

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: BROOKE_A
Lamco Custom Homes - Brooke A

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource (Albermarle,NC).

Pages or sheets covered by this seal: E12979312 thru E12979333

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

North Carolina COA: C-0844



April 30, 2019

Gilbert, Eric

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.

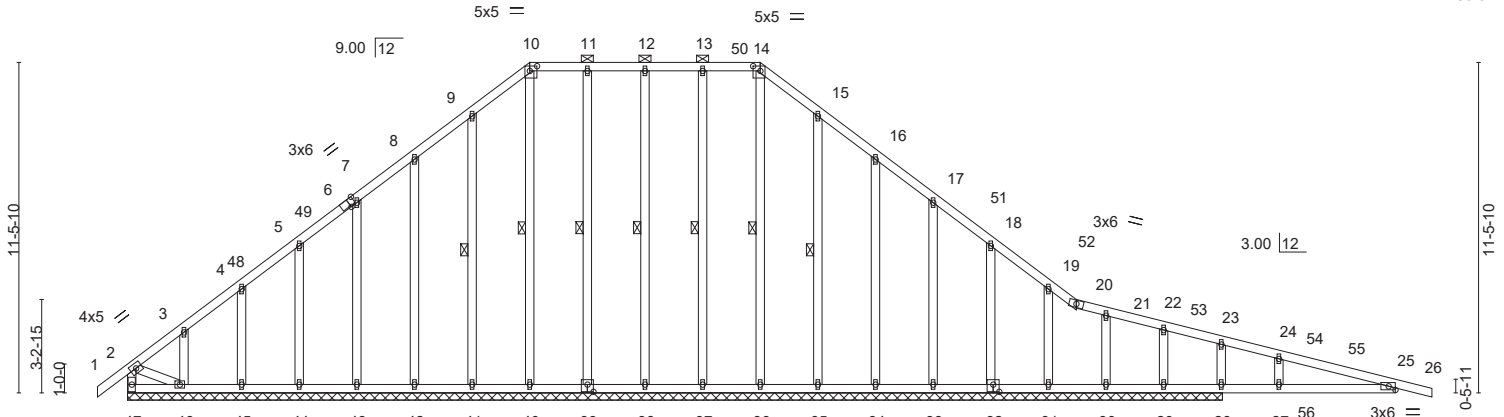
Job BROOKE_A	Truss A1E	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	Lamco Custom Homes - Brooke A	E12979312
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:58:44 2019 Page 1
ID:YP4_zUn5xScc4EqkH69uw6z2JjH-TdqjVwboemi_kGIlp2cz12OI7xuNEnak525eVmzLkof

1-0-8 1-0-8	13-11-8 13-11-8	21-11-8 8-0-0	32-11-2 10-11-10	39-11-8 7-0-6	44-0-0 4-0-8	45-3-4 1-3-4
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Scale = 1:80.0



These truss designs are based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer. This applies to all truss design drawings in this job.

Plate Offsets (X,Y)-- [6:0-2-5,Edge], [10:0-3-0,0-2-0], [14:0-3-0,0-2-0], [32:0-2-8,0-3-0], [39:0-2-8,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.72	Vert(LL) -0.07	25-26	n/r	240	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Lumber DOL 1.15	BC 0.78	Vert(TL) -0.15	25-26	n/r	180		
TCDL 10.0	Rep Stress Incr YES	WB 0.42	Horz(TL) -0.06	28	n/a	n/a		
BCLL 0.0 *	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.02	25-26	n/r	120		
BCDL 10.0							Weight: 338 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 20-26,1-6: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-8-4 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 10-14.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
WEBS 2x4 SP No.2 *Except* 24-27: 2x4 SP No.3	4-9-4 oc bracing: 28-29 4-7-12 oc bracing: 27-28.
OTHERS 2x4 SP No.3	WEBS 1 Row at midpt 14-36, 13-37, 12-38, 11-39, 10-40, 9-41, 15-35

REACTIONS. All bearings 38-0-0.
(lb) - Max Horz 47=-260(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 35, 34, 33, 32 except 47=-866(LC 26), 46=-163(LC 9), 31=-174(LC 22), 29=-269(LC 1), 28=-207(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 38, 42, 43, 44, 45, 34, 33, 31, 30, 29 except 47=387(LC 9), 36=693(LC 26), 37=269(LC 23), 39=269(LC 23), 40=692(LC 1), 41=259(LC 24), 46=481(LC 1), 35=258(LC 24), 32=275(LC 24), 28=933(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-47=-767/872, 2-3=-853/1011, 3-4=-789/1016, 4-5=-720/1014, 5-7=-653/1015, 7-8=-585/1013, 8-9=-521/1022, 9-10=-444/996, 10-11=-327/784, 11-12=-326/783, 12-13=-326/783, 13-14=-327/784, 14-15=-444/996, 15-16=-521/1022, 16-17=-587/1016, 17-18=-647/1007, 18-19=-743/1046, 19-20=-679/889, 20-21=-680/853, 21-22=-668/822, 22-23=-656/780, 23-24=-737/858, 24-25=-769/854
BOT CHORD 45-46=-783/780, 44-45=-783/780, 43-44=-783/780, 42-43=-783/780, 41-42=-783/780, 40-41=-783/780, 39-40=-783/780, 38-39=-783/780, 37-38=-783/780, 36-37=-783/780, 35-36=-783/780, 34-35=-783/780, 33-34=-783/780, 32-33=-783/780, 31-32=-786/782, 30-31=-786/782, 29-30=-786/782, 28-29=-786/782, 27-28=-786/782, 25-27=-786/782
WEBS 14-36=-653/292, 10-40=-652/292, 23-28=-518/312, 2-46=-814/762

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; B=45ft; L=44ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (all heights) and C-C Corner(3) 1-0-8 to 3-4-5, Exterior(2) 3-4-5 to 13-11-8, Corner(3) 13-11-8 to 18-4-5, Exterior(2) 18-4-5 to 21-11-8, Corner(3) 21-11-8 to 26-4-5, Exterior(2) 26-4-5 to 45-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-05; Pr=20.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15; Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15; Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.



April 30, 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job BROOKE_A	Truss A1E	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	Lamco Custom Homes - Brooke A E12979312 Job Reference (optional)
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:58:44 2019 Page 2
ID:YP4_zUn5xScc4EqkH69uw6z2ljH-TdqjVwboemi_kGlp2cz12OI7xuNENak525eVmzLkof

NOTES-

- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 1.5x4 MT20 unless otherwise indicated.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 35, 34, 33, 32 except (jt=lb) 47=866, 46=163, 31=174, 29=269, 28=207.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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818 Soundside Road
Edenton, NC 27932

Job BROOKE_A	Truss A3	Truss Type Piggyback Base	Qty 1	Ply 1	Lamco Custom Homes - Brooke A	E12979314
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:58:47 2019 Page 1
ID:YP4_zUn5xScc4EqkH69uw6z2ljH-uCW7r7yegxh4ZbkQtUBAheg0l29t_R2TAn0KJ65zLkoc

-1-0-8	7-5-12	13-11-8	21-11-8	27-5-5	32-11-2	38-1-4	38-2-12	44-0-0	45-3-4
1-0-8	7-5-12	6-5-12	8-0-0	5-5-13	5-5-13	5-2-2	0-1-8	5-9-4	1-3-4

Scale = 1:81.3

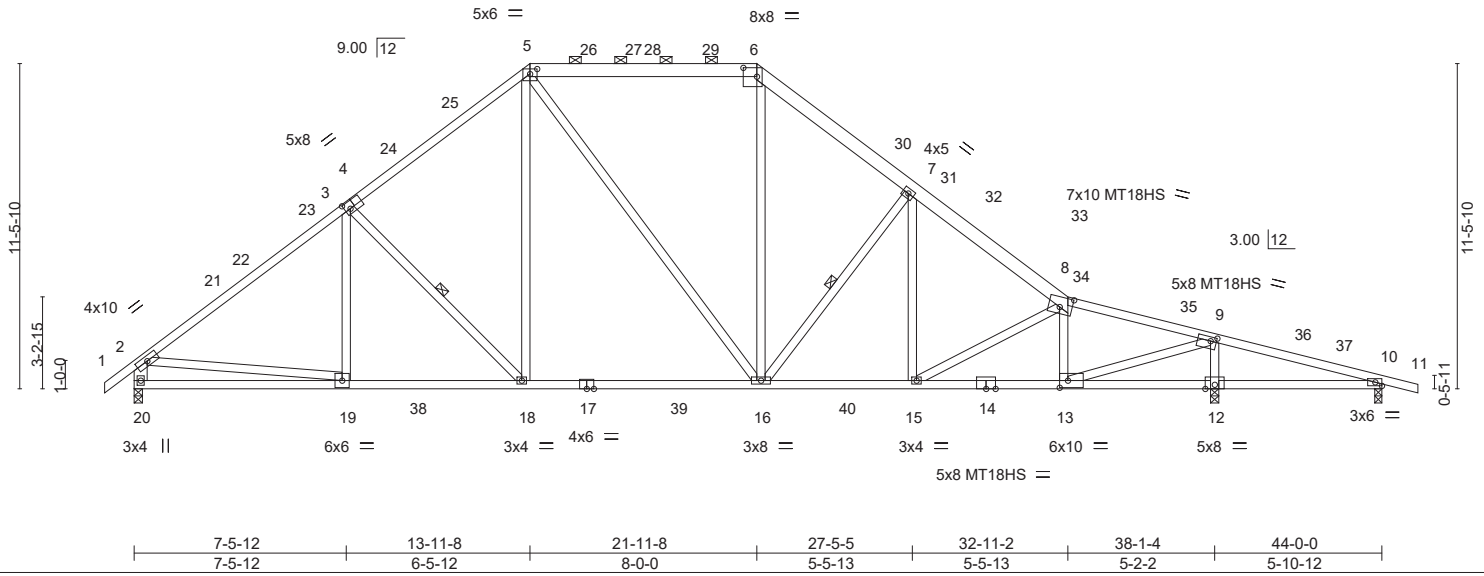


Plate Offsets (X,Y)--	[4:0-0-0,0-1-12], [4:0-2-4,0-3-0], [5:0-3-0,0-2-2], [6:0-5-12,0-3-12], [8:0-5-4,0-4-4], [9:0-2-8,0-1-12], [13:0-3-8,0-3-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 1.00	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Lumber DOL 1.15	BC 0.91	Vert(LL) -0.30 16-18 >999 360	MT18HS	244/190
TCDL 10.0	Rep Stress Incr NO	WB 0.79	Vert(TL) -0.61 16-18 >742 240		
BCLL 0.0 *	Code IRC2009/TPI2007	Matrix-S	Horz(TL) 0.11 12 n/a n/a		
BCDL 10.0			Wind(LL) 0.10 13-15 >999 240		
				Weight: 294 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except*	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-1-0 max.): 5-6.
BOT CHORD 2x4 SP No.1 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 3-18, 7-16

REACTIONS.
(lb/size) 20=2104/0-3-8, 10=138/0-3-0, 12=3582/0-3-8
Max Horz 20=-260(LC 10)
Max Uplift 20=-54(LC 12), 10=-293(LC 24)
Max Grav 20=2291(LC 24), 12=3620(LC 24)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2993/206, 3-5=-2641/274, 5-6=-2235/258, 6-7=-3366/285, 7-8=-4510/240, 8-9=-4433/176, 9-10=-42/1620, 2-20=-2214/229
BOT CHORD 19-20=-147/434, 18-19=-39/2295, 16-18=0/1944, 15-16=0/3278, 13-15=-68/4202, 12-13=-1529/74, 10-12=-1529/74
WEBS 3-18=-481/156, 5-18=-21/682, 5-16=0/614, 6-16=-29/1195, 7-16=-1685/112, 7-15=0/644, 8-15=-1050/104, 8-13=-1728/116, 9-13=-155/6092, 9-12=-3478/209, 2-19=0/1917

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (all heights) and C-C Exterior(2) -1-0-8 to 3-4-5, Interior(1) 3-4-5 to 13-11-8, Exterior(2) 13-11-8 to 18-4-5, Interior(1) 18-4-5 to 21-11-8, Exterior(2) 21-11-8 to 26-4-5, Interior(1) 26-4-5 to 45-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-05; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - 6) Provide adequate drainage to prevent water ponding.
 - 7) All plates are MT20 plates unless otherwise indicated.
 - 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, with BCDL = 10.0psf.
 - 10) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20 except (jt=lb) 10=293.



Job BROOKE_A	Truss A3	Truss Type Piggyback Base	Qty 1	Ply 1	Lamco Custom Homes - Brooke A E12979314
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:58:47 2019 Page 2
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NOTES-

- 12) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 615 lb down and 131 lb up at 32-7-0, and 615 lb down and 131 lb up at 26-3-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-5=-60, 5-6=-60, 8-11=-60, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20
Concentrated Loads (lb)
Vert: 30=-580 34=-580
Trapezoidal Loads (plf)
Vert: 6=-80-to-8=-100
- 2) Dead + Snow (balanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-51, 2-5=-51, 5-6=-61, 8-11=-51, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20
Concentrated Loads (lb)
Vert: 30=-586 34=-586
Trapezoidal Loads (plf)
Vert: 6=-71-to-8=-91
- 3) Dead + Snow (Unbal. Left) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-51, 2-5=-51, 5-26=-51, 6-26=-79, 8-11=-29, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20
Concentrated Loads (lb)
Vert: 30=-513 34=-513
Trapezoidal Loads (plf)
Vert: 6=-49-to-8=-69
- 4) Dead + Snow (Unbal. Right) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-29, 2-5=-29, 5-28=-71, 6-28=-51, 8-11=-51, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20
Concentrated Loads (lb)
Vert: 30=-513 34=-513
Trapezoidal Loads (plf)
Vert: 6=-71-to-8=-91
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-20, 2-5=-20, 5-6=-20, 8-11=-20, 10-20=-40
Concentrated Loads (lb)
Vert: 30=-435 34=-435
Trapezoidal Loads (plf)
Vert: 6=-40-to-8=-60
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=43, 2-21=24, 5-21=18, 5-28=27, 6-28=21, 8-10=18, 10-11=12, 10-20=-12
Horz: 1-2=-55, 2-21=-36, 5-21=-30, 6-30=36, 8-30=30, 8-10=30, 10-11=24, 2-20=16
Drag: 5-28=0, 6-28=0
Concentrated Loads (lb)
Vert: 30=109 34=109
Trapezoidal Loads (plf)
Vert: 6=4-to-30=-4, 30=-10-to-8=-22
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-24=18, 5-24=24, 5-27=21, 6-27=27, 8-36=18, 10-36=30, 10-11=55, 10-20=-12
Horz: 1-2=-24, 2-24=-30, 5-24=-36, 6-8=30, 8-36=30, 10-36=42, 10-11=67, 2-20=-30
Drag: 5-27=0, 6-27=0
Concentrated Loads (lb)
Vert: 30=131 34=131
Trapezoidal Loads (plf)
Vert: 6=-2-to-8=-22
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-5=-3, 5-6=15, 8-10=6, 10-11=1, 10-20=-12
Horz: 1-2=-24, 2-5=-9, 6-8=20, 8-10=18, 10-11=13, 2-20=14
Drag: 5-6=0
Concentrated Loads (lb)
Vert: 30=19 34=19
Trapezoidal Loads (plf)
Vert: 6=-12-to-8=-32
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=3, 2-5=8, 5-29=6, 6-29=15, 8-10=12, 10-11=27, 10-20=-12
Horz: 1-2=-15, 2-5=-20, 6-8=9, 8-10=24, 10-11=39, 2-20=-18
Drag: 5-29=0, 6-29=0
Concentrated Loads (lb)
Vert: 30=19 34=19

Continued on page 3

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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Edenton, NC 27932

Job BROOKE_A	Truss A3	Truss Type Piggyback Base	Qty 1	Ply 1	Lamco Custom Homes - Brooke A E12979314 Job Reference (optional)
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:58:47 2019 Page 3
ID:YP4_zUn5xScc4EqkH69uw6z2ljH-uCW7r7yegxh4ZbkQtUBAheg0l29t_R2TAn0KJ65zLkoc

LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 6=-23-to-8=-43

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-20, 2-5=-25, 5-6=-13, 8-10=-5, 10-11=1, 10-20=-12

Horz: 1-2=8, 2-5=13, 6-8=10, 8-10=7, 10-11=13, 2-20=25

Concentrated Loads (lb)

Vert: 30=-266 34=-266

Trapezoidal Loads (plf)

Vert: 6=-22-to-8=-42

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=3, 2-5=-2, 5-6=-13, 8-10=-13, 10-11=-8, 10-20=-12

Horz: 1-2=-15, 2-5=-10, 6-8=-13, 8-10=-1, 10-11=4, 2-20=-7

Concentrated Loads (lb)

Vert: 30=-266 34=-266

Trapezoidal Loads (plf)

Vert: 6=-45-to-8=-65

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=31, 2-5=16, 5-6=16, 8-10=16, 10-11=31, 10-20=-12

Horz: 1-2=-43, 2-5=-28, 6-8=28, 8-10=28, 10-11=43, 2-20=-22

Drag: 5-6=0

Concentrated Loads (lb)

Vert: 30=32 34=32

Trapezoidal Loads (plf)

Vert: 6=-4-to-8=-24

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=21, 2-5=6, 5-6=6, 8-10=6, 10-11=21, 10-20=-12

Horz: 1-2=-33, 2-5=-18, 6-8=18, 8-10=18, 10-11=33, 2-20=-22

Drag: 5-6=0

Concentrated Loads (lb)

Vert: 30=-43 34=-43

Trapezoidal Loads (plf)

Vert: 6=-14-to-8=-34

14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-8, 2-5=-13, 5-6=-13, 8-10=-13, 10-11=-8, 10-20=-12

Horz: 1-2=-4, 2-5=1, 6-8=-1, 8-10=-1, 10-11=4, 2-20=-12

Concentrated Loads (lb)

Vert: 30=-212 34=-212

Trapezoidal Loads (plf)

Vert: 6=-33-to-8=-53

15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-8, 2-5=-13, 5-6=-13, 8-10=-13, 10-11=-8, 10-20=-12

Horz: 1-2=-4, 2-5=1, 6-8=-1, 8-10=-1, 10-11=4, 2-20=-12

Concentrated Loads (lb)

Vert: 30=-212 34=-212

Trapezoidal Loads (plf)

Vert: 6=-33-to-8=-53

16) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-51, 2-5=-20, 5-6=-20, 8-10=-20, 10-11=-51, 10-20=-20

Concentrated Loads (lb)

Vert: 30=-290 34=-290

Trapezoidal Loads (plf)

Vert: 6=-40-to-8=-60

17) 3rd Dead + Snow (Unbal. Left) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-51, 2-25=-51, 5-25=-61, 5-6=-29, 8-11=-29, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20

Concentrated Loads (lb)

Vert: 30=-513 34=-513

Trapezoidal Loads (plf)

Vert: 6=-71-to-32=-83, 32=-96-to-8=-105

18) 4th Dead + Snow (Unbal. Left) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-29, 2-5=-29, 5-26=-51, 6-26=-79, 8-11=-29, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20

Concentrated Loads (lb)

Vert: 30=-513 34=-513

Trapezoidal Loads (plf)

Vert: 6=-49-to-8=-69

Continued on page 4

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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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job BROOKE_A	Truss A3	Truss Type Piggyback Base	Qty 1	Ply 1	Lamco Custom Homes - Brooke A E12979314
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:58:47 2019 Page 4
ID:YP4_zUn5xScc4EqkH69uw6z2ljH-uCW7yegxh4ZbkQtUBAheg0l29t_R2TAn0KJ65zLkoc

LOAD CASE(S) Standard

- 19) 5th Dead + Snow (Unbal. Left) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-51, 2-23=-51, 5-23=-85, 5-6=-29, 8-11=-29, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20
Concentrated Loads (lb)
Vert: 30=-536 34=-536
Trapezoidal Loads (plf)
Vert: 6=-49-to-8=-69
- 20) 6th Dead + Snow (Unbal. Right) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-29, 2-5=-29, 5-28=-71, 6-28=-51, 8-35=-63, 11-35=-51, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20
Concentrated Loads (lb)
Vert: 30=-513 34=-513
Trapezoidal Loads (plf)
Vert: 6=-49-to-8=-69
- 21) 7th Dead + Snow (Unbal. Right) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-29, 2-5=-29, 5-6=-29, 8-11=-29, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20
Concentrated Loads (lb)
Vert: 30=-513 34=-513
Trapezoidal Loads (plf)
Vert: 6=-98-to-31=-109, 31=-82-to-8=-91
- 22) 8th Dead + Snow (Unbal. Right) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-29, 2-5=-29, 5-6=-29, 8-37=-80, 11-37=-51, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20
Concentrated Loads (lb)
Vert: 30=-513 34=-513
Trapezoidal Loads (plf)
Vert: 6=-49-to-8=-69
- 23) 9th Unbal. Dead + Snow (balanced) + Uninhab. Attic Storage + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-29, 2-5=-29, 5-6=-96, 8-11=-29, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20
Concentrated Loads (lb)
Vert: 30=-615 34=-615
Trapezoidal Loads (plf)
Vert: 6=-49-to-8=-69
- 24) 10th Unbal. Dead + Snow (balanced) + Uninhab. Attic Storage + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-51, 2-22=-51, 5-22=-96, 5-6=-29, 8-11=-29, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20
Concentrated Loads (lb)
Vert: 30=-615 34=-615
Trapezoidal Loads (plf)
Vert: 6=-116-to-33=-133, 33=-88-to-8=-91
- 25) 1st Dead + Roof Live (unbalanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-5=-60, 5-6=-60, 8-11=-20, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20
Concentrated Loads (lb)
Vert: 30=-580 34=-580
Trapezoidal Loads (plf)
Vert: 6=-40-to-8=-60
- 26) 2nd Dead + Roof Live (unbalanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-5=-20, 5-6=-60, 8-11=-60, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20
Concentrated Loads (lb)
Vert: 30=-580 34=-580
Trapezoidal Loads (plf)
Vert: 6=-80-to-8=-100
- 27) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=43, 2-21=24, 5-21=18, 5-28=27, 6-28=21, 8-10=18, 10-11=12, 10-20=-12
Horz: 1-2=-55, 2-21=-36, 5-21=-30, 6-30=36, 8-30=30, 8-10=30, 10-11=24, 2-20=16
Drag: 5-28=0, 6-28=0
Concentrated Loads (lb)
Vert: 30=109 34=109
Trapezoidal Loads (plf)
Vert: 6=4-to-30=-4, 30=-10-to-8=-22
- 28) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-24=18, 5-24=24, 5-27=21, 6-27=27, 8-36=18, 10-36=30, 10-11=55, 10-20=-12
Horz: 1-2=-24, 2-24=-30, 5-24=-36, 6-8=30, 8-36=30, 10-36=42, 10-11=67, 2-20=-30
Drag: 5-27=0, 6-27=0
Concentrated Loads (lb)
Vert: 30=131 34=131
Trapezoidal Loads (plf)
Vert: 6=-2-to-8=-22
- 29) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 5

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818 Soundside Road
Edenton, NC 27932

Job BROOKE_A	Truss A3	Truss Type Piggyback Base	Qty 1	Ply 1	Lamco Custom Homes - Brooke A E12979314 Job Reference (optional)
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:58:47 2019 Page 5
ID:YP4_zUn5xScc4EqkH69uw6z2ljH-uCW7yegx4ZbkQtUBAheg0l29t_R2TAn0KJ65zLkoc

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=12, 2-5=-3, 5-6=15, 8-10=6, 10-11=1, 10-20=-12
Horz: 1-2=-24, 2-5=-9, 6-8=20, 8-10=18, 10-11=13, 2-20=14
Drag: 5-6=0

Concentrated Loads (lb)

Vert: 30=19 34=19

Trapezoidal Loads (plf)

Vert: 6=-12-to-8=-32

30) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=3, 2-5=8, 5-29=6, 6-29=15, 8-10=12, 10-11=27, 10-20=-12
Horz: 1-2=-15, 2-5=-20, 6-8=9, 8-10=24, 10-11=39, 2-20=-18
Drag: 5-29=0, 6-29=0

Concentrated Loads (lb)

Vert: 30=19 34=19

Trapezoidal Loads (plf)

Vert: 6=-23-to-8=-43

31) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-20, 2-5=-25, 5-6=-13, 8-10=-5, 10-11=1, 10-20=-12
Horz: 1-2=8, 2-5=13, 6-8=10, 8-10=7, 10-11=13, 2-20=25

Concentrated Loads (lb)

Vert: 30=-266 34=-266

Trapezoidal Loads (plf)

Vert: 6=-22-to-8=-42

32) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=3, 2-5=-2, 5-6=-13, 8-10=-13, 10-11=-8, 10-20=-12
Horz: 1-2=-15, 2-5=-10, 6-8=-13, 8-10=-1, 10-11=4, 2-20=-7

Concentrated Loads (lb)

Vert: 30=-266 34=-266

Trapezoidal Loads (plf)

Vert: 6=-45-to-8=-65

33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=31, 2-5=16, 5-6=16, 8-10=16, 10-11=31, 10-20=-12
Horz: 1-2=-43, 2-5=-28, 6-8=28, 8-10=28, 10-11=43, 2-20=-22
Drag: 5-6=0

Concentrated Loads (lb)

Vert: 30=32 34=32

Trapezoidal Loads (plf)

Vert: 6=-4-to-8=-24

34) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=21, 2-5=6, 5-6=6, 8-10=6, 10-11=21, 10-20=-12
Horz: 1-2=-33, 2-5=-18, 6-8=18, 8-10=18, 10-11=33, 2-20=-22
Drag: 5-6=0

Concentrated Loads (lb)

Vert: 30=43 34=43

Trapezoidal Loads (plf)

Vert: 6=-14-to-8=-34

35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-8, 2-5=-13, 5-6=-13, 8-10=-13, 10-11=-8, 10-20=-12
Horz: 1-2=-4, 2-5=1, 6-8=-1, 8-10=-1, 10-11=4, 2-20=-12

Concentrated Loads (lb)

Vert: 30=-212 34=-212

Trapezoidal Loads (plf)

Vert: 6=-33-to-8=-53

36) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-8, 2-5=-13, 5-6=-13, 8-10=-13, 10-11=-8, 10-20=-12
Horz: 1-2=-4, 2-5=1, 6-8=-1, 8-10=-1, 10-11=4, 2-20=-12

Concentrated Loads (lb)

Vert: 30=-212 34=-212

Trapezoidal Loads (plf)

Vert: 6=-33-to-8=-53

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818 Soundside Road
Edenton, NC 27932

Job BROOKE_A	Truss A4	Truss Type Piggyback Base	Qty 5	Ply 1	Lamco Custom Homes - Brooke A E12979315 Job Reference (optional)
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:58:48 2019 Page 2
ID:YP4_zUn5xScc4EqkH69uw6z2ljH-MP4DLHeli?CQDu?32uhwBuZwpZCrAVJJ0g3seXzLkob

NOTES-

- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 615 lb down and 131 lb up at 26-3-4, and 615 lb down and 131 lb up at 32-7-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)

- 1) Dead + Roof Live (balanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-5=-60, 5-6=-60, 8-11=-60, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20
Concentrated Loads (lb)
Vert: 30=-580(F) 34=-580(F)
Trapezoidal Loads (plf)
Vert: 6=-80-to-8=-100
- 2) Dead + Snow (balanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-51, 2-5=-51, 5-6=-61, 8-11=-51, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20
Concentrated Loads (lb)
Vert: 30=-586(F) 34=-586(F)
Trapezoidal Loads (plf)
Vert: 6=-71-to-8=-91
- 3) Dead + Snow (Unbal. Left) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-51, 2-5=-51, 5-26=-51, 6-26=-79, 8-11=-29, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20
Concentrated Loads (lb)
Vert: 30=-513(F) 34=-513(F)
Trapezoidal Loads (plf)
Vert: 6=-49-to-8=-69
- 4) Dead + Snow (Unbal. Right) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-29, 2-5=-29, 5-28=-71, 6-28=-51, 8-11=-51, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20
Concentrated Loads (lb)
Vert: 30=-513(F) 34=-513(F)
Trapezoidal Loads (plf)
Vert: 6=-71-to-8=-91
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-20, 2-5=-20, 5-6=-20, 8-11=-20, 10-20=-40
Concentrated Loads (lb)
Vert: 30=-435(F) 34=-435(F)
Trapezoidal Loads (plf)
Vert: 6=-40-to-8=-60
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=43, 2-21=24, 5-21=18, 5-28=27, 6-28=21, 8-10=18, 10-11=12, 10-20=-12
Horz: 1-2=-55, 2-21=-36, 5-21=-30, 6-30=36, 8-30=30, 8-10=30, 10-11=24, 2-20=16
Drag: 5-28=0, 6-28=0
Concentrated Loads (lb)
Vert: 30=109(F) 34=109(F)
Trapezoidal Loads (plf)
Vert: 6=4-to-30=-4, 30=-10-to-8=-22
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-24=18, 5-24=24, 5-27=21, 6-27=27, 8-36=18, 10-36=30, 10-11=55, 10-20=-12
Horz: 1-2=-24, 2-24=-30, 5-24=-36, 6-8=30, 8-36=30, 10-36=42, 10-11=67, 2-20=-30
Drag: 5-27=0, 6-27=0
Concentrated Loads (lb)
Vert: 30=131(F) 34=131(F)
Trapezoidal Loads (plf)
Vert: 6=-2-to-8=-22
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-5=-3, 5-6=15, 8-10=6, 10-11=1, 10-20=-12
Horz: 1-2=-24, 2-5=-9, 6-8=20, 8-10=18, 10-11=13, 2-20=14
Drag: 5-6=0
Concentrated Loads (lb)
Vert: 30=19(F) 34=19(F)
Trapezoidal Loads (plf)
Vert: 6=-12-to-8=-32
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=3, 2-5=8, 5-29=6, 6-29=15, 8-10=12, 10-11=27, 10-20=-12
Horz: 1-2=-15, 2-5=-20, 6-8=9, 8-10=24, 10-11=39, 2-20=-18
Drag: 5-29=0, 6-29=0
Concentrated Loads (lb)
Vert: 30=19(F) 34=19(F)
Trapezoidal Loads (plf)
Vert: 6=-23-to-8=-43

Continued on page 3

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818 Soundside Road
Edenton, NC 27932

Job BROOKE_A	Truss A4	Truss Type Piggyback Base	Qty 5	Ply 1	Lamco Custom Homes - Brooke A E12979315 Job Reference (optional)
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:58:48 2019 Page 3
ID:YP4_zUn5xScc4EqkH69uw6z2ljH-MP4DLHeli?CQDU?32uhwBuZwpZCrAVJJ0g3seXzLkob

LOAD CASE(S)

- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-20, 2-5=-25, 5-6=-13, 8-10=-5, 10-11=1, 10-20=-12
Horz: 1-2=8, 2-5=13, 6-8=10, 8-10=7, 10-11=13, 2-20=25
Concentrated Loads (lb)
Vert: 30=-266(F) 34=-266(F)
Trapezoidal Loads (plf)
Vert: 6=-22-to-8=-42
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=3, 2-5=-2, 5-6=-13, 8-10=-13, 10-11=-8, 10-20=-12
Horz: 1-2=-15, 2-5=-10, 6-8=-13, 8-10=-1, 10-11=4, 2-20=-7
Concentrated Loads (lb)
Vert: 30=-266(F) 34=-266(F)
Trapezoidal Loads (plf)
Vert: 6=-45-to-8=-65
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=31, 2-5=16, 5-6=16, 8-10=16, 10-11=31, 10-20=-12
Horz: 1-2=-43, 2-5=-28, 6-8=28, 8-10=28, 10-11=43, 2-20=-22
Drag: 5-6=0
Concentrated Loads (lb)
Vert: 30=32(F) 34=32(F)
Trapezoidal Loads (plf)
Vert: 6=-4-to-8=-24
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=21, 2-5=6, 5-6=6, 8-10=6, 10-11=21, 10-20=-12
Horz: 1-2=-33, 2-5=-18, 6-8=18, 8-10=18, 10-11=33, 2-20=-22
Drag: 5-6=0
Concentrated Loads (lb)
Vert: 30=-43(F) 34=-43(F)
Trapezoidal Loads (plf)
Vert: 6=-14-to-8=-34
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-8, 2-5=-13, 5-6=-13, 8-10=-13, 10-11=-8, 10-20=-12
Horz: 1-2=-4, 2-5=1, 6-8=-1, 8-10=-1, 10-11=4, 2-20=-12
Concentrated Loads (lb)
Vert: 30=-212(F) 34=-212(F)
Trapezoidal Loads (plf)
Vert: 6=-33-to-8=-53
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-8, 2-5=-13, 5-6=-13, 8-10=-13, 10-11=-8, 10-20=-12
Horz: 1-2=-4, 2-5=1, 6-8=-1, 8-10=-1, 10-11=4, 2-20=-12
Concentrated Loads (lb)
Vert: 30=-212(F) 34=-212(F)
Trapezoidal Loads (plf)
Vert: 6=-33-to-8=-53
- 16) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-51, 2-5=-20, 5-6=-20, 8-10=-20, 10-11=-51, 10-20=-20
Concentrated Loads (lb)
Vert: 30=-290(F) 34=-290(F)
Trapezoidal Loads (plf)
Vert: 6=-40-to-8=-60
- 17) 3rd Dead + Snow (Unbal. Left) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-51, 2-25=-51, 5-25=-61, 5-6=-29, 8-11=-29, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20
Concentrated Loads (lb)
Vert: 30=-513(F) 34=-513(F)
Trapezoidal Loads (plf)
Vert: 6=-71-to-32=-83, 32=-96-to-8=-105
- 18) 4th Dead + Snow (Unbal. Left) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-29, 2-5=-29, 5-26=-51, 6-26=-79, 8-11=-29, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20
Concentrated Loads (lb)
Vert: 30=-513(F) 34=-513(F)
Trapezoidal Loads (plf)
Vert: 6=-49-to-8=-69
- 19) 5th Dead + Snow (Unbal. Left) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 4

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 BROOKE_A	Truss A4	Truss Type Piggyback Base	Qty 5	Ply 1	Lamco Custom Homes - Brooke A E12979315
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:58:48 2019 Page 4
ID:YP4_zUn5xScc4EqkH69uw6z2JjH-MP4DLHeli?CQDu?32uhwBuZwpZCrAVJJ0g3seXzLkob

LOAD CASE(S)

- Uniform Loads (plf)
Vert: 1-2=-51, 2-23=-51, 5-23=-85, 5-6=-29, 8-11=-29, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20
- Concentrated Loads (lb)
Vert: 30=-536(F) 34=-536(F)
- Trapezoidal Loads (plf)
Vert: 6=-49-to-8=-69
- 20) 6th Dead + Snow (Unbal. Right) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-2=-29, 2-5=-29, 5-28=-71, 6-28=-51, 8-35=-63, 11-35=-51, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20
- Concentrated Loads (lb)
Vert: 30=-513(F) 34=-513(F)
- Trapezoidal Loads (plf)
Vert: 6=-49-to-8=-69
- 21) 7th Dead + Snow (Unbal. Right) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-2=-29, 2-5=-29, 5-6=-29, 8-11=-29, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20
- Concentrated Loads (lb)
Vert: 30=-513(F) 34=-513(F)
- Trapezoidal Loads (plf)
Vert: 6=-98-to-31=-109, 31=-82-to-8=-91
- 22) 8th Dead + Snow (Unbal. Right) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-2=-29, 2-5=-29, 5-6=-29, 8-37=-80, 11-37=-51, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20
- Concentrated Loads (lb)
Vert: 30=-513(F) 34=-513(F)
- Trapezoidal Loads (plf)
Vert: 6=-49-to-8=-69
- 23) 9th Unbal. Dead + Snow (balanced) + Uninhab. Attic Storage + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-2=-29, 2-5=-29, 5-6=-96, 8-11=-29, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20
- Concentrated Loads (lb)
Vert: 30=-615(F) 34=-615(F)
- Trapezoidal Loads (plf)
Vert: 6=-49-to-8=-69
- 24) 10th Unbal. Dead + Snow (balanced) + Uninhab. Attic Storage + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-2=-51, 2-22=-51, 5-22=-96, 5-6=-29, 8-11=-29, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20
- Concentrated Loads (lb)
Vert: 30=-615(F) 34=-615(F)
- Trapezoidal Loads (plf)
Vert: 6=-116-to-33=-133, 33=-88-to-8=-91
- 25) 1st Dead + Roof Live (unbalanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-2=-60, 2-5=-60, 5-6=-60, 8-11=-20, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20
- Concentrated Loads (lb)
Vert: 30=-580(F) 34=-580(F)
- Trapezoidal Loads (plf)
Vert: 6=-40-to-8=-60
- 26) 2nd Dead + Roof Live (unbalanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-2=-20, 2-5=-20, 5-6=-60, 8-11=-60, 19-20=-20, 19-38=-60, 18-38=-20, 18-39=-60, 39-40=-20, 15-40=-60, 10-15=-20
- Concentrated Loads (lb)
Vert: 30=-580(F) 34=-580(F)
- Trapezoidal Loads (plf)
Vert: 6=-80-to-8=-100
- 27) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=43, 2-21=24, 5-21=18, 5-28=27, 6-28=21, 8-10=18, 10-11=12, 10-20=-12
Horz: 1-2=-55, 2-21=-36, 5-21=-30, 6-30=36, 8-30=30, 8-10=30, 10-11=24, 2-20=16
Drag: 5-28=0, 6-28=0
- Concentrated Loads (lb)
Vert: 30=109(F) 34=109(F)
- Trapezoidal Loads (plf)
Vert: 6=4-to-30=-4, 30=-10-to-8=-22
- 28) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=12, 2-24=18, 5-24=24, 5-27=21, 6-27=27, 8-36=18, 10-36=30, 10-11=55, 10-20=-12
Horz: 1-2=-24, 2-24=-30, 5-24=-36, 6-8=30, 8-36=30, 10-36=42, 10-11=67, 2-20=-30
Drag: 5-27=0, 6-27=0
- Concentrated Loads (lb)
Vert: 30=131(F) 34=131(F)
- Trapezoidal Loads (plf)
Vert: 6=-2-to-8=-22
- 29) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 5

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 BROOKE_A	Truss A4	Truss Type Piggyback Base	Qty 5	Ply 1	Lamco Custom Homes - Brooke A E12979315 Job Reference (optional)
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:58:48 2019 Page 5
ID:YP4_zUn5xScc4EqkH69uw6z2JjH-MP4DLHeli?CQDU?32uhwBuZwpZCrAVJJ0g3seXzLkob

LOAD CASE(S)

- Uniform Loads (plf)
Vert: 1-2=12, 2-5=-3, 5-6=15, 8-10=6, 10-11=1, 10-20=-12
Horz: 1-2=-24, 2-5=-9, 6-8=20, 8-10=18, 10-11=13, 2-20=14
Drag: 5-6=0
- Concentrated Loads (lb)
Vert: 30=19(F) 34=19(F)
- Trapezoidal Loads (plf)
Vert: 6=-12-to-8=-32
- 30) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=3, 2-5=8, 5-29=6, 6-29=15, 8-10=12, 10-11=27, 10-20=-12
Horz: 1-2=-15, 2-5=-20, 6-8=9, 8-10=24, 10-11=39, 2-20=-18
Drag: 5-29=0, 6-29=0
- Concentrated Loads (lb)
Vert: 30=19(F) 34=19(F)
- Trapezoidal Loads (plf)
Vert: 6=-23-to-8=-43
- 31) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-20, 2-5=-25, 5-6=-13, 8-10=-5, 10-11=1, 10-20=-12
Horz: 1-2=8, 2-5=13, 6-8=10, 8-10=7, 10-11=13, 2-20=25
- Concentrated Loads (lb)
Vert: 30=-266(F) 34=-266(F)
- Trapezoidal Loads (plf)
Vert: 6=-22-to-8=-42
- 32) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=3, 2-5=-2, 5-6=-13, 8-10=-13, 10-11=-8, 10-20=-12
Horz: 1-2=-15, 2-5=-10, 6-8=-13, 8-10=-1, 10-11=4, 2-20=-7
- Concentrated Loads (lb)
Vert: 30=-266(F) 34=-266(F)
- Trapezoidal Loads (plf)
Vert: 6=-45-to-8=-65
- 33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=31, 2-5=16, 5-6=16, 8-10=16, 10-11=31, 10-20=-12
Horz: 1-2=-43, 2-5=-28, 6-8=28, 8-10=28, 10-11=43, 2-20=-22
Drag: 5-6=0
- Concentrated Loads (lb)
Vert: 30=32(F) 34=32(F)
- Trapezoidal Loads (plf)
Vert: 6=-4-to-8=-24
- 34) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=21, 2-5=6, 5-6=6, 8-10=6, 10-11=21, 10-20=-12
Horz: 1-2=-33, 2-5=-18, 6-8=18, 8-10=18, 10-11=33, 2-20=-22
Drag: 5-6=0
- Concentrated Loads (lb)
Vert: 30=-43(F) 34=-43(F)
- Trapezoidal Loads (plf)
Vert: 6=-14-to-8=-34
- 35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-8, 2-5=-13, 5-6=-13, 8-10=-13, 10-11=-8, 10-20=-12
Horz: 1-2=-4, 2-5=1, 6-8=-1, 8-10=-1, 10-11=4, 2-20=-12
- Concentrated Loads (lb)
Vert: 30=-212(F) 34=-212(F)
- Trapezoidal Loads (plf)
Vert: 6=-33-to-8=-53
- 36) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-8, 2-5=-13, 5-6=-13, 8-10=-13, 10-11=-8, 10-20=-12
Horz: 1-2=-4, 2-5=1, 6-8=-1, 8-10=-1, 10-11=4, 2-20=-12
- Concentrated Loads (lb)
Vert: 30=-212(F) 34=-212(F)
- Trapezoidal Loads (plf)
Vert: 6=-33-to-8=-53

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 BROOKE_A	Truss A5	Truss Type Piggyback Base	Qty 4	Ply 1	Lamco Custom Homes - Brooke A	E12979316
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:58:49 2019 Page 1

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-1-0-8	7-5-12	13-11-8	21-11-8	27-5-5	32-11-2	35-9-4	38-2-12	44-0-0	45-3-4
1-0-8	7-5-12	6-5-12	8-0-0	5-5-13	5-5-13	2-10-2	2-5-8	5-9-4	1-3-4

Scale = 1:81.3

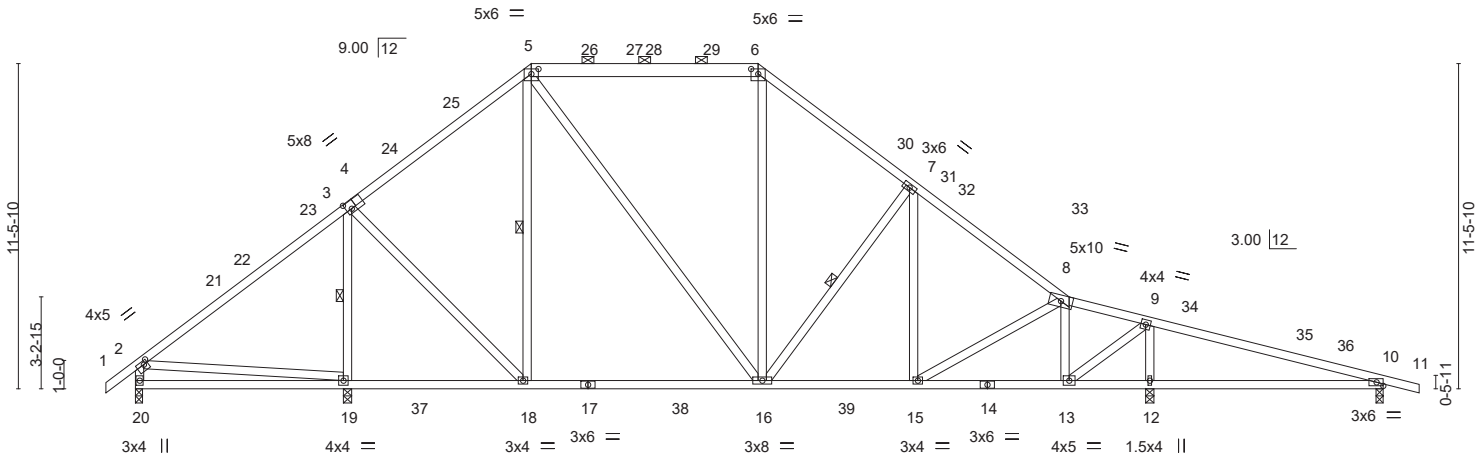


Plate Offsets (X,Y)--	[2:0-1-12,0-1-8], [4:0-2-4,0-3-4], [4:0-0-0,0-1-12], [5:0-3-0,0-2-2], [6:0-3-0,0-2-2]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.86	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Lumber DOL 1.15	BC 0.77	Vert(LL) -0.20 16-18 >999 360		
TCDL 10.0	Rep Stress Incr YES	WB 0.69	Vert(TL) -0.39 16-18 >880 240		
BCLL 0.0 *	Code IRC2009/TPI2007	Matrix-S	Horz(TL) 0.03 12 n/a n/a		
BCDL 10.0			Wind(LL) 0.03 10-12 >999 240	Weight: 281 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins, except end verticals, and 2-0-0 oc purlins (4-1-0 max.): 5-6.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-19, 5-18, 7-16

REACTIONS. All bearings 0-3-0 except (jt=length) 19=0-3-8, 12=0-3-8.
 (lb) - Max Horz 20=-259(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 20, 19, 10, 12
 Max Grav All reactions 250 lb or less at joint(s) except 20=394(LC 25), 19=1887(LC 24), 10=302(LC 22), 12=1795(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-5=-1009/246, 5-6=-875/267, 6-7=-1274/271, 7-8=-1553/205, 8-9=-954/129, 9-10=-45/485, 2-20=-329/152
 BOT CHORD 19-20=-176/398, 16-18=0/644, 15-16=-1/1165, 13-15=-21/858, 12-13=-432/72, 10-12=-432/72
 WEBS 3-19=-1662/200, 3-18=0/822, 5-16=-39/391, 6-16=-8/316, 7-16=-472/148, 8-15=0/348, 8-13=-976/108, 9-13=-117/1672, 9-12=-1602/233

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (all heights) and C-C Exterior(2) -1-0-8 to 3-4-5, Interior(1) 3-4-5 to 13-11-8, Exterior(2) 13-11-8 to 18-4-5, Interior(1) 18-4-5 to 21-11-8, Exterior(2) 21-11-8 to 26-4-5, Interior(1) 26-4-5 to 45-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-05; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 19, 10, 12.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

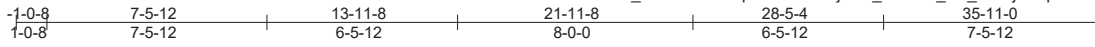


April 30, 2019

Job BROOKE_A	Truss A7	Truss Type Piggyback Base	Qty 8	Ply 1	Lamco Custom Homes - Brooke A	E12979317
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Builders FirstSource (Albermarle), Albermarle, NC - 28001, 8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:58:51 2019 Page 1

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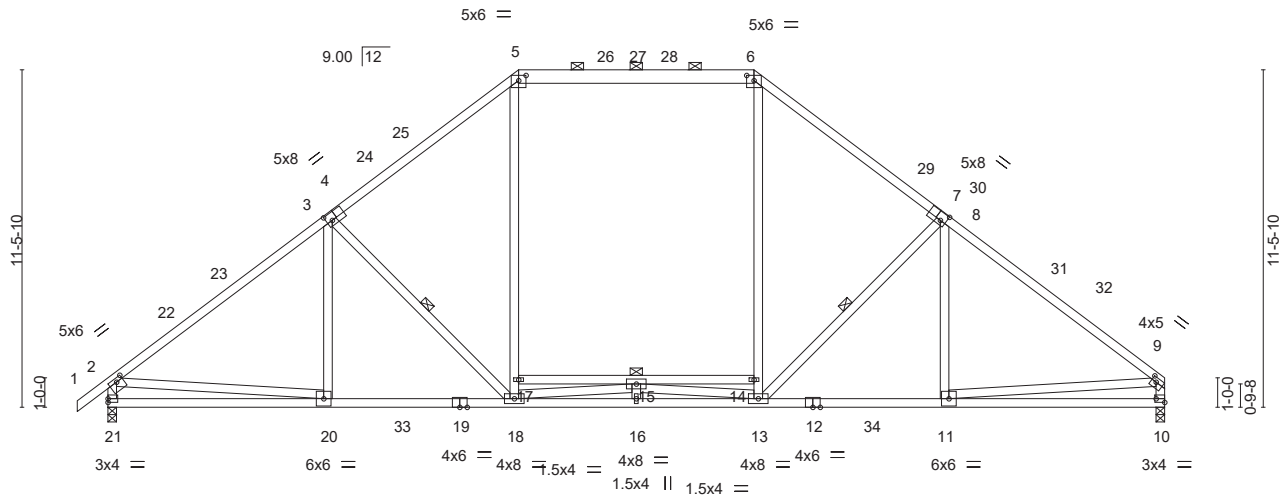


Plate Offsets (X,Y)--	[2:0-2-12,0-1-8], [4:0-2-4,0-3-0], [4:0-0-0,0-1-12], [5:0-3-0,0-2-2], [6:0-3-0,0-2-2], [7:0-2-4,0-3-4], [7:0-0-0,0-1-12], [9:0-2-0,0-1-12], [10:Edge,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.97	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.58	Vert(LL) -0.47 11-13 >919 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.79	Vert(TL) -0.56 11-13 >758 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.08 10 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007		Wind(LL) -0.34 18-20 >999 240	Weight: 249 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 *Except*	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 5-6.
BOT CHORD 2x4 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
WEBS 2x4 SP No.3 *Except*	6-0-0 oc bracing: 14-17
5-18,6-13: 2x4 SP No.2	WEBS 1 Row at midpt 3-18, 8-13

REACTIONS. (lb/size) 21=2012/0-3-8, 10=1938/0-3-8
 Max Horz 21=262(LC 11)
 Max Uplift 21=-66(LC 12), 10=-29(LC 12)
 Max Grav 21=2182(LC 22), 10=2120(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2873/173, 3-5=-2486/248, 5-6=-1817/250, 6-8=-2490/254, 8-9=-2873/176, 2-21=-2105/204, 9-10=-2043/158
 BOT CHORD 20-21=-166/407, 18-20=-58/2201, 16-18=0/2793, 13-16=0/2793, 11-13=-44/2211, 10-11=-92/312
 WEBS 3-18=-525/168, 17-18=-1/846, 5-17=0/968, 13-14=-9/855, 6-14=0/977, 8-13=-538/173, 2-20=0/1807, 15-18=-1236/0, 13-15=-1231/0, 9-11=0/1913

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (all heights) and C-C Exterior(2) -1-0-8 to 2-6-10, Interior(1) 2-6-10 to 13-11-8, Exterior(2) 13-11-8 to 19-0-7, Interior(1) 19-0-7 to 21-11-8, Exterior(2) 21-11-8 to 27-0-7, Interior(1) 27-0-7 to 35-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-05; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 10.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 30, 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

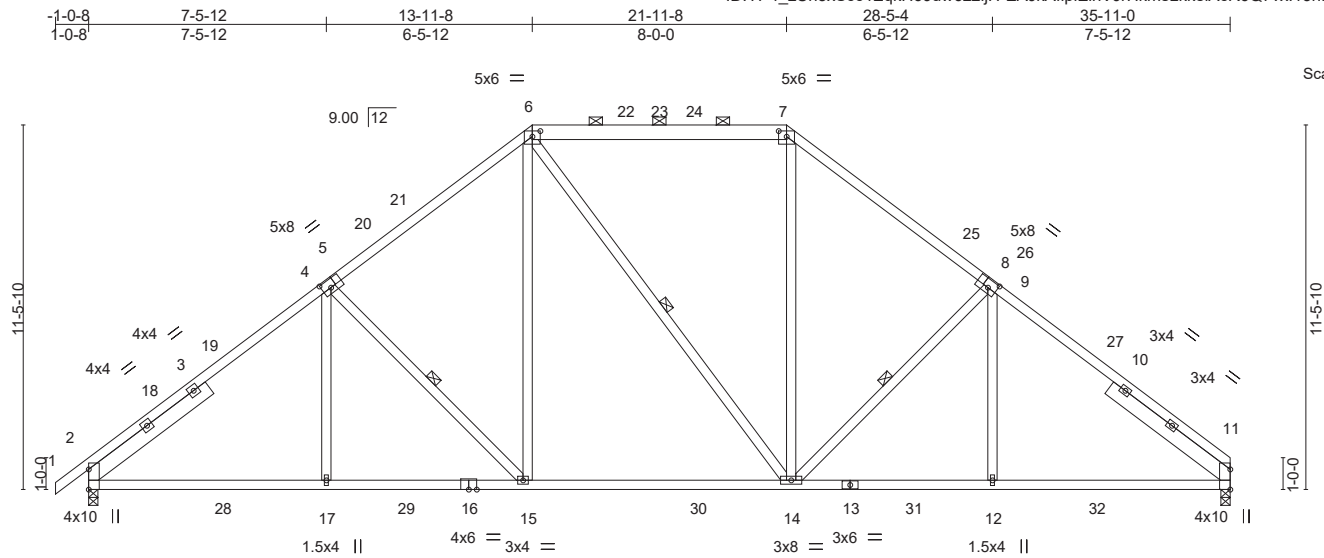
TRENCO
ENGINEERING BY
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job BROOKE_A	Truss A8	Truss Type Piggyback Base	Qty 4	Ply 1	Lamco Custom Homes - Brooke A	E12979318
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:58:52 2019 Page 1
ID:YP4_zUn5xScc4EqkH69uw6z2jH-EAJkAfiplEiriVJrHkmsLkkeiAcR6Q7vx13nlzLkoX



Scale = 1:72.5

Plate Offsets (X,Y)--	[5:0-0-0,0-1-12], [5:0-3-4,0-3-0], [6:0-3-0,0-2-2], [7:0-3-0,0-2-2], [8:0-0-0,0-1-12], [8:0-3-4,0-3-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.81	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.83	Vert(LL) -0.24 14-15 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.32	Vert(TL) -0.43 14-15 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.12 11 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007		Wind(LL) 0.03 15 >999 240	Weight: 244 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E *Except* 6-7: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (3-7-13 max.): 6-7.
BOT CHORD 2x4 SP No.2 *Except* 13-16: 2x4 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-15, 9-14, 6-14
SLIDER Left 2x6 SP No.2 4-9-8, Right 2x6 SP No.2 4-9-8	

REACTIONS. (lb/size) 2=1846/0-3-8, 11=1765/0-3-8
Max Horz 2=242(LC 11)
Max Uplift 2=-112(LC 12), 11=-79(LC 12)
Max Grav 2=2017(LC 22), 11=1945(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2732/251, 4-6=-2131/323, 6-7=-1525/315, 7-9=-2101/328, 9-11=-2709/258
BOT CHORD 2-17=-80/2001, 15-17=-80/2001, 14-15=0/1548, 12-14=-77/1985, 11-12=-77/1985
WEBS 4-17=0/311, 4-15=-625/163, 6-15=-25/768, 7-14=-33/719, 9-14=-634/165, 9-12=0/321

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (all heights) and C-C Exterior(2) -1-0-8 to 2-6-10, Interior(1) 2-6-10 to 13-11-8, Exterior(2) 13-11-8 to 19-0-7, Interior(1) 19-0-7 to 21-11-8, Exterior(2) 21-11-8 to 27-0-7, Interior(1) 27-0-7 to 35-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-05; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 2=112.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



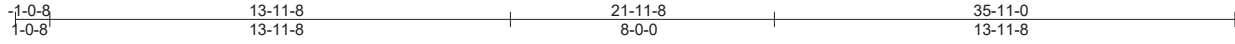
April 30, 2019

Job BROOKE_A	Truss A9E	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	Lamco Custom Homes - Brooke A	E12979319
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:58:53 2019 Page 1

ID:YP4_zUn5x5cc4EqkH69uw6z2lJH-iMt6O?iRWXriJfu1qRH5uxG_la73ruZ3AyndJlZLkoW



Scale = 1:69.8

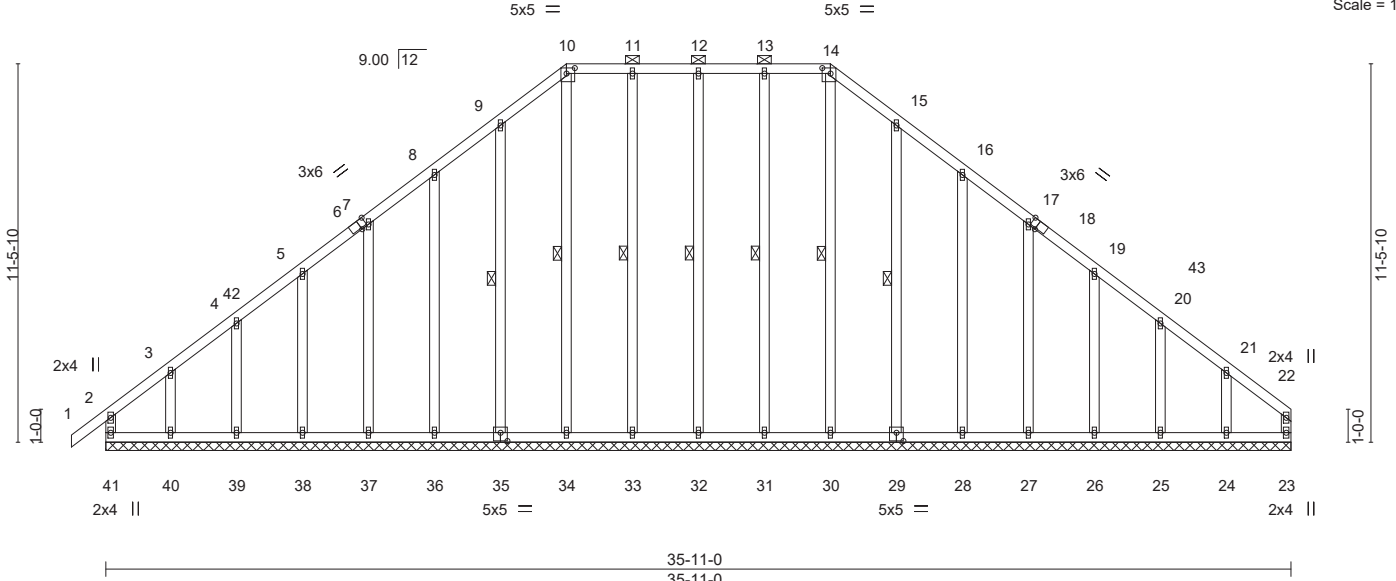


Plate Offsets (X,Y)-- [6:0-2-5,Edge], [10:0-3-0,0-2-0], [14:0-3-0,0-2-0], [18:0-2-5,Edge], [29:0-2-8,0-3-0], [35:0-2-8,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.12	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) -0.00 1 n/r 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.24	Vert(TL) -0.00 1 n/r 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R	Horz(TL) -0.01 23 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007		Wind(LL) 0.00 1 n/r 120	Weight: 304 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, and 2-0-0 oc purlins (6-0-0 max.): 10-14.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 14-30, 13-31, 12-32, 11-33, 10-34, 9-35, 15-29
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 35-11-0.
 (lb) - Max Horz 41=263(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 23, 32, 35, 36, 37, 38, 39, 40, 29, 28, 27, 26, 25, 24 except 41=-120(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) 41, 23, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 29, 28, 27, 26, 25, 24

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 8-9=-87/294, 9-10=-75/358, 10-11=-42/310, 11-12=-42/310, 12-13=-42/310, 13-14=-42/310, 14-15=-75/358, 15-16=-67/294

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=36ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (all heights) and C-C Corner(3) 1-0-8 to 2-6-10, Exterior(2) 2-6-10 to 13-11-8, Corner(3) 13-11-8 to 17-6-10, Exterior(2) 17-6-10 to 21-11-8, Corner(3) 21-11-8 to 25-6-10, Exterior(2) 25-6-10 to 35-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-05; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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) 23, 32, 35, 36, 37, 38, 39, 40, 29, 28, 27, 26, 25, 24 except (jt=lb) 41=120.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 30, 2019

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

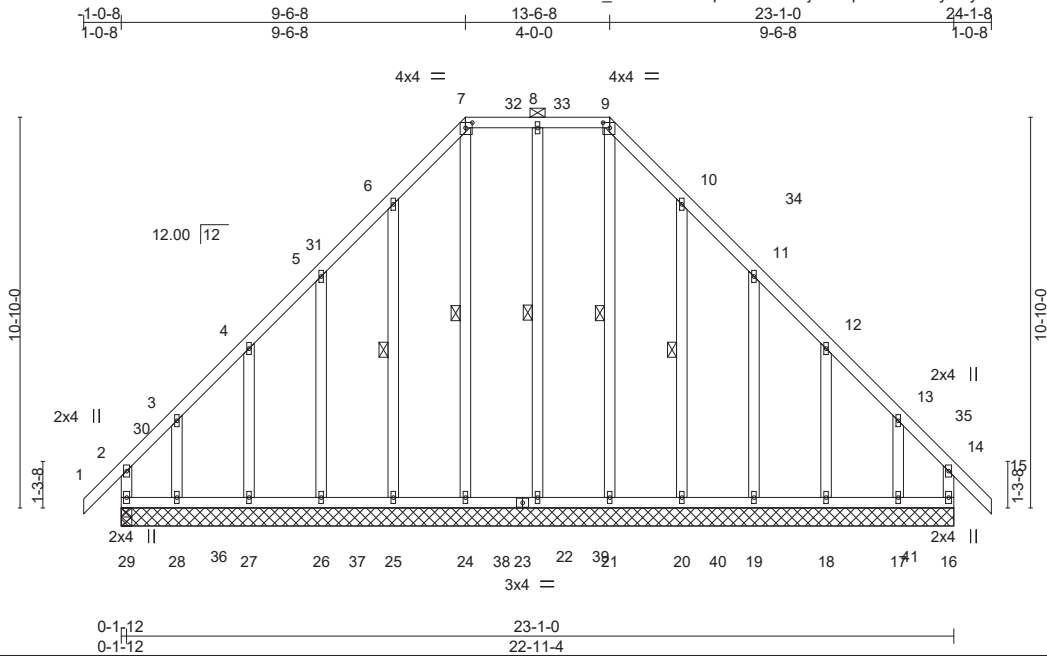
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 BROOKE_A	Truss C1E	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	Lamco Custom Homes - Brooke A Job Reference (optional)	E12979320
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Builders FirstSource (Albermarle), Albermarle, NC - 28001, 8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:58:55 2019 Page 1
ID:YP4_zUn5xScc4EqkH69uw6z2jH-fl?tpkh295QZy2QysJzMMJPN04JpJLdGGkOdzLkOu



Scale: 3/16"=1'

Plate Offsets (X,Y)-- [7:0-2-4,0-1-12], [9:0-2-4,0-1-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.14	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) -0.00 28 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.16	Vert(TL) -0.00 28 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R	Horz(TL) -0.00 16 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007		Wind(LL) -0.00 28-29 >999 240	Weight: 197 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 9-21, 8-22, 7-24, 6-25, 10-20

REACTIONS. All bearings 23-1-0.
(lb) - Max Horz 29=270(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 22, 24, 25, 26, 27, 20, 19, 18 except 29=-180(LC 10), 16=-150(LC 11), 28=-174(LC 9), 17=-123(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 29, 29, 16, 21, 24, 26, 28, 19, 17 except 22=272(LC 21), 25=260(LC 22), 27=258(LC 22), 20=260(LC 22), 18=258(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-84/299, 6-7=-79/399, 7-8=-24/314, 8-9=-24/314, 9-10=-79/399, 10-11=-68/299

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (all heights) and C-C Corner(3) 1-10-8 to 1-11-8, Exterior(2) 1-11-8 to 9-6-8, Corner(3) 9-6-8 to 12-6-8, Exterior(2) 12-6-8 to 13-6-8, Corner(3) 13-6-8 to 16-6-8, Exterior(2) 16-6-8 to 24-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-05; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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) 22, 24, 25, 26, 27, 20, 19, 18 except (jt=lb) 29=180, 16=150, 28=174, 17=123.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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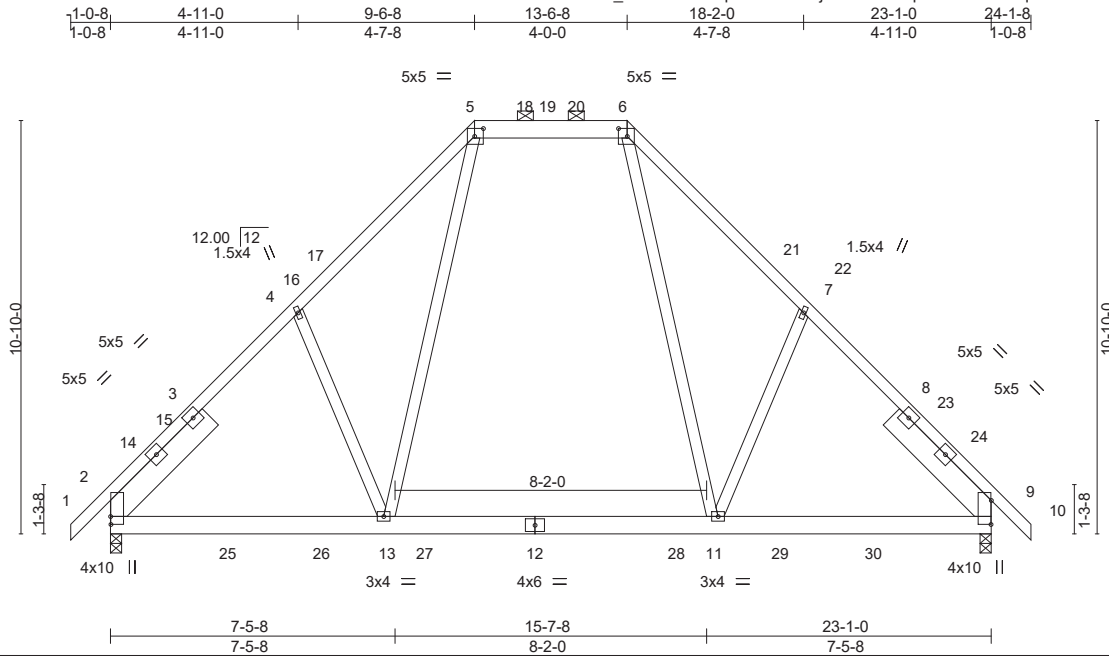
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job BROOKE_A	Truss C2	Truss Type Piggyback Base	Qty 6	Ply 1	Lamco Custom Homes - Brooke A	E12979321
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:58:56 2019 Page 1

ID:YP4_zUn5xScc4EqkH69uw6z2jH-7xZF01KpSDHA6ccWaqoWauN5n2p2E3Vsw?Hw3zLkoT



Scale = 1:60.4

Plate Offsets (X,Y)-- [2:0-2-8,0,0-2], [5:0-2-12,0,2-8], [6:0-2-12,0,2-8], [9:0-7-9,0,0-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.60	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.54	Vert(LL) -0.13 11-13 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.26	Vert(TL) -0.19 11-13 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.03 9 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007		Wind(LL) -0.13 2-13 >999 240	Weight: 179 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 5-6: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x8 SP DSS 3-8-6, Right 2x8 SP DSS 3-8-6	

REACTIONS. (lb/size) 2=1216/0-3-8, 9=1216/0-3-8
 Max Horz 2=234(LC 11)
 Max Uplift 2=-83(LC 12), 9=-83(LC 12)
 Max Grav 2=1488(LC 22), 9=1488(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1680/177, 4-5=-1455/285, 5-6=-778/235, 6-7=-1455/285, 7-9=-1680/177
 BOT CHORD 2-13=-28/1013, 11-13=0/778, 9-11=0/1013
 WEBS 4-13=-262/216, 5-13=-90/622, 6-11=-90/622, 7-11=-262/216

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (all heights) and C-C Exterior(2) -1-0-8 to 1-11-8, Interior(1) 1-11-8 to 9-6-8, Exterior(2) 9-6-8 to 17-9-7, Interior(1) 17-9-7 to 24-1-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-05; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 30, 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

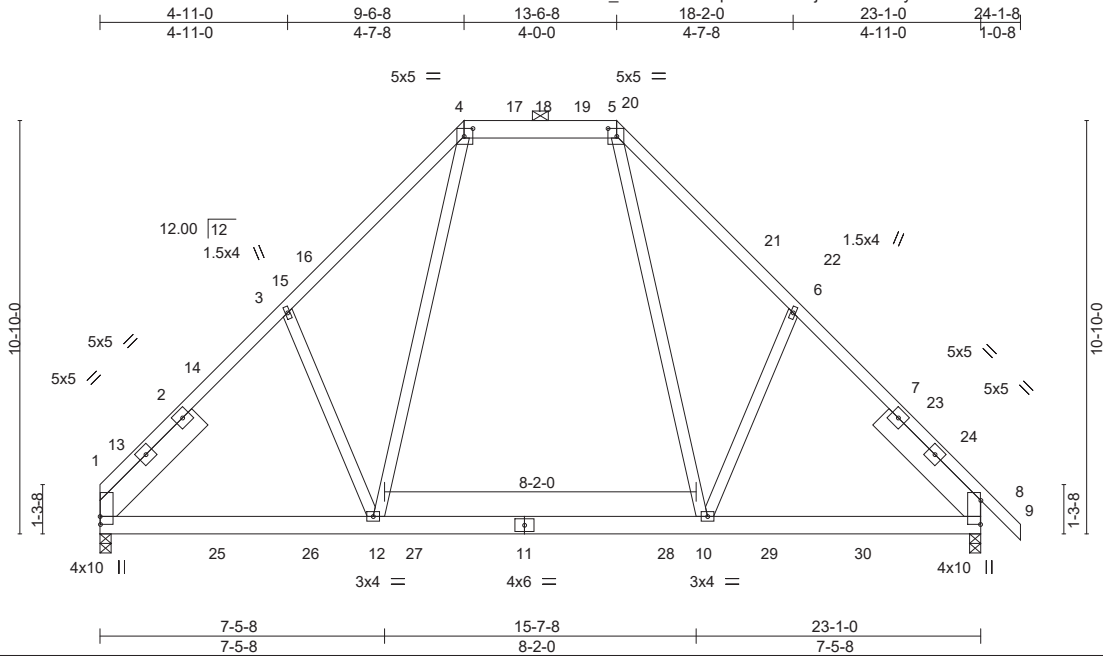


818 Soundside Road
 Edenton, NC 27932

Job BROOKE_A	Truss C3	Truss Type Piggyback Base	Qty 5	Ply 1	Lamco Custom Homes - Brooke A	E12979322
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Builders FirstSource (Albemarle), Albemarle, NC - 28001, 8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:58:57 2019 Page 1

ID:YP4_zUn5xScc4EqkH69uw6z2jH-b77dDMlyamL8oGBo3HL12nRYEBO?nhHe5alqTWzLkoS



Scale = 1:60.4

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.63	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.55	Vert(LL) -0.14 10-12 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.26	Vert(TL) -0.19 10-12 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.03 8 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007		Wind(LL) -0.13 1-12 >999 240		
				Weight: 177 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-5: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-5-8 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x8 SP DSS 3-8-6, Right 2x8 SP DSS 3-8-6	

REACTIONS. (lb/size) 1=1152/0-3-8, 8=1217/0-3-8
 Max Horz 1=-233(LC 10)
 Max Uplift 1=-51(LC 12), 8=-84(LC 12)
 Max Grav 1=1434(LC 22), 8=1490(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-1683/182, 3-4=-1459/294, 4-5=-779/238, 5-6=-1457/285, 6-8=-1682/177
 BOT CHORD 1-12=-27/1016, 10-12=0/779, 8-10=0/1014
 WEBS 3-12=-264/218, 4-12=-100/627, 5-10=-90/622, 6-10=-261/215

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (all heights) and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 9-6-8, Exterior(2) 9-6-8 to 17-9-7, Interior(1) 17-9-7 to 24-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-05; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 30, 2019

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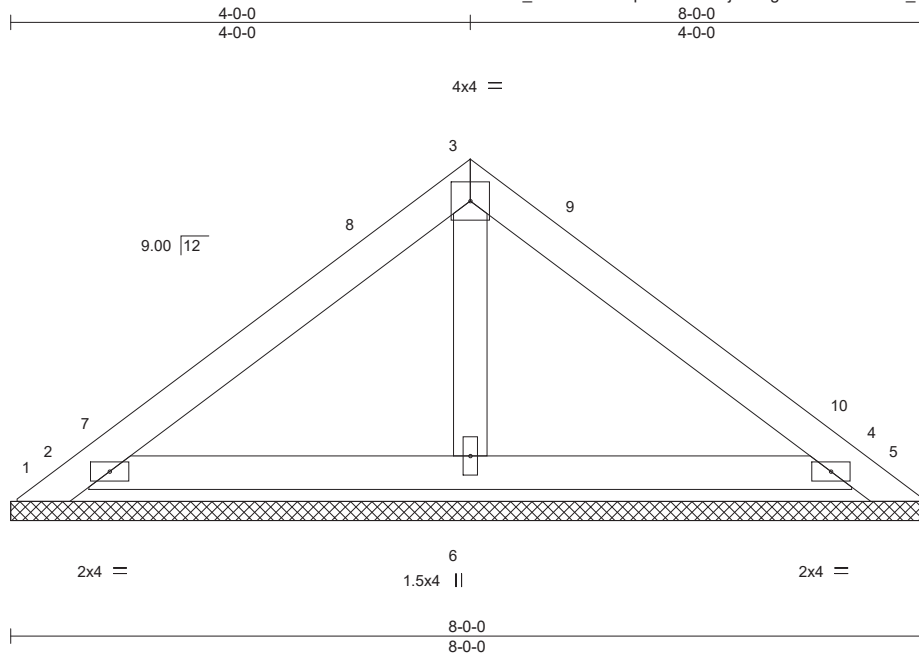


818 Soundside Road
Edenton, NC 27932

Job BROOKE_A	Truss PA1E	Truss Type GABLE	Qty 2	Ply 1	Lamco Custom Homes - Brooke A Job Reference (optional)	E12979323
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:58:58 2019 Page 1
ID:YP4_zUn5xScc4EqkH69uw6z2JjH-3Kg?RimaL4T?QQm_d_sGb?q6bq2WC8oJEUO?yzLkoR



Scale = 1:20.1

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.18	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.11	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Vert(TL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(TL) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007			Weight: 28 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 8'-0-0.
(lb) - Max Horz 1=56(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) except 1=-172(LC 1), 5=-172(LC 1), 2=-136(LC 12), 4=-136(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 2=367(LC 1), 4=367(LC 1)

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 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (all heights) and C-C Exterior(2) 0-3-7 to 3-3-7, Interior(1) 3-3-7 to 4-0-0, Exterior(2) 4-0-0 to 7-0-0, Interior(1) 7-0-0 to 7-8-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-05; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2'-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 172 lb uplift at joint 1, 172 lb uplift at joint 5, 136 lb uplift at joint 2 and 136 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



April 30, 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.



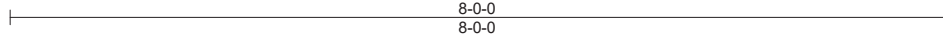
818 Soundside Road
Edenton, NC 27932

Job BROOKE_A	Truss PA2	Truss Type Piggyback	Qty 26	Ply 1	Lamco Custom Homes - Brooke A	E12979324
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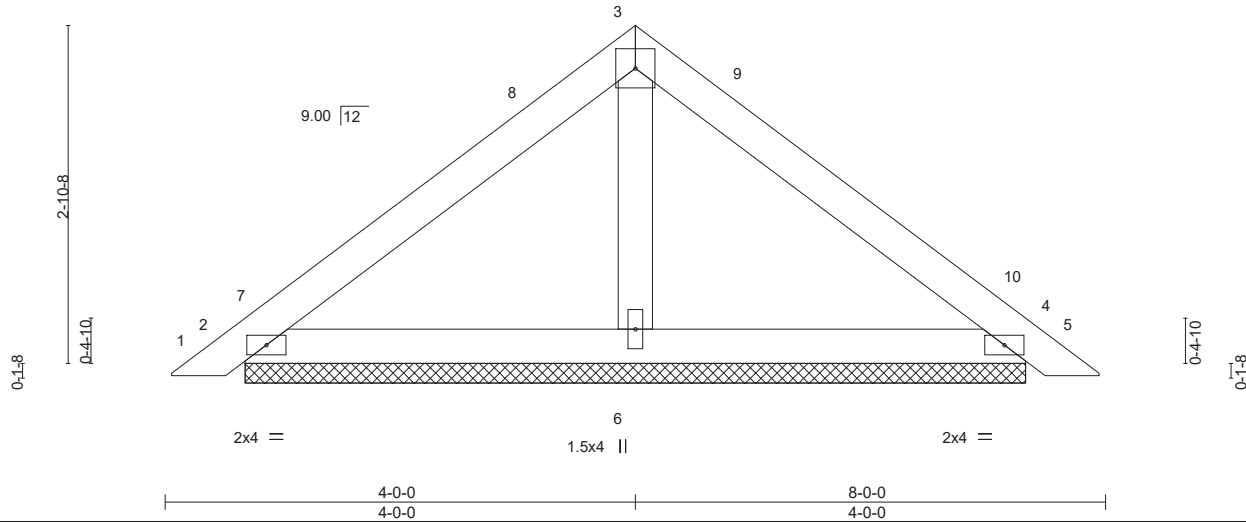
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:58:59 2019 Page 1

ID:YP4_zUn5xScc4EqkH69uw6z2jH-XWE0e2nC6Nbs1aLBBiOV7CW_U_AHFFjxYuExXOzLkQ



Scale = 1:19.6



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.20	Vert(LL)	0.01	5	n/r	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.11	Vert(TL)	0.01	5	n/r		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(TL)	0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Wind(LL)	0.00	4	n/r		
BCDL 10.0	Code IRC2009/TPI2007						Weight: 28 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 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) 2=173/6-7-11, 4=173/6-7-11, 6=232/6-7-11
 Max Horz 2=-56(LC 10)
 Max Uplift 2=-41(LC 12), 4=-41(LC 12)

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 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (all heights) and C-C Exterior(2) 0-3-7 to 3-3-7, Interior(1) 3-3-7 to 4-0-0, Exterior(2) 4-0-0 to 7-0-0, Interior(1) 7-0-0 to 7-8-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-05; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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 41 lb uplift at joint 2 and 41 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



April 30, 2019

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818 Soundside Road
 Edenton, NC 27932

Job BROOKE_A	Truss PC1E	Truss Type Piggyback	Qty 1	Ply 1	Lamco Custom Homes - Brooke A Job Reference (optional)	E12979325
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:58:59 2019 Page 1

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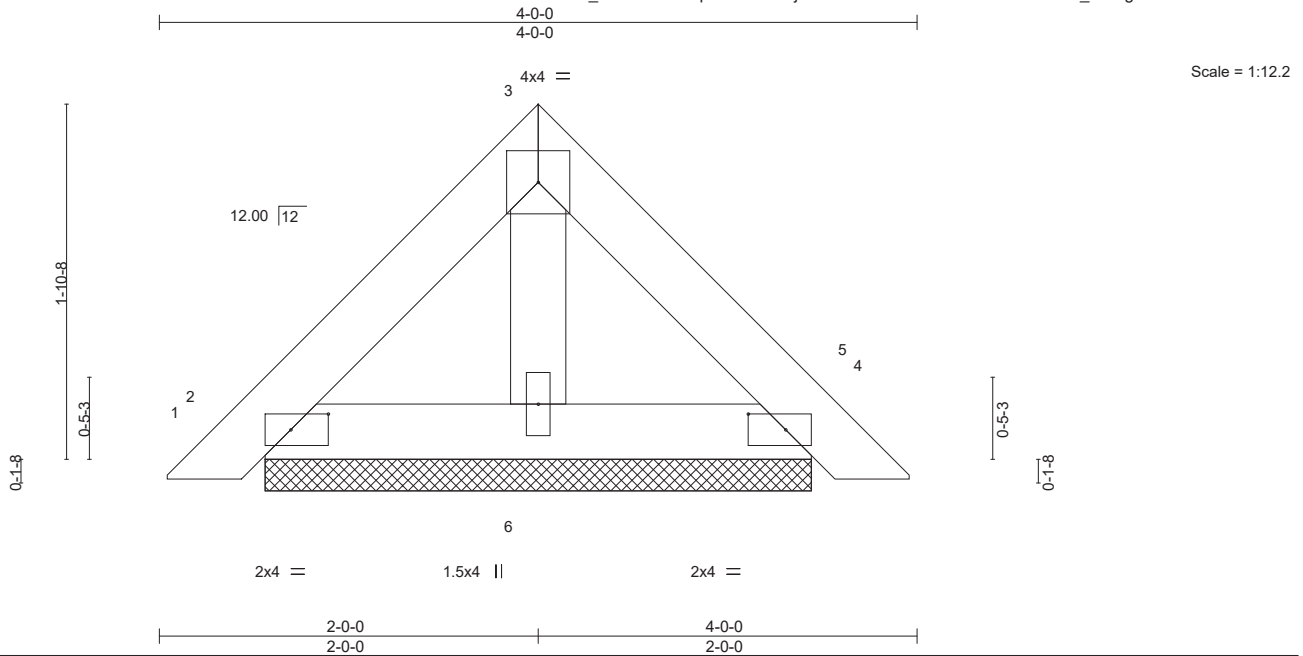


Plate Offsets (X,Y)--	[2:0-2-6,0-1-0], [4:0-2-6,0-1-0]							
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.03	Vert(LL) 0.00	4	n/r	240	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(TL) 0.00	4	n/r	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.01	Horz(TL) 0.00	4	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Wind(LL) 0.00	4	n/r	120	Weight: 14 lb	FT = 20%
BCDL 10.0	Code IRC2009/TPI2007							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 2=91/2-10-10, 4=91/2-10-10, 6=88/2-10-10
 Max Horz 2=-39(LC 10)
 Max Uplift 2=-26(LC 12), 4=-26(LC 12)
 Max Grav 2=91(LC 1), 4=91(LC 1), 6=89(LC 5)

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 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (all heights) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-05; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - 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 26 lb uplift at joint 2 and 26 lb uplift at joint 4.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Job BROOKE_A	Truss PC2	Truss Type Piggyback	Qty 11	Ply 1	Lamco Custom Homes - Brooke A Job Reference (optional)	E12979326
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:59:00 2019 Page 1
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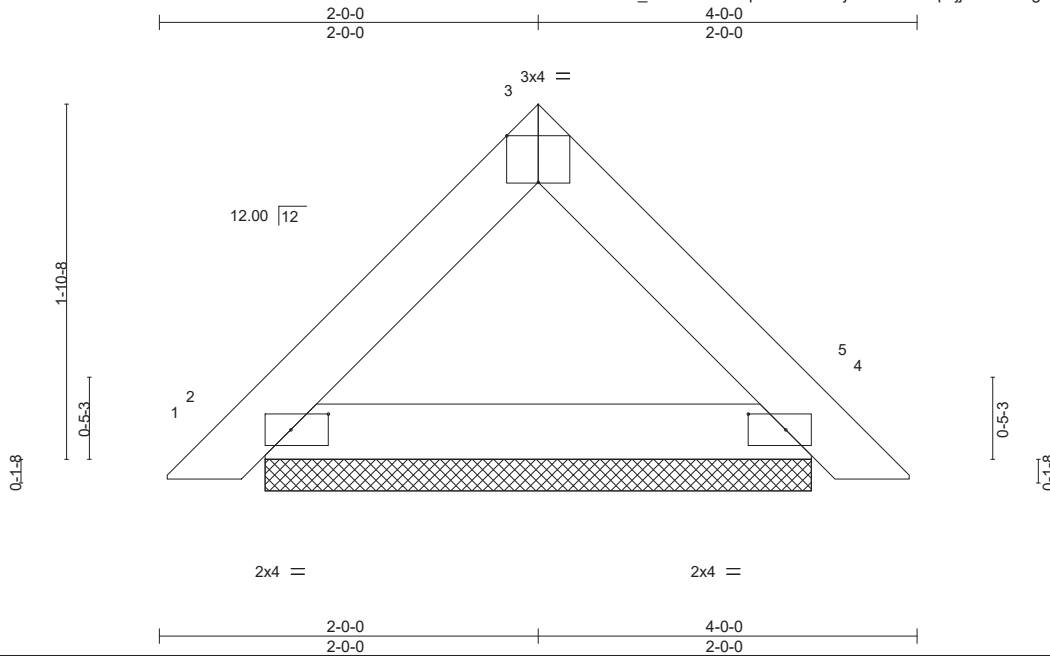


Plate Offsets (X,Y)--	[2:0-2-6,0-1-0], [3:0-2-0,Edge], [4:0-2-6,0-1-0]				
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.03	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) 0.00 4 n/r 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(TL) 0.00 4 n/r 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(TL) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007		Wind(LL) 0.00 4 n/r 120	Weight: 13 lb	FT = 20%

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

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

REACTIONS. (lb/size) 2=135/2-10-10, 4=135/2-10-10
Max Horz 2=39(LC 11)
Max Uplift 2=-16(LC 12), 4=-16(LC 12)

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 7-05; 100mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (all heights) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-05; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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 16 lb uplift at joint 2 and 16 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



April 30, 2019

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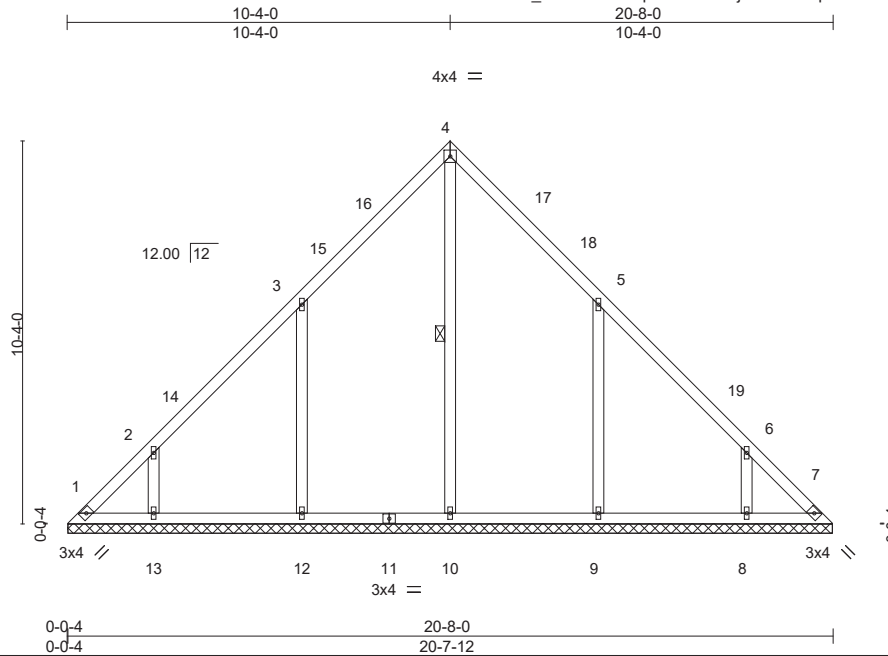


818 Soundside Road
Edenton, NC 27932

Job BROOKE_A	Truss VC1	Truss Type Valley	Qty 1	Ply 1	Lamco Custom Homes - Brooke A Job Reference (optional)	E12979327
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:59:01 2019 Page 1
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Scale = 1:62.2

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.20	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.21	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.18	Vert(TL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.00 7 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007			Weight: 110 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.
WEBS 1 Row at midpt 4-10

REACTIONS. All bearings 20-7-8.
(lb) - Max Horz 1=-221(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 7 except 1=-103(LC 10), 12=-145(LC 12), 13=-110(LC 12), 9=-145(LC 12), 8=-110(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=395(LC 1), 12=428(LC 16), 13=256(LC 1), 9=428(LC 17), 8=256(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-12=-267/225, 5-9=-267/225

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (all heights) and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 10-4-0, Exterior(2) 10-4-0 to 13-4-0, Interior(1) 13-4-0 to 20-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-05; Pr=20.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 1=103, 12=145, 13=110, 9=145, 8=110.



April 30, 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.

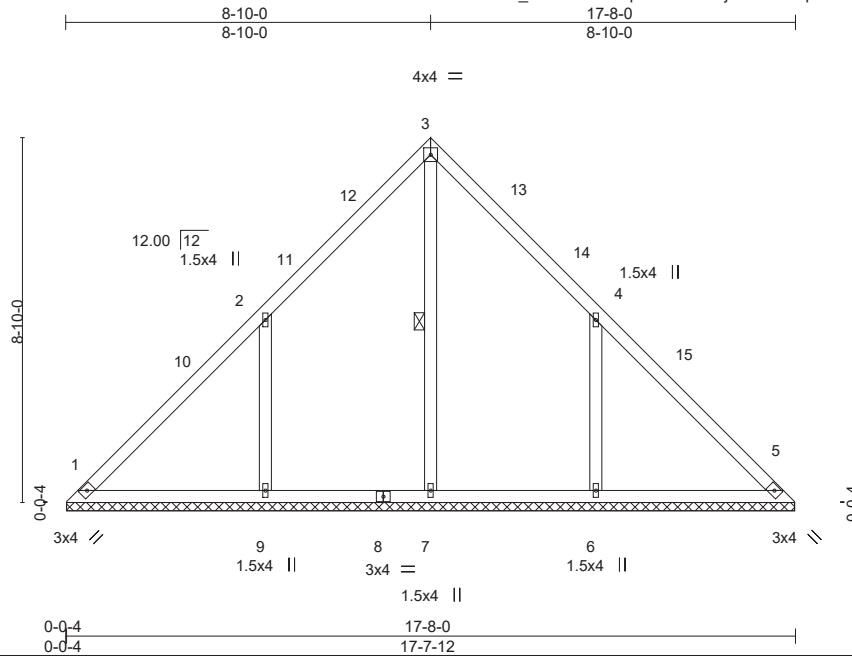


818 Soundside Road
Edenton, NC 27932

Job BROOKE_A	Truss VC2	Truss Type Valley	Qty 1	Ply 1	Lamco Custom Homes - Brooke A Job Reference (optional)	E12979328
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:59:01 2019 Page 1
ID:YP4_zUn5xSc4EqkH69uw6z2lJH-TvM83kpSe?raHtVZl7QzDdbJtoqTjYQE?Cj2cHzLkoO



Scale = 1:55.8

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.19	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.12	Vert(TL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007			Weight: 87 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	WEBS 1 Row at midpt 3-7

REACTIONS. All bearings 17-7-8.
(lb) - Max Horz 1=-188(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-170(LC 12), 6=-170(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=373(LC 1), 9=483(LC 16), 6=483(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-301/249, 4-6=-301/249

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (all heights) and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 8-10-0, Exterior(2) 8-10-0 to 11-10-0, Interior(1) 11-10-0 to 17-3-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-05; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - 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 100 lb uplift at joint(s) 1 except (jt=lb) 9=170, 6=170.

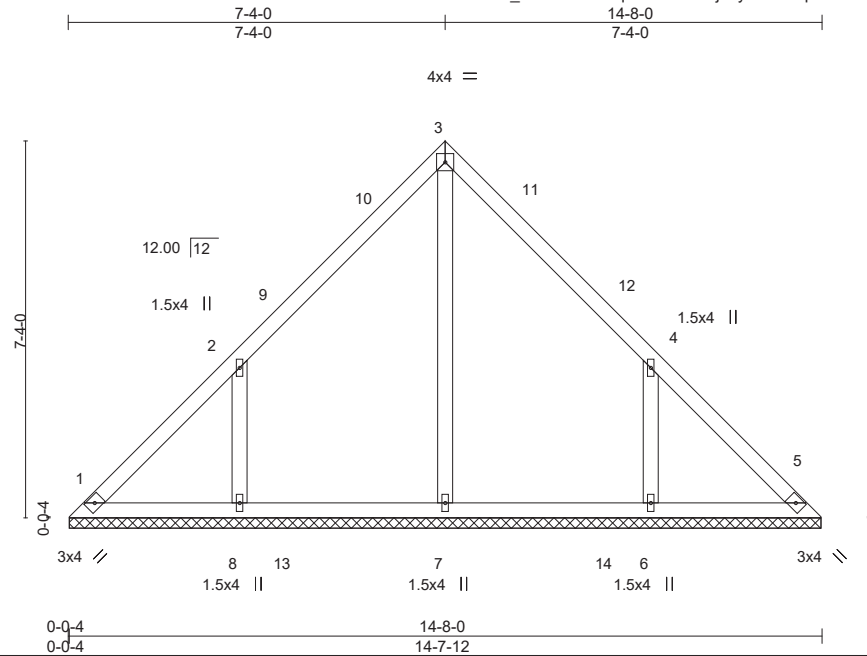


April 30, 2019

Job BROOKE_A	Truss VC3	Truss Type Valley	Qty 1	Ply 1	Lamco Custom Homes - Brooke A Job Reference (optional)	E12979329
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:59:02 2019 Page 1
ID:YP4_zUn5xScc4EqkH69uw6z2lJH-y5wWH4p4PzQu14msqxClr8W0CAAs_XNEsSb8jzLk0N



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.18	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.20	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.13	Vert(TL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007			Weight: 69 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 14-7-8.
(lb) - Max Horz 1=-155(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-138(LC 12), 6=-138(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=392(LC 1), 8=377(LC 16), 6=377(LC 17)

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

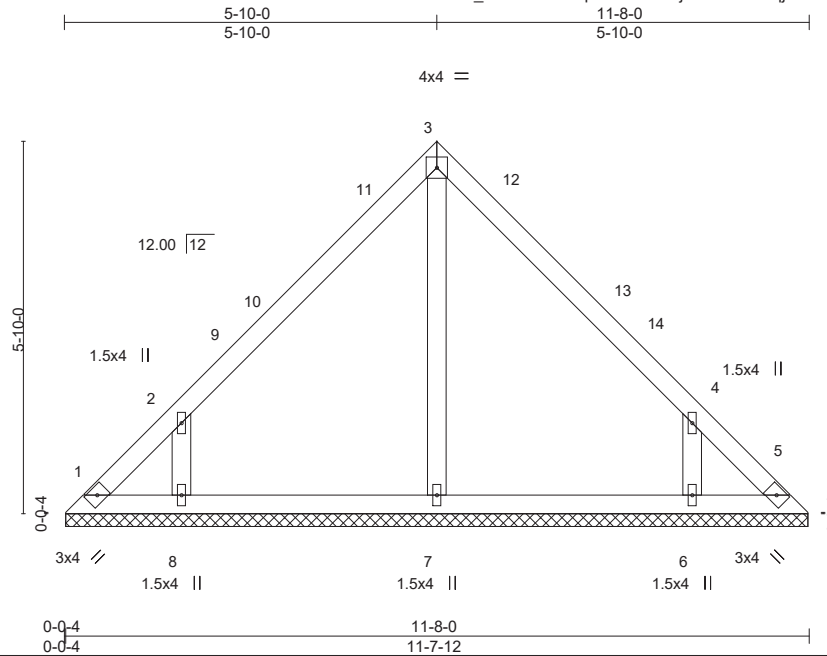
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (all heights) and C-C Exterior(2) 0-4-4 to 3-4-0, Interior(1) 3-4-0 to 7-4-0, Exterior(2) 7-4-0 to 10-4-0, Interior(1) 10-4-0 to 14-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-05; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - 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 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=138, 6=138.



Job BROOKE_A	Truss VC4	Truss Type Valley	Qty 1	Ply 1	Lamco Custom Homes - Brooke A	E12979330
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:59:03 2019 Page 1
ID:YP4_zUn5xScc4EqkH69uw6z2ljH-QHUuUQqj9c5HWBfyQYSRI2hhcY1BSYXTVC9gZLkOm



Scale = 1:36.1

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.19	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.08	Vert(TL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007			Weight: 52 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 11-7-8.
(lb) - Max Horz 1=-121(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-125(LC 12), 6=-125(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=296(LC 16), 6=296(LC 17)

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 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (all heights) and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 5-10-0, Exterior(2) 5-10-0 to 8-10-0, Interior(1) 8-10-0 to 11-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-05; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=125, 6=125.



April 30, 2019

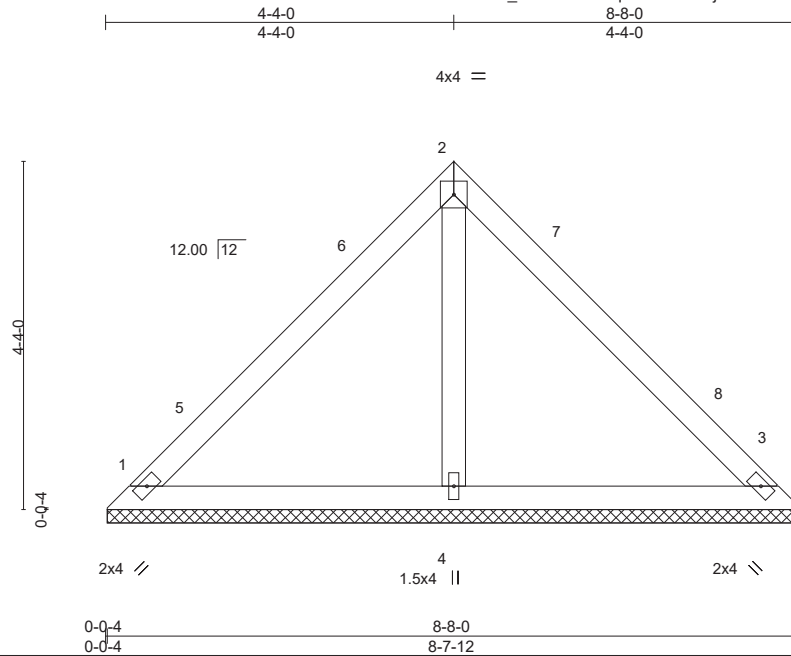
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

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

Job BROOKE_A	Truss VC5	Truss Type Valley	Qty 1	Ply 1	Lamco Custom Homes - Brooke A Job Reference (optional)	E12979331
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:59:03 2019 Page 1
ID:YP4_zUn5xScc4EqkH69uw6z2jH-QHUuUQqj9c5HWBfyQYSRI2hfjcXSBT0XTVC9g9zLkOm



Scale = 1:28.7

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.31	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.16	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.05	Vert(TL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(TL) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007			Weight: 35 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. (lb/size) 1=192/8-7-8, 3=192/8-7-8, 4=252/8-7-8
Max Horz 1=88(LC 11)
Max Uplift 1=-36(LC 12), 3=-36(LC 12)

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 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (all heights) and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 4-4-0, Exterior(2) 4-4-0 to 7-4-0, Interior(1) 7-4-0 to 8-3-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-05; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



April 30, 2019

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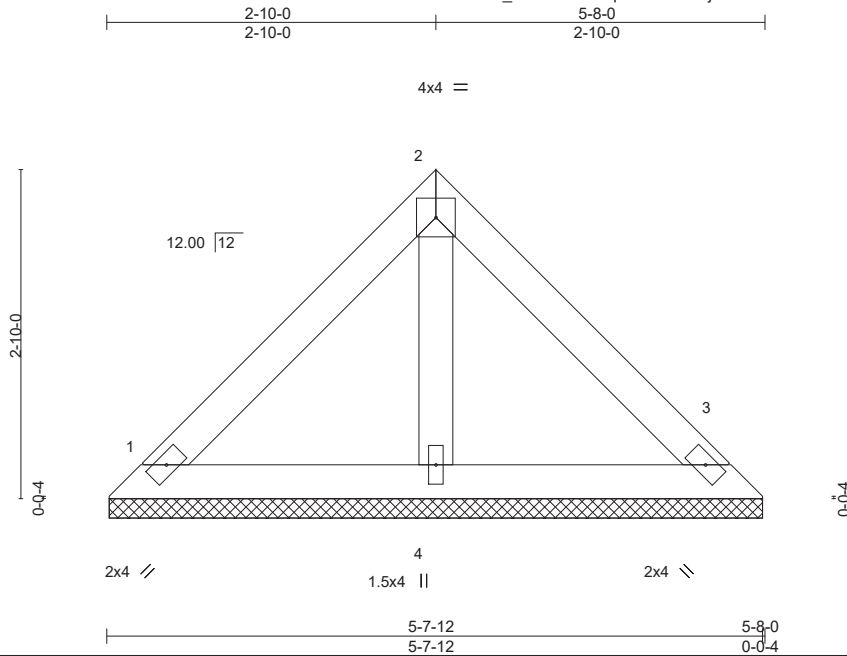
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job BROOKE_A	Truss VC6	Truss Type Valley	Qty 1	Ply 1	Lamco Custom Homes - Brooke A Job Reference (optional)	E12979332
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:59:04 2019 Page 1
ID:YP4_zUn5xScc4EqkH69uw6z2jH-uU2HmrlLwwD88LE8_FzqgGDtd?vCwwkgi9xiCczLkOL



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Vert(TL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(TL) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007			Weight: 22 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 5-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=120/5-7-8, 3=120/5-7-8, 4=157/5-7-8
Max Horz 1=-55(LC 10)
Max Uplift 1=-22(LC 12), 3=-22(LC 12)

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 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (all heights) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-05; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



April 30, 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.

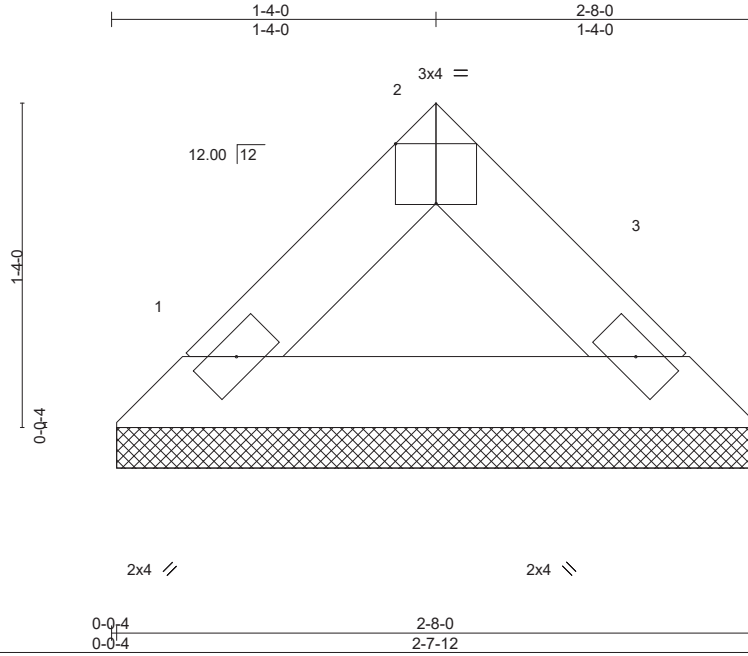


818 Soundside Road
Edenton, NC 27932

Job BROOKE_A	Truss VC7	Truss Type Valley	Qty 1	Ply 1	Lamco Custom Homes - Brooke A Job Reference (optional)	E12979333
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 20:59:05 2019 Page 1
ID:YP4_zUn5xScc4EqkH69uw6z2ljH-Mgcfv6szhDL?mVoLXyUvNTm2tPElfnJqwpfI2zLkoK



Scale = 1:9.5

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.02	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(TL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(TL) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007			Weight: 8 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=79/2-7-8, 3=79/2-7-8
Max Horz 1=-22(LC 8)
Max Uplift 1=-4(LC 10), 3=-4(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 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (all heights) 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) TCLL: ASCE 7-05; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10; Min. flat roof snow load governs.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

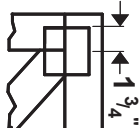
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



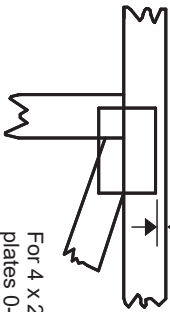
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- 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

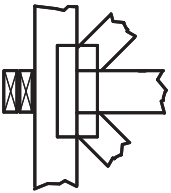
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



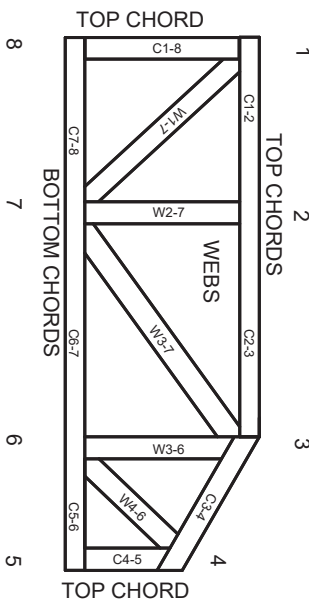
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/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

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



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 Reference Sheet: Mill-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.