

RE: DAVID GARAGE RIGHT
 ON TOP BLDRS/DAVID GARAGE RIGHT

Trenco
 818 Soundside Rd
 Edenton, NC 27932

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

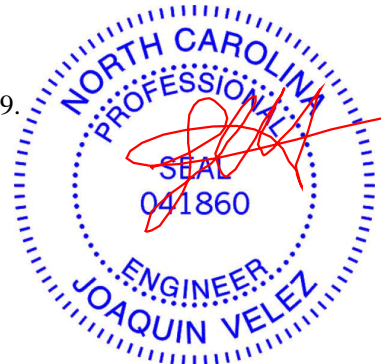
Design Code: IRC2015/TPI2014
 Wind Code: ASCE 7-10
 Roof Load: 40.0 psf

Design Program: MiTek 20/20 8.2
 Wind Speed: 115 mph
 Floor Load: N/A psf

This package includes 34 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T16179351	a01	2/4/2019	28	T16179378	v02g	2/4/2019
2	T16179352	a02	2/4/2019	29	T16179379	v03c	2/4/2019
3	T16179353	b01	2/4/2019	30	T16179380	v03e	2/4/2019
4	T16179354	b02	2/4/2019	31	T16179381	v03g	2/4/2019
5	T16179355	b03	2/4/2019	32	T16179382	v04c	2/4/2019
6	T16179356	b04	2/4/2019	33	T16179383	v04e	2/4/2019
7	T16179357	b05	2/4/2019	34	T16179384	v05e	2/4/2019
8	T16179358	b06	2/4/2019				
9	T16179359	b06a	2/4/2019				
10	T16179360	b07	2/4/2019				
11	T16179361	b08	2/4/2019				
12	T16179362	b09	2/4/2019				
13	T16179363	c01	2/4/2019				
14	T16179364	c02	2/4/2019				
15	T16179365	c03	2/4/2019				
16	T16179366	c04	2/4/2019				
17	T16179367	d01	2/4/2019				
18	T16179368	e01	2/4/2019				
19	T16179369	e02	2/4/2019				
20	T16179370	e03	2/4/2019				
21	T16179371	g01	2/4/2019				
22	T16179372	g02	2/4/2019				
23	T16179373	v01c	2/4/2019				
24	T16179374	v01e	2/4/2019				
25	T16179375	v01g	2/4/2019				
26	T16179376	v02c	2/4/2019				
27	T16179377	v02e	2/4/2019				

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Stock Building Supply. Truss Design Engineer's Name: Velez, Joaquin My license renewal date for the state of North Carolina is December 31, 2019. North Carolina COA: C-0844



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

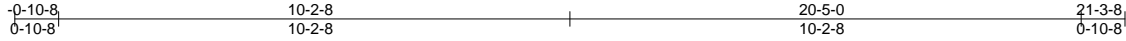
February 04, 2019

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179351
DAVID GARAGE RIGHT	A01	GABLE	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:13 2019 Page 1

ID:LUFQRqX26VNYc9KvTXCGk3ydhzD-aVaDcXcN6LNShOxpz?eDyHzFKwOMqTbUnN2w25zoZDe



5x6 =

Scale = 1:46.0

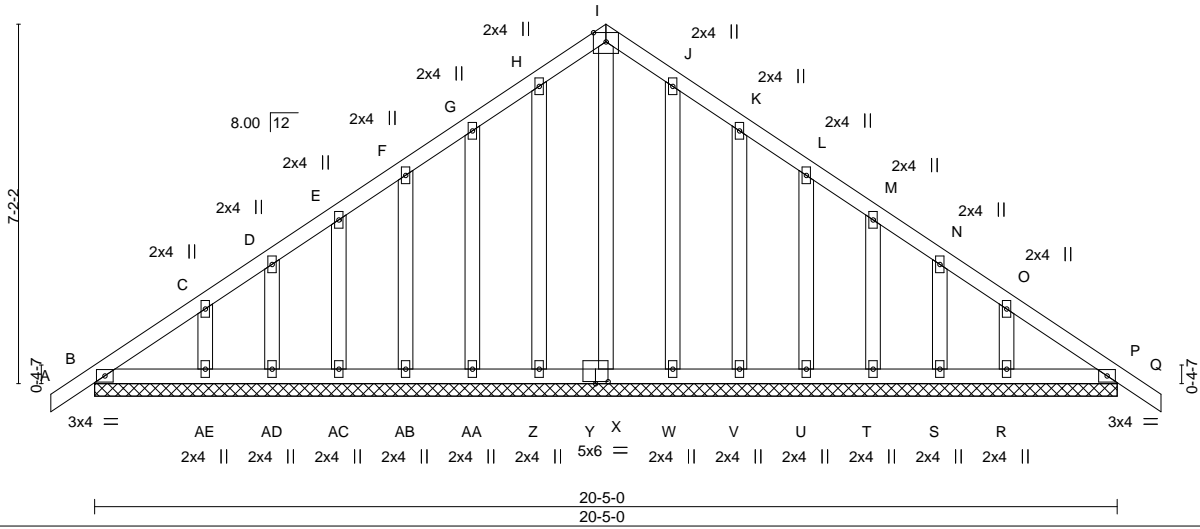


Plate Offsets (X,Y)-- [X:0-1-12,0-0-0], [Y:0-3-0,0-0-8], [Y:0-0-0,0-1-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.04	Vert(LL)	-0.00	P	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	P	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	P	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.00	P	n/r	Weight: 143 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 OTHERS 2x4 SP No.2

BRACING-

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

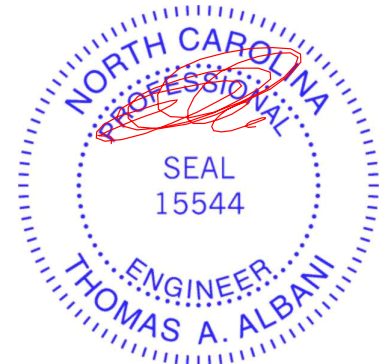
REACTIONS.

All bearings 20-5-0.
 (lb) - Max Horz B=143(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) B, Z, AA, AB, AC, AD, AE, W, V, U, T, S, R
 Max Grav All reactions 250 lb or less at joint(s) B, X, Z, AA, AB, AC, AD, AE, W, P, V, U, T, S, R

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

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=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 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) B, Z, AA, AB, AC, AD, AE, W, V, U, T, S, R.



February 4, 2019

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.



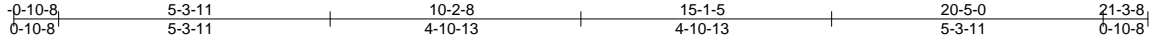
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179352
DAVID GARAGE RIGHT	A02	Common	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:14 2019 Page 1

ID:LufQRqX26VNYc9KvTXCGk3ydhzD-2h8bptc?teVJJYV?Xi9SUUWMkKfmZvSd?1oUaXzoZDd



5x6 =

Scale = 1:45.0

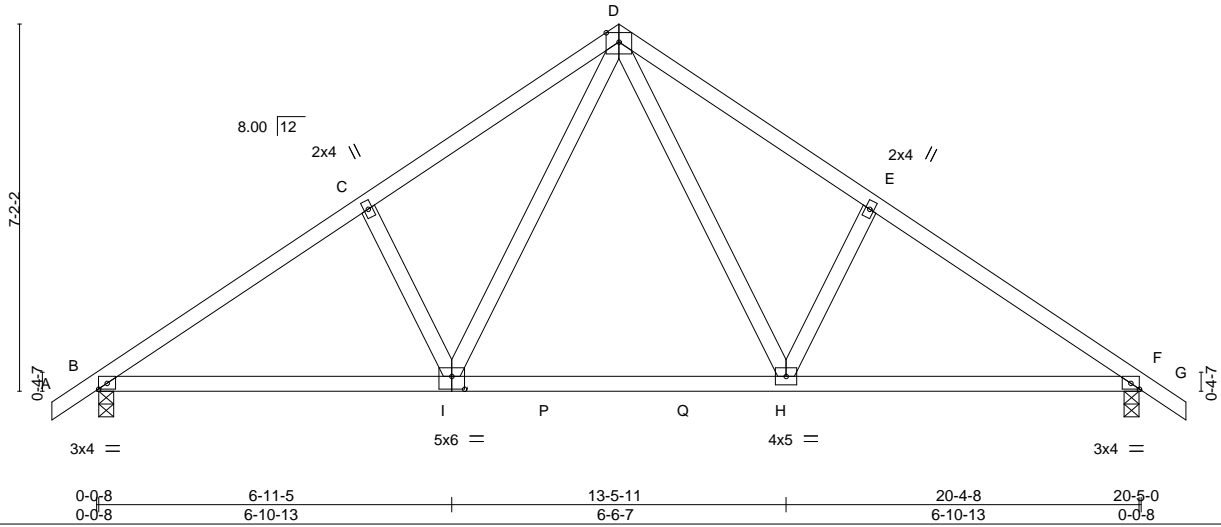


Plate Offsets (X,Y)-- [1:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.25	Vert(LL)	-0.07	H-I	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.33	Vert(CT)	-0.11	I-L	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.11	Horz(CT)	0.02	F	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS					Weight: 103 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) B=869/0-3-8, F=869/0-3-8
 Max Horz B=-143(LC 8)
 Max Uplift B=-28(LC 10), F=-28(LC 11)

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

TOP CHORD B-C=-1163/99, C-D=-1058/151, D-E=-1058/151, E-F=-1163/99
 BOT CHORD B-I=-49/988, H-I=0/640, F-H=0/928
 WEBS D-H=-61/512, E-H=-296/145, D-I=-61/512, C-I=-296/145

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=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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 = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, F.



February 4, 2019

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	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179353
DAVID GARAGE RIGHT	B01	GABLE	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:15 2019 Page 1

ID:LufQRqX26VNYc9KvTXCGk3ydhzD-Wuiz1DddehyAxi4C5Qgh1i3Xrj?viMlnEhX16_zoZDc



5x6 =

Scale = 1:63.0

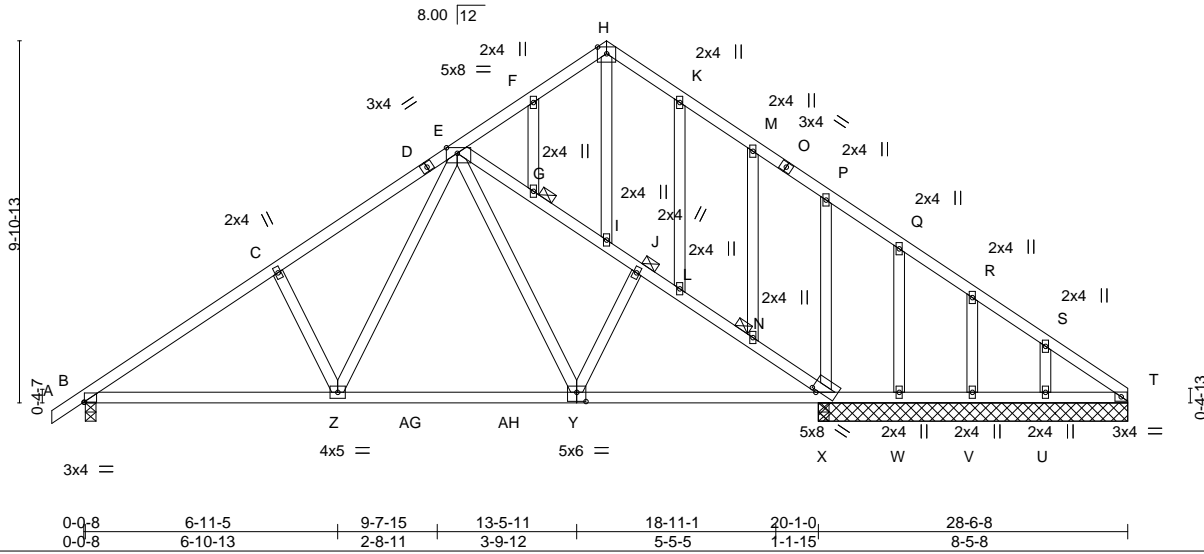


Plate Offsets (X,Y)-- [B:0-0-3,0-0-0], [E:0-3-9,Edge], [X:0-1-13,0-0-11], [Y:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.23	Vert(LL) -0.07	Y-Z	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.34	Vert(CT) -0.11	Z-AC	>999	180		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.11	Horz(CT) 0.03	AD	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS					Weight: 194 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 WEBS 2x4 SP No.2
 OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-11 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): J, G, N

REACTIONS.

All bearings 8-5-8 except (jt=length) B=0-3-8.
 (lb) - Max Horz B=192(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) B, X, W, V, U
 Max Grav All reactions 250 lb or less at joint(s) W, V, U, T, T except B=892(LC 1), X=874(LC 1), X=874(LC 1)

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

TOP CHORD B-C=-1202/40, C-E=-1116/91, Q-R=-252/28, R-S=-275/42, S-T=-296/77, E-G=-768/81,
 G-I=-795/96, I-J=-774/88, J-L=-769/83, L-N=-802/108, N-X=-838/130
 BOT CHORD B-Z=-81/1086, Y-Z=-4/747, X-Y=0/861
 WEBS E-Z=-53/501, C-Z=-280/137, E-Y=0/290

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=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, X, W, V, U.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 4, 2019

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	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179354
DAVID GARAGE RIGHT	B02	Roof Special	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:17 2019 Page 1

ID:LUFQRqX26VNYc9KvTXCGk3ydhzD-SGqkRvfAZtA0EaCrj9678oZXbamEU4h?08BszoZDa



5x6 =

Scale = 1:61.7

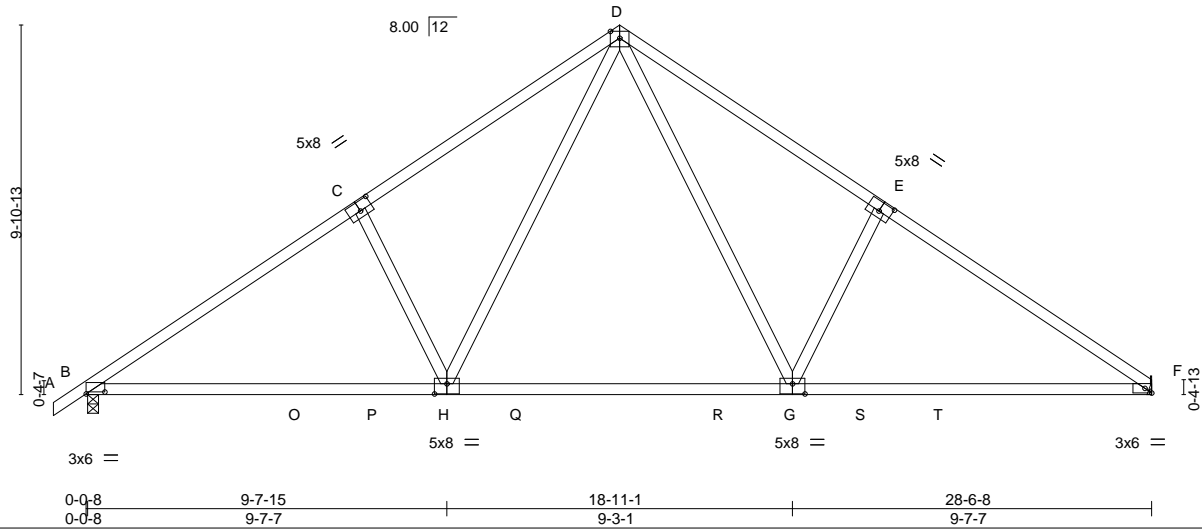


Plate Offsets (X, Y)-- [B:0-6-0,0-0-10], [C:0-4-0,0-3-0], [E:0-4-0,0-3-0], [G:0-4-0,0-3-4], [H:0-4-0,0-3-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.54	Vert(LL) -0.26	G-H	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.71	Vert(CT) -0.40	H-K	>866	180		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.22	Horz(CT) 0.04	F	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS					Weight: 142 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-2-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) B=1195/0-3-8, F=1141/Mechanical
 Max Horz B=192(LC 7)
 Max Uplift B=-34(LC 10), F=-21(LC 11)
 Max Grav B=1233(LC 17), F=1184(LC 18)

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

TOP CHORD B-C=-1719/144, C-D=-1604/215, D-E=-1601/217, E-F=-1716/146
 BOT CHORD B-H=-84/1506, G-H=0/964, F-G=-33/1368
 WEBS D-G=-87/808, E-G=-425/206, D-H=-85/813, C-H=-428/205

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; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, F.



February 4, 2019

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.



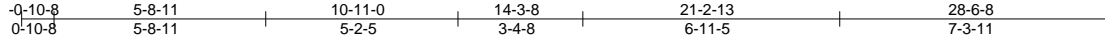
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179356
DAVID GARAGE RIGHT	B04	Roof Special	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:21 2019 Page 1

ID:LUFQRqX26VNYc9KvTXCGk3ydhzD-L13EHGiODoNjfdYLRgn5GzJU8zYi_efcd_LKdzoZDW



5x6 ||

Scale = 1:62.3

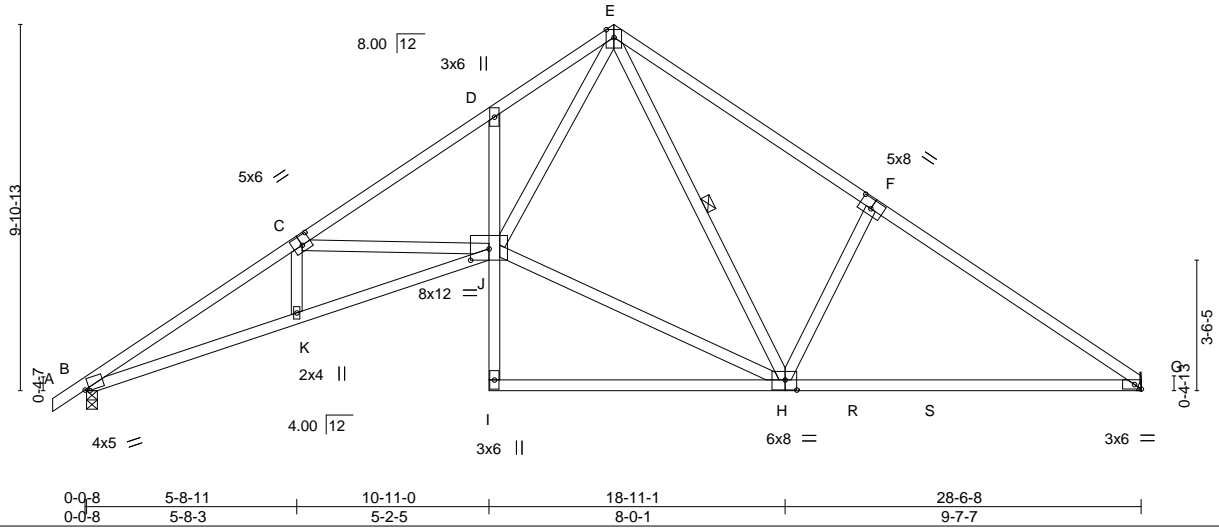


Plate Offsets (X,Y)-- [B:0-1-7,0-0-10], [C:0-3-0,0-3-0], [F:0-4-0,0-3-0], [H:0-3-12,0-3-4], [J:0-6-0,0-3-11]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.53	Vert(LL)	-0.18	H-N	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.64	Vert(CT)	-0.41	H-N	>830		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.47	Horz(CT)	0.23	G	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code IRC2015/TPI2014						Weight: 163 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS *Except*
 D-I: 2x4 SP No.2
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-3-11 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt E-H

REACTIONS. (lb/size) G=1141/Mechanical, B=1195/0-3-8
 Max Horz B=192(LC 7)
 Max Uplift G=-21(LC 11), B=-34(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-3168/156, C-D=-2512/119, D-E=-2429/201, E-F=-1499/219, F-G=-1650/147
 BOT CHORD B-K=-185/2719, J-K=-186/2719, G-H=-35/1317
 WEBS E-H=-189/286, C-J=-557/163, H-J=0/1165, E-J=-121/1923, F-H=-434/206

- 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; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Bearing at joint(s) B considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) G, B.



February 4, 2019

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	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179357
DAVID GARAGE RIGHT	B05	Roof Special	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:22 2019 Page 1

ID:LUFQRqX26VNYc9KvTXCGK3ydhzD-pEddVcj0_6WAHn7Y?OIKpArelYLNROlprHkvs4zoZDV



5x6 =

Scale = 1:62.3

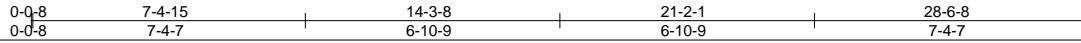
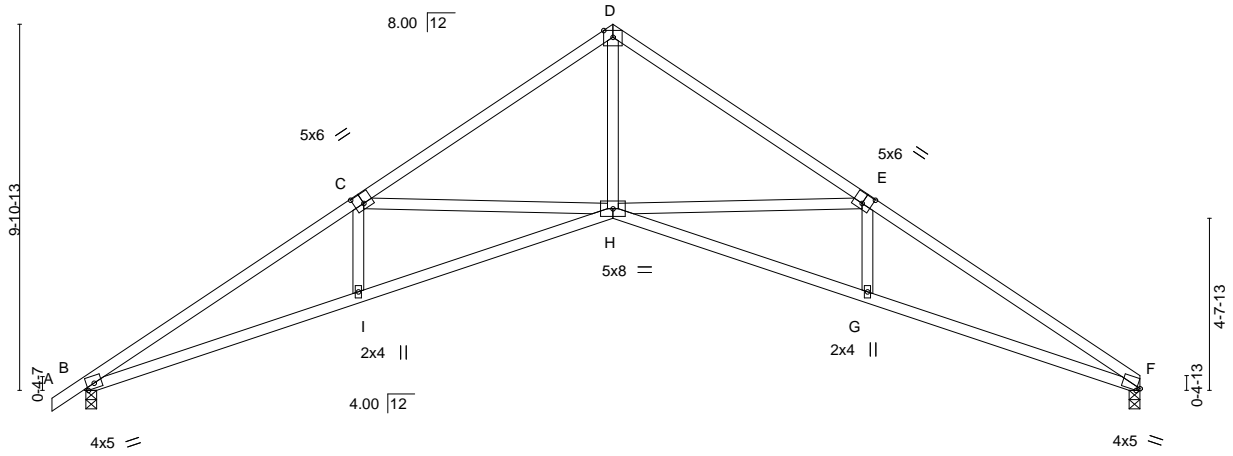


Plate Offsets (X,Y)-- [C:0-3-0,0-3-4], [E:0-3-0,0-3-4], [F:0-1-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.60	Vert(LL)	-0.21	G-H >999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.54	Vert(CT)	-0.46	G-H >746	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.70	Horz(CT)	0.39	F n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MS					Weight: 132 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-0-1 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) F=1141/0-3-8, B=1195/0-3-8
 Max Horz B=192(LC 7)
 Max Uplift F=-21(LC 11), B=-34(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-3101/150, C-D=-2143/82, D-E=-2143/82, E-F=-3094/153
 BOT CHORD B-I=-159/2643, H-I=-159/2636, G-H=-55/2629, F-G=-55/2635
 WEBS D-H=0/1864, E-H=-841/245, E-G=0/295, C-H=-839/237, C-I=0/298

- 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; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 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) Bearing at joint(s) F, B considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) F, B.



February 4, 2019

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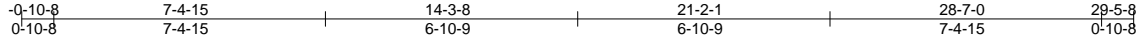
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179358
DAVID GARAGE RIGHT	B06	Roof Special	2	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:23 2019 Page 1

ID:LUFQRqX26VNYc9KvTXCGk3ydhzD-HQB?iyjelPe1uxikZ5qZMOOoLyhZaqNy4xTSOWzoZDU



5x6 =

Scale = 1:62.9

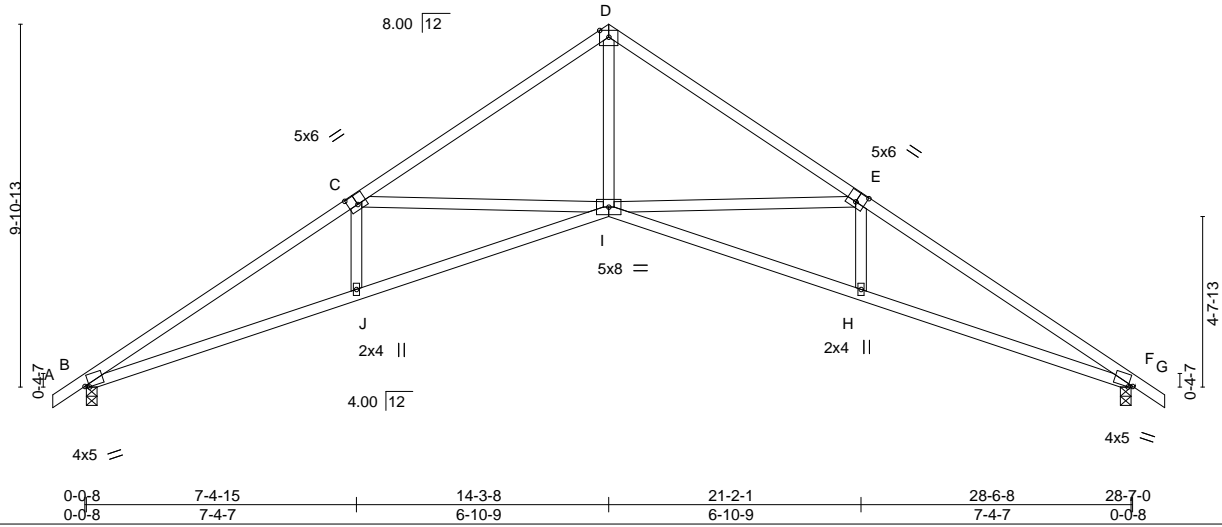


Plate Offsets (X,Y)-- [B:0-1-7,0-0-10], [C:0-3-0,0-3-4], [E:0-3-0,0-3-4], [F:0-1-7,0-0-10]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.64	Vert(LL)	-0.21	I-J	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.55	Vert(CT)	-0.46	I-J	>742		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.71	Horz(CT)	0.39	F	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS					Weight: 133 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) B=1196/0-3-8, F=1196/0-3-8
 Max Horz B=-196(LC 8)
 Max Uplift B=-33(LC 10), F=-33(LC 11)

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

TOP CHORD B-C=-3111/122, C-D=-2148/50, D-E=-2146/51, E-F=-3104/119
 BOT CHORD B-J=-147/2654, I-J=-144/2653, H-I=0/2638, F-H=0/2646
 WEBS D-I=0/1864, E-I=-846/244, E-H=0/298, C-I=-852/238, C-J=0/294

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=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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) B, F 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) B, F.



February 4, 2019

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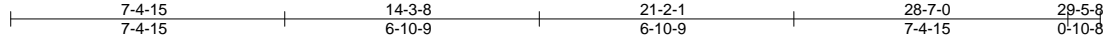


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179359
DAVID GARAGE RIGHT	B06A	ROOF SPECIAL	2	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:24 2019 Page 1
 ID:LUFQRqX26VNYc9KvTXCGk3ydhzD-lclNvIkGWjmuW5Gw7pLoubw_qM1rvli6IbD0xyzoZDT



5x6 =

Scale = 1:62.3

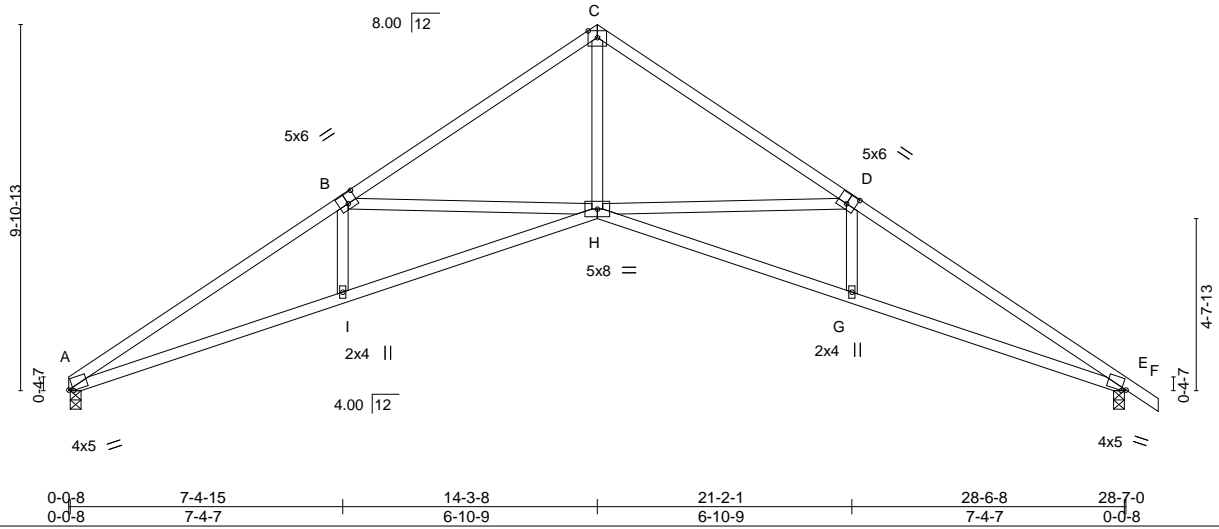


Plate Offsets (X,Y)-- [A:0-1-7,0-0-10], [B:0-3-0,0-3-4], [D:0-3-0,0-3-4], [E:0-1-7,0-0-10]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0 Plate Grip DOL 1.00	TC 0.60	Vert(LL) -0.21	G-H	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.54	Vert(CT) -0.46	G-H	>746	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.70	Horz(CT) 0.39	E	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS					Weight: 132 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-11-11 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

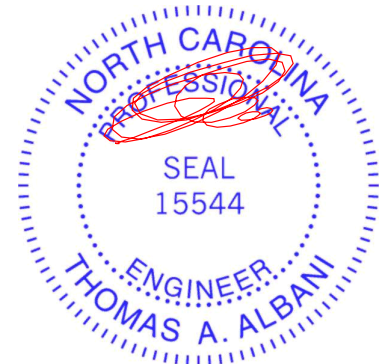
(lb/size) A=1143/0-3-8, E=1197/0-3-8
 Max Horz A=-192(LC 8)
 Max Uplift A=-21(LC 10), E=-34(LC 11)

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

TOP CHORD A-B=-3114/126, B-C=-2149/52, C-D=-2148/52, D-E=-3107/121
 BOT CHORD A-I=-146/2656, H-I=-145/2647, G-H=0/2641, E-G=0/2648
 WEBS C-H=0/1871, D-H=-847/244, D-G=0/298, B-H=-845/239, B-I=0/299

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=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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) A, E 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) A, E.



February 4, 2019

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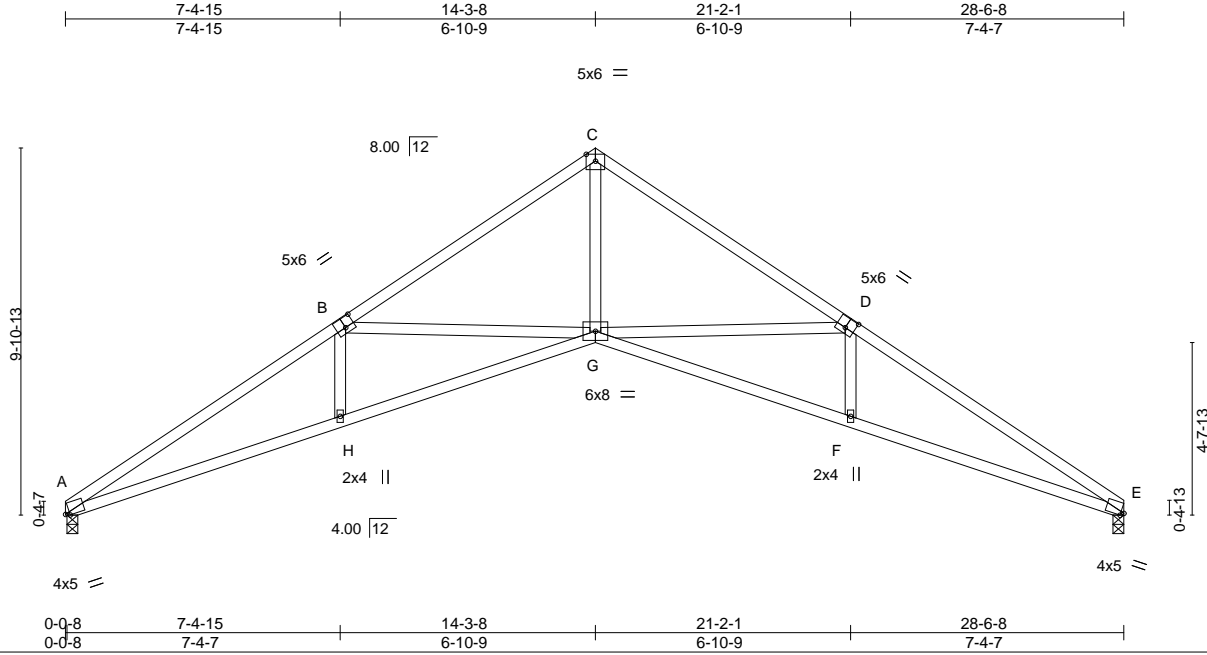


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179360
DAVID GARAGE RIGHT	B07	ROOF SPECIAL	4	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:25 2019 Page 1
 ID:LUFQRqX26VNYc9KvTXCGk3ydhzD-DpJl7eluh1ul8Er7gWs1RpT9SIN3el1FXFyZTPzoZDS



Scale = 1:62.1

Plate Offsets (X,Y)-- [A:0-1-7,0-0-10], [B:0-3-0,0-3-4], [D:0-3-0,0-3-4], [E:0-1-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.61	Vert(LL) -0.21	F-G	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.54	Vert(CT) -0.46	F-G	>743	180		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.70	Horz(CT) 0.39	E	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS					Weight: 130 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-11-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

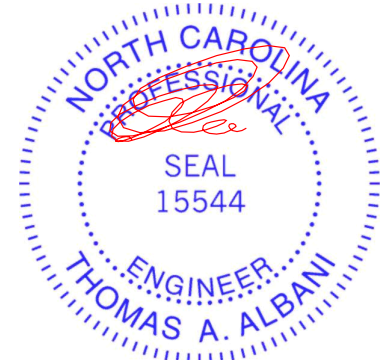
(lb/size) E=1142/0-3-8, A=1142/0-3-8
 Max Horz A=184(LC 7)
 Max Uplift E=-21(LC 11), A=-21(LC 10)

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

TOP CHORD A-B=-3111/156, B-C=-2156/83, C-D=-2155/83, D-E=-3097/155
 BOT CHORD A-H=-162/2653, G-H=-162/2648, F-G=-57/2635, E-F=-57/2638
 WEBS C-G=0/1878, D-G=-834/247, D-F=0/289, B-G=-838/239, B-H=0/293

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=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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) E, A 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) E, A.



February 4, 2019

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179361
DAVID GARAGE RIGHT	B08	Roof Special	6	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:26 2019 Page 1

ID:LUfQRqX26VNYc9KvTXCGk3ydhzD-h?s7K_mX2K0clOQJEENGz00LI9fgNJjOmvi6?rzoZDR



5x6 =

Scale = 1:61.7

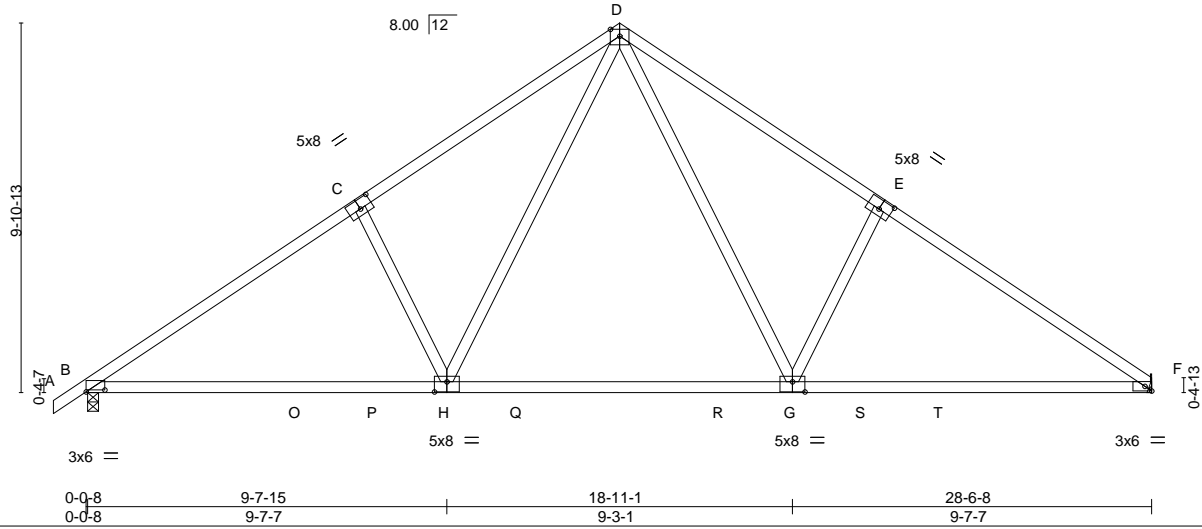


Plate Offsets (X,Y)-- [B:0-6-0,0-0-10], [C:0-4-0,0-3-0], [E:0-4-0,0-3-0], [G:0-4-0,0-3-4], [H:0-4-0,0-3-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.54	Vert(LL) -0.26	G-H	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.71	Vert(CT) -0.40	H-K	>866	180		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.22	Horz(CT) 0.04	F	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code IRC2015/TPI2014						Weight: 142 lb	FT = 20%

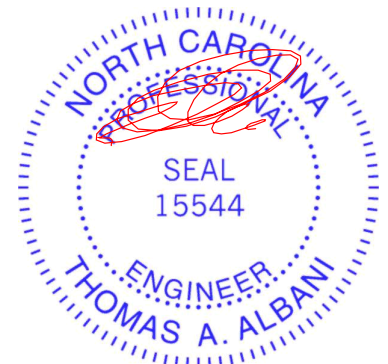
LUMBER-
 TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-2-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) B=1195/0-3-8, F=1141/Mechanical
 Max Horz B=192(LC 7)
 Max Uplift B=-34(LC 10), F=-21(LC 11)
 Max Grav B=1233(LC 17), F=1184(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1719/144, C-D=-1604/215, D-E=-1601/217, E-F=-1716/146
 BOT CHORD B-H=-84/1506, G-H=0/964, F-G=-33/1368
 WEBS D-G=-87/808, E-G=-425/206, D-H=-85/813, C-H=-428/205

- 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; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, F.



February 4, 2019

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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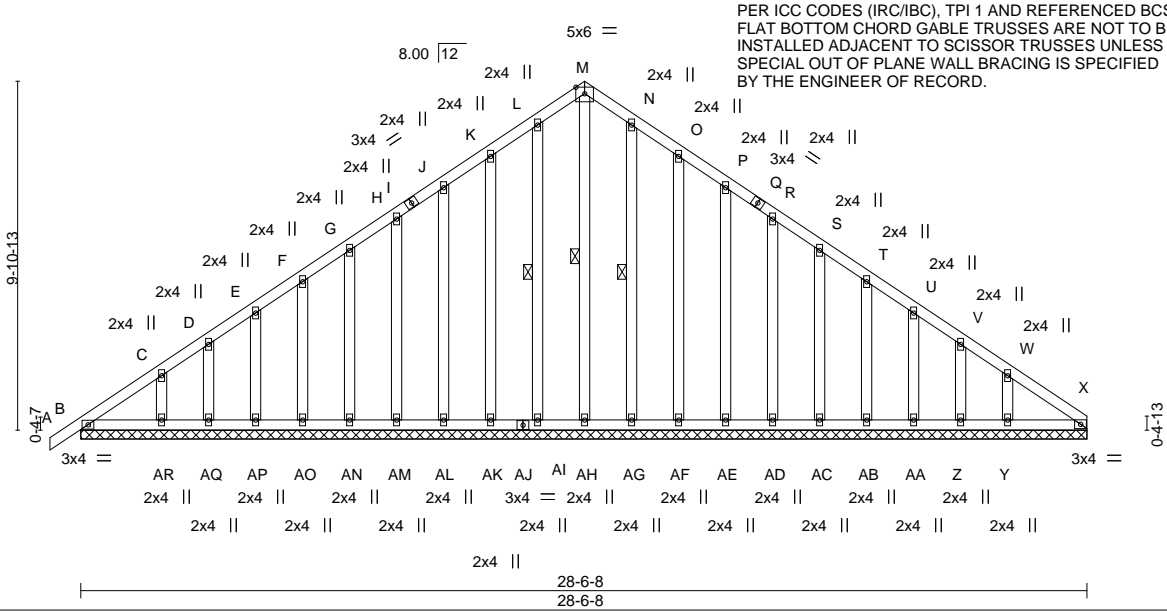
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179362
DAVID GARAGE RIGHT	B09	GABLE	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:28 2019 Page 1

ID:LUFQRqX26VNYc9KvTXCGk3ydhzD-eO_uflnnayGJ?iahMePk3R5pYzWprFHhDCBD4jzoZDP



Scale = 1:65.4

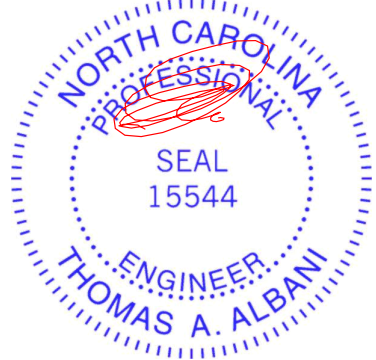
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.04	Vert(LL) -0.00	A	n/r	120	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.03	Vert(CT) 0.00	A	n/r	120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.09	Horz(CT) 0.01	X	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.00	A	n/r	90		
	Code IRC2015/TPI2014						Weight: 241 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	WEBS 1 Row at midpt M-AH, L-AI, N-AG

REACTIONS. All bearings 28-6-8.
 (lb) - Max Horz B=192(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) B, AI, AK, AL, AM, AN, AO, AP, AQ, AR, AG, AF, AE, AD, AC, AB, AA, Z, Y
 Max Grav All reactions 250 lb or less at joint(s) B, AH, AI, AK, AL, AM, AN, AO, AP, AQ, AR, AG, AF, X, AE, AD, AC, AB, AA, Z, Y

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

- 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=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 1-4-0 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) B, AI, AK, AL, AM, AN, AO, AP, AQ, AR, AG, AF, AE, AD, AC, AB, AA, Z, Y.



February 4, 2019

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179363
DAVID GARAGE RIGHT	C01	GABLE	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

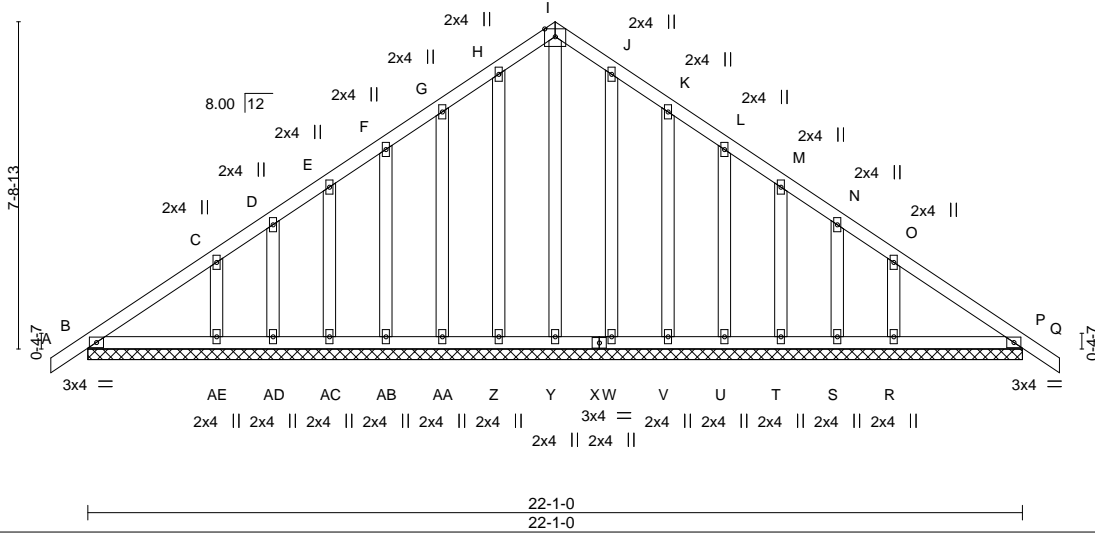
8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:29 2019 Page 1

ID:LUfQRqX26VNYc9KvTXCGk3ydhzD-6aYGz?oPLFOAcS9uvMwzbf_e_wNsjaiBrSswncAzoZDO



5x6 =

Scale = 1:54.4



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	Vert(LL) 0.00	Q	n/r	120	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.05	Vert(CT) 0.00	Q	n/r	120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.11	Horz(CT) 0.00	P	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.00	P	n/r	90		
	Code IRC2015/TPI2014						Weight: 159 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 OTHERS 2x4 SP No.2

BRACING-

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

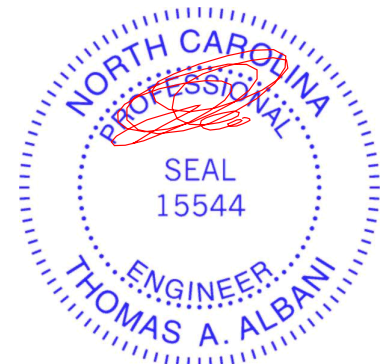
REACTIONS.

All bearings 22-1-0.
 (lb) - Max Horz B=154(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) B, Z, AA, AB, AC, AD, AE, W, V, U, T, S, R
 Max Grav All reactions 250 lb or less at joint(s) B, Y, Z, AA, AB, AC, AD, AE, W, P, V, U, T, S, R

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

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=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 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) B, Z, AA, AB, AC, AD, AE, W, V, U, T, S, R.



February 4, 2019

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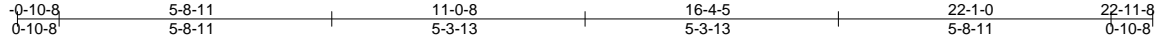


Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179364
DAVID GARAGE RIGHT	C02	Common	5	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:30 2019 Page 1

ID:LUfQRqX26VNYc9KvTXCGk3ydhzD-am6eALp16ZW1E0k4T3SC8sA4ym6eJ9E_hWgk8czoZDN



5x6 =

Scale: 1/4"=1'

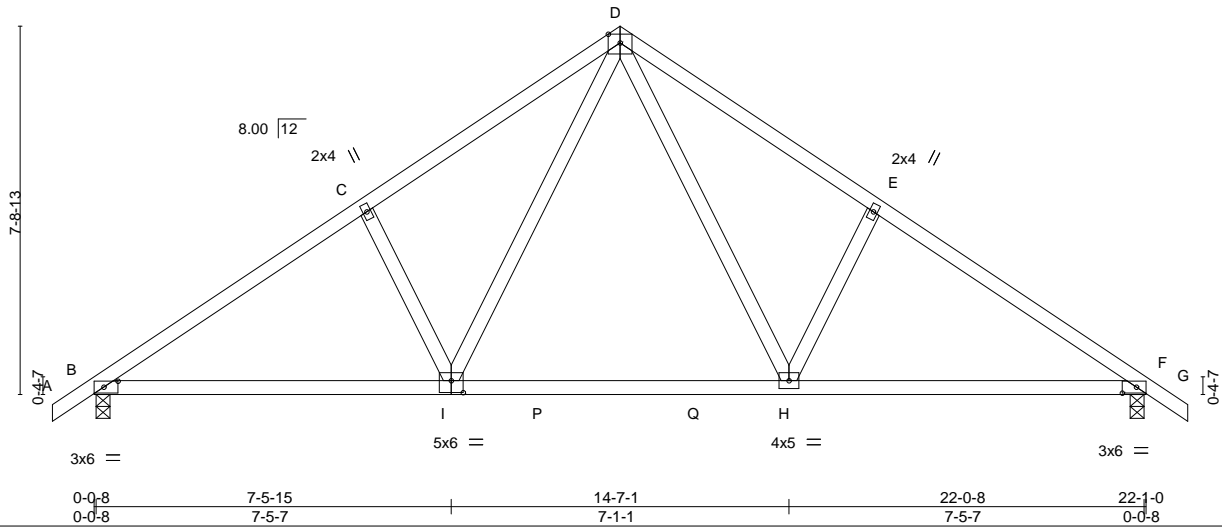


Plate Offsets (X,Y)-- [B:0-3-9,0-1-8], [F:0-3-9,0-1-8], [I:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.30	Vert(LL)	-0.11	H-I	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.39	Vert(CT)	-0.15	H-I	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.12	Horz(CT)	0.03	F	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code IRC2015/TPI2014						Weight: 111 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-3-6 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

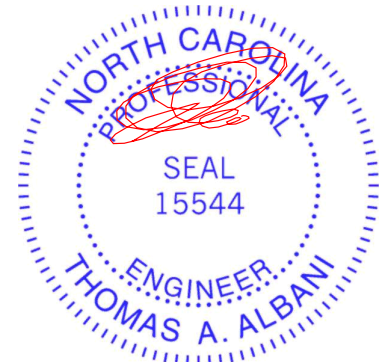
(lb/size) B=936/0-3-8, F=936/0-3-8
 Max Horz B=154(LC 9)
 Max Uplift B=-29(LC 10), F=-29(LC 11)

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

TOP CHORD B-C=-1262/108, C-D=-1149/164, D-E=-1149/164, E-F=-1262/108
 BOT CHORD B-I=-55/1080, H-I=0/698, F-H=0/1007
 WEBS D-H=-66/563, E-H=-322/158, D-I=-66/563, C-I=-321/157

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=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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 = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, F.



February 4, 2019

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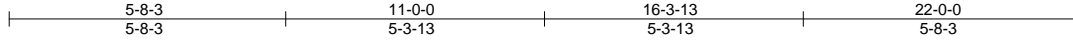
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179365
DAVID GARAGE RIGHT	C03	Common	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:31 2019 Page 1

ID:LUfQRqX26VNYc9KvTXCGk3ydhzD-2zg0Nhqfiteus9JG1nzRg4jFkATz2cV8vAPtg2zoZDM



5x6 =

Scale = 1:47.3

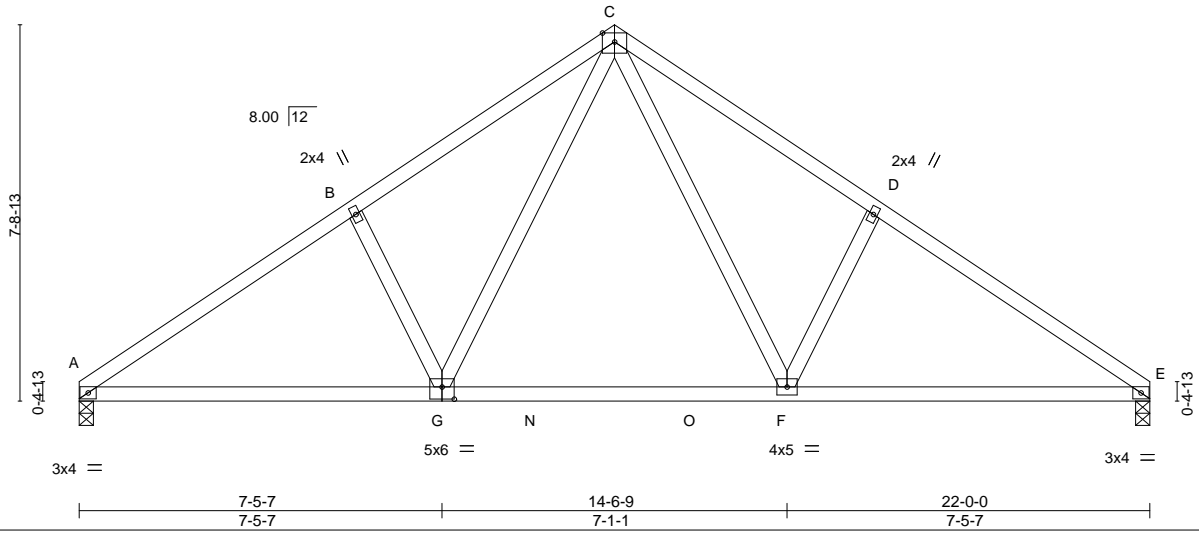


Plate Offsets (X,Y)-- [G:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.30	Vert(LL) -0.11	F-G	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.38	Vert(CT) -0.15	F-G	>999	180		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.12	Horz(CT) 0.03	E	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code IRC2015/TPI2014						Weight: 108 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-3-11 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

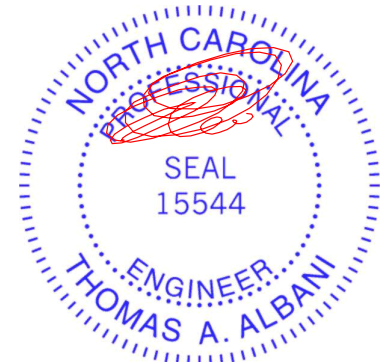
(lb/size) A=880/0-3-8, E=880/0-3-8
 Max Horz A=142(LC 7)
 Max Uplift A=-16(LC 10), E=-16(LC 11)

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

TOP CHORD A-B=-1259/113, B-C=-1145/169, C-D=-1145/169, D-E=-1259/113
 BOT CHORD A-G=-65/1070, F-G=0/690, E-F=-25/1003
 WEBS C-F=-68/560, D-F=-320/159, C-G=-68/560, B-G=-320/158

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=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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 = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, E.



February 4, 2019

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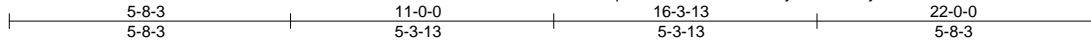


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179366
DAVID GARAGE RIGHT	C04	Roof Special Girder	1	2	Job Reference (optional)	

Stock Components

8.220 s May 29 2018 MiTek Industries, Inc. Mon Feb 4 10:49:40 2019 Page 1
ID:LUfQRqX26VNYc9KvTXCGk3ydhzD-R?nyQBSemmODKs225Vlu3EIW25Qo?fhaJnNuw2zoYtf



Scale = 1:46.5

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

9x12 MT18HS ||

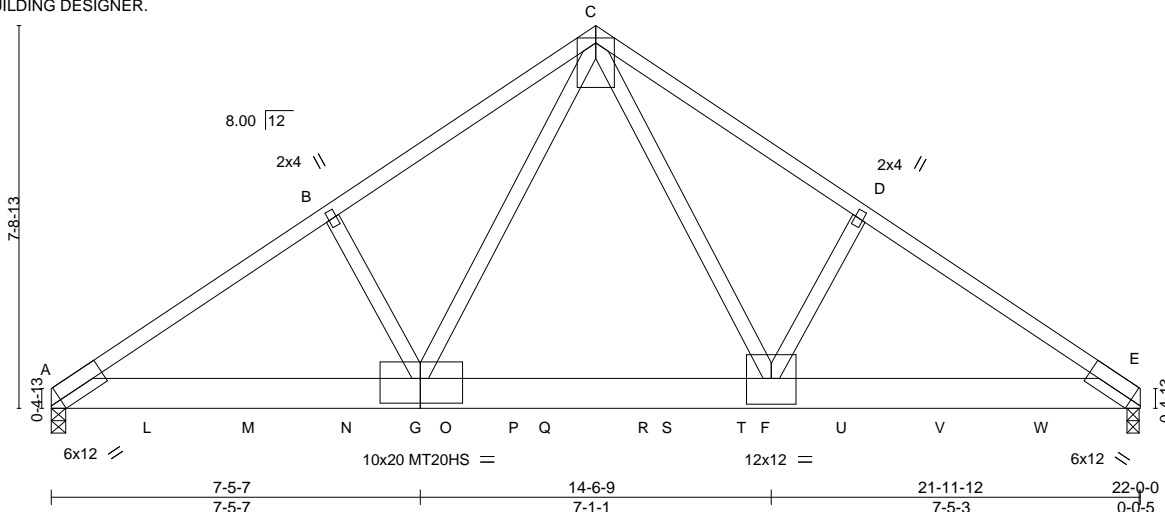


Plate Offsets (X,Y)-- [A:0-2-11,Edge], [E:0-2-11,Edge], [F:0-6-0,0-6-4], [G:0-9-12,0-6-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.76	Vert(LL)	-0.15	F-K	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.78	Vert(CT)	-0.29	F-K	>900	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.68	Horz(CT)	0.06	E	n/a	MT18HS	244/190
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						Weight: 283 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
BOT CHORD 2x8 SP 2250F 1.9E or 2x8 SP DSS or 2x8 SP SS
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-6-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

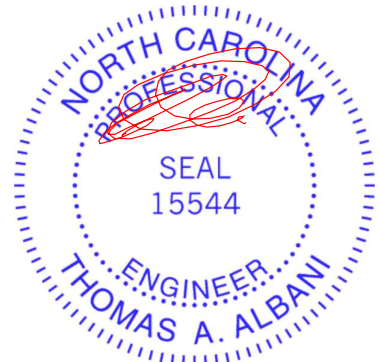
REACTIONS. (lb/size) A=6493/0-3-8 (req. 0-3-13), E=6567/0-2-15 (req. 0-3-14)
Max Horz A=142(LC 5)
Max Uplift A=-455(LC 8), E=-461(LC 9)

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

TOP CHORD A-B=-9369/680, B-C=-9266/735, C-D=-9280/734, D-E=-9383/679
BOT CHORD A-L=-590/7780, L-M=-590/7780, M-N=-590/7780, G-N=-590/7780, G-O=-321/5221,
O-P=-321/5221, P-Q=-321/5221, Q-R=-321/5221, R-S=-321/5221, S-T=-321/5221,
F-T=-321/5221, F-U=-500/7792, U-V=-500/7792, V-W=-500/7792, E-W=-500/7792
WEBS C-F=-455/5520, D-F=-346/156, C-G=-454/5493, B-G=-344/156

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-7-0 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.
- 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=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- 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 = 10.0psf.
- WARNING: Required bearing size at joint(s) A, E greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 455 lb uplift at joint A and 461 lb uplift at joint E.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1119 lb down and 87 lb up at 2-0-12, 1131 lb down and 88 lb up at 4-0-12, 1131 lb down and 88 lb up at 6-0-12, 1131 lb down and 88 lb up at 8-0-12, 1131 lb down and 88 lb up at 10-0-12, 1131 lb down and 88 lb up at 12-0-12, 1131 lb down and 88 lb up at 14-0-12, 1131 lb down and 88 lb up at 16-0-12, and 1131 lb down and 88 lb up at 18-0-12, and 1131 lb down and 88 lb up at 20-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



February 4, 2019

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.



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179366
DAVID GARAGE RIGHT	C04	Roof Special Girder	1	2	Job Reference (optional)	

Stock Components

8.220 s May 29 2018 MiTek Industries, Inc. Mon Feb 4 10:49:40 2019 Page 2
 ID:LUfQRqX26VNYc9KvTXCGk3ydhzD-R?nyQBSemmODKsz25Vlu3EIW25Qo?fhaJnNuw2zoYtf

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.00

Uniform Loads (plf)

Vert: A-C=-60, C-E=-60, A-E=-20

Concentrated Loads (lb)

Vert: L=-1119(B) M=-1131(B) N=-1131(B) O=-1131(B) Q=-1131(B) R=-1131(B) T=-1131(B) U=-1131(B) V=-1131(B) W=-1131(B)

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.



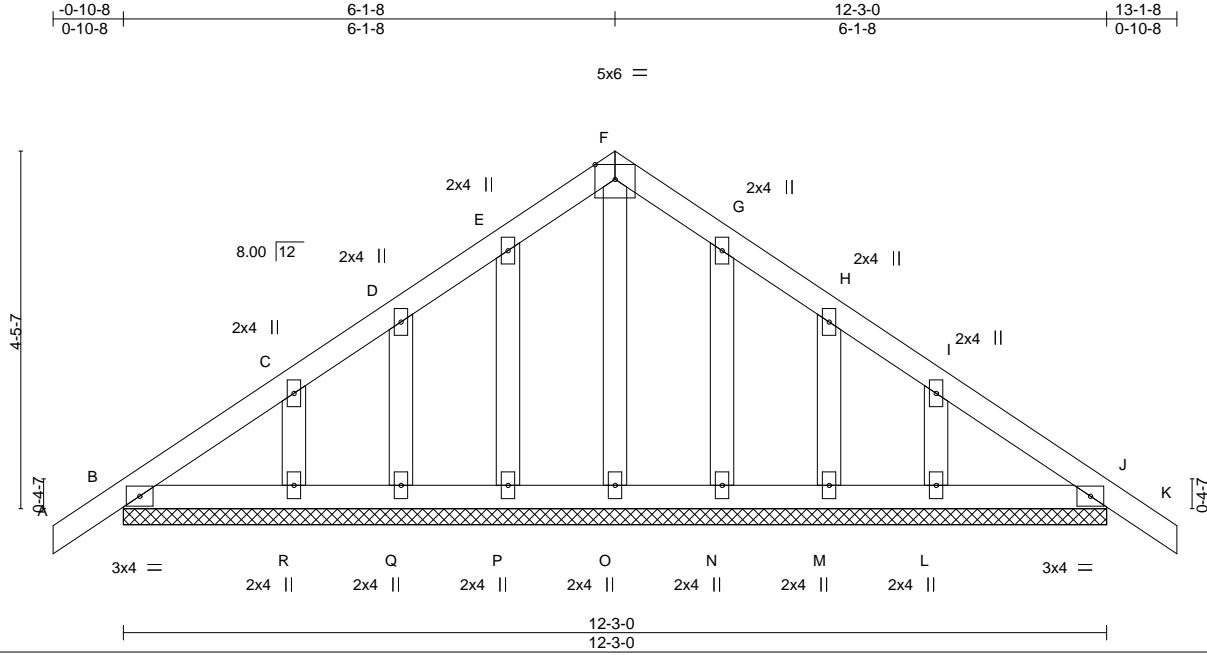
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179367
DAVID GARAGE RIGHT	D01	GABLE	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:33 2019 Page 1

ID:LUFQRqX26VNYc9KvTXCGk3ydhzD- LonoNrwOUuc5TSf8C?vmVofH_D3WWZQNUu_lxzoZDK



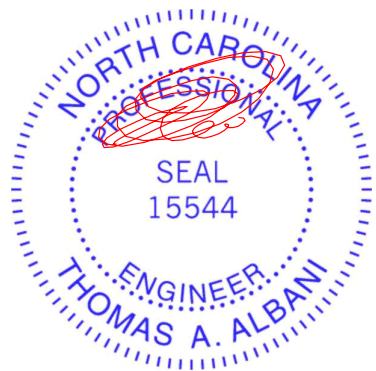
LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.00	TC 0.04	Vert(LL) -0.00	J	n/r	120	MT20	244/190	
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00	J	n/r	120			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00	J	n/a	n/a			
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.00	J	n/r	90	Weight: 68 lb	FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 12-3-0.
 (lb) - Max Horz B=90(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) B, P, Q, R, N, M, L
 Max Grav All reactions 250 lb or less at joint(s) B, J, O, P, Q, R, N, M, L

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

- 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=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 1-4-0 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) B, P, Q, R, N, M, L.



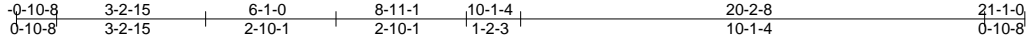
February 4, 2019

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179368
DAVID GARAGE RIGHT	E01	FINK	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:35 2019 Page 1

ID:LUfQRqX26VNYc9KvTXCGk3ydhzD-wkvXD3tAw58Kknc2Gd1Nrwuxnrc_PbjqoN5pqzoZDI



5x6 =

Scale = 1:50.2

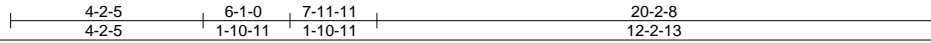
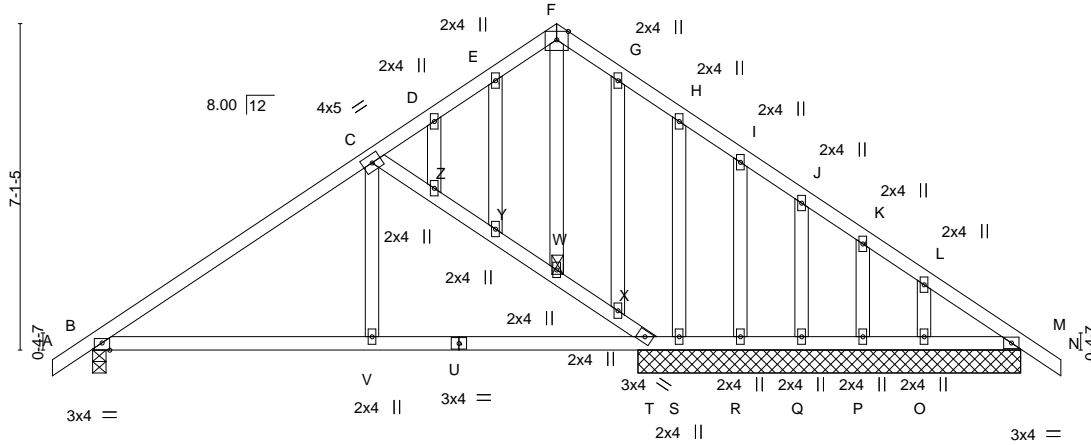


Plate Offsets (X,Y)-- [B:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.00	TC 0.29	Vert(LL) 0.06	V-AC	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.27	Vert(CT) -0.07	V-AC	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.01	AD	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS					Weight: 132 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	JOINTS 1 Brace at Jt(s): W

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.

REACTIONS. All bearings 8-4-0 except (jt=length) B=0-3-8.
 (lb) - Max Horz B=142(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) B, T, R, Q, P, O except S=171(LC 3)
 Max Grav All reactions 250 lb or less at joint(s) S, R, Q, P, O, M, M except B=586(LC 1), T=581(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-672/240
 BOT CHORD B-V=-104/533, T-V=-104/533
 WEBS C-Z=-482/320, Y-Z=-451/304, W-Y=-486/322, W-X=-466/307, T-X=-484/320, C-V=-172/267

- 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=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 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) B, T, R, Q, P, O except (jt=lb) S=171.



February 4, 2019

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ENGINEERING BY TRENCO
A MiTek Affiliate

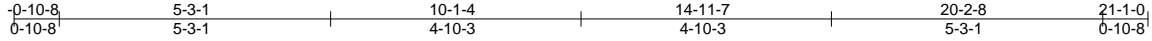
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179369
DAVID GARAGE RIGHT	E02	COMMON	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:36 2019 Page 1

ID:LUfQRqX26VNYc9KvTXCGk3ydhzD-PwTvROtohPGByxBEqKZcN7Q5rB5Ujojt3S7eMGzoZDH



5x6 =

Scale = 1:44.6

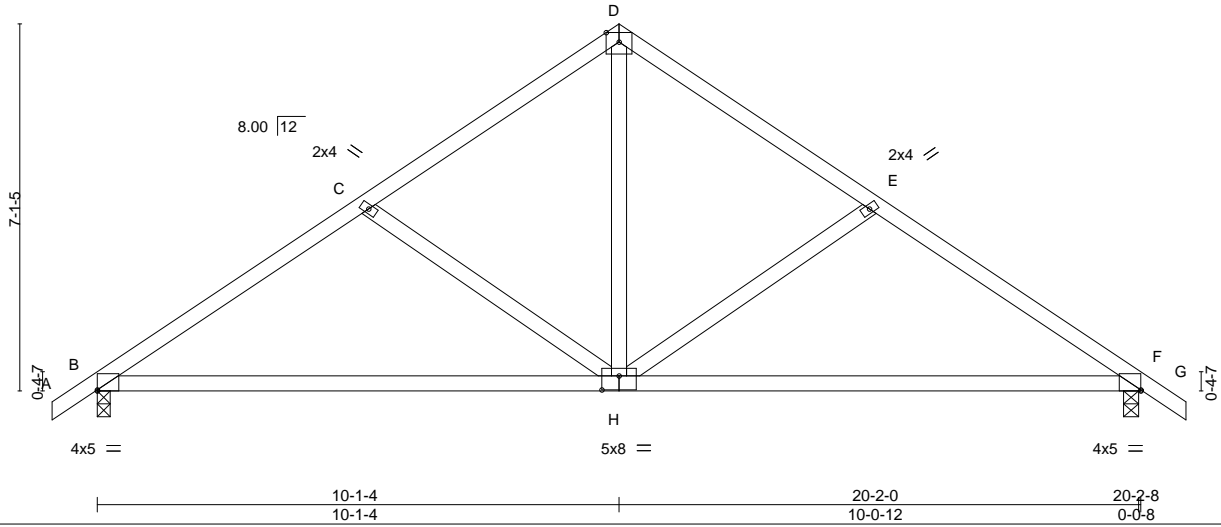


Plate Offsets (X,Y)-- [B:0-0-0,0-0-4], [F:Edge,0-0-4], [H:0-4-0,0-3-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.34	Vert(LL) 0.23	H-K	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.68	Vert(CT) -0.34	H-K	>722	180		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.38	Horz(CT) 0.02	F	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS					Weight: 97 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-13 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-8-12 oc bracing.

REACTIONS.

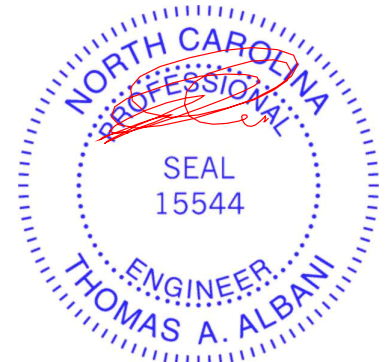
(lb/size) B=861/0-3-0, F=861/0-3-8
 Max Horz B=-142(LC 8)
 Max Uplift B=-28(LC 10), F=-28(LC 11)

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

TOP CHORD B-C=-1121/533, C-D=-862/500, D-E=-862/500, E-F=-1121/533
 BOT CHORD B-H=-373/903, F-H=-373/903
 WEBS D-H=-477/618, E-H=-338/181, C-H=-332/181

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=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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) B, F.



February 4, 2019

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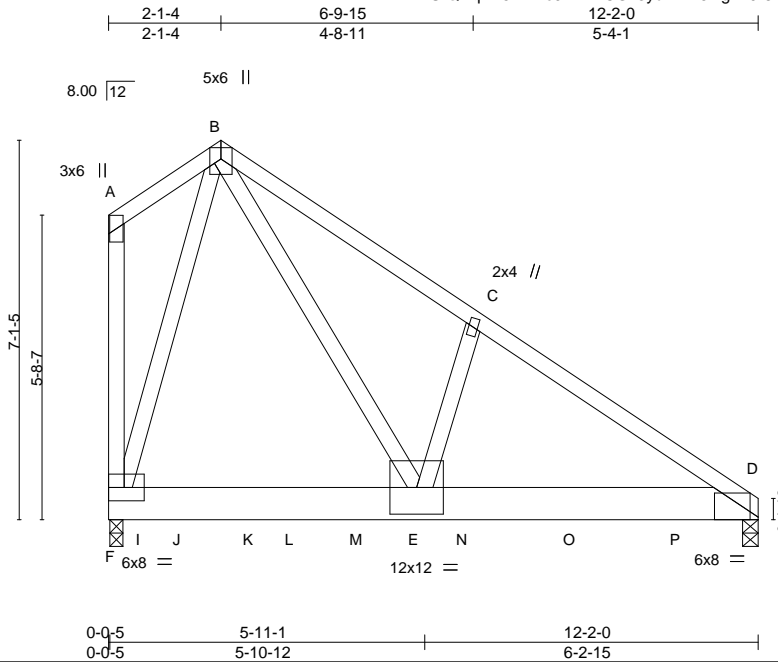


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179370
DAVID GARAGE RIGHT	E03	Roof Special Girder	1	2	Job Reference (optional)	

Stock Components

8.220 s May 29 2018 MiTek Industries, Inc. Mon Feb 4 10:51:34 2019 Page 1
ID:LUFQRqX26VNYc9KvTXCGk3ydhzD-5wg2L9r8wol2?NgznRLdhHT6h2PFIEIMXW?wwRzoYrt



Scale = 1:43.2

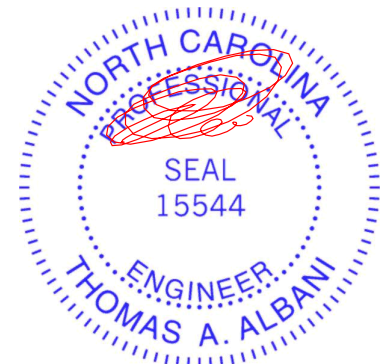
LOADING (psf)		SPACING		CSI		DEFL.				PLATES		GRIP	
TCLL	20.0	2-0-0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.06	E-H	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.12	E-H	>999	180			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.63	Horz(CT)	0.01	D	n/a	n/a			
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS									
												Weight: 184 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x8 SP 2250F 1.9E or 2x8 SP DSS or 2x8 SP SS	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2 *Except* A-F: 2x4 SP No.3		

REACTIONS. (lb/size) D=3599/0-3-8, F=4076/0-2-15
Max Horz F=-184(LC 4)
Max Uplift D=-252(LC 9), F=-321(LC 9)
Max Grav D=3776(LC 15), F=4279(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-4247/372, C-D=-4292/297
BOT CHORD F-I=0/855, I-J=0/855, J-K=0/855, K-L=0/855, L-M=0/855, E-M=0/855, E-N=-179/3570,
N-O=-179/3570, O-P=-179/3570, D-P=-179/3570
WEBS B-E=-445/5408, C-E=-320/146, B-F=-2586/209

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 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.
 - 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=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
 - 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 = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) F.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 252 lb uplift at joint D and 321 lb uplift at joint F.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1200 lb down and 87 lb up at 2-8-12, 1200 lb down and 87 lb up at 4-8-12, 1200 lb down and 87 lb up at 6-8-12, 1200 lb down and 87 lb up at 8-8-12, and 1200 lb down and 87 lb up at 10-8-12, and 1200 lb down and 87 lb up at 0-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



February 4, 2019

LOAD CASE(S) Standard
Continued on page 2 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	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179370
DAVID GARAGE RIGHT	E03	Roof Special Girder	1	2	Job Reference (optional)	

Stock Components

8.220 s May 29 2018 MiTek Industries, Inc. Mon Feb 4 10:51:34 2019 Page 2
 ID:LUFQRqX26VNYc9KvTXCGk3ydhzD-5wg2L9r8wol2?NgznRLdhHT6h2PFIEIMXW?wwRzoYrt

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.00

Uniform Loads (plf)

Vert: A-B=-60, B-D=-60, D-F=-20

Concentrated Loads (lb)

Vert: I=-1119(B) K=-1119(B) M=-1119(B) N=-1119(B) O=-1119(B) P=-1119(B)

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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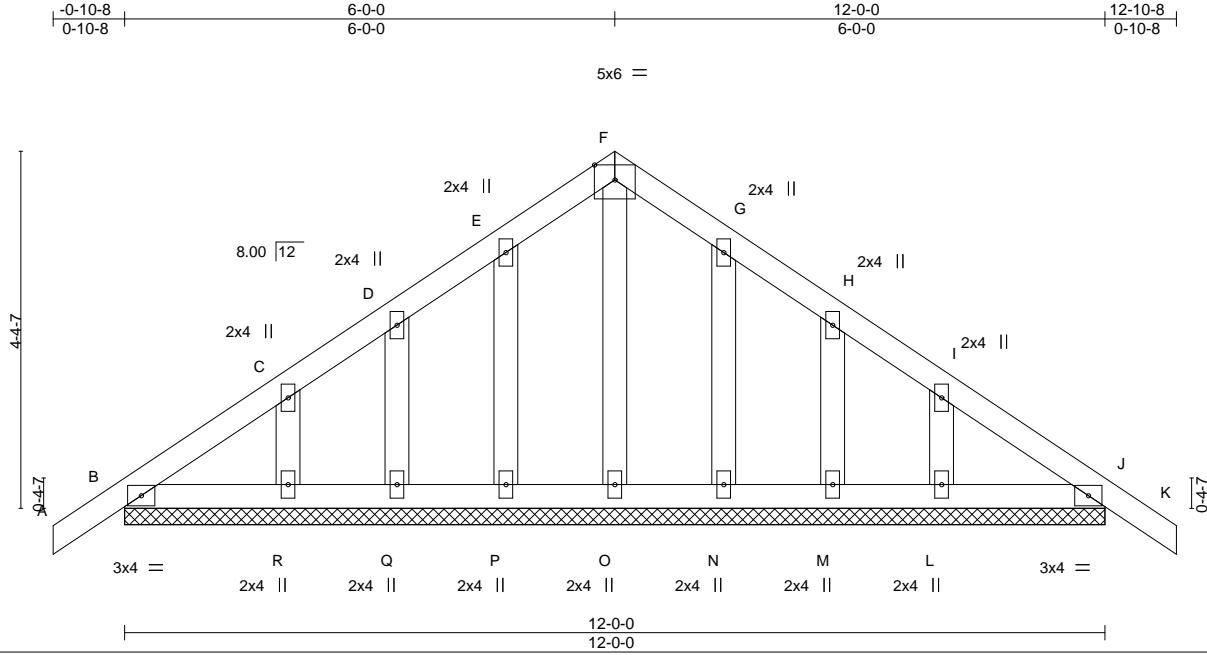


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179371
DAVID GARAGE RIGHT	G01	GABLE	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:38 2019 Page 1
 ID:LUfQRqX26VNYc9KvTXCGk3ydhzD-LJbgs4v2D0XvBELcxlb4TYWW0?xHBnpAXmclQ8zoZDF



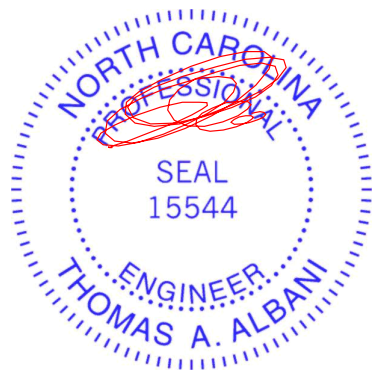
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.04	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.02	Vert(LL) -0.00 J n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Vert(CT) -0.00 J n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 J n/a n/a	Weight: 67 lb	FT = 20%
	Code IRC2015/TPI2014		Wind(LL) 0.00 J n/r 90		

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 12-0-0.
 (lb) - Max Horz B=89(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) B, P, Q, R, N, M, L
 Max Grav All reactions 250 lb or less at joint(s) B, J, O, P, Q, R, N, M, L

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 1-4-0 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) B, P, Q, R, N, M, L.



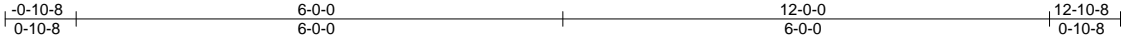
February 4, 2019

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179372
DAVID GARAGE RIGHT	G02	COMMON	4	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:39 2019 Page 1

ID:LUFQRqX26VNYc9KvTXCGk3ydhzD-pV923Qwg_KfmpOwpVS6J?m2cDPCewDOJQLIzboZDE



5x6 =

Scale = 1:28.4

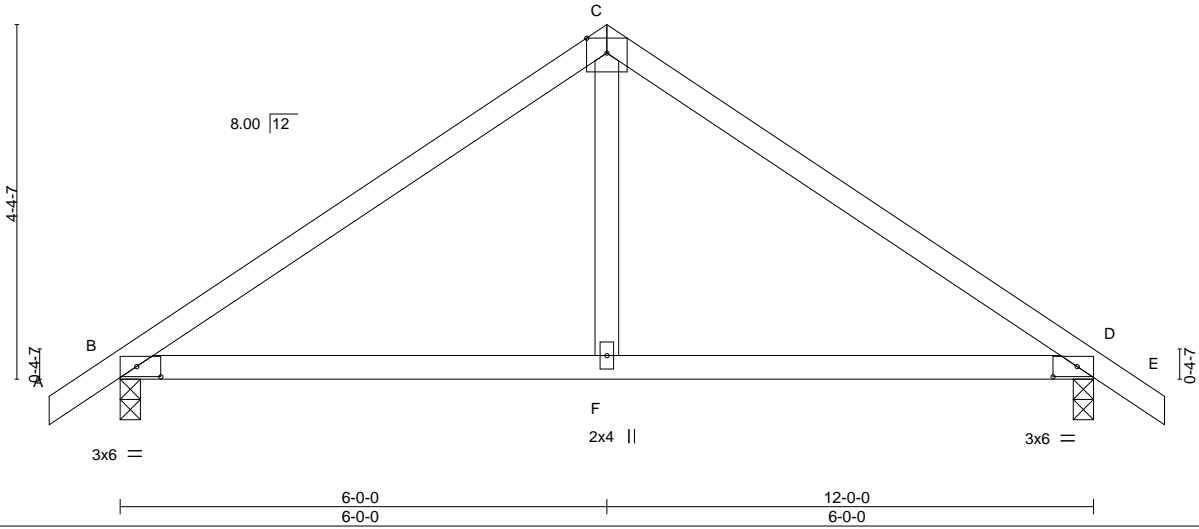


Plate Offsets (X,Y)-- [B:0-3-9,0-1-8], [D:0-3-9,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.33	Vert(LL) 0.05	F-L	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.29	Vert(CT) -0.08	F-L	>999	180		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Horz(CT) 0.00	D	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS					Weight: 49 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 WEBS 2x4 SP No.2

BRACING-

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

REACTIONS.

(lb/size) B=533/0-3-0, D=533/0-3-0
 Max Horz B=89(LC 9)
 Max Uplift B=-22(LC 10), D=-22(LC 11)

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

TOP CHORD B-C=-584/316, C-D=-584/316
 BOT CHORD B-F=-161/412, D-F=-161/412
 WEBS C-F=-216/286

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=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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) B, D.



February 4, 2019

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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.



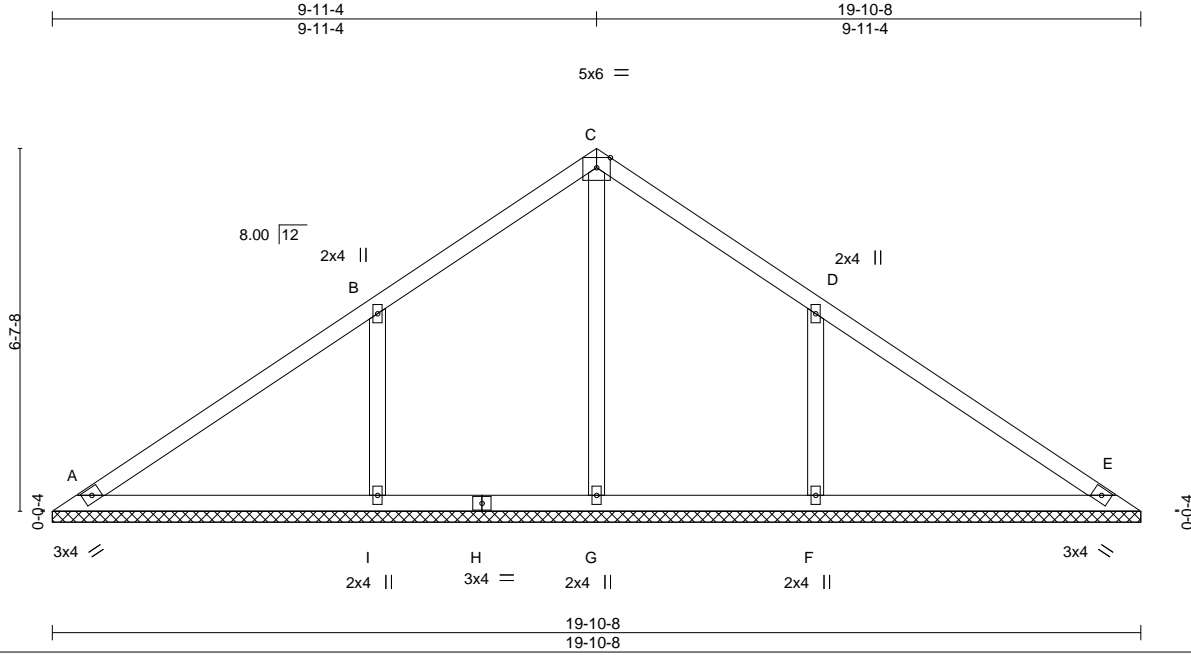
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179374
DAVID GARAGE RIGHT	V01E	GABLE	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:40 2019 Page 1

ID:LUfQRqX26VNYc9KvTXCGk3ydhzD-HhjQGmxJlendRYV?3AdYYzbovoalfg8S_45sV1zoZDD



Scale = 1:42.1

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.18	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.10	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 E n/a n/a	Weight: 82 lb	FT = 20%
	Code IRC2015/TPI2014				

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 OTHERS 2x4 SP No.2

BRACING-

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

REACTIONS.

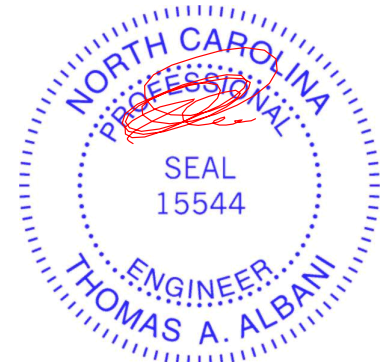
All bearings 19-10-8.
 (lb) - Max Horz A=122(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) except I=119(LC 10), F=118(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) A, E except G=333(LC 20), I=537(LC 17), F=537(LC 18)

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

WEBS B-I=-354/177, D-F=-354/177

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=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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 = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint I and 118 lb uplift at joint F.



February 4, 2019

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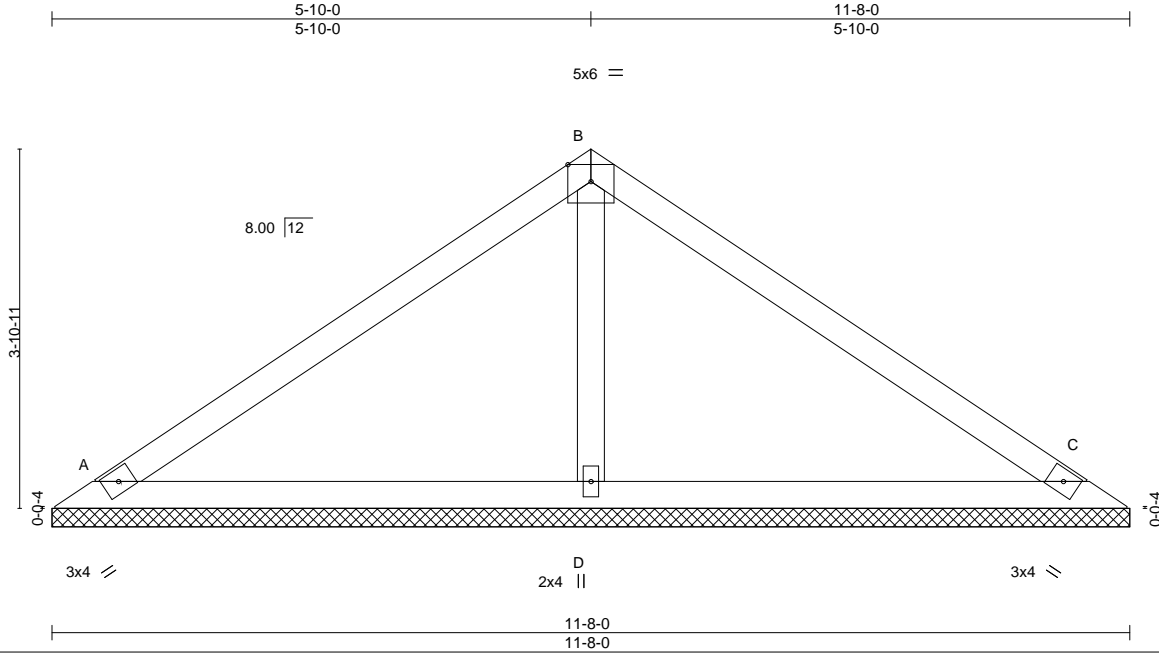
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179375
DAVID GARAGE RIGHT	V01G	GABLE	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:41 2019 Page 1

ID:LUFQRqX26VNYc9KvTXCGk3ydhzD-luGoU6xxWxvT2i4Bct8n4B8z6Cv0O7ucDkqP1TzoZDC



Scale = 1:24.9

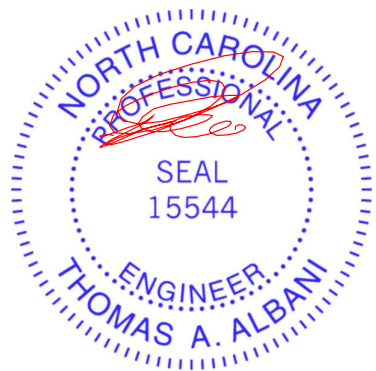
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.31	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.21	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 C n/a n/a		
	Code IRC2015/TPI2014			Weight: 41 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (lb/size) A=211/11-8-0, C=211/11-8-0, D=435/11-8-0
 Max Horz A=69(LC 9)
 Max Uplift A=-18(LC 10), C=-27(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-D=-277/63

- 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; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint A and 27 lb uplift at joint C.

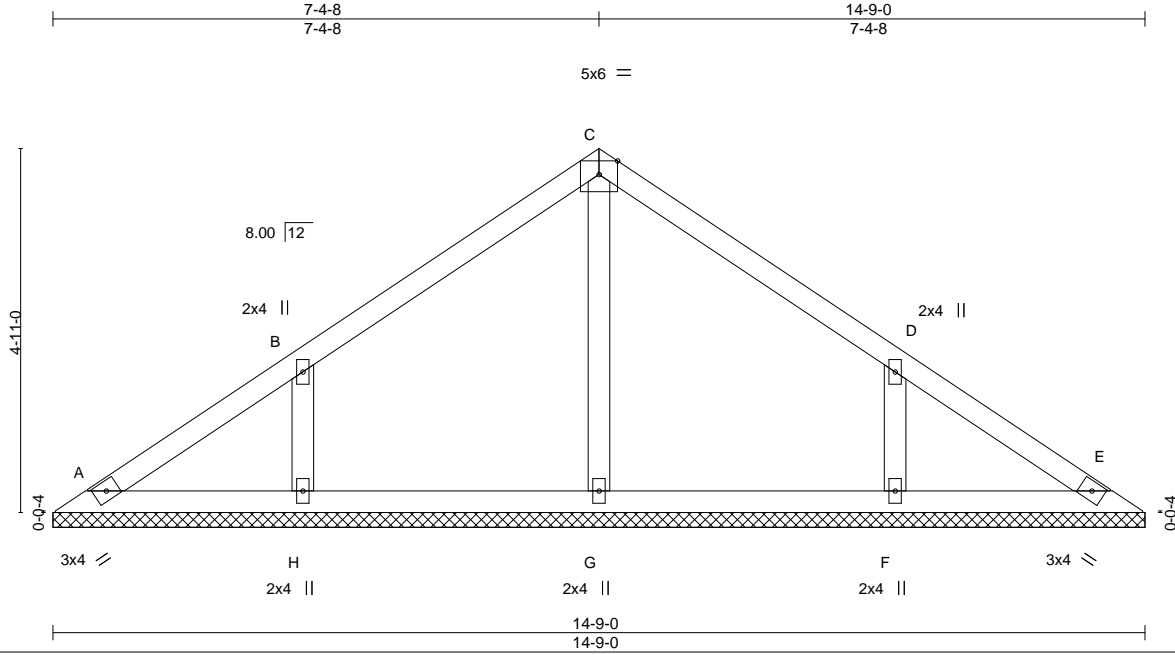


February 4, 2019

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179376
DAVID GARAGE RIGHT	V02C	GABLE	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:42 2019 Page 1
 ID:LUFQRqX26VNYc9KvTXCGk3ydhzD-D4qAhSyZHF1KgseOAbf0dOgAbcHC7a7IROazZwzoZDB



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.08	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 E n/a n/a	Weight: 58 lb	FT = 20%
	Code IRC2015/TPI2014				

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 14-9-0.
 (lb) - Max Horz A=89(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) A, H, F
 Max Grav All reactions 250 lb or less at joint(s) A, E except G=259(LC 1), H=332(LC 17), F=332(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS B-H=-253/129, D-F=-253/129

- 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; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, H, F.

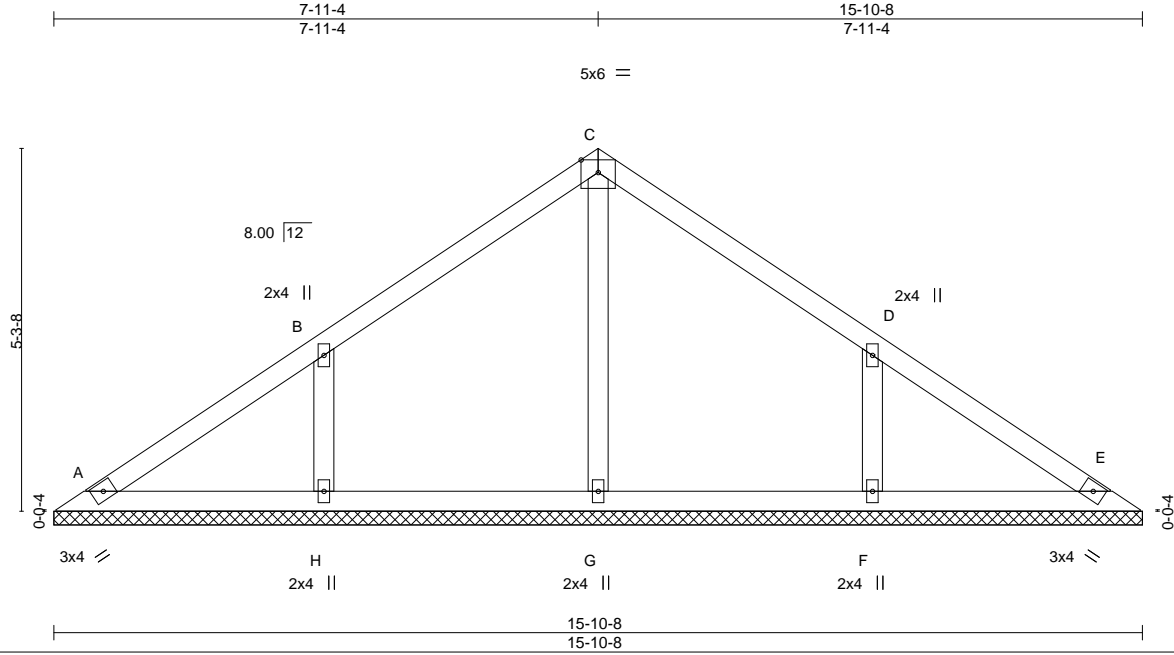


February 4, 2019

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179377
DAVID GARAGE RIGHT	V02E	GABLE	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:43 2019 Page 1
 ID:LUfQRqX26VNYc9KvTXCGk3ydhzD-hGOZvozB2Z9BI?DaklBFACdL50dT1Dvg2JW6MzoZDA



5x6 =

Scale = 1:33.6

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.08	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 E n/a n/a	Weight: 63 lb	FT = 20%
	Code IRC2015/TPI2014				

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 OTHERS 2x4 SP No.2

BRACING-

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

REACTIONS.

All bearings 15-10-8.
 (lb) - Max Horz A=96(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) A, H, F
 Max Grav All reactions 250 lb or less at joint(s) A, E, G except H=359(LC 17), F=358(LC 18)

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

WEBS B-H=-270/137, D-F=-270/137

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=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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) A, H, F.



February 4, 2019

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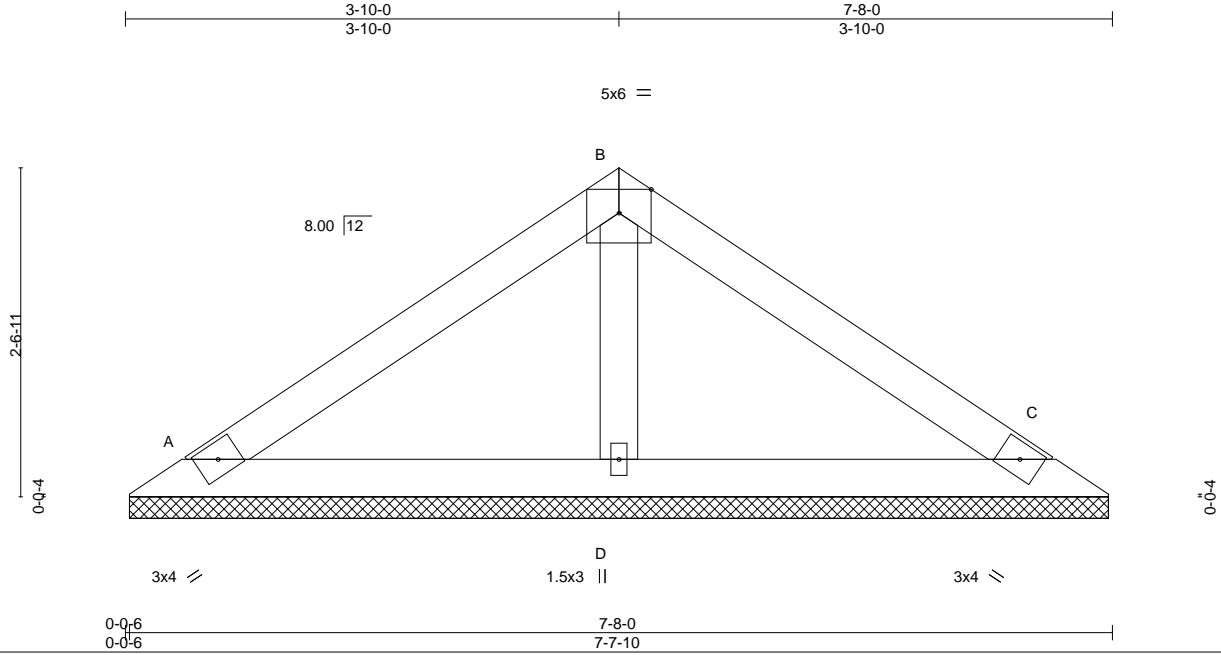


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179378
DAVID GARAGE RIGHT	V02G	Valley	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:44 2019 Page 1
ID: LUFQRqX26VNYc9KvTXCGk3ydhzD-ATyx68_ppsH2v9omI0iUipmWiPzhbVH2vi33eozoZD9



Scale = 1:17.9

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.08	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 C n/a n/a	Weight: 26 lb	FT = 20%
	Code IRC2015/TPI2014				

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 OTHERS 2x4 SP No.2

BRACING-

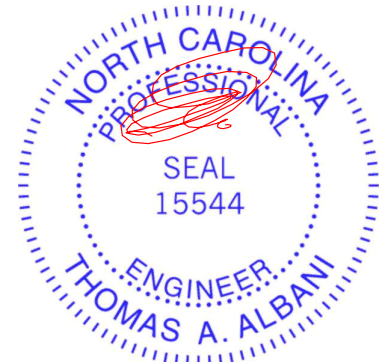
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=145/7-7-4, C=145/7-7-4, D=247/7-7-4
 Max Horz A=-43(LC 8)
 Max Uplift A=-17(LC 10), C=-22(LC 11)

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

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=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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) A, C.



February 4, 2019

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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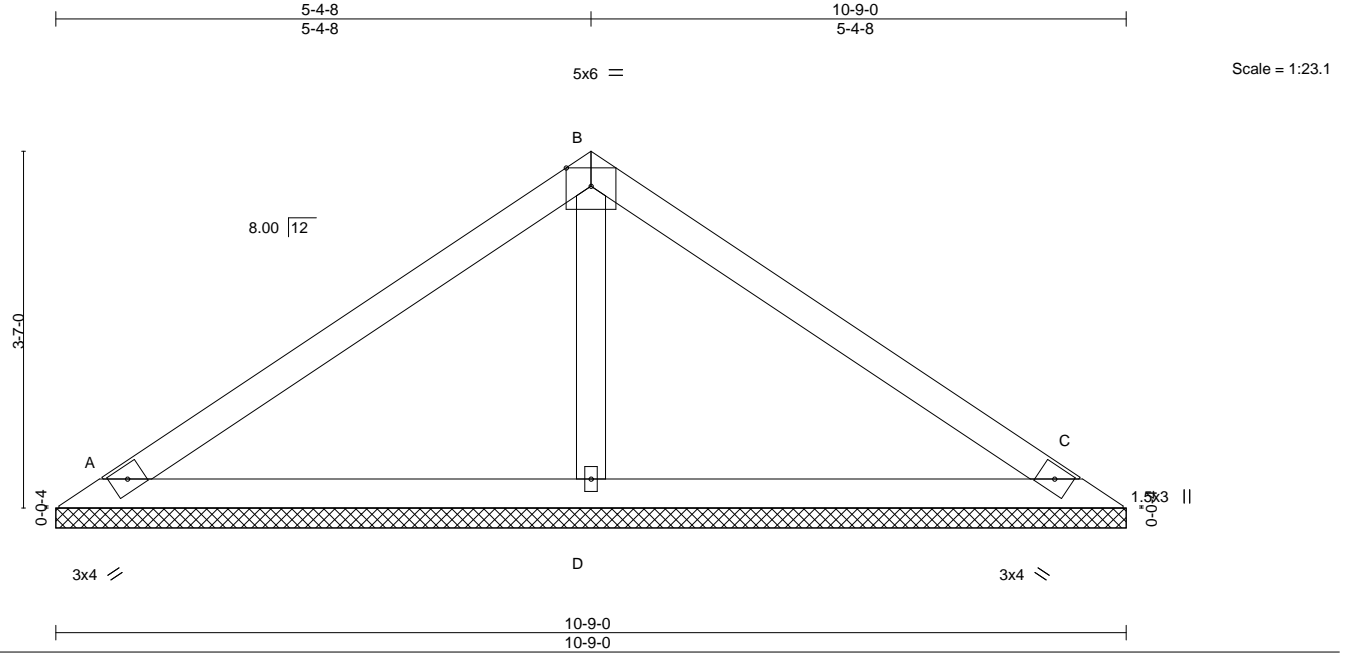


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179379
DAVID GARAGE RIGHT	V03C	GABLE	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:44 2019 Page 1
 ID:LUFQRqX26VNYc9KvTXCGk3ydhzD-ATyx68_ppsH2v9omI0iUipmVBPYFbVq2vi33eozoZD9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.25	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.18	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 C n/a n/a		
	Code IRC2015/TPI2014			Weight: 38 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (lb/size) A=193/10-9-0, C=193/10-9-0, D=398/10-9-0
 Max Horz A=63(LC 9)
 Max Uplift A=-16(LC 10), C=-25(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS B-D=-253/59

- 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; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.



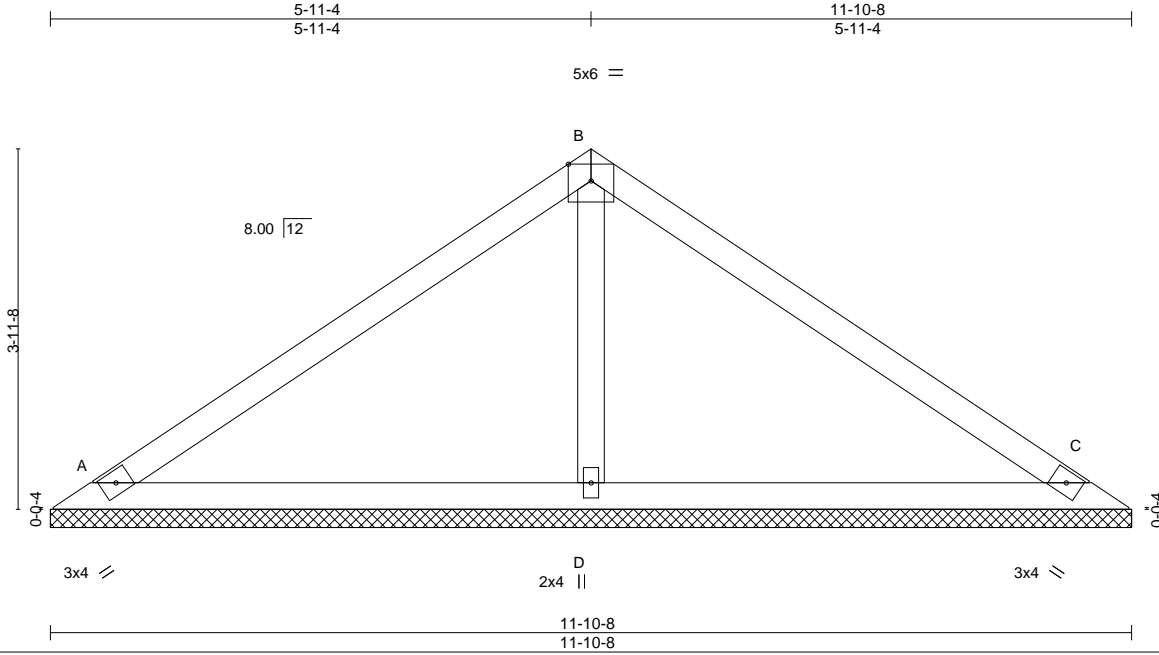
February 4, 2019

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179380
DAVID GARAGE RIGHT	V03E	GABLE	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:45 2019 Page 1

ID:LUfQRqX26VNYc9KvTXCGk3ydhzD-efWJKT_RaAPvXJNzrjDJF1lfupGpKxpB8ModAEzoZD8



Scale = 1:25.3

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.32	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.22	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 C n/a n/a	Weight: 42 lb	FT = 20%
	Code IRC2015/TPI2014				

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 OTHERS 2x4 SP No.2

BRACING-

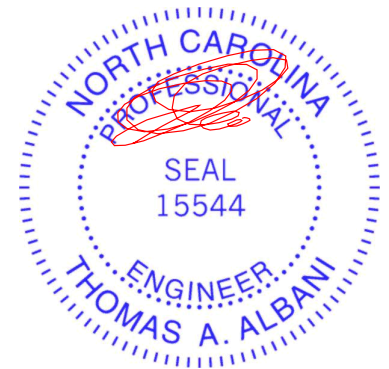
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=215/11-10-8, C=215/11-10-8, D=444/11-10-8
 Max Horz A=70(LC 7)
 Max Uplift A=-18(LC 10), C=-28(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS B-D=-282/64

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; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.



February 4, 2019

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	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179381
DAVID GARAGE RIGHT	V03G	Valley	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:46 2019 Page 1
 ID:LUfQRqX26VNYc9KvTXCGk3ydhzD-6r4hXp?3KUXm9Ty9PQkynErtHDfT3P7LM0YAihzoZD7

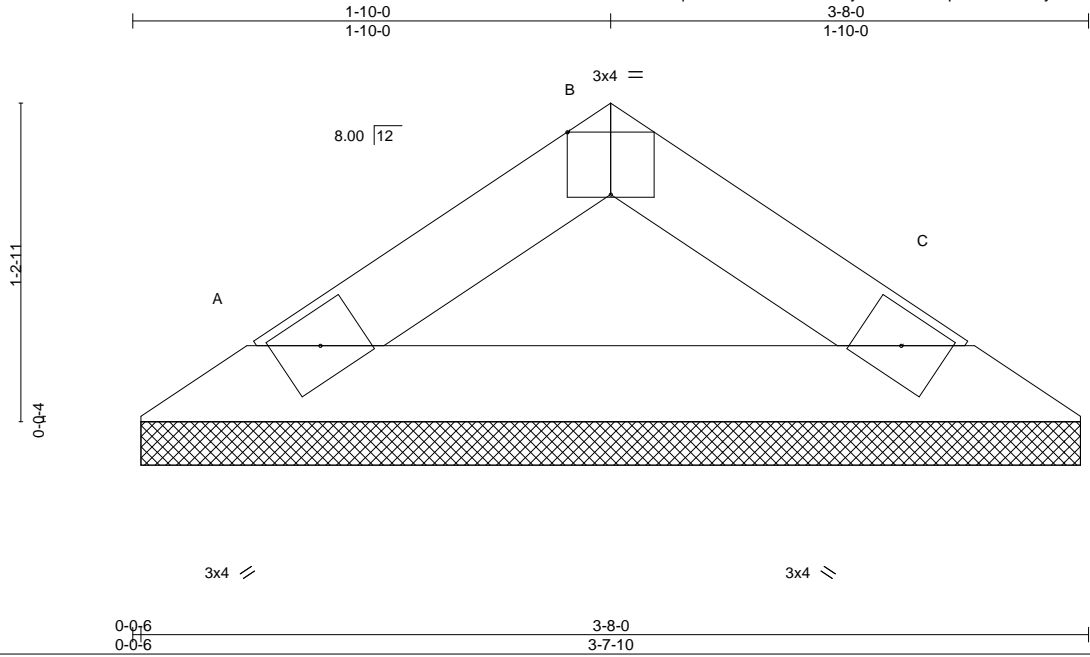


Plate Offsets (X,Y)--	[B:0-2-0,Edge]
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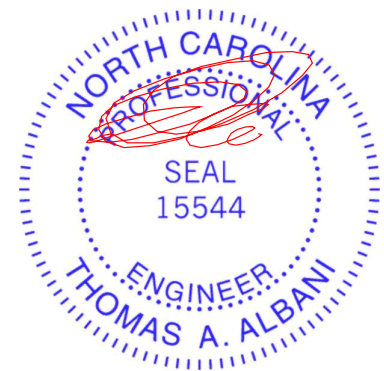
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.02	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	C	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 10 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins.
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=108/3-7-4, C=108/3-7-4
 Max Horz A=17(LC 7)
 Max Uplift A=-2(LC 10), C=-2(LC 11)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 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) A, C.

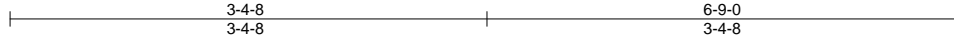


February 4, 2019

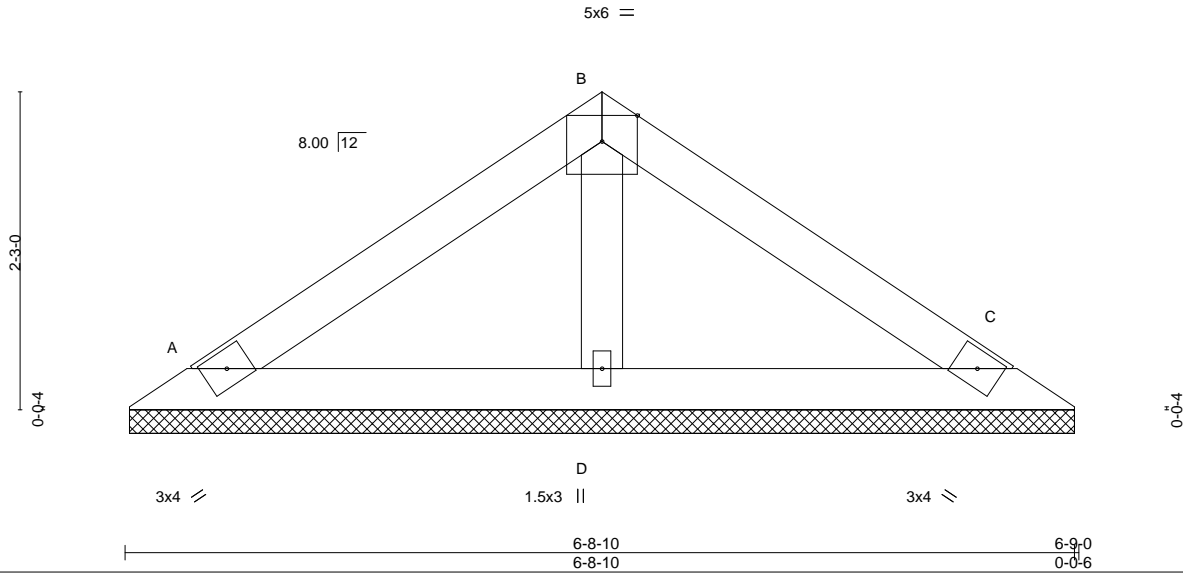
Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179382
DAVID GARAGE RIGHT	V04C	Valley	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:47 2019 Page 1
 ID:LUFQRqX26VNYc9KvTXCGk3ydhzD-a2e3k90i5nfdndXLz8FBKSN1cd?jos5UbgHkF7zoZD6



Scale = 1:16.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.06	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 C n/a n/a		
	Code IRC2015/TPI2014			Weight: 23 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 OTHERS 2x4 SP No.2

BRACING-

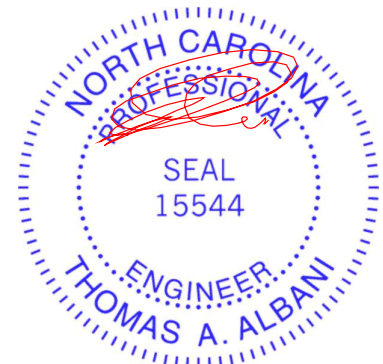
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=125/6-8-4, C=125/6-8-4, D=213/6-8-4
 Max Horz A=-37(LC 6)
 Max Uplift A=-14(LC 10), C=-19(LC 11)

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

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=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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) A, C.



February 4, 2019

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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.



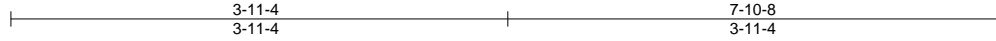
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179383
DAVID GARAGE RIGHT	V04E	Valley	1	1	Job Reference (optional)	

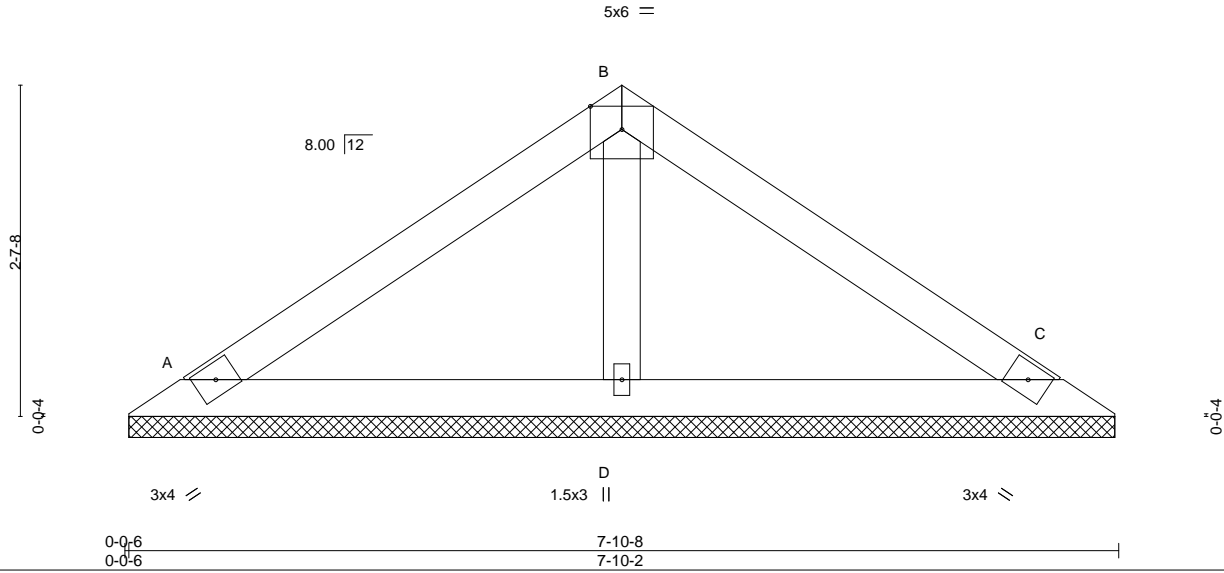
BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:47 2019 Page 1

ID:LUFQRqX26VNYc9KVTXCGk3ydhzD-a2e3k90i5nfdndXLz8FBKSN0nd_Jos0UbgHkF7zoZD6



Scale = 1:18.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.09	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 C n/a n/a	Weight: 27 lb	FT = 20%
	Code IRC2015/TPI2014				

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 OTHERS 2x4 SP No.2

BRACING-

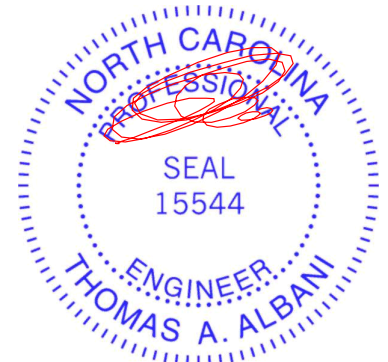
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=149/7-9-12, C=149/7-9-12, D=255/7-9-12
 Max Horz A=-45(LC 6)
 Max Uplift A=-17(LC 10), C=-23(LC 11)

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

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=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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) A, C.



February 4, 2019

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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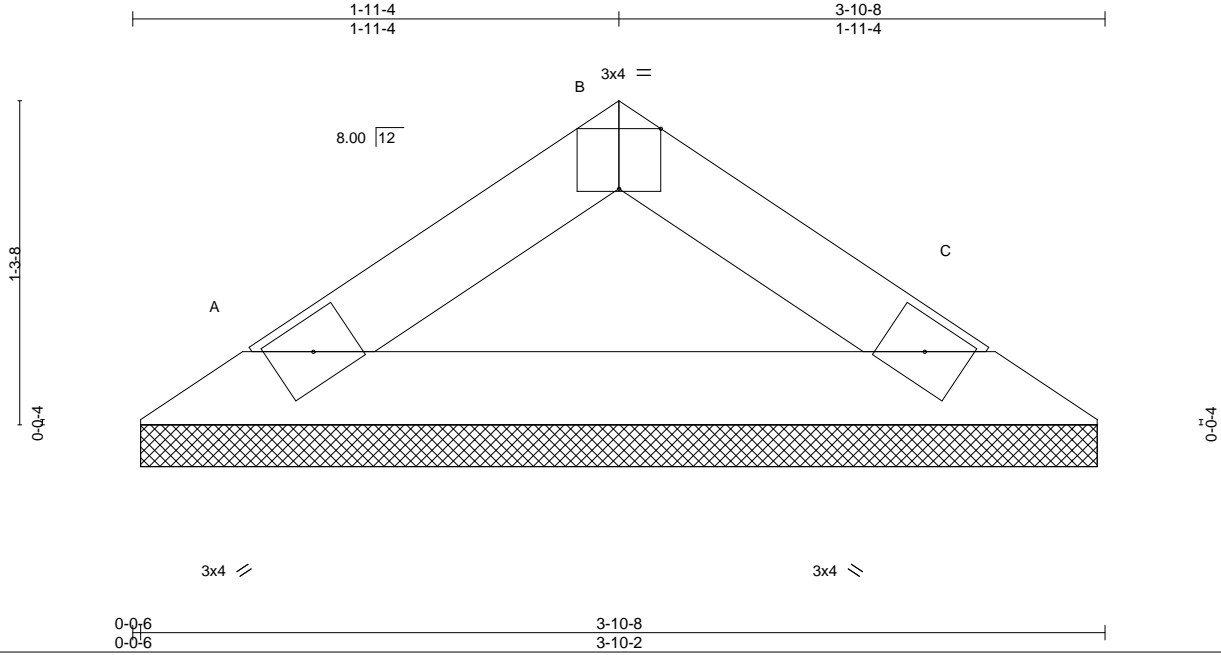
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BLDRS/DAVID GARAGE RIGHT	T16179384
DAVID GARAGE RIGHT	V05E	Valley	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Feb 4 09:26:48 2019 Page 1

ID:LUfQRqX26VNYc9KvTXCGk3ydhzD-2ECSyV1Ks5nUOn6XXrmQtfwDj1KnXJdeqK1HnZzoZD5



Scale = 1:9.2

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.03	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	C	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P					Weight: 11 lb	FT = 20%

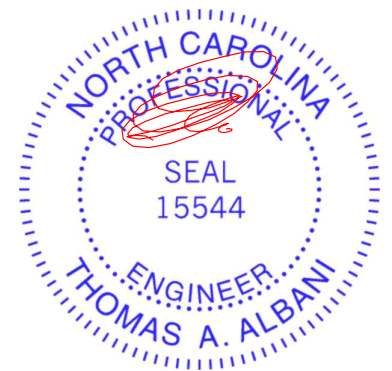
LUMBER-
 TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS

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

REACTIONS. (lb/size) A=116/3-9-12, C=116/3-9-12
 Max Horz A=19(LC 7)
 Max Uplift A=-2(LC 10), C=-2(LC 11)

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

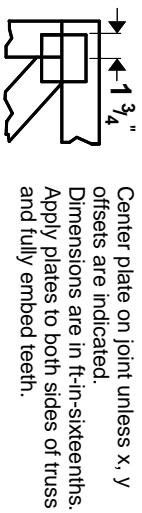
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 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) A, C.



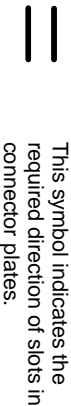
February 4, 2019

Symbols

PLATE LOCATION AND ORIENTATION



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



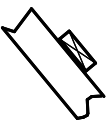
* Plate location details available in **MITrak 20/20 software or upon request.**

PLATE SIZE

4 X 4

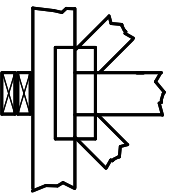
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

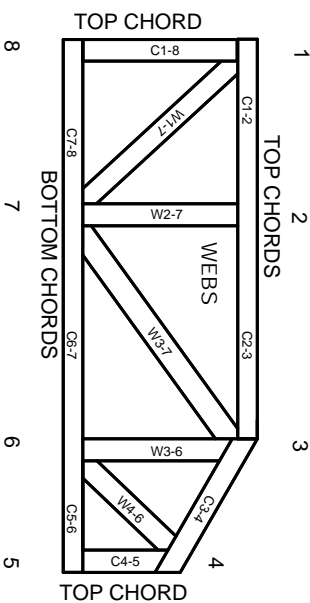


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: 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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MITteK Engineering Reference Sheet: MII-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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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/TPI 1 Quality Criteria.