Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 1800515-1800515A
RG14-A01 WELLONS

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by   84 Components - #2383.

Pages or sheets covered by this seal: I32667263 thru I32667286

My license renewal date for the state of North Carolina is December 31, 2018.

North Carolina COA: C-0844

NORTH CAROLINA
PROFESSIONAL
SEAL
45844
ANDREW JOHNSON
ENGINEER

March 9,2018

Johnson, Andrew

IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	RG14-A01 WELLONS	
1800515-1800515A	G1	COMMON GIRDER	1	2		I32667263
					Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 12:54:30 2018 Page 1
ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-dix3VGGMUToRnJCQQXDovdQw1gYhNq1br3giKlzceoN
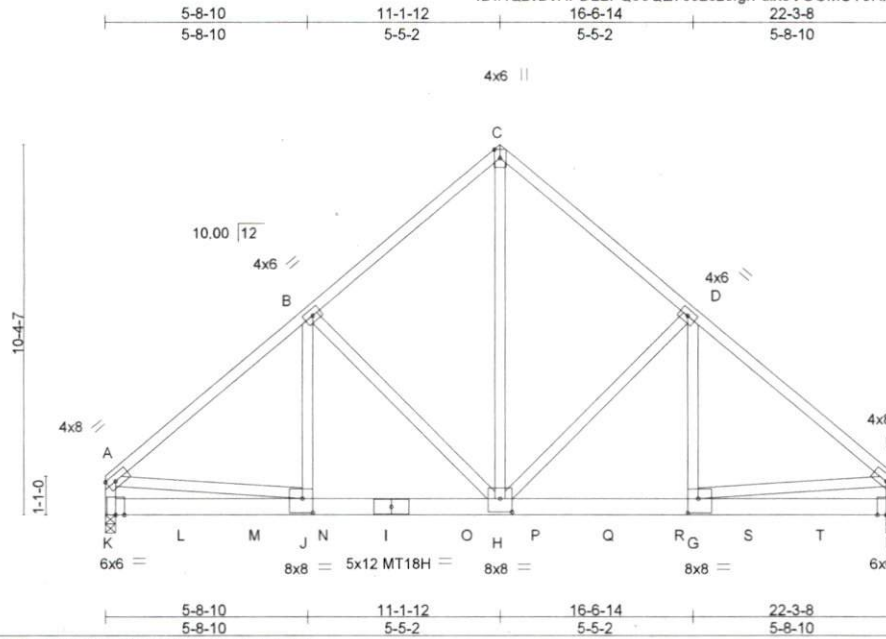
Scale = 1:62.5

Plate Offsets (X,Y)-- [G:0-3-8,0-4-12], [H:0-4-0,0-4-8], [J:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.88	Vert(LL)	-0.11	G-H	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.48	Vert(TL)	-0.27	G-H	>990	180	MT18H	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.87	Horz(TL)	0.03	F	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-MS							Weight: 328 lb	FT = 20%

LUMBER-
TOP CHORD   2x4 SP No.2
BOT CHORD   2x6 SP DSS
WEBS   2x4 SP No.3 *Except*
             C-H,A-K,E-F: 2x4 SP No.2

BRACING-
TOP CHORD   Structural wood sheathing directly applied, except end verticals.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.   (lb/size)   K=6170/0-3-8 (req. 0-4-13), F=6417/0-3-8 (req. 0-5-2)
             Max Horz K=-358(LC 4)
             Max Uplift K=-1567(LC 8), F=-1466(LC 9)
             Max Grav K=6170(LC 1), F=6545(LC 2)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   A-B=-7135/1824, B-C=-5175/1422, C-D=-5175/1423, D-E=-7403/1709, A-K=-5288/1373,
             E-F=-5463/1289
BOT CHORD   J-K=-585/1216, H-J=-1446/5396, G-H=-1208/5614, F-G=-322/1102
WEBS   C-H=-1615/6168, D-H=-2501/730, D-G=-489/2985, B-H=-2144/855, B-J=-651/2460,
             A-J=-1029/4430, E-G=-966/4557

NOTES-
1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) 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.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) WARNING: Required bearing size at joint(s) K, F greater than input bearing size.
9) Bearing at joint(s) K, F considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) K=1567, F=1466.

Continued on page 2

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

NORTH CAROLINA
PROFESSIONAL
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45844
ENGINEER
ANDREW JOHNSON

March 9, 2018

Job	Truss	Truss Type	Qty	Ply	RG14-A01 WELLONS	
1800515-1800515A	G1	COMMON GIRDER	1	2		I32667263
					Job Reference (optional)	

84 Components,   Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 12:54:30 2018 Page 2
ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-dix3VGGMUToRnJCQQXDovdQw1gYhNq1br3giKlzceoN

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1087 lb down and 292 lb up at 2-2-12, 1045 lb down and 295 lb up at 4-2-12, 1045 lb down and 295 lb up at 6-2-12, 1045 lb down and 295 lb up at 8-2-12, 1045 lb down and 295 lb up at 10-2-12, 1215 lb down and 242 lb up at 12-2-12, 1215 lb down and 242 lb up at 14-2-12, 1215 lb down and 242 lb up at 16-2-12, and 1215 lb down and 242 lb up at 18-2-12, and 1215 lb down and 242 lb up at 20-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)
        Vert: A-C=-60, C-E=-60, F-K=-20

Concentrated Loads (lb)
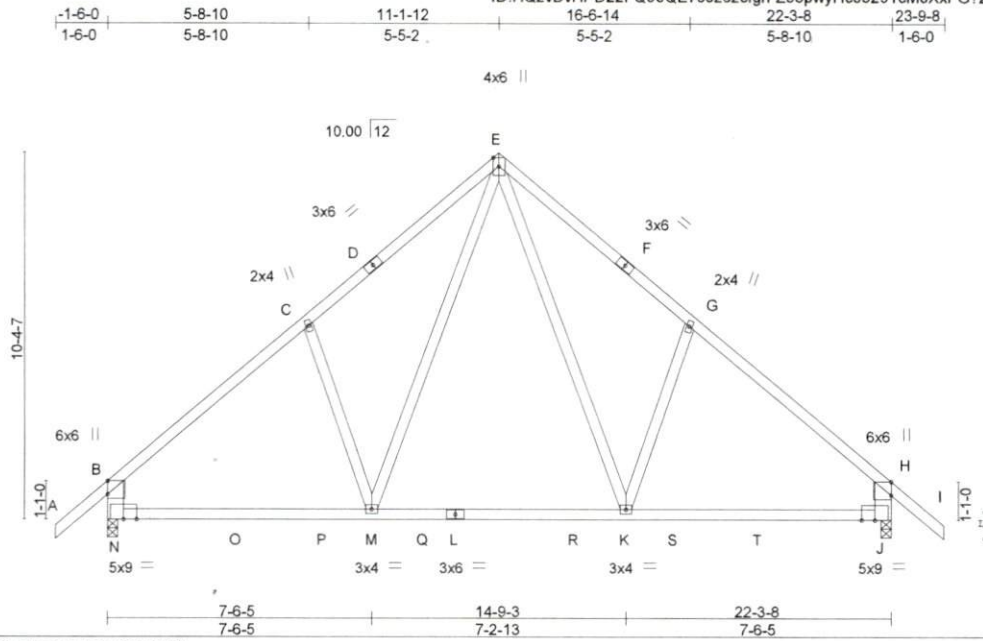   Vert: I=-1045(B) L=-1038(B) M=-1045(B) N=-1045(B) O=-1045(B) P=-1122(B) Q=-1122(B) R=-1122(B) S=-1122(B) T=-1122(B)

ENGINEERING BY
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RG14-A01 WELLONS	
1800515-1800515A	T1	Common	2	1		I32667264
					Job Reference (optional)	

84 Components,   Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 12:54:32 2018 Page 1
ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-Z53pwyHc05291cMoXxFG?2VEoUCsrnduIM9pOdzceoL

Dimensions (top): -1-6-0 | 5-8-10 | 11-1-12 | 16-6-14 | 22-3-8 | 23-9-8
Dimensions: 1-6-0 | 5-8-10 | 5-5-2 | 5-5-2 | 5-8-10 | 1-6-0

4x6 ||

Scale = 1:63.1

10.00 |12

Bottom dimensions: 7-6-5 | 14-9-3 | 22-3-8
7-6-5 | 7-2-13 | 7-6-5

Plate Offsets (X,Y)--   [B:0-4-9,Edge], [H:0-4-9,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	1.00	Vert(LL)	-0.21	K-M	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.62	Vert(TL)	-0.43	K-M	>604	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(TL)	0.03	J	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-MS							Weight: 134 lb	FT = 20%

LUMBER-
TOP CHORD   2x4 SP No.2
BOT CHORD   2x4 SP No.2
WEBS   2x4 SP No.3 *Except*
            B-N,H-J: 2x6 SP No.2

BRACING-
TOP CHORD   Structural wood sheathing directly applied, except end verticals.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size)   N=977/0-3-8, J=977/0-3-8
            Max Horz N=413(LC 9)
            Max Uplift N=-274(LC 10), J=-274(LC 11)
            Max Grav N=1034(LC 17), J=1034(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   B-C=-1064/372, C-E=-1072/538, E-G=-1072/538, G-H=-1064/372, B-N=-925/447,
            H-J=-925/447
BOT CHORD   M-N=-222/932, K-M=-44/657, J-K=-73/761
WEBS   E-K=-305/546, G-K=-384/395, E-M=-305/546, C-M=-384/395

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C;
   enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right
   exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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) Bearing at joint(s) N, J 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) except (jt=lb)
   N=274, J=274.

SEAL
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NORTH CAROLINA PROFESSIONAL ENGINEER ANDREW JOHNSON

March 9, 2018

ENGINEERING BY
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818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	RG14-A01 WELLONS	
1800515-1800515A	T1E	Common Supported Gable	1	1		I32667265
					Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 12:54:34 2018 Page 1
ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-VTBaLdJtYiIsGwVBfMIk4TalyH0mJpZBlgewTWzceoJ

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	-0.01	l	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.08	Vert(TL)	-0.03	l	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(TL)	0.00	J	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-R							Weight: 69 lb	FT = 20%

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

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

REACTIONS. All bearings 11-0-0.
(lb) - Max Horz P=246(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) except P=-129(LC 6), J=-107(LC 7), N=-138(LC 10), O=-148(LC 10), L=-138(LC 11), K=-142(LC 11)
Max Grav All reactions 250 lb or less at joint(s) P, J, M, N, O, L, K

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD D-E=-208/258, E-F=-208/258

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint P, 107 lb uplift at joint J, 138 lb uplift at joint N, 148 lb uplift at joint O, 138 lb uplift at joint L and 142 lb uplift at joint K.

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March 9,2018

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RG14-A01 WELLONS	
1800515-1800515A	T1SE	GABLE	1	1		I32667266
					Job Reference (optional)	

84 Components,   Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 12:54:35 2018 Page 1
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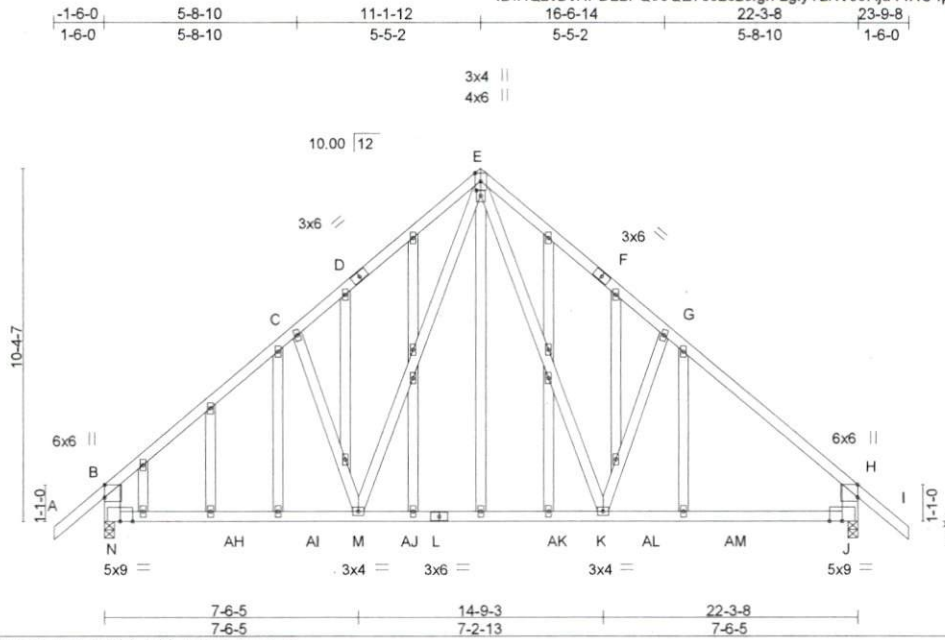
Plate Offsets (X,Y)—   [B:0-4-9,Edge], [E:0-1-12,0-1-8], [H:0-4-9,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	1.00	Vert(LL)	-0.21	K-M	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.62	Vert(TL)	-0.43	K-M	>604	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(TL)	0.03	J	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-MS							Weight: 209 lb	FT = 20%

LUMBER-
TOP CHORD   2x4 SP No.2
BOT CHORD   2x4 SP No.2
WEBS   2x4 SP No.3 *Except*
             B-N,H-J: 2x6 SP No.2
OTHERS   2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied, except end verticals.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size)   N=977/0-3-8, J=977/0-3-8
Max Horz N=413(LC 9)
Max Uplift N=-274(LC 10), J=-274(LC 11)
Max Grav N=1034(LC 17), J=1034(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   B-C=-1064/372, C-E=-1072/538, E-G=-1072/538, G-H=-1064/372, B-N=-925/447,
             H-J=-925/447
BOT CHORD   M-N=-222/932, K-M=-44/657, J-K=-73/761
WEBS   E-K=-305/546, G-K=-384/395, E-M=-305/546, C-M=-384/395

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C;
   enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right
   exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry
   Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
   will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Bearing at joint(s) N, J considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
   capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 274 lb uplift at joint N and 274 lb uplift at
   joint J.

SEAL
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NORTH CAROLINA
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ENGINEER
ANDREW JOHNSON

March 9,2018

Job	Truss	Truss Type	Qty	Ply	RG14-A01 WELLONS	
1800515-1800515A	T2	ROOF TRUSS	5	1		I32667267
					Job Reference (optional)	

84 Components,   Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 12:54:36 2018 Page 1
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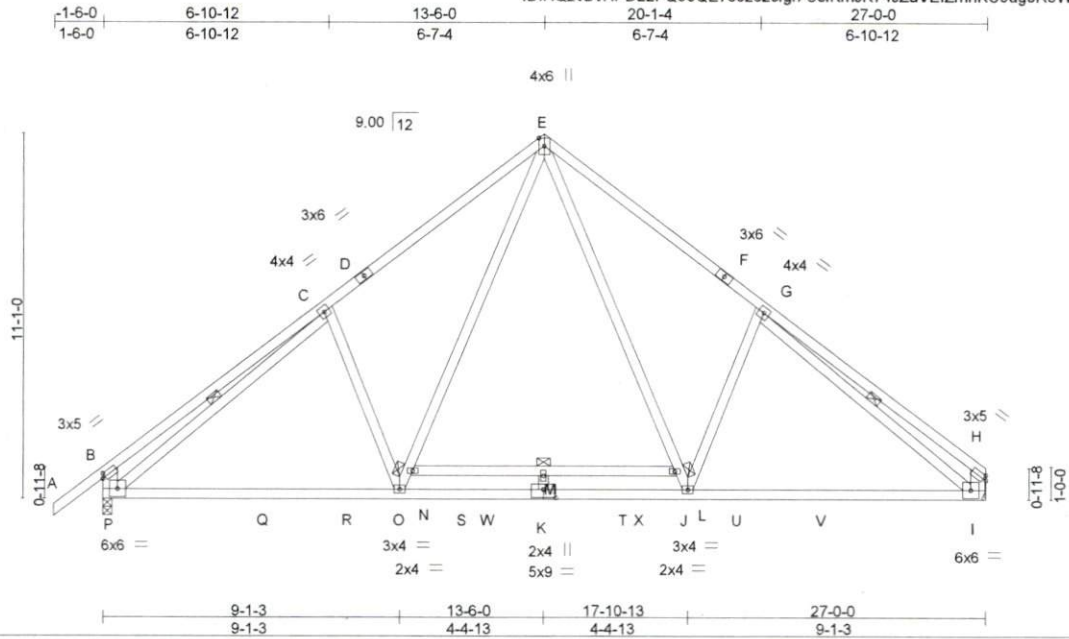
Scale = 1:67.8

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	-0.29	M	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.79	Vert(TL)	-0.56	M	>570	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(TL)	0.05	I	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-MS							Weight: 185 lb	FT = 20%

LUMBER-
TOP CHORD   2x4 SP No.2
BOT CHORD   2x4 SP No.1 *Except*
           L-N: 2x4 SP No.2
WEBS   2x4 SP No.3 *Except*
           B-P,H-I: 2x6 SP No.2

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 3-6-11 oc purlins, except end verticals.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: L-N
WEBS   1 Row at midpt   C-P, G-I

REACTIONS.   (lb/size)   P=1252/0-3-8, I=1142/Mechanical
              Max Horz P=416(LC 7)
              Max Uplift P=-284(LC 10), I=-222(LC 11)
              Max Grav P=1394(LC 18), I=1287(LC 19)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   B-C=-731/354, C-E=-1545/559, E-G=-1558/568, G-H=-534/299, B-P=-585/416, H-I=-479/274
BOT CHORD   O-P=-290/1431, K-O=-18/1041, J-K=-18/1041, I-J=-164/1230
WEBS   E-L=-277/888, J-L=-306/764, G-J=-453/455, N-O=-297/749, E-N=-267/871, C-O=-448/444, C-P=-1292/86, G-I=-1326/119

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 284 lb uplift at joint P and 222 lb uplift at joint I.
7) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

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March 9,2018

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RG14-A01 WELLONS	
1800515-1800515A	T2A	Common	3	1		I32667268
					Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 12:54:40 2018 Page 1
ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-KdYrbhNd7Y30_rzL?dO8JkqeTir9jMW48c5EgAzceoD
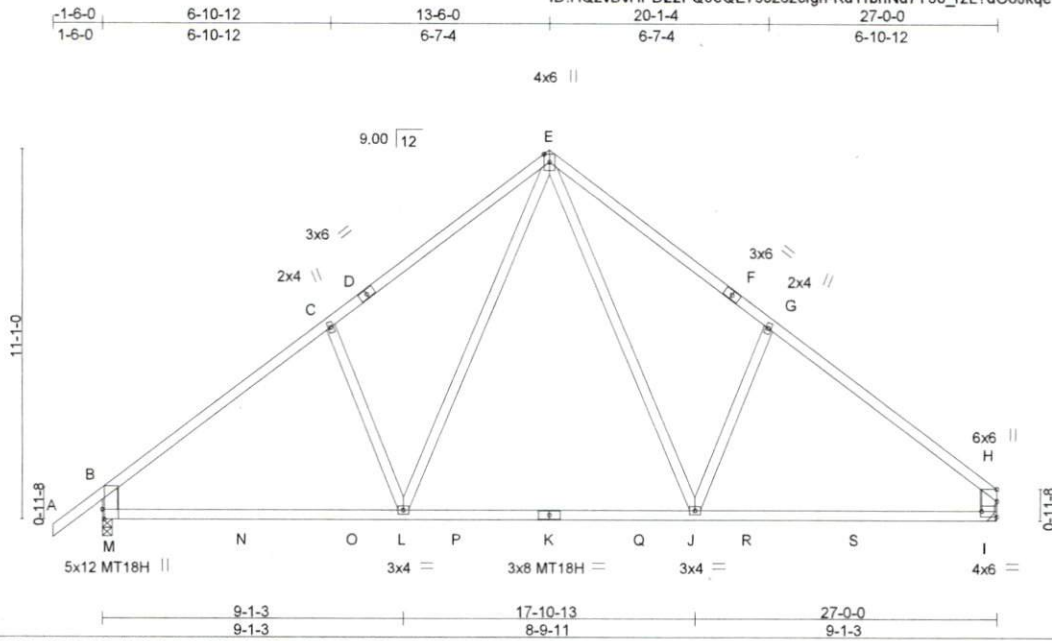
Scale = 1:66.9

Plate Offsets (X,Y)-- [B:0-2-1,0-2-12], [H:0-4-6,0-0-0], [I:Edge,0-2-0], [M:0-3-8,Edge], [M:0-0-0,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.89	Vert(LL)	-0.39	J-L	>826	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.98	Vert(TL)	-0.76	J-L	>418	180	MT18H	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87	Horz(TL)	0.05	I	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-MS							Weight: 148 lb	FT = 20%

LUMBER-
TOP CHORD   2x4 SP No.2 *Except*
            A-D: 2x4 SP No.1
BOT CHORD   2x4 SP No.2
WEBS   2x4 SP No.3 *Except*
            B-M,H-I: 2x6 SP No.2

BRACING-
TOP CHORD   Structural wood sheathing directly applied, except end verticals.
BOT CHORD   Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (lb/size) M=1169/0-3-8, I=1058/Mechanical
Max Horz M=416(LC 7)
Max Uplift M=-334(LC 10), I=-272(LC 11)
Max Grav M=1266(LC 17), I=1159(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   B-C=-1410/487, C-E=-1364/638, E-G=-1355/644, G-H=-1406/488, B-M=-1142/522,
            H-I=-1018/398
BOT CHORD   L-M=-348/1249, J-L=-61/849, I-J=-216/1045
WEBS   E-J=-331/713, G-J=-471/451, E-L=-330/714, C-L=-457/442

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C;
   enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right
   exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
   will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 334 lb uplift at joint M and 272 lb uplift at
   joint I.

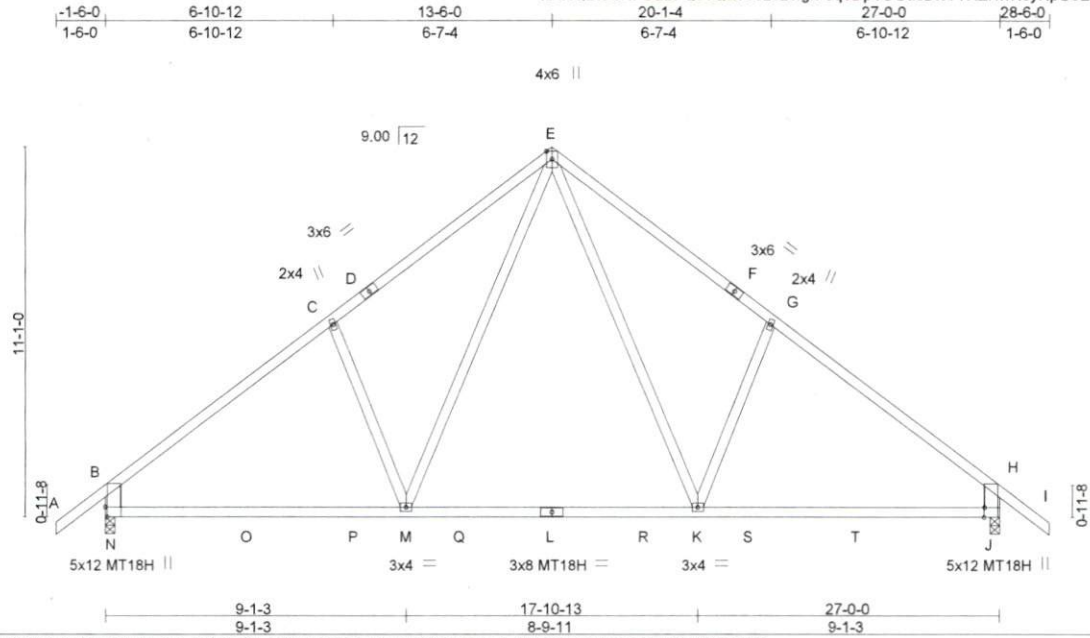North Carolina Professional Engineer Seal 45844, Andrew Johnson

March 9,2018

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RG14-A01 WELLONS	
1800515-1800515A	T2B	Common	2	1		I32667269
					Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 12:54:41 2018 Page 1
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-1-6-0	6-10-12	13-6-0	20-1-4	27-0-0	28-6-0
1-6-0	6-10-12	6-7-4	6-7-4	6-10-12	1-6-0

4x6 ||

9.00 |12

Scale = 1:66.9

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.87	Vert(LL)	-0.33	K-M	>956	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.77	Vert(TL)	-0.65	K-M	>491	180	MT18H	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.86	Horz(TL)	0.05	J	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-MS							Weight: 151 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
A-D,F-I: 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
B-N,H-J: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) N=1165/0-3-8, J=1165/0-3-8
Max Horz N=431(LC 9)
Max Uplift N=-333(LC 10), J=-333(LC 11)
Max Grav N=1264(LC 17), J=1264(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1405/482, C-E=-1363/633, E-G=-1364/633, G-H=-1405/482, B-N=-1139/519, H-J=-1139/519
BOT CHORD M-N=-317/1268, K-M=-31/870, J-K=-130/1057
WEBS E-K=-328/707, G-K=-457/442, E-M=-328/707, C-M=-457/442

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 333 lb uplift at joint N and 333 lb uplift at joint J.

NORTH CAROLINA
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ENGINEER
ANDREW JOHNSON

March 9,2018

ENGINEERING BY
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Job	Truss	Truss Type	Qty	Ply	RG14-A01 WELLONS	
1800515-1800515A	T2E	Common Supported Gable	1	1		I32667270
					Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 12:54:43 2018 Page 1
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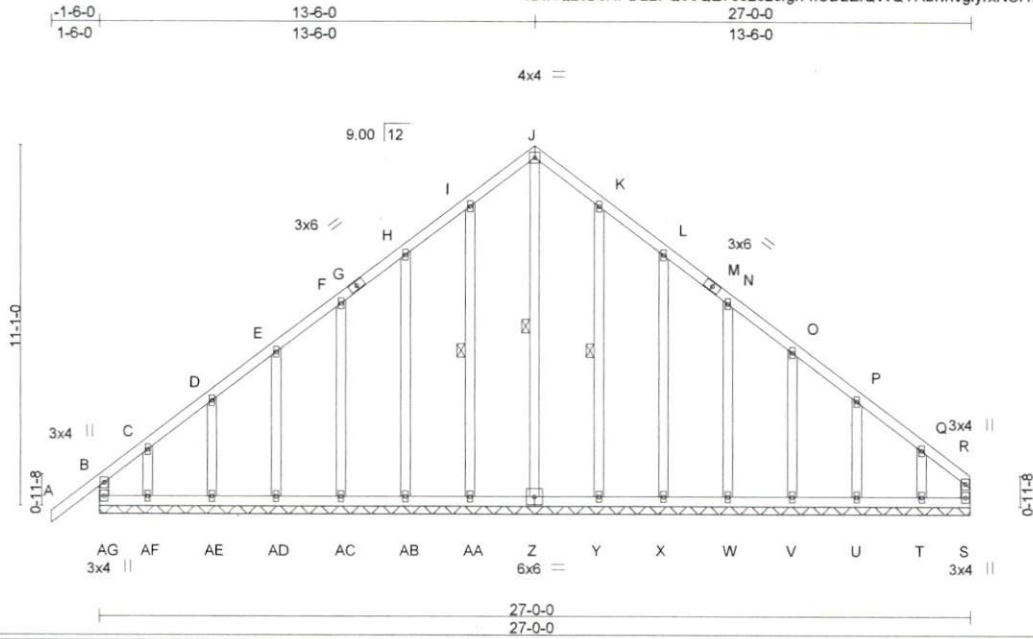
LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.00	A	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.15	Vert(TL)	-0.01	A	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(TL)	0.01	S	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-R							Weight: 205 lb	FT = 20%

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

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD   Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS   1 Row at midpt   J-Z, I-AA, K-Y

REACTIONS.   All bearings 27-0-0.
(lb) - Max Horz AG=413(LC 7)
Max Uplift   All uplift 100 lb or less at joint(s) except AG=-244(LC 6), S=-171(LC 9), AA=-107(LC 10), AB=-130(LC 10), AC=-118(LC 10), AD=-127(LC 10), AE=-102(LC 10), AF=-249(LC 10), Y=-104(LC 11), X=-132(LC 11), W=-118(LC 11), V=-127(LC 11), U=-101(LC 11), T=-258(LC 11)
Max Grav   All reactions 250 lb or less at joint(s) S, AA, AB, AC, AD, AE, Y, X, W, V, U except AG=342(LC 18), Z=404(LC 11), AF=259(LC 8), T=259(LC 18)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   B-AG=-271/195, B-C=-337/295, F-H=-237/290, H-I=-322/363, I-J=-391/445, J-K=-391/445, K-L=-322/363, L-N=-237/260, Q-R=-263/201
WEBS   J-Z=-429/318

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 244 lb uplift at joint AG, 171 lb uplift at joint S, 107 lb uplift at joint AA, 130 lb uplift at joint AB, 118 lb uplift at joint AC, 127 lb uplift at joint AD, 102 lb uplift at joint AE, 249 lb uplift at joint AF, 104 lb uplift at joint Y, 132 lb uplift at joint X, 118 lb uplift at joint W, 127 lb uplift at joint V, 101 lb uplift at joint U and 258 lb uplift at joint T.

NORTH CAROLINA
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ENGINEER
ANDREW JOHNSON

March 9,2018

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Job	Truss	Truss Type	Qty	Ply	RG14-A01 WELLONS	
1800515-1800515A	T3	Roof Special	4	1		I32667271
					Job Reference (optional)	

84 Components,   Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 12:54:46 2018 Page 1
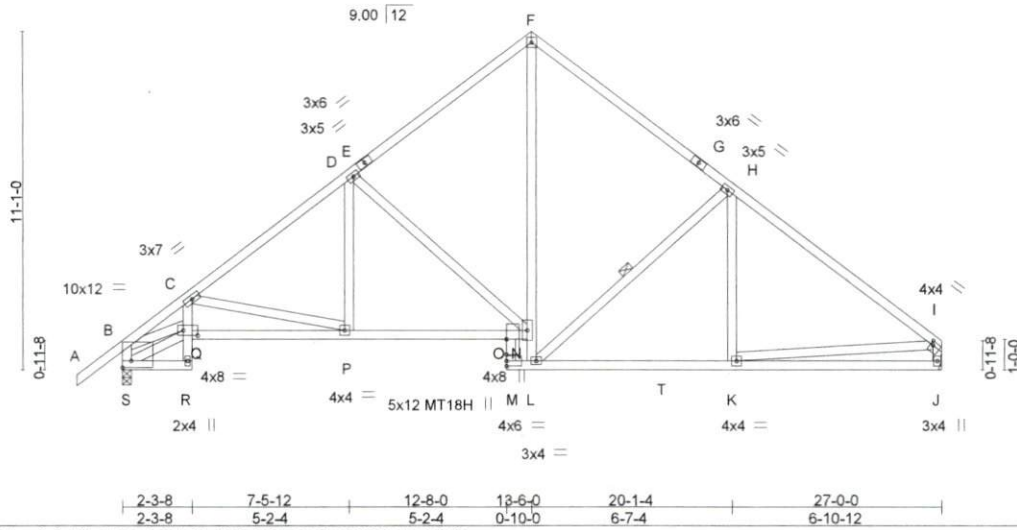ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-9nv6skSOjOp9imQUMuVYZ?4jF7v0732yWYYYupzceo7
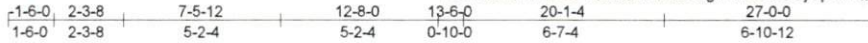
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Plate Offsets (X,Y)-- [B:Edge,0-2-10], [I:0-1-0,0-1-8], [O:0-6-0,0-0-0], [Q:0-5-12,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	-0.15	O-P	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.95	Vert(TL)	-0.41	O-P	>786	180	MT18H	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.86	Horz(TL)	0.26	J	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-MS							Weight: 179 lb	FT = 20%

LUMBER-
TOP CHORD   2x4 SP No.2
BOT CHORD   2x4 SP No.2 *Except*
            C-R: 2x4 SP No.3
WEBS   2x4 SP No.3 *Except*
            F-L: 2x4 SP No.2

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 4-1-9 oc purlins,
            except end verticals.
BOT CHORD   Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS   1 Row at midpt   H-L

REACTIONS. (lb/size)   J=1065/Mechanical, S=1170/0-3-8
            Max Horz S=413(LC 7)
            Max Uplift J=-275(LC 11), S=-333(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   B-C=-1989/648, C-D=-1538/529, D-F=-1123/514, F-H=-1109/512, H-I=-1332/476,
            B-S=-1159/448, I-J=-1032/395
BOT CHORD   C-Q=-135/319, P-Q=-758/1935, O-P=-365/1322, N-O=-318/727, L-M=-47/595,
            K-L=-213/978, J-K=-144/278
WEBS   C-P=-630/404, D-P=-32/393, D-N=-718/406, B-Q=-491/1539, I-K=-102/794, L-N=-163/529,
            F-N=-371/938, H-L=-565/389, Q-S=-383/360

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C;
   enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right
   exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
   will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 275 lb uplift at joint J and 333 lb uplift at
   joint S.

North Carolina Professional Engineer SEAL 45844 ANDREW JOHNSON

March 9,2018

ENGINEERING BY
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Job	Truss	Truss Type	Qty	Ply	RG14-A01 WELLONS	
1800515-1800515A	T5	Common	5	1		I32667272
					Job Reference (optional)	

84 Components,   Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 12:54:47 2018 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	-0.34	H-I	>816	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.95	Vert(TL)	-0.70	H-I	>394	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(TL)	0.02	H	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-MS							Weight: 158 lb	FT = 20%

LUMBER-
TOP CHORD   2x4 SP No.2
BOT CHORD   2x4 SP No.2
WEBS   2x4 SP No.3 *Except*
             B-L: 2x6 SP No.2

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 5-0-3 oc purlins, except end verticals.
BOT CHORD   Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS   1 Row at midpt   C-I, F-I, F-H

REACTIONS. (lb/size)   L=1024/0-3-8, H=913/0-3-8
Max Horz L=465(LC 9)
Max Uplift L=-300(LC 10), H=-225(LC 10)
Max Grav L=1029(LC 17), H=957(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   B-C=-1108/399, C-E=-861/423, E-F=-872/449, F-G=-252/223, B-L=-962/466, G-H=-269/204
BOT CHORD   K-L=-485/556, I-K=-308/1021, H-I=-133/548
WEBS   C-I=-574/383, E-I=-299/671, F-I=-150/266, B-K=-13/650, F-H=-859/203

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 300 lb uplift at joint L and 225 lb uplift at joint H.

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Job	Truss	Truss Type	Qty	Ply	RG14-A01 WELLONS	
1800515-1800515A	T5A	Common	2	1		I32667273
					Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 12:54:49 2018 Page 1
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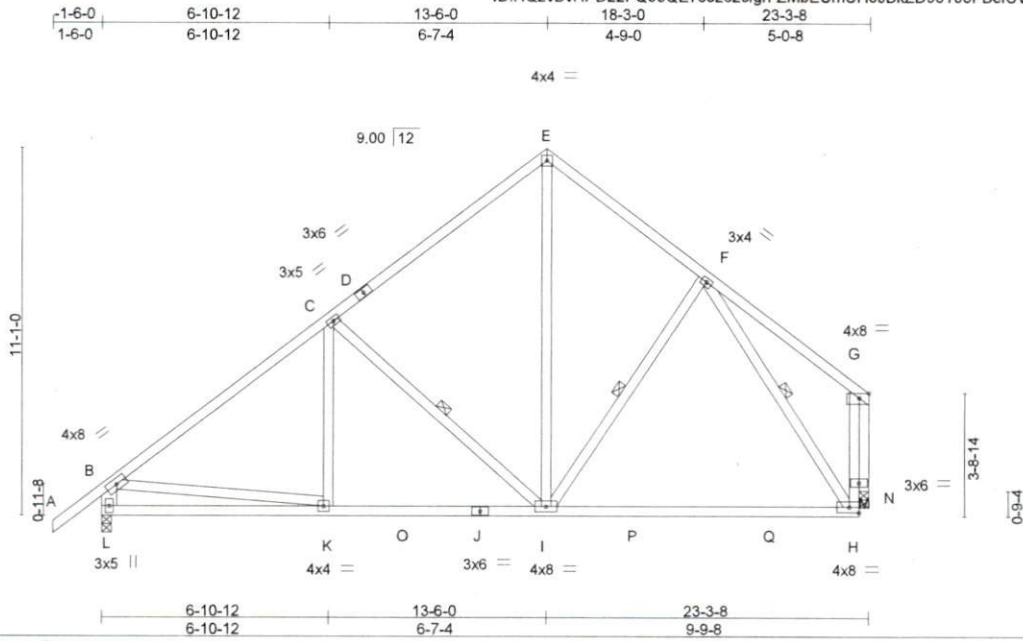
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Plate Offsets (X,Y)-- [G:0-3-8,Edge]

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	-0.29	H-I	>945	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.88	Vert(TL)	-0.60	H-I	>457	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(TL)	-0.02	N	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-MS							Weight: 162 lb	FT = 20%

LUMBER-
TOP CHORD   2x4 SP No.2
BOT CHORD   2x4 SP No.2
WEBS   2x4 SP No.3 *Except*
             B-L: 2x6 SP No.2
OTHERS   2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 5-0-12 oc purlins, except end verticals.
BOT CHORD   Rigid ceiling directly applied or 8-4-12 oc bracing.
WEBS   1 Row at midpt   C-I, F-I, F-H

REACTIONS. (lb/size)   L=1024/0-3-8, N=890/0-3-8
          Max Horz L=400(LC 7)
          Max Uplift L=-292(LC 10), N=-231(LC 10)
          Max Grav L=1031(LC 17), N=934(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   B-C=-1102/379, C-E=-840/402, E-F=-849/427, B-L=-966/452, H-M=-163/770, G-M=-163/770
BOT CHORD   K-L=-486/537, I-K=-382/994, H-I=-135/525
WEBS   C-I=-578/383, E-I=-272/643, F-I=-129/266, B-K=-5/647, F-H=-739/253, G-N=-939/317

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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) Bearing at joint(s) N 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 292 lb uplift at joint L and 231 lb uplift at joint N.

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March 9,2018

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Job	Truss	Truss Type	Qty	Ply	RG14-A01 WELLONS	
1800515-1800515A	T5E	Common Supported Gable	1	1		I32667274
					Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 12:54:50 2018 Page 1
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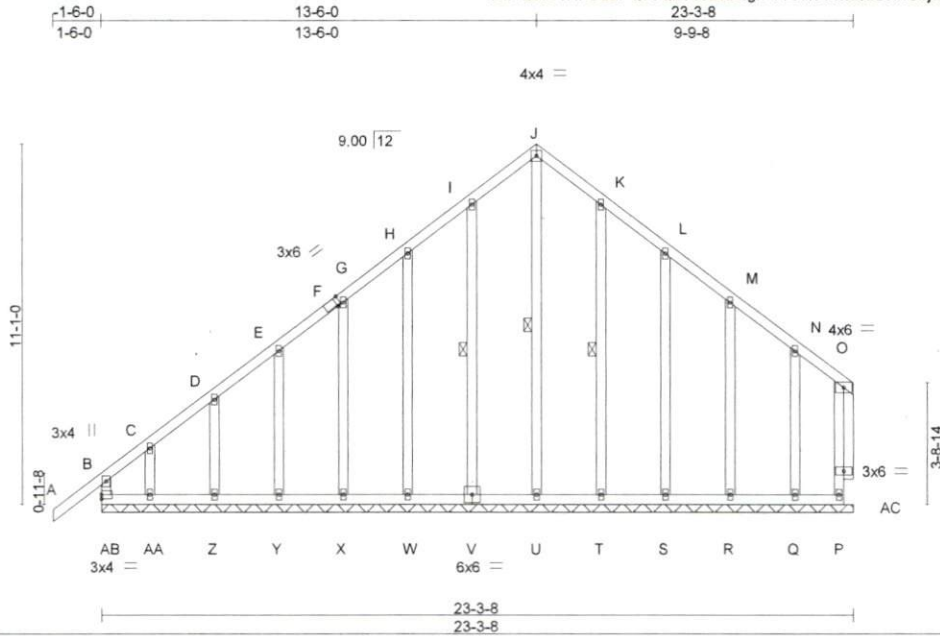
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Plate Offsets (X,Y)-- [F:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.00	A	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.21	Vert(TL)	-0.01	A	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(TL)	-0.00	P	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-R							Weight: 194 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2		
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS	2x4 SP No.3	WEBS	1 Row at midpt J-U, I-V, K-T

REACTIONS.   All bearings 23-3-8.
    (lb) -   Max Horz AB=466(LC 7)
            Max Uplift All uplift 100 lb or less at joint(s) P, Z except AB=-411(LC 6), U=-186(LC 9), V=-110(LC 10),
                W=-129(LC 10), X=-118(LC 10), Y=-128(LC 10), AA=-315(LC 7), T=-103(LC 11), S=-131(LC 11), R=-119(LC 11),
                Q=-139(LC 11)
            Max Grav All reactions 250 lb or less at joint(s) P, V, W, X, Y, Z, T, S, R, Q except AB=490(LC 9), U=408(LC
                11), AA=337(LC 8)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   B-AB=-383/325, B-C=-515/446, C-D=-400/359, D-E=-382/362, E-G=-352/353,
            G-H=-323/345, H-I=-361/416, I-J=-429/497, J-K=-429/497, K-L=-361/416, L-M=-275/314
WEBS   J-U=-489/361

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C;
   enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right
   exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry
   Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
   will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) P, Z except
   (jt=lb) AB=411, U=186, V=110, W=129, X=118, Y=128, AA=315, T=103, S=131, R=119, Q=139.

SEAL
45844
ANDREW JOHNSON

March 9,2018

TRENCO
ENGINEERING BY
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RG14-A01 WELLONS	
1800515-1800515A	T6	Roof Special	3	1		I32667275
					Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 12:54:52 2018 Page 1
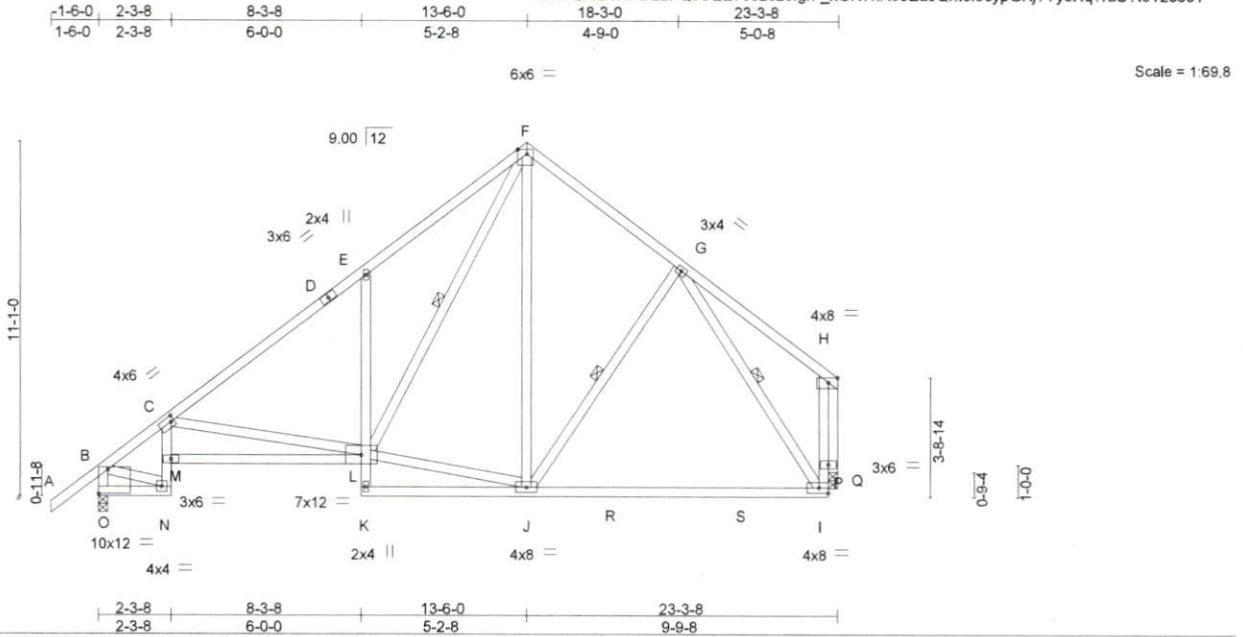ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-_xGN7nX9JEaJQhtei8cypGKj?Yy3Xq?ruU?t5Tzceo1

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

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.72	Vert(LL)	-0.28	I-J	>971	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.91	Vert(TL)	-0.59	I-J	>465	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.64	Horz(TL)	0.15	Q	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-MS						Weight: 178 lb	FT = 20%

LUMBER-
TOP CHORD   2x4 SP No.2
BOT CHORD   2x4 SP No.2 *Except*
            C-N: 2x4 SP No.1, E-K: 2x4 SP No.3
WEBS   2x4 SP No.3
OTHERS   2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 4-7-7 oc purlins, except end verticals.
BOT CHORD   Rigid ceiling directly applied or 5-10-4 oc bracing.
WEBS   1 Row at midpt   F-L, G-J, G-I

REACTIONS.   (lb/size)   O=1022/0-3-8, Q=893/0-3-8
             Max Horz O=399(LC 7)
             Max Uplift O=-291(LC 10), Q=-232(LC 10)
             Max Grav O=1022(LC 1), Q=914(LC 17)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   B-C=-1080/351, C-E=-1194/440, E-F=-1412/713, F-G=-857/431, B-O=-1081/462,
            I-P=-167/756, H-P=-167/756
BOT CHORD   N-O=-342/336, L-M=-901/1749, E-L=-516/443, I-J=-137/514
WEBS   C-L=-828/540, J-L=-55/624, F-L=-578/965, F-J=-131/272, G-J=-127/270, B-N=-249/771,
   G-I=-725/257, H-Q=-943/318

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C;
   enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right
   exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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) Bearing at joint(s) Q 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) except (jt=lb)
   O=291, Q=232.

North Carolina Professional Seal 45844 Engineer Andrew Johnson

March 9,2018

TRENCO
A MiTek Affiliate
ENGINEERING BY

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RG14-A01 WELLONS	I32667276
1800515-1800515A	T7	Attic	11	1	Job Reference (optional)	

84 Components,   Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 12:54:55 2018 Page 1
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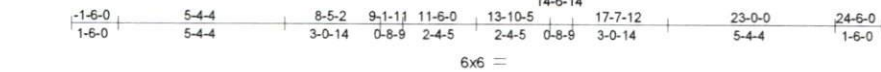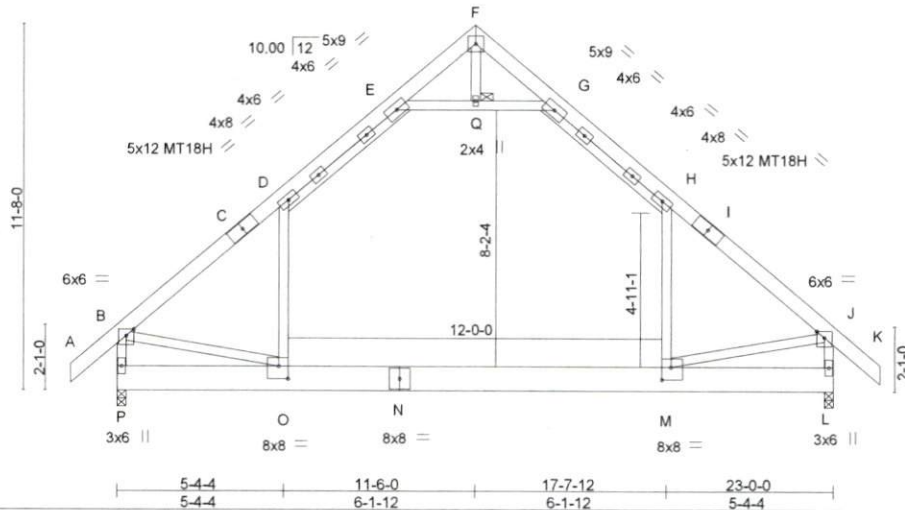
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Plate Offsets (X,Y)-- [M:0-3-8,0-4-12], [O:0-3-8,0-4-12]

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC	0.91	Vert(LL)	-0.30	M-O	>915	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC	0.97	Vert(TL)	-0.55	M-O	>497	180	MT18H	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(TL)	0.01	L	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-MS		Attic	-0.17	M-O	865	360	Weight: 230 lb	FT = 20%

LUMBER-
TOP CHORD   2x6 SP DSS *Except*
       D-E,G-H: 2x4 SP No.2, A-C,I-K: 2x6 SP No.2
BOT CHORD   2x10 SP No.2
WEBS   2x4 SP No.3 *Except*
       H-M,D-O,E-G: 2x4 SP No.2

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD   Rigid ceiling directly applied or 2-2-0 oc bracing.
JOINTS   1 Brace at Jt(s): Q

REACTIONS.   (lb/size)   P=1189/0-3-8, L=1189/0-3-8
       Max Horz P=453(LC 9)
       Max Uplift P=-142(LC 10), L=-142(LC 11)
       Max Grav P=1465(LC 18), L=1465(LC 19)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   B-D=-1605/156, D-E=-1048/320, E-F=-56/397, F-G=-56/397, G-H=-1047/320,
       H-J=-1604/155, B-P=-1525/266, J-L=-1526/266
BOT CHORD   O-P=-410/543, M-O=0/1140
WEBS   H-M=-30/695, D-O=-31/695, E-Q=-1472/464, G-Q=-1472/464, B-O=-21/1021, J-M=-25/1025

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Ceiling dead load (5.0 psf) on member(s). D-E, G-H, E-Q, G-Q; Wall dead load (5.0psf) on member(s).H-M, D-O
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. M-O
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) P=142, L=142.
9) Attic room checked for L/360 deflection.

Job	Truss	Truss Type	Qty	Ply	RG14-A01 WELLONS	
1800515-1800515A	T7E	GABLE	1	1		I32667277
					Job Reference (optional)	

84 Components,   Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 12:54:57 2018 Page 1
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Plate Offsets (X,Y)--   [M:0-3-8,0-4-12], [O:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.91	Vert(LL)	-0.30	M-O	>915	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.97	Vert(TL)	-0.55	M-O	>497	180	MT18H	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(TL)	0.01	L	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-MS		Attic	-0.17	M-O	865	360	Weight: 243 lb	FT = 20%

LUMBER-
TOP CHORD   2x6 SP DSS *Except*
      D-E,G-H: 2x4 SP No.2, A-C,I-K: 2x6 SP No.2
BOT CHORD   2x10 SP No.2
WEBS   2x4 SP No.3 *Except*
      H-M,D-O,E-G: 2x4 SP No.2
OTHERS   2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 2-2-0 oc purlins,
      except end verticals.
BOT CHORD   Rigid ceiling directly applied or 2-2-0 oc bracing.
JOINTS   1 Brace at Jt(s): Q

REACTIONS.   (lb/size)   P=1189/0-3-8, L=1189/0-3-8
      Max Horz P=453(LC 9)
      Max Uplift P=-142(LC 10), L=-142(LC 11)
      Max Grav P=1465(LC 18), L=1465(LC 19)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   B-D=-1605/156, D-E=-1048/320, E-F=-56/397, F-G=-56/397, G-H=-1047/320,
      H-J=-1604/155, B-P=-1525/266, J-L=-1526/266
BOT CHORD   O-P=-410/543, M-O=0/1140
WEBS   H-M=-30/695, D-O=-31/695, E-Q=-1472/464, G-Q=-1472/464, B-O=-21/1021, J-M=-25/1025

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C;
   enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right
   exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry
   Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are MT20 plates unless otherwise indicated.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
   will fit between the bottom chord and any other members.
9) Ceiling dead load (5.0 psf) on member(s). D-E, G-H, E-Q, G-Q; Wall dead load (5.0psf) on member(s).H-M, D-O
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. M-O
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
    P=142, L=142.
12) Attic room checked for L/360 deflection.

SEAL
45844
ANDREW JOHNSON
NORTH CAROLINA
PROFESSIONAL
ENGINEER

March 9,2018

TRENCO
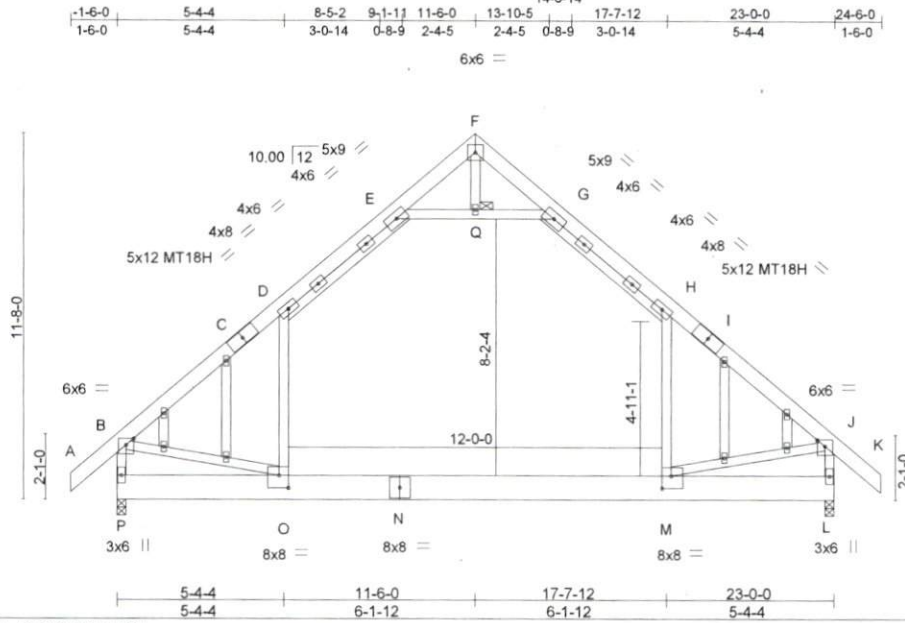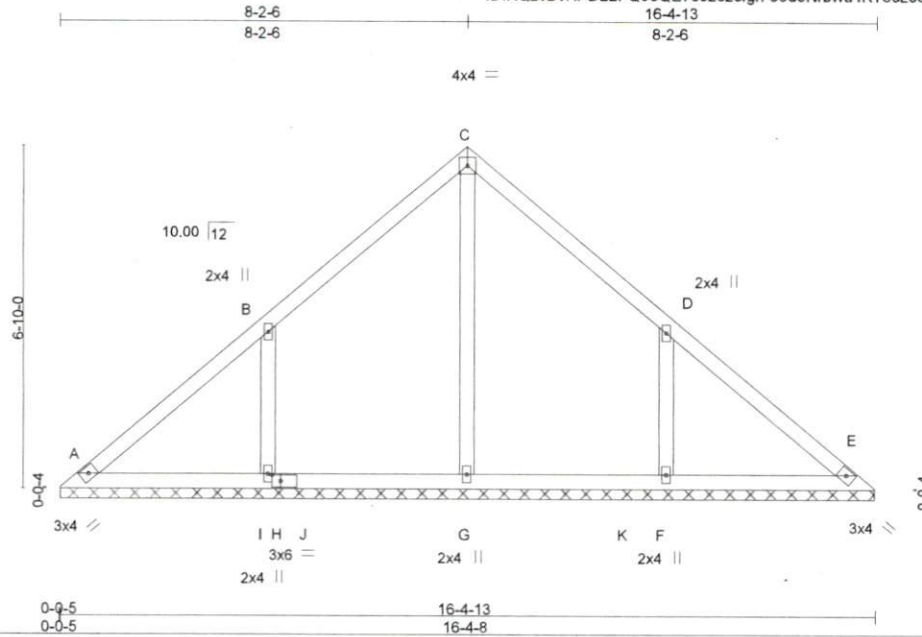ENGINEERING BY
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RG14-A01 WELLONS	
1800515-1800515A	V1	Valley	1	1		I32667278
					Job Reference (optional)	

84 Components,   Dunn, NC 28334   8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 12:54:58 2018 Page 1
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Scale = 1:44.5

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.18	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(TL)	0.00	E	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-S							Weight: 73 lb	FT = 20%

Plate Offsets (X,Y)--   [H:0-2-2,0-1-8]

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

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 16-4-3.
    (lb) -   Max Horz   A=225(LC 7)
           Max Uplift   All uplift 100 lb or less at joint(s) A except I=-321(LC 10), F=-320(LC 11)
           Max Grav   All reactions 250 lb or less at joint(s) A, E except G=371(LC 20), I=474(LC 17), F=473(LC 18)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS   B-I=-415/360, D-F=-415/360

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A except (jt=lb) I=321, F=320.

March 9,2018

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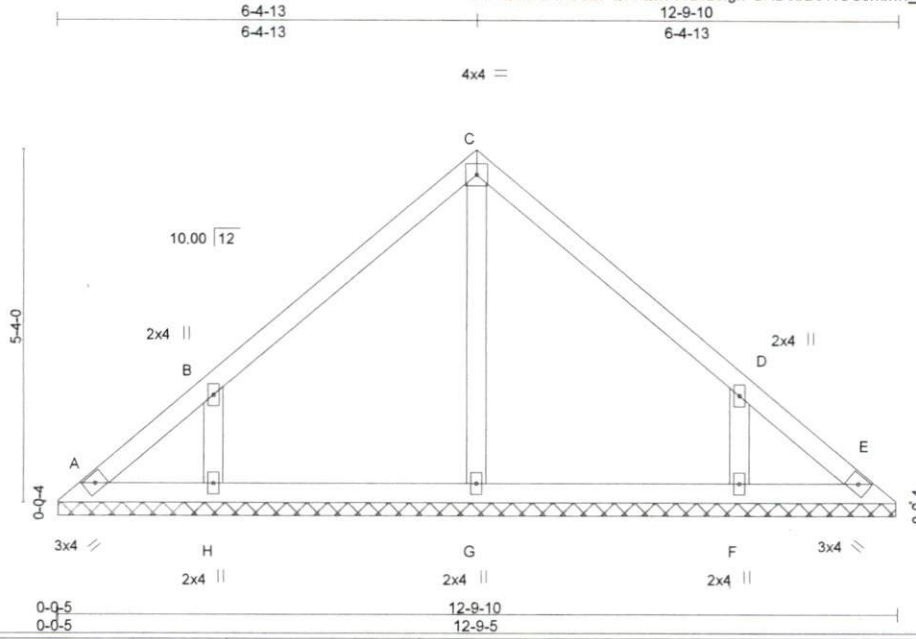ENGINEERING BY
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RG14-A01 WELLONS	
1800515-1800515A	V2	Valley	1	1		I32667279
					Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 12:54:59 2018 Page 1
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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(TL)	0.00	E	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-S							Weight: 54 lb	FT = 20%

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

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 12-9-0.
(lb) -   Max Horz A=-173(LC 6)
Max Uplift   All uplift 100 lb or less at joint(s) A, E except H=-264(LC 10), F=-263(LC 11)
Max Grav   All reactions 250 lb or less at joint(s) A, E, G except H=355(LC 17), F=354(LC 18)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
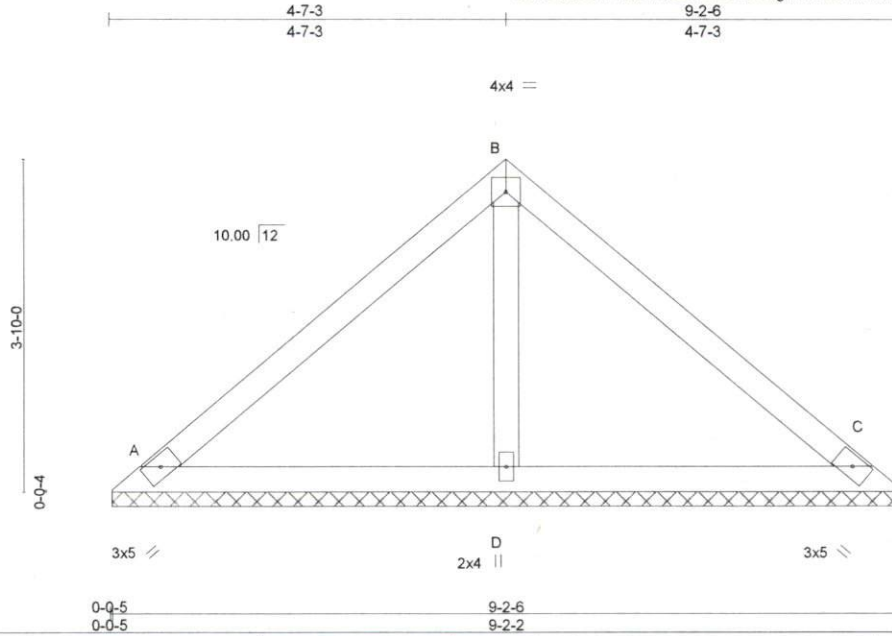WEBS   B-H=-351/306, D-F=-351/306

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C;
   enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right
   exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
   will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, E except (jt=lb)
   H=264, F=263.

SEAL
45844

March 9,2018

TRENCO
A MiTek Affiliate

ENGINEERING BY

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RG14-A01 WELLONS	
1800515-1800515A	V3	Valley	1	1		I32667280
					Job Reference (optional)	

84 Components, Dunn, NC 28334
8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 12:55:00 2018 Page 1
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4-7-3   9-2-6
4-7-3   4-7-3

Scale = 1:25.7

4x4 =

B

10.00 [12

3-10-0

0-0-4

A

C

3x5 //

D
2x4 ||

3x5 \\

0-0-5   9-2-6
0-0-5   9-2-2

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.30	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(TL)	0.00	C	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-S							Weight: 35 lb	FT = 20%

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

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=176/9-1-13, C=176/9-1-13, D=320/9-1-13
Max Horz A=-121(LC 6)
Max Uplift A=-60(LC 11), C=-75(LC 11), D=-52(LC 10)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C, D.

NORTH CAROLINA
PROFESSIONAL
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45844
ENGINEER
ANDREW JOHNSON

March 9,2018

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RG14-A01 WELLONS	
1800515-1800515A	V4	Valley	1	1		I32667281
					Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 12:55:02 2018 Page 1
ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-hst9DCeRyJqudDeZlFolCNkYXaZ4sWBJB1QORuzcent

2-9-10
5-7-3
2-9-10
2-9-10

Scale = 1:17.1

4x4

LOADING (psf)
TCLL 20.0
TCDL 10.0
BCLL 0.0 *
BCDL 10.0

SPACING- 2-0-0
Plate Grip DOL 1.25
Lumber DOL 1.25
Rep Stress Incr YES
Code IRC2012/TPI2007

CSI.
TC 0.21
BC 0.10
WB 0.02
Matrix-P

DEFL. in (loc) l/defl L/d
Vert(LL) n/a - n/a 999
Vert(TL) n/a - n/a 999
Horz(TL) 0.00 C n/a n/a

PLATES GRIP
MT20 244/190

Weight: 20 lb   FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=109/5-6-10, C=109/5-6-10, D=166/5-6-10
Max Horz A=-69(LC 6)
Max Uplift A=-44(LC 11), C=-52(LC 11), D=-10(LC 10)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C, D.

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March 9,2018

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RG14-A01 WELLONS	
1800515-1800515A	V5	Valley	1	1		I32667282
					Job Reference (optional)	

84 Components,   Dunn, NC 28334

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.22	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.20	Horz(TL)	0.01	E	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-S							Weight: 87 lb	FT = 20%

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

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 19-2-0.
(lb) - Max Horz A=-266(LC 6)
        Max Uplift All uplift 100 lb or less at joint(s) A except I=-390(LC 10), F=-390(LC 11)
        Max Grav All reactions 250 lb or less at joint(s) A, E except G=378(LC 20), I=595(LC 17), F=595(LC 18)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS   B-I=-503/434, D-F=-503/434

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A except (jt=lb) I=390, F=390.
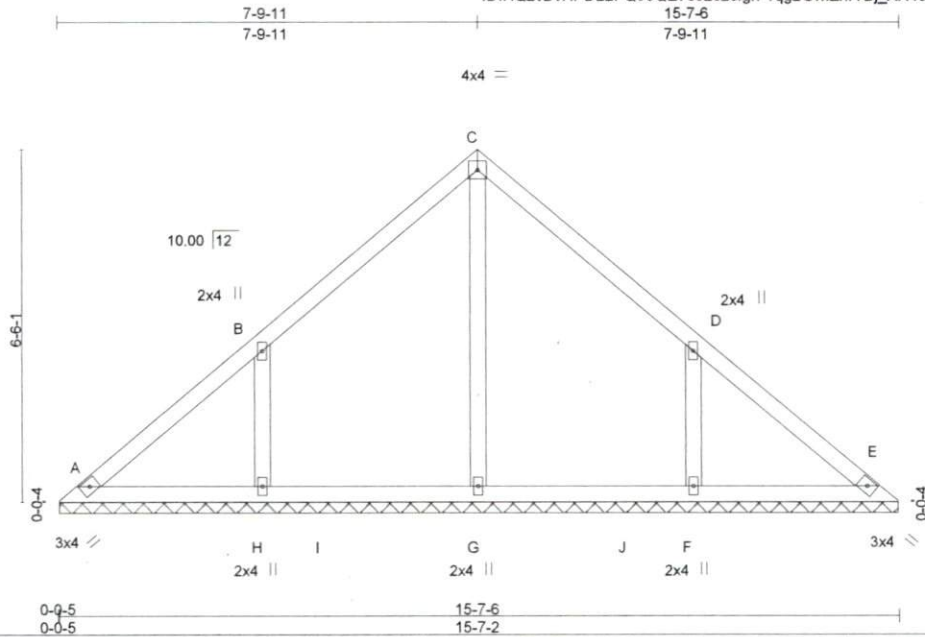
[Professional seal: NORTH CAROLINA PROFESSIONAL SEAL 45844 ENGINEER ANDREW JOHNSON]

March 9,2018

TRENCO
ENGINEERING BY
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RG14-A01 WELLONS	I32667283
1800515-1800515A	V6	Valley	1	1	Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 12:55:07 2018 Page 1
ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-1qg2GwiZnrTBj_XX4oNTvRSNobG9Xly2LJ8966zceno

7-9-11
7-9-11
15-7-6
7-9-11

4x4

Scale = 1:41.1

10.00 [12]

2x4 || (B) 2x4 || (D)

6-6-1

A   0-0-4   H I   G   J F   E   0-0-4

3x4 //   2x4 || 2x4 || 2x4 || 3x4 \\

0-0-5
0-0-5
15-7-6
15-7-2

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(TL)	0.00	E	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-S							Weight: 68 lb	FT = 20%

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

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 15-6-13.
(lb) -   Max Horz   A=-214(LC 6)
Max Uplift   All uplift 100 lb or less at joint(s) A, E except H=-304(LC 10), F=-304(LC 11)
Max Grav   All reactions 250 lb or less at joint(s) A, E except G=362(LC 20), H=441(LC 17), F=441(LC 18)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS   B-H=-395/344, D-F=-395/343

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C;
enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right
exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, E except (jt=lb)
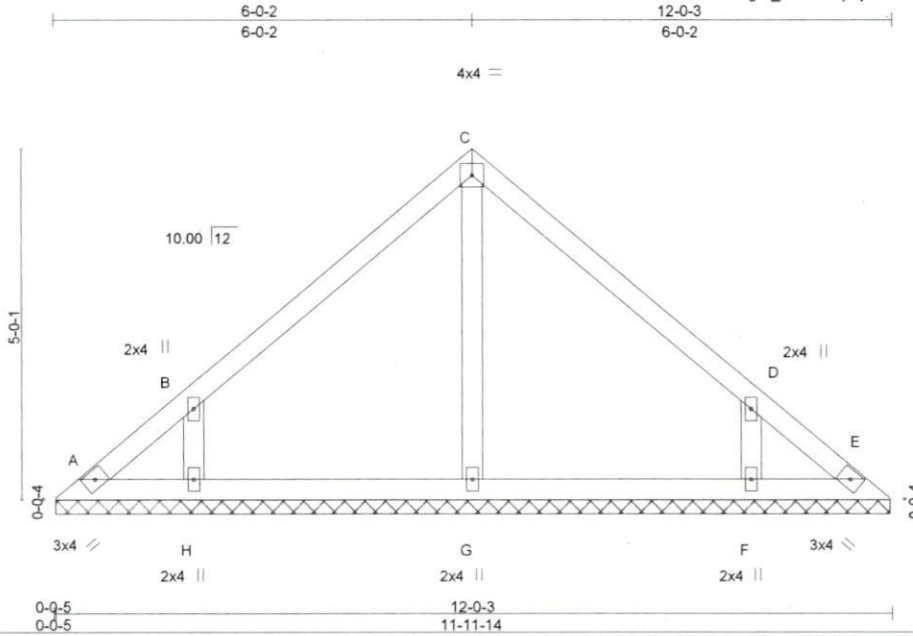H=304, F=304.

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March 9,2018

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RG14-A01 WELLONS	
1800515-1800515A	V7	Valley	1	1		I32667284
					Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 12:55:09 2018 Page 1
ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-_CoohbkqlSjvzlhvCDQx?sXjjOw0?fpLpddGB_zcenm

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.21	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(TL)	0.00	E	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-S							Weight: 49 lb	FT = 20%

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

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 11-11-10.
(lb) - Max Horz A=-162(LC 6)
        Max Uplift All uplift 100 lb or less at joint(s) A, E except H=-262(LC 10), F=-262(LC 11)
        Max Grav All reactions 250 lb or less at joint(s) A, E, G except H=350(LC 17), F=350(LC 18)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS   B-H=-352/307, D-F=-352/307

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C;
   enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right
   exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
   will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, E except (jt=lb)
   H=262, F=262.

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Edenton, NC 27932

March 9, 2018

Job	Truss	Truss Type	Qty	Ply	RG14-A01 WELLONS	
1800515-1800515A	V8	Valley	1	1		I32667285
					Job Reference (optional)	

84 Components,   Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 12:55:10 2018 Page 1
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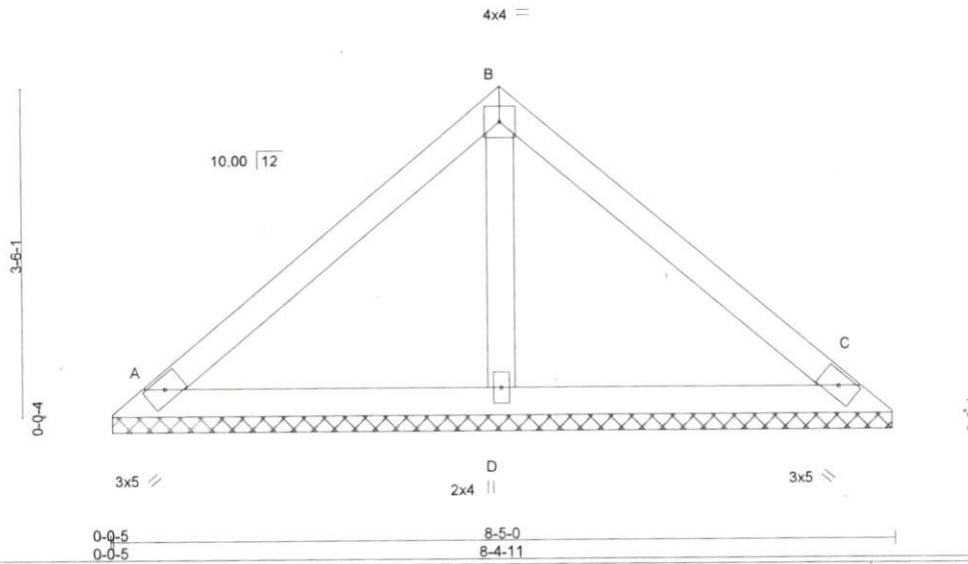
4-2-8
4-2-8
8-5-0
4-2-8

Scale: 1/2"=1'

4x4

B

10.00 [12]

3-6-1

0-0-4

A

C

0-0-4

D
2x4 ||

3x5 //

3x5 \\

0-0-5
0-0-5
8-5-0
8-4-11

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.25	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(TL)	0.00	C	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-P							Weight: 32 lb	FT = 20%

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

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=173/8-4-6, C=173/8-4-6, D=263/8-4-6
Max Horz A=110(LC 7)
Max Uplift A=-69(LC 11), C=-83(LC 11), D=-17(LC 10)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C;
   enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right
   exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
   will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C, D.

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March 9,2018

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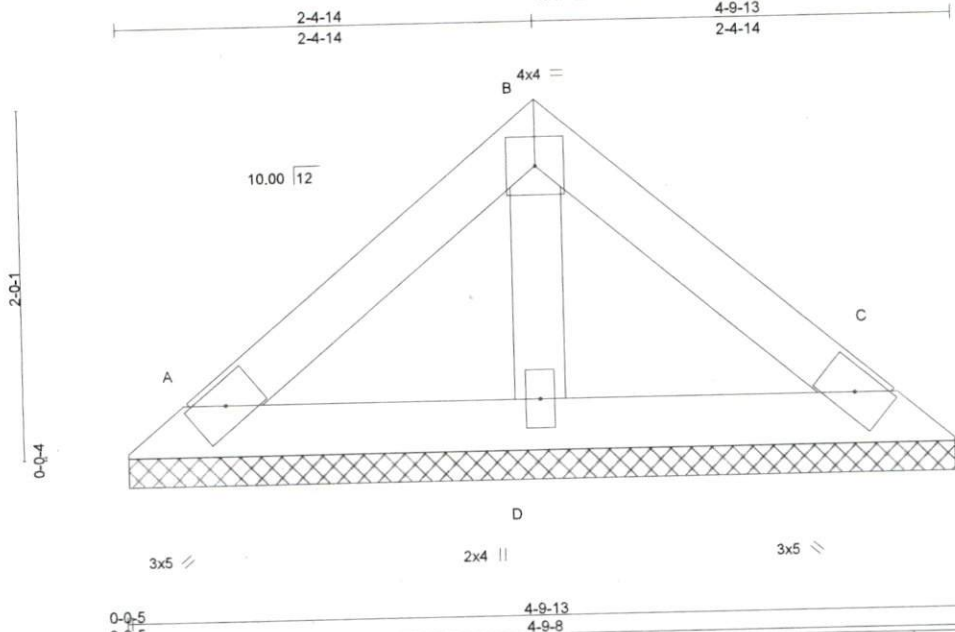ENGINEERING BY
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RG14-A01 WELLONS	
1800515-1800515A	V9	Valley	1	1	Job Reference (optional)	I32667286

84 Components,   Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 12:55:11 2018 Page 1
ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-wbwZ6HI4q4zcCcqlJeSP4Hc6ICeeTaUeGx6NFtzcenk

Scale = 1:12.8

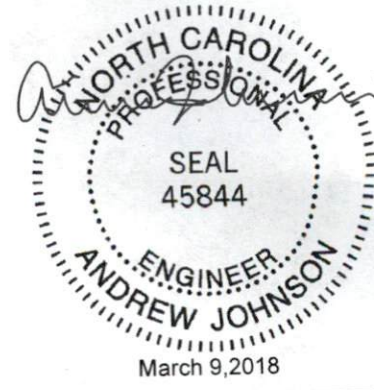| LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(TL)	0.00	C	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-P							Weight: 17 lb	FT = 20%

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

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 4-9-13 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size)   A=91/4-9-3, C=91/4-9-3, D=139/4-9-3
             Max Horz A=58(LC 7)
             Max Uplift A=-37(LC 11), C=-44(LC 11), D=-9(LC 10)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C;
    enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right
    exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
    will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C, D.
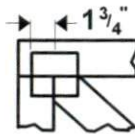
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March 9,2018

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ENGINEERING BY
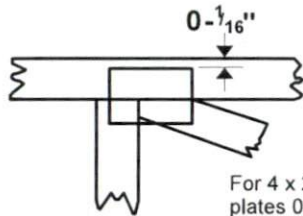
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION

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

$1\frac{3}{4}"$

$0-\frac{1}{16}"$

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

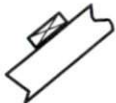This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MiTek 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.
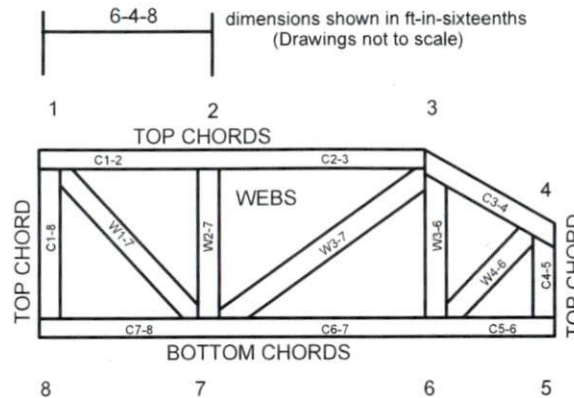
Industry Standards:
ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8   dimensions shown in ft-in-sixteenths
(Drawings not to scale)

```
1              2                    3
        TOP CHORDS
```

TOP CHORD — C1-2 — C2-3 — C3-4 — TOP CHORD
WEBS: C1-8, W1-7, W2-7, W3-7, W3-6, W4-6, C4-5
BOTTOM CHORDS: C7-8, C6-7, C5-6

```
8              7              6          5
```

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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MiTek

ENGINEERING BY
TRENCO
A MiTek Affiliate

MiTek 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 T or 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.
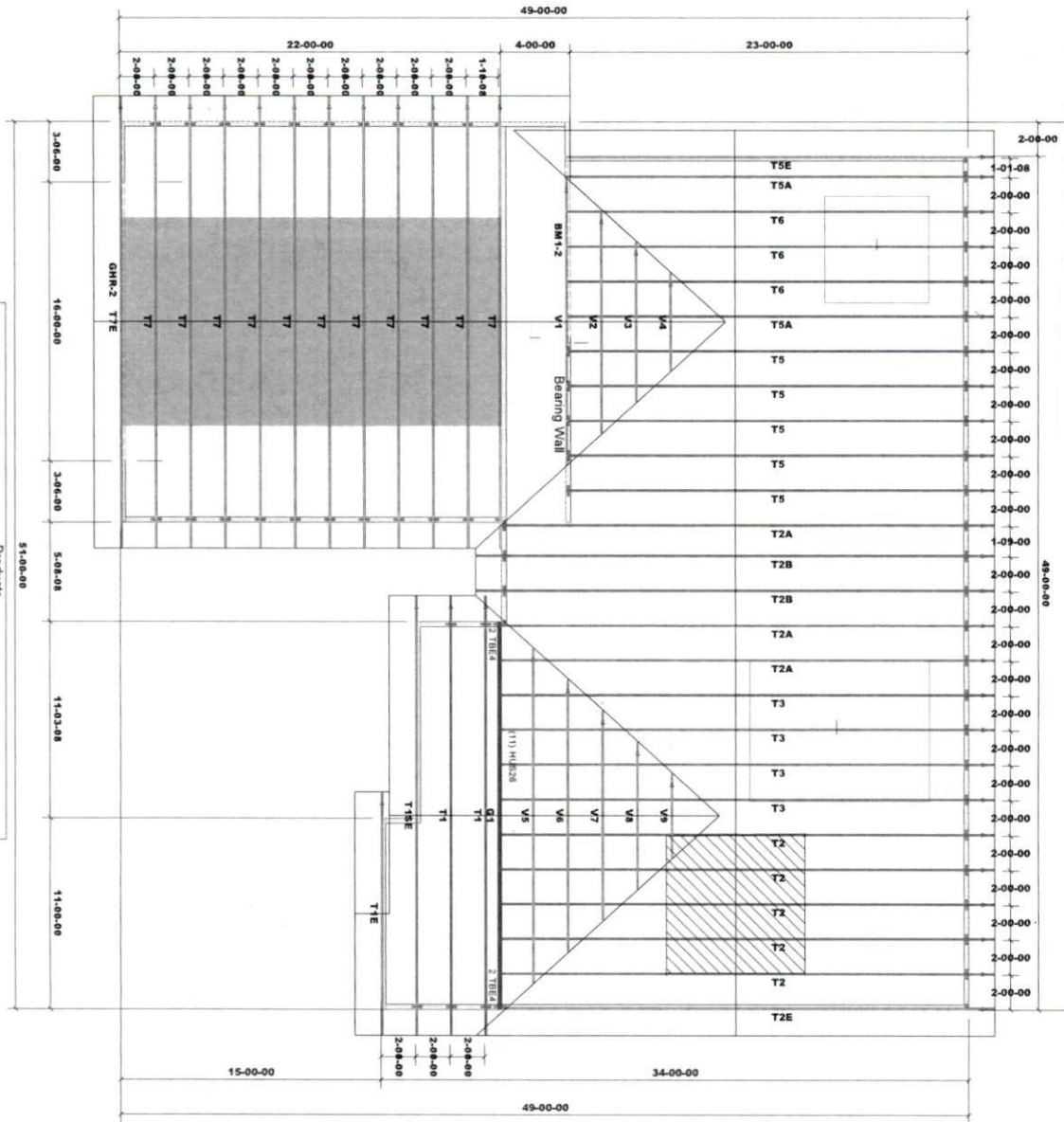
Products

PlotID	Length	Product	Plies	Net Qty
BM1-2	12-00-00	1-3/4" x 9-1/4" VERSA-LAM® 2.0 3100 SP	2	2
GHR-2	24-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

WIND SPEED: 130 mph
BOTTOM DEAD LOAD: 10.0 lb/ft²
TOP DEAD LOAD: 10.0 lb/ft²
TOP LIVE LOAD: 20.0 lb/ft²

PROJECT:
PLanters Glen RG14-A01

CUSTOMER:
Wellon Homes

MODEL:
RG14-A01

QUOTE #:	PRINT DATE:	DRAWN BY:	SCALE:
19445	11/20/2018	Rodney Evans	N.T.S

1st Level Roof Area 2935.60

2nd Level Roof Area 0

84 LUMBER
COMPONENTS

JOB NAME **PLanters Glen RG14-A01**
LOT **22; Oxford Woods**
BUILDER
MODEL **RG14-A01**

TRANSACTION # **19445**
STATUS **Order**

SOLD TO **Wellon Homes**

SHIP TO **Planters Glen**

Dunn ? NC

DEL DATE

SALES REP **Tony Stanley**

CONTACT

84 Lumber Company • 200 Emmett Rd • Dunn • NC • 28334 • Phone: (910) 892-8400 • Fax: (910) 892-8343

Component Item - Roof Trusses

DIAGRAM	QTY PLY	PITCH	LABEL	(Shipping) HEIGHT	Base Span SPAN	LUMBER	OVERHANG LEFT	OVERHANG RIGHT	CANTILEVER LEFT	CANTILEVER RIGHT	STUB LEFT	STUB RIGHT
	1 2-ply	10 /12	G1	10-04-07	22-03-08	2 x 4 2 x 6			-	-	-	-
	2	10 /12	T1	(10-11-00) 10-04-07	22-03-08	2 x 4	1-06-00	1-06-00	-	-	-	-
	1	10 /12	T1E	(6-02-09) 5-08-00	11-00-00	2 x 4	1-06-00	1-06-00	-	-	-	-
	1	10 /12	T1SE	(10-11-00) 10-04-07	22-03-08	2 x 4	1-06-00	1-06-00	-	-	-	-
	5	9 /12	T2	(11-07-06) 11-01-00	27-00-00	2 x 4	1-06-00		-	-	-	-
	3	9 /12	T2A	(11-07-06) 11-01-00	27-00-00	2 x 4	1-06-00		-	-	-	-
	2	9 /12	T2B	(11-07-06) 11-01-00	27-00-00	2 x 4	1-06-00	1-06-00	-	-	-	-
	1	9 /12	T2E	(11-07-06) 11-01-00	27-00-00	2 x 4	1-06-00		-	-	-	-
	4	9 /12	T3	(11-07-06) 11-01-00	27-00-00	2 x 4	1-06-00		-	-	-	-
	5	9 /12	T5	(11-07-06) 11-01-00	23-03-08	2 x 4	1-06-00		-	-	-	-
	2	9 /12	T5A	(11-07-06) 11-01-00	23-03-08	2 x 4	1-06-00		-	-	-	-
	1	9 /12	T5E	(11-07-06) 11-01-00	23-03-08	2 x 4	1-06-00		-	-	-	-
	3	9 /12	T6	(11-07-06) 11-01-00	23-03-08	2 x 4	1-06-00		-	-	-	-
	11	10 /12	T7	11-08-00	23-00-00	2 x 6 2 x 10	1-06-00	1-06-00	-	-	-	-
	1	10 /12	T7E	11-08-00	23-00-00	2 x 6 2 x 10	1-06-00	1-06-00	-	-	-	-
	1	10 /12	V1	6-10-00	16-04-13	2 x 4			-	-	-	-
	1	10 /12	V2	5-04-00	12-09-10	2 x 4			-	-	-	-
	1	10 /12	V3	3-10-00	9-02-06	2 x 4			-	-	-	-
	1	10 /12	V4	2-04-00	5-07-03	2 x 4			-	-	-	-
	1	10 /12	V5	8-00-01	19-02-10	2 x 4			-	-	-	-
	1	10 /12	V6	6-06-01	15-07-06	2 x 4			-	-	-	-
	1	10 /12	V7	5-00-01	12-00-03	2 x 4			-	-	-	-

84 LUMBER COMPONENTS

JOB NAME **PLanters Glen RG14-A01**	TRANSACTION # **19445**
LOT **22; Oxford Woods**	STATUS **Order**
BUILDER	MODEL **RG14-A01**

SOLD TO **Wellon Homes**

SHIP TO **Planters Glen**

Dunn ? NC

DEL DATE

SALES REP **Tony Stanley**

CONTACT

84 Lumber Company • 200 Emmett Rd • Dunn • NC • 28334 • Phone: (910) 892-8400 • Fax: (910) 892-8343

Component Item - Roof Trusses

DIAGRAM	QTY PLY	PITCH	LABEL	(Shipping) HEIGHT	*Base Span* SPAN	LUMBER	OVERHANG LEFT	RIGHT	CANTILEVER LEFT	RIGHT	STUB LEFT	RIGHT
	1	10 /12	V8	3-06-01	8-05-00	2 x 4			-	-	-	-
	1	10 /12	V9	2-00-01	4-09-13	2 x 4			-	-	-	-
	53				1141.46							

Ancillary Items

QTY	Label	Description	Length
2	BM1-2	1-3/4" x 9-1/4" VERSA-LAM® 2.0 3100 SP	12-00-00
2	GHR-2	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	24-00-00
11	HUS26	HUS26	
4	TBE4	TBE4	

Grand Total	$6,794.50

Please review the delivery date, directions, pricing and all order details for accuracy

Thank you for the order.

P.O.#: **RG14-A01 CRAWL SPACE GOL**

Rodney Evans

Notes
Tax and Delivery Included

* IMPORTANT NOTE *

THIS PROPOSAL IS BASED ON LUMBER DESIGN VALUES IN EFFECT AT THE TIME OF THE QUOTE. IN THE EVENT ANY LUMBER DESIGN VALUES CHANGE BEFORE THE COMPLETION OF THE PROJECT, 84 LUMBER COMPANY RESERVES THE RIGHT TO MODIFY THE PRICE ACCORDINGLY.