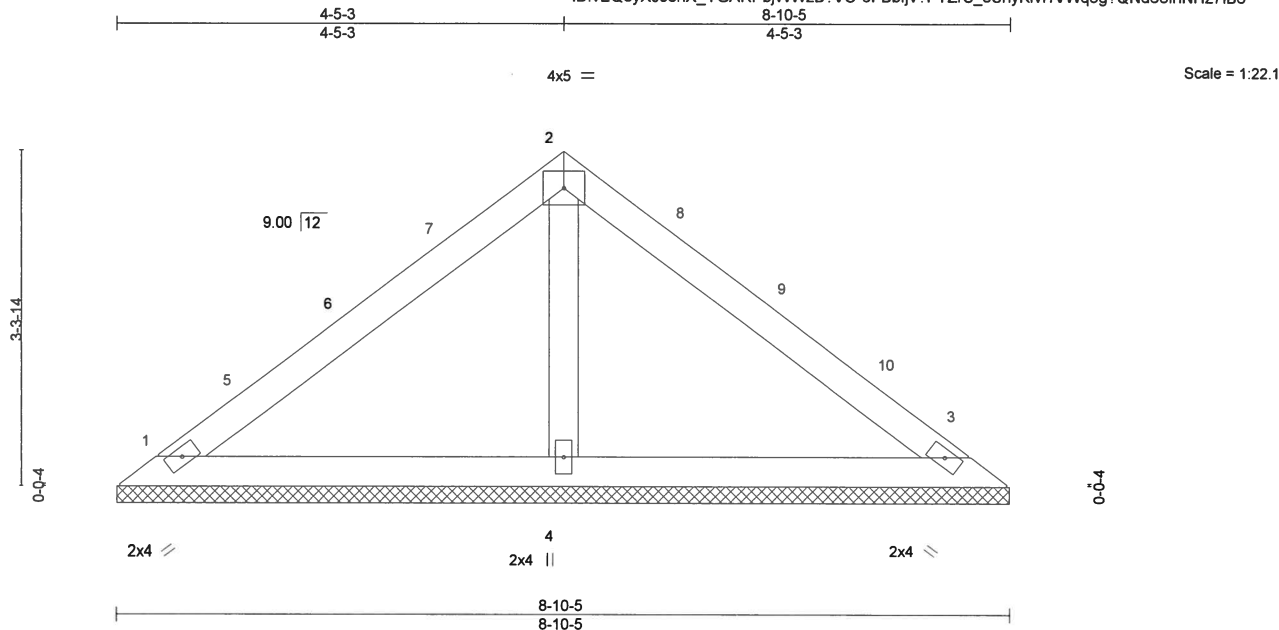
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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.

ENGINEERING BY
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Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144366
FPC_8_Unit_Roof	V10	GABLE	1	1		

Carter Lumber Company, Spartanburg, SC - 29301,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:35 2019 Page 1
ID:vEQ8yXJsehX_YGARPbjvWvzB?VO-6FBbfjv?FYZrS_3SnyKfvi1VWq5g?QNd68inNHZ7IB6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.69	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.22	Vert(LL) n/a - n/a 999		
TCDL 15.0	Lumber DOL 1.15	WB 0.06	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
BCDL 15.0	Code IBC2015/TPI2014			Weight: 32 lb	FT = 20%

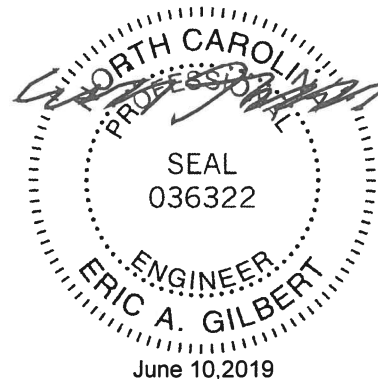
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=176/8-10-5, 3=176/8-10-5, 4=312/8-10-5
Max Horz 1=-73(LC 12)
Max Uplift 1=-62(LC 14), 3=-62(LC 14), 4=-2(LC 14)
Max Grav 1=379(LC 33), 3=379(LC 35), 4=440(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-290/71

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=35ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 4-5-3, Exterior(2) 4-5-3 to 7-5-3, Interior(1) 7-5-3 to 8-5-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.6 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - Gable requires continuous bottom chord bearing.
 - 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 will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
 - This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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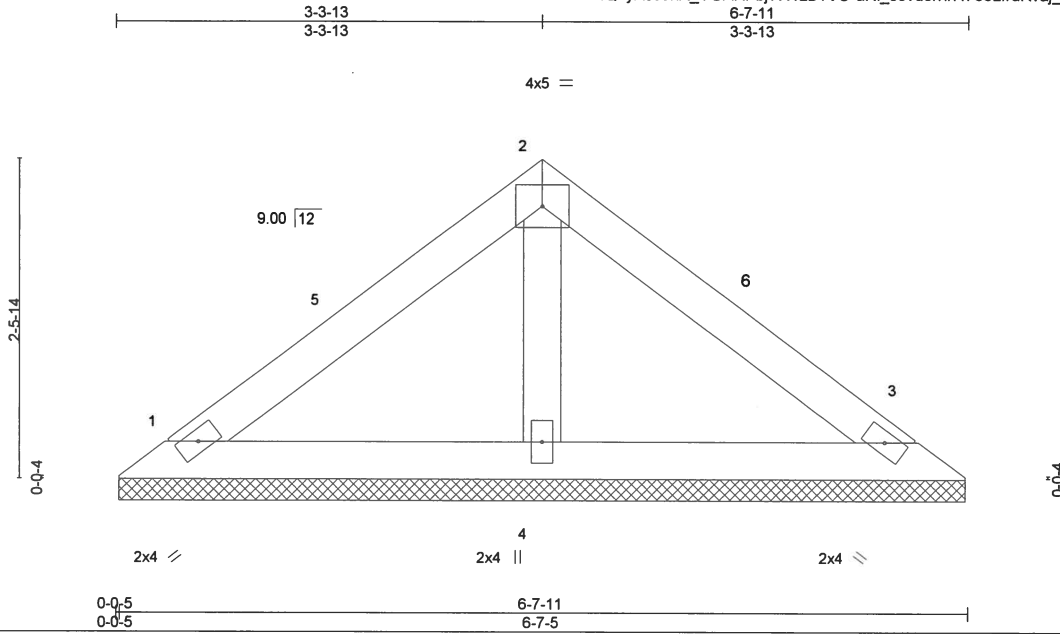
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Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144367
FPC_8_Unit_Roof	V11	Valley	1	1		

Carter Lumber Company, Spartanburg, SC - 29301,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:36 2019 Page 1
ID:vEQ8yXJsehX_YGARPbjvWvzB?VO-aRI_s3vd0rhh47eeLfruRvaj_ESZktumLoSKwjz7IB5



Scale = 1:17.3

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a		
TCDL	15.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-P						Weight: 23 lb	FT = 20%
BCDL	15.0										

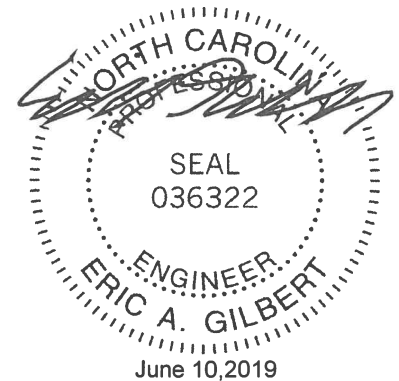
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=127/6-7-0, 3=127/6-7-0, 4=225/6-7-0
Max Horz 1=-53(LC 12)
Max Uplift 1=-45(LC 14), 3=-45(LC 14), 4=-1(LC 14)
Max Grav 1=346(LC 33), 3=346(LC 35), 4=373(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-265/58

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; VuIt=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=35ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.6 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - Gable requires continuous bottom chord bearing.
 - 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 will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
 - This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

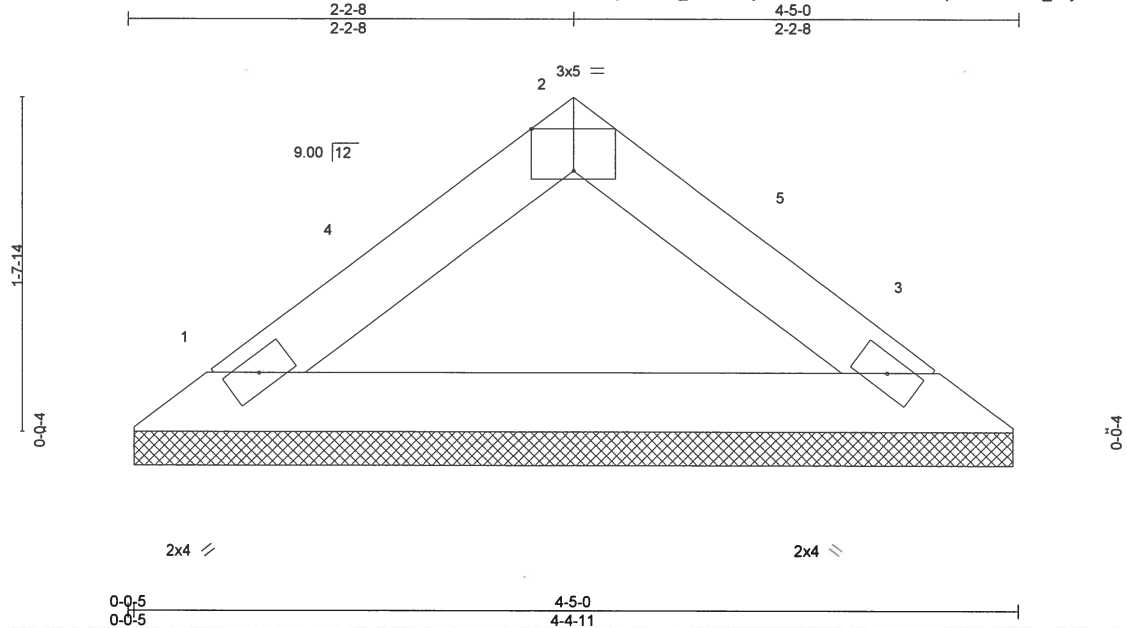
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FPC 8 Unit Bldg Roof	E13144368
FPC_8_Unit_Roof	V12	Valley	1	1		

Carter Lumber Company, Spartanburg, SC - 29301, 8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 10 07:59:37 2019 Page 1
 ID:vEQ8yXJsehX_YGARPbjvWvzB?VO-2dJM4OwFn9pYiHDruMM7_77y2emKTKovZSBtS9z7IB4



Scale = 1:11.0

Plate Offsets (X,Y)--	[2'-0-2'-8,Edge]								
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	2-0-0	TC	0.24	in (loc)	l/defl	L/d	
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.21	Vert(LL)	n/a	n/a	999
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Vert(CT)	n/a	n/a	999
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-P		Horz(CT)	0.00	3	n/a
BCDL	15.0								
									Weight: 13 lb FT = 20%

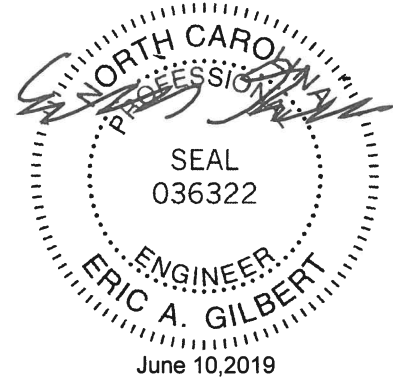
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2

BRACING-
 TOP CHORD Sheathed or 4-5-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=147/4-4-5, 3=147/4-4-5
 Max Horz 1=-32(LC 12)
 Max Uplift 1=-28(LC 14), 3=-28(LC 14)
 Max Grav 1=366(LC 33), 3=366(LC 35)

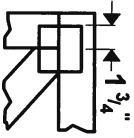
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-274/59, 2-3=-274/59

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=35ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCCL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.6 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - 8) This truss has been designed for a moving concentrated load of 250.0lb live and 10.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

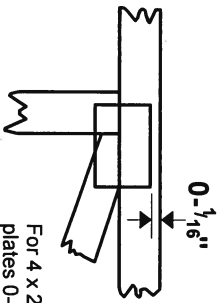


Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MITtek 2020 software or upon request.

PLATE SIZE

4 X 4

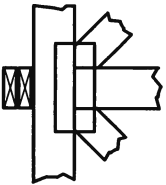
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

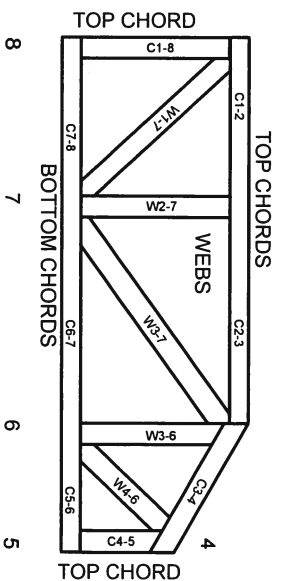


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 section 6.3. These truss designs rely on lumber values established by others.

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MITtek Engineering Reference Sheet, MIL-7473 rev. 10/03/2015

General Safety Notes

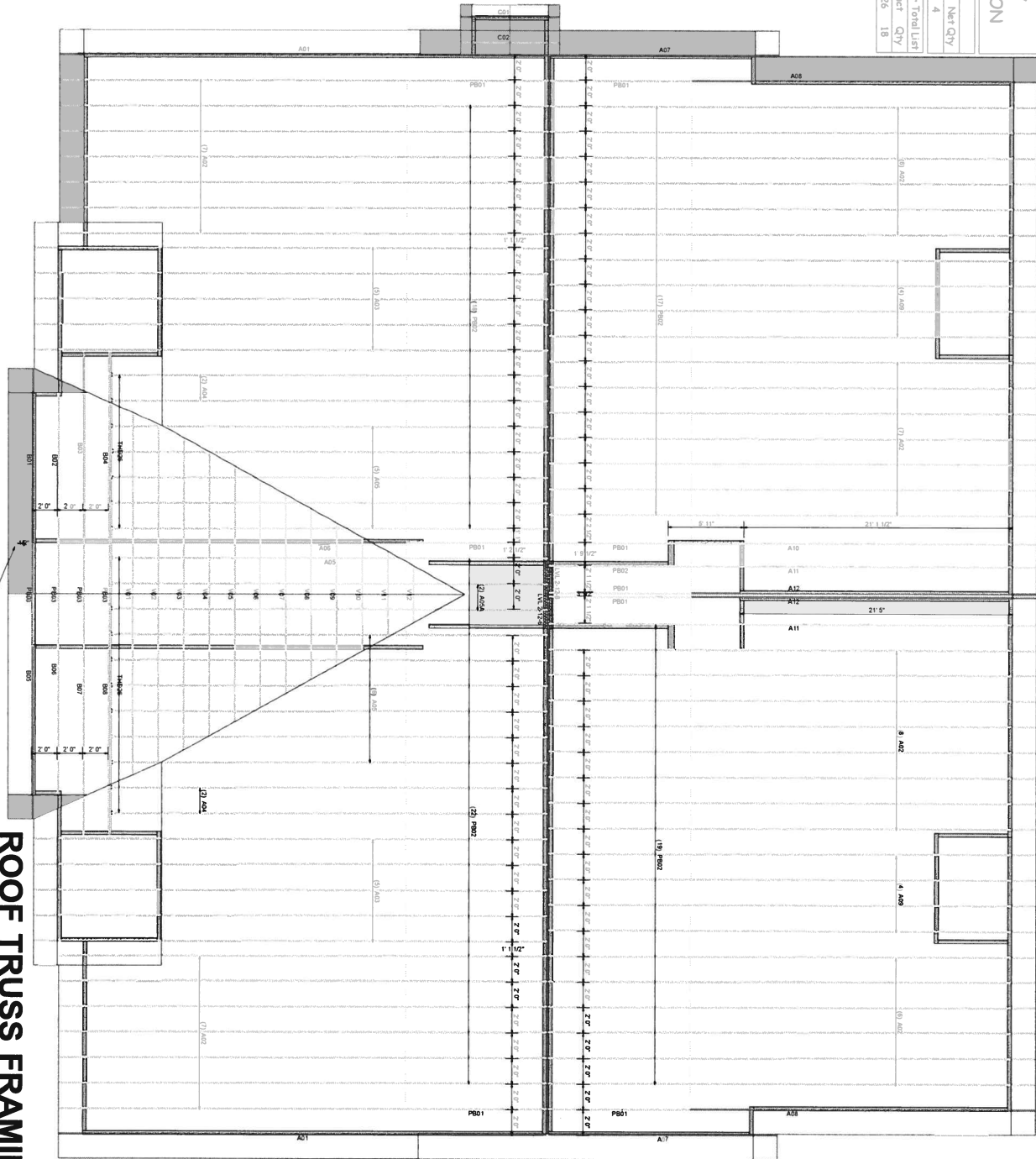
Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. It is the builder's responsibility to verify that the structure can support the entire roof or floor truss system. See engineered drawings for required lateral bracing and other information for each truss design identified on this placement drawing. The building designer is responsible for permanent bracing of the roof and floor system and for the overall structure. For general guidance regarding bracing, consult the RCSI-BI SUMMARY SHEET, provided by Kempsville Building Materials. THE BUILDER IS CAUTIONED to seek professional advice or follow the bracing guidelines of RCSI-BI while installing the trusses in order to prevent toppling or dominoing of inadequately braced trusses.

LAYOUT FOR APPROVAL ONLY
DO NOT USE FOR CONSTRUCTION

Florida	Length	Product	Plates	Net Qty
LVL 2-12-6	6'-0"	2.0 Bigdram LVL 1-3/4 x 11-7/8	2	4
Truss Connector Total List				
Manuf	Product	Total Qty		
USP	TH-226	18		



ROOF TRUSS FRAMING

DRAWING SCALE : NTS

ANDERSON CREEK PARTNERS
FAIRWAY POINTE CONDOS
8 UNIT BLDG - ROOF



REVISIONS	DATE	BY	RM

PROJECT NUMBER	MF-1900123
SHEET NUMBER	1 / 1