

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: Master_RT
Purfoy, Master.RT

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-Apex,NC.

Pages or sheets covered by this seal: I52663131 thru I52663171

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



June 22,2022

Gilbert, Eric

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

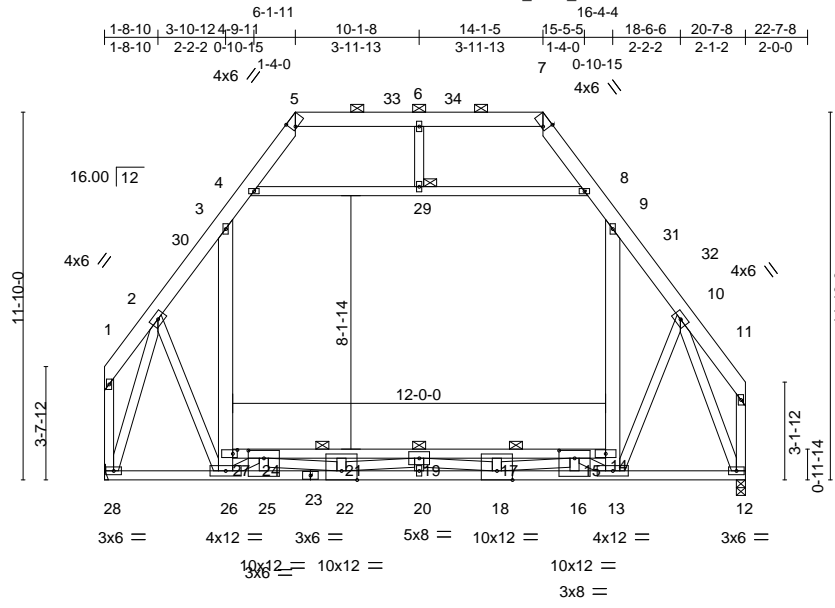
Job MASTER_RT	Truss AT01	Truss Type ATTIC	Qty 10	Ply 1	Purfoy, Master.RT	152663131
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:32:31 2022 Page 1

ID:srh1Bnhll_muC_Z4WU9buzzeKC9-B5UbH3VOC2LzsohkfadLPTg3nZAOnFtwS2kbkSz45o_



Scale = 1:74.1

Plate Offsets (X,Y)--	[5:0-1-10,Edge], [7:0-1-10,Edge], [16:0-6-0,0-3-0], [25:0-6-0,0-3-0], [27:0-1-12,0-1-8]
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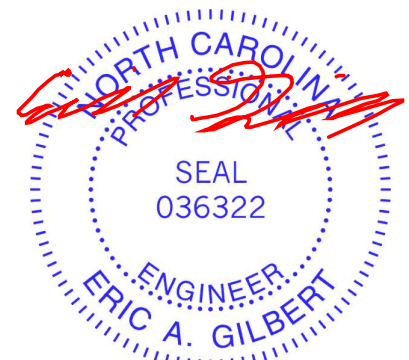
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.43	Vert(LL)	-0.18	19	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.30	17-19	>800		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.85	Horz(CT)	0.04	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.12	13	>999		
								Weight: 234 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 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.): 5-7.
BOT CHORD 2x4 SP No.2 *Except* 12-23: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 3-6-0 oc bracing: 14-27
WEBS 2x4 SP No.3 *Except* 4-8: 2x4 SP No.2, 3-26,9-13: 2x6 SP No.2	JOINTS 1 Brace at Jt(s): 29

REACTIONS.	(size) 12=0-3-8, 28=Mechanical Max Horz 28=270(LC 8) Max Grav 12=1398(LC 2), 28=1424(LC 2)
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FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1052/0, 3-4=-685/63, 4-5=-462/112, 7-8=-452/114, 8-9=-673/67, 9-10=-1132/0, 5-6=-293/83, 6-7=-293/83
BOT CHORD	26-28=-127/538, 25-26=-273/1307, 22-25=-294/1306, 20-22=0/3351, 18-20=0/3351, 16-18=-34/1409, 13-16=-9/1394, 12-13=0/489, 24-27=-243/828, 21-24=-2147/0, 19-21=-2147/0, 17-19=-2255/0, 15-17=-2255/0, 14-15=-320/607
WEBS	4-29=-523/7, 8-29=-523/7, 26-27=0/493, 3-27=0/548, 13-14=0/572, 9-14=0/634, 17-18=-257/0, 21-22=-256/0, 22-24=0/1778, 19-22=-726/86, 18-19=-580/82, 15-18=0/1644, 10-13=-40/413, 10-12=-1389/0, 2-26=-12/565, 2-28=-1407/0, 24-26=-1253/0, 13-15=-1258/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-6-4 to 3-6-4, Interior(1) 3-6-4 to 6-6-3, Exterior(2) 6-6-3 to 9-6-3, Interior(1) 9-6-3 to 14-5-13, Exterior(2) 14-5-13 to 17-5-13, Interior(1) 17-5-13 to 20-10-4 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-29, 8-29; Wall dead load (5.0psf) on member(s).3-27, 9-14
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 24-27, 21-24, 19-21, 17-19, 15-17, 14-15
 - Refer to girder(s) for truss to truss connections.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



June 22, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job MASTER_RT	Truss AT01G	Truss Type GABLE	Qty 1	Ply 1	Purfoy, Master.RT Job Reference (optional)	152663132
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:32:34 2022 Page 1

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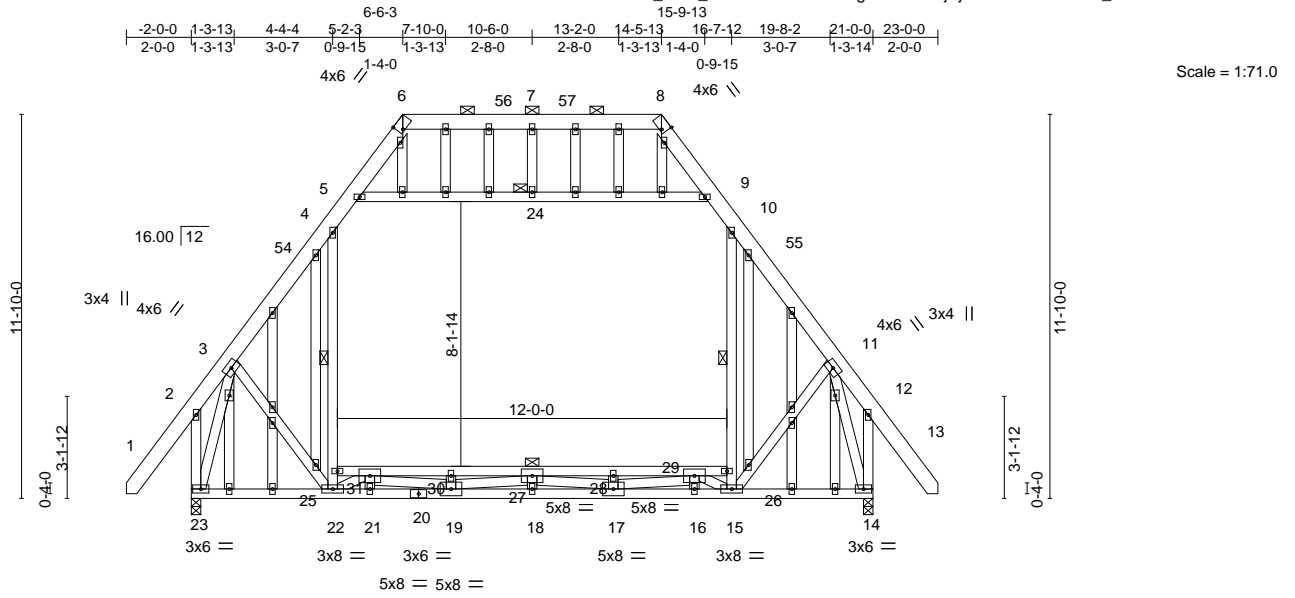


Plate Offsets (X, Y)--	[6:0-1-10,Edge], [8:0-1-10,Edge], [11:0-0-0,0-0-0], [12:0-0-0,0-0-0], [44:0-0-0,0-0-0], [45:0-0-0,0-0-0], [46:0-0-0,0-0-0], [48:0-0-0,0-0-0], [48:0-0-0,0-0-0]
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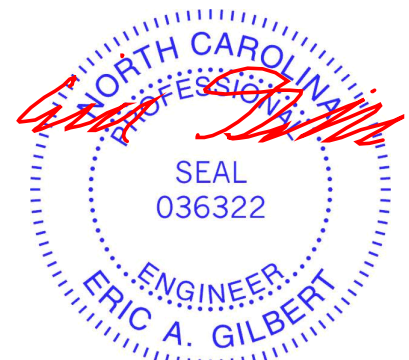
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.33	Vert(LL)	0.19	22	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.53	Vert(CT)	-0.16	18	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.63	Horz(CT)	0.02	14	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 295 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 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.): 6-8.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3 *Except*	8-9-15 oc bracing: 21-22
5-9,4-22,10-15: 2x4 SP No.2	9-9-13 oc bracing: 19-21.
OTHERS 2x4 SP No.3	WEBS 1 Row at midpt 4-22, 10-15, 25-26
	JOINTS 1 Brace at Jt(s): 24

REACTIONS. (size) 23=0-3-8, 14=0-3-8
 Max Horz 23=322(LC 10)
 Max Grav 23=947(LC 1), 14=947(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-240/268, 3-4=-621/143, 4-5=-492/166, 5-6=-411/145, 8-9=-411/145,
 9-10=-492/166, 10-11=-621/143, 11-12=-240/268, 2-23=-313/329, 12-14=-312/329,
 6-7=-260/90, 7-8=-260/90
 BOT CHORD 22-23=-221/339, 21-22=-364/660, 19-21=-364/660, 18-19=0/1317, 17-18=0/1317,
 16-17=-122/456, 15-16=-122/456
 WEBS 5-24=-280/123, 9-24=-280/123, 3-22=-116/315, 11-15=-118/317, 3-23=-734/0,
 11-14=-736/0, 30-31=-686/0, 27-30=-687/0, 27-28=-687/0, 28-29=-686/0,
 22-31=-280/106, 19-31=0/592, 19-27=-398/83, 17-27=-379/18, 17-29=-26/592,
 15-29=-326/146

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-10-1 to 1-2-2, Interior(1) 1-2-2 to 6-6-3, Exterior(2) 6-6-3 to 9-6-3, Interior(1) 9-6-3 to 14-5-13, Exterior(2) 14-5-13 to 17-5-13, Interior(1) 17-5-13 to 22-10-1 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) Gable studs spaced at 1-4-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) Attic room checked for L/360 deflection.



June 22, 2022

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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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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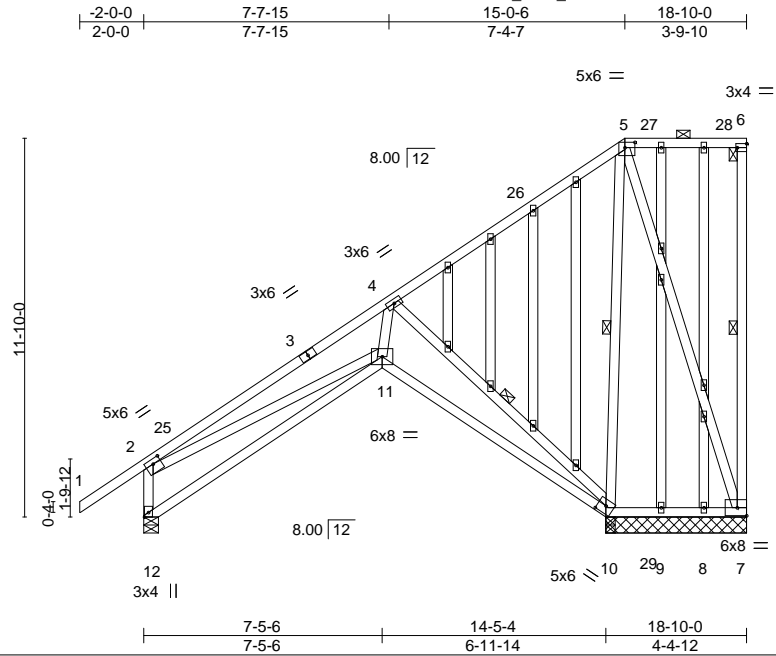
Job MASTER_RT	Truss B01SG	Truss Type GABLE	Qty 1	Ply 1	Purfoy, Master.RT 152663133
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:32:36 2022 Page 1

ID:srh1Bnhll_muC_Z4WU9buzzeKC9-X3lUKmZWQazFyZZiS7CW6WNqSazGSV5fcKSMOgz45nv



Scale = 1:72.0

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.82	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.51	Vert(LL) -0.12 11-12 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.85	Vert(CT) -0.24 11-12 >700 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.13 10 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.05 11 >999 240	Weight: 219 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.): 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 *Except* 6-7: 2x4 SP No.2	WEBS 1 Row at midpt 6-7, 4-10, 5-10
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 4-4-12 except (jt=length) 12=0-5-8.
 (lb) - Max Horz 12=367(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 12, 9 except 7=-627(LC 19), 10=-268(LC 9), 8=-117(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 7, 8, 9 except 12=539(LC 20), 10=1733(LC 19), 10=1607(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-12=-497/148, 2-4=-674/98, 4-5=-314/582
 BOT CHORD 11-12=-607/742, 10-11=-474/845, 9-10=-275/118, 8-9=-275/118, 7-8=-275/118
 WEBS 2-11=0/401, 4-11=-467/1080, 4-10=-1209/523, 5-7=-213/767, 5-10=-1295/488

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-11-14 to 1-0-2, Interior(1) 1-0-2 to 15-0-6, Exterior(2) 15-0-6 to 18-0-6, Interior(1) 18-0-6 to 18-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 9 except (jt=lb) 7=627, 10=268, 8=117.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 22, 2022

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job MASTER_RT	Truss B01V	Truss Type SPECIAL	Qty 5	Ply 1	Purfoy, Master.RT Job Reference (optional)	152663134
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:32:37 2022 Page 1

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Scale = 1:72.0

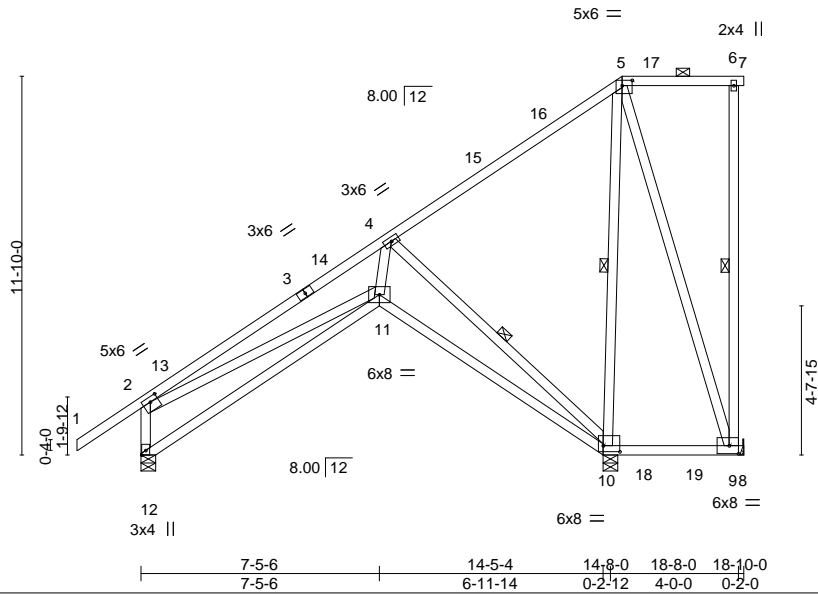


Plate Offsets (X, Y)-- [2:0-3-0,0-1-12], [5:0-3-12,0-2-0], [9:0-3-8,0-3-0], [10:0-6-4,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.71	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.46	Vert(LL) -0.12 11-12 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.75	Vert(CT) -0.25 11-12 >698 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.13 10 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.04 11 >999 240	Weight: 150 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, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 5-7.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 4-10, 5-10, 6-9

REACTIONS. (size) 12=0-5-8, 10=0-5-8, 9=Mechanical
 Max Horz 12=269(LC 12)
 Max Uplift 10=-219(LC 12), 9=-557(LC 19)
 Max Grav 12=514(LC 1), 10=1677(LC 19), 9=130(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-12=-500/158, 2-4=-697/61, 4-5=-151/418
 BOT CHORD 11-12=-395/494, 10-11=-264/611
 WEBS 2-11=0/421, 4-11=-219/802, 4-10=-997/338, 5-10=-1118/259, 5-9=-106/683

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-11-14 to 1-0-2, Interior(1) 1-0-2 to 15-0-6, Exterior(2) 15-0-6 to 18-10-0 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
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) 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.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=219, 9=557.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 22, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job MASTER_RT	Truss B01VA	Truss Type SPECIAL	Qty 1	Ply 1	Purfoy, Master.RT	152663135
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:32:39 2022 Page 1
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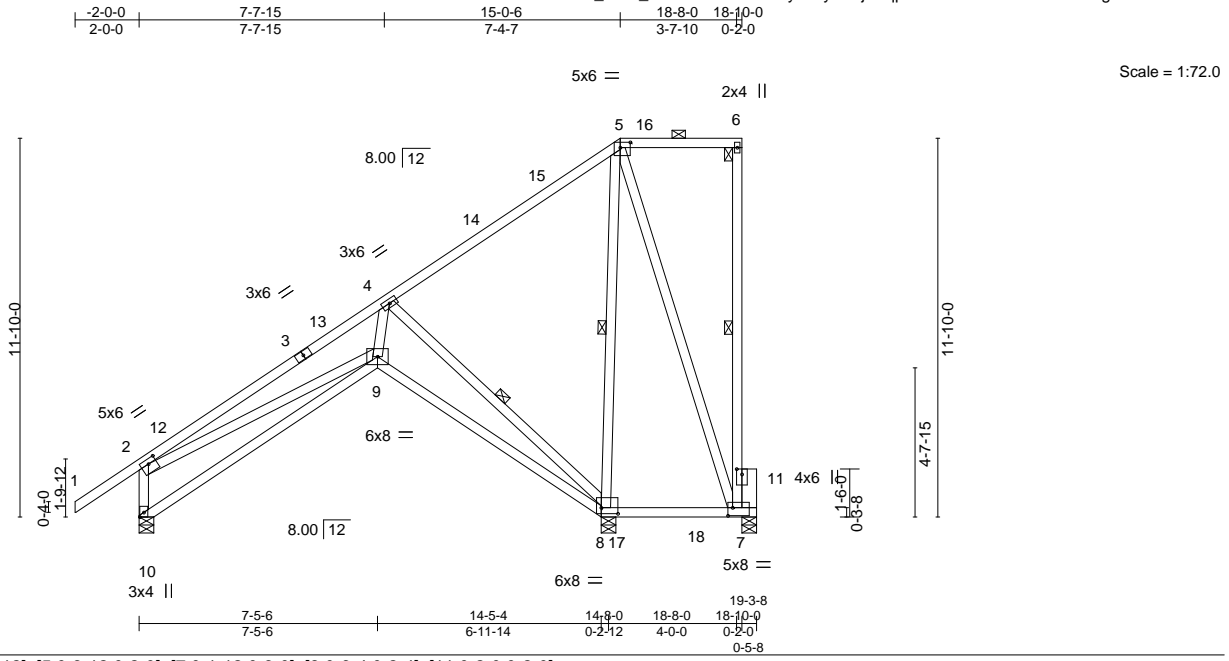


Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [5:0-3-12,0-2-0], [7:0-1-12,0-3-0], [8:0-6-4,0-2-4], [11:0-2-0,0-2-0]

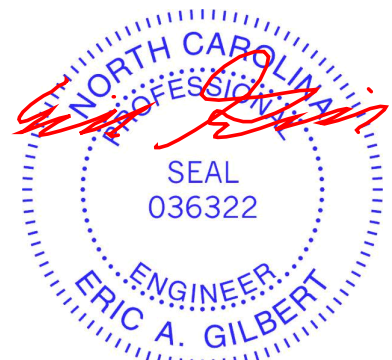
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.72	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.46	Vert(LL) -0.12 9-10 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.75	Vert(CT) -0.24 9-10 >704 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.12 8 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.04 9 >999 240	Weight: 154 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.): 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 *Except* 7-11: 2x6 SP No.2	WEBS 1 Row at midpt 4-8, 5-8, 6-7

REACTIONS. (size) 10=0-5-8, 8=0-5-8, 7=0-5-8
 Max Horz 10=269(LC 12)
 Max Uplift 8=216(LC 12), 7=550(LC 19)
 Max Grav 10=505(LC 1), 8=1675(LC 19), 7=124(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-10=-492/156, 2-4=-657/55, 4-5=-153/432
 BOT CHORD 9-10=-395/493, 8-9=-258/577
 WEBS 2-9=0/386, 4-9=-213/768, 4-8=-971/334, 5-8=-1114/261, 5-7=-104/670

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-11-14 to 1-0-2, Interior(1) 1-0-2 to 15-0-6, Exterior(2) 15-0-6 to 18-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Bearing at joint(s) 10 considers parallel to grain value using ANSITPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=216, 7=550.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

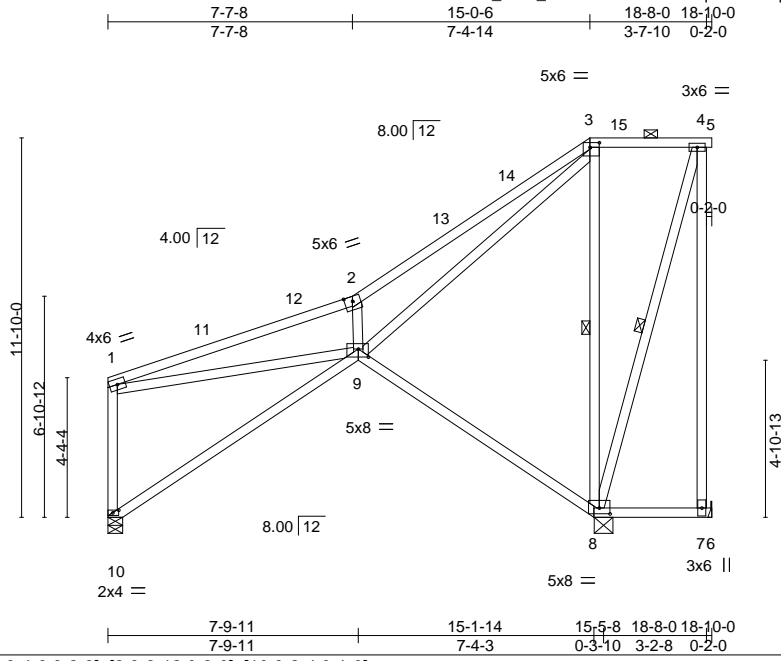


June 22, 2022

Job MASTER_RT	Truss B02V	Truss Type SPECIAL	Qty 10	Ply 1	Purfoy, Master.RT Job Reference (optional)	152663136
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:32:40 2022 Page 1

ID:srh1Bnhll_muC_Z4WU9buzzeKC9-QqX?A8c1UpThRAthzHSHMYU8BJ0OMeFWxQaYRz45nr



Scale = 1:71.9

Plate Offsets (X,Y)--	[3:0-3-8,0-1-12], [8:0-4-0,0-2-3], [9:0-3-12,0-3-0], [10:0-2-4,0-1-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.84	Vert(LL) -0.15 9-10 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.52	Vert(CT) -0.32 9-10 >570 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.68	Horz(CT) 0.14 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.05 9 >999 240	Weight: 149 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 3-5.
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 3-8, 4-8

REACTIONS. (size) 10=0-5-8, 8=0-7-0, 7=Mechanical
 Max Horz 10=209(LC 9)
 Max Uplift 8=179(LC 12), 7=789(LC 1)
 Max Grav 10=388(LC 1), 8=1896(LC 1), 7=121(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-10=-339/66, 1-2=-619/46, 2-3=-677/154, 3-4=-45/261
 BOT CHORD 9-10=-327/318, 8-9=-346/77
 WEBS 1-9=0/483, 2-9=-595/163, 3-9=-298/964, 3-8=-708/240, 4-8=-931/161, 4-7=-133/812

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-0-6, Exterior(2) 15-0-6 to 18-10-0 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
 - 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.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=179, 7=789.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 22, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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

Job MASTER_RT	Truss B02VG	Truss Type GABLE	Qty 1	Ply 1	Purfoy, Master.RT	152663137
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:32:42 2022 Page 1
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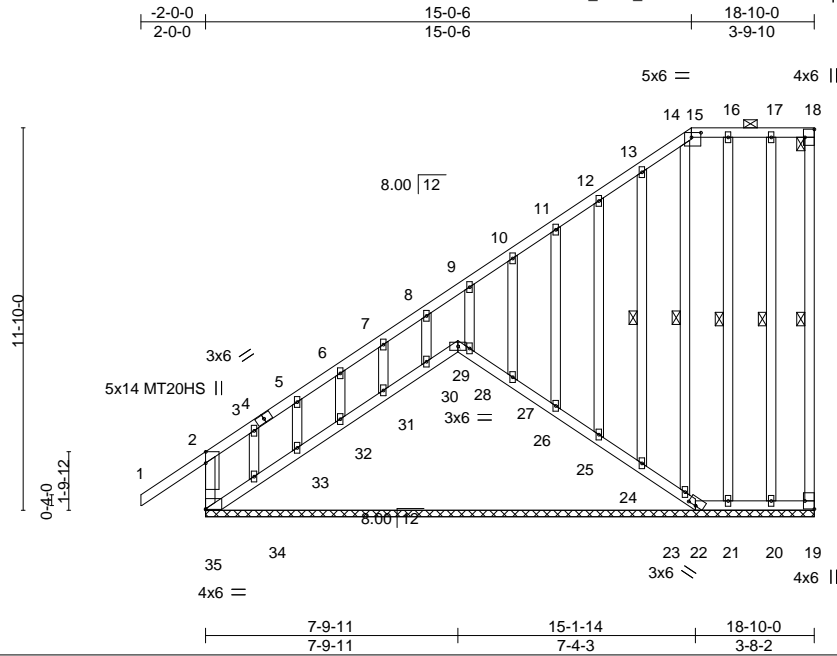


Plate Offsets (X,Y)--	[2:0-4-3,Edge], [15:0-3-8,0-1-12], [18:Edge,0-3-8], [19:Edge,0-3-8], [22:0-3-0,0-0-2], [35:0-0-0,0-0-3]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.79	Vert(LL) -0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.62	Vert(CT) -0.02	1	n/r	120	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.14	Horz(CT) -0.01	19	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R						
							Weight: 192 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-11-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 15-18.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 31-32,26-27,23-24,22-23.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 18-19, 17-20, 16-21, 14-23, 13-24
OTHERS 2x4 SP No.3	

REACTIONS.
All bearings 18-10-0.
(lb) - Max Horz 35=367(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 19, 22, 20, 21, 23, 24, 25, 26, 27, 28, 30, 31, 32, 33 except 35=302(LC 8), 29=154(LC 11), 34=545(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 19, 29, 22, 20, 21, 23, 24, 25, 26, 27, 28, 30, 31, 32, 33 except 35=646(LC 9), 34=374(LC 10)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-35=-542/388, 2-3=-629/574, 3-5=-368/364, 5-6=-385/378, 6-7=-346/345, 7-8=-317/320, 8-9=-285/294, 9-10=-254/268
BOT CHORD 34-35=-296/320
WEBS 3-34=-405/454

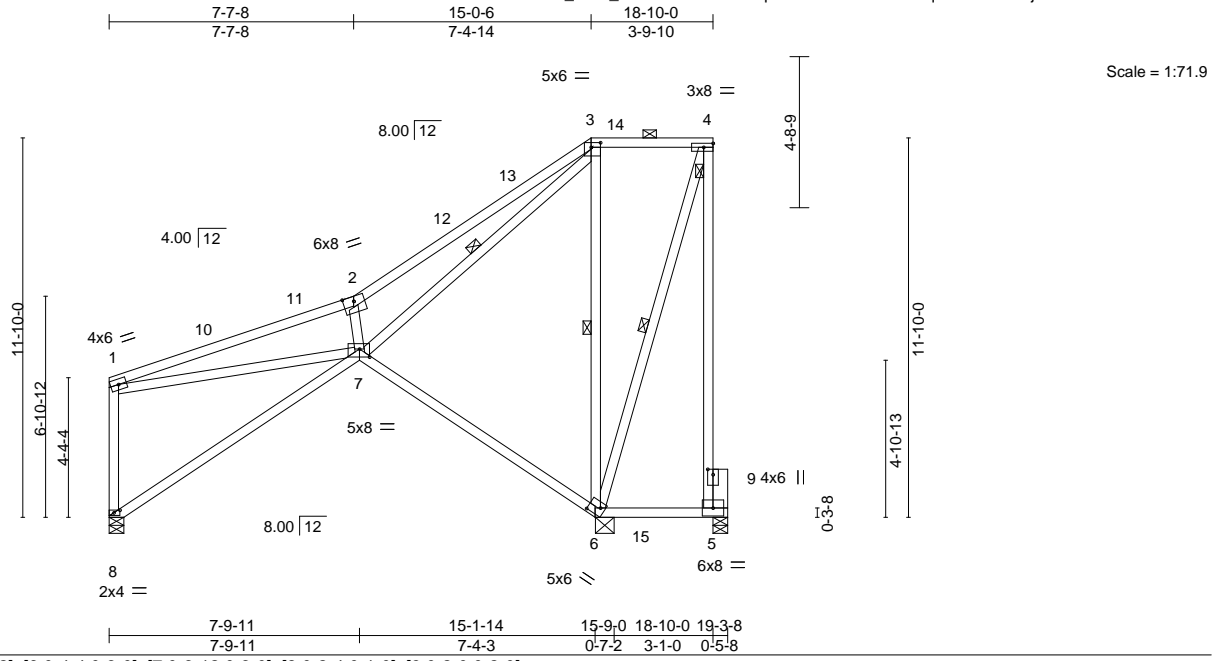
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-11-14 to 1-0-2, Exterior(2) 1-0-2 to 15-0-6, Corner(3) 15-0-6 to 18-0-6, Exterior(2) 18-0-6 to 18-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 2x4 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 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 22, 20, 21, 23, 24, 25, 26, 27, 28, 30, 31, 32, 33 except (jt=lb) 35=302, 29=154, 34=545.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 29, 23, 24, 25, 26, 27, 28, 30, 31, 32, 33, 34.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job MASTER_RT	Truss B03V	Truss Type SPECIAL	Qty 3	Ply 1	Purfoy, Master.RT Job Reference (optional)	152663138
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:32:43 2022 Page 1

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.84	Vert(LL)	-0.15	7-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.52	Vert(CT)	-0.31	7-8	>574		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.66	Horz(CT)	0.15	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.07	7	>999		
								Weight: 152 lb	FT = 20%

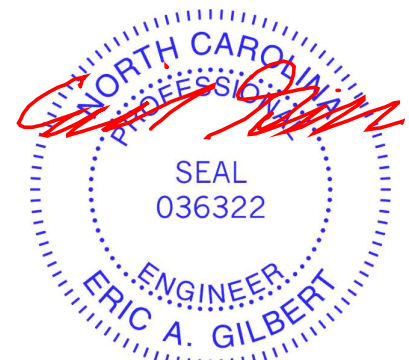
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 3-4.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 4-5: 2x4 SP No.2, 5-9: 2x6 SP No.2	WEBS 1 Row at midpt 3-7, 3-6, 4-6

REACTIONS. (size) 8=0-5-8, 5=0-5-8, 6=0-7-0
 Max Horz 8=354(LC 9)
 Max Uplift 8=74(LC 8), 5=752(LC 1), 6=208(LC 9)
 Max Grav 8=414(LC 20), 5=87(LC 12), 6=1856(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-8=-333/98, 1-2=-633/229, 2-3=-762/355, 3-4=-146/340, 4-5=-205/788
 BOT CHORD 7-8=-542/568, 6-7=-437/230
 WEBS 1-7=-118/489, 2-7=-588/215, 3-7=-660/1346, 3-6=-797/401, 4-6=-892/205

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-0-6, Exterior(2) 15-0-6 to 18-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 5=752, 6=208.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 22, 2022

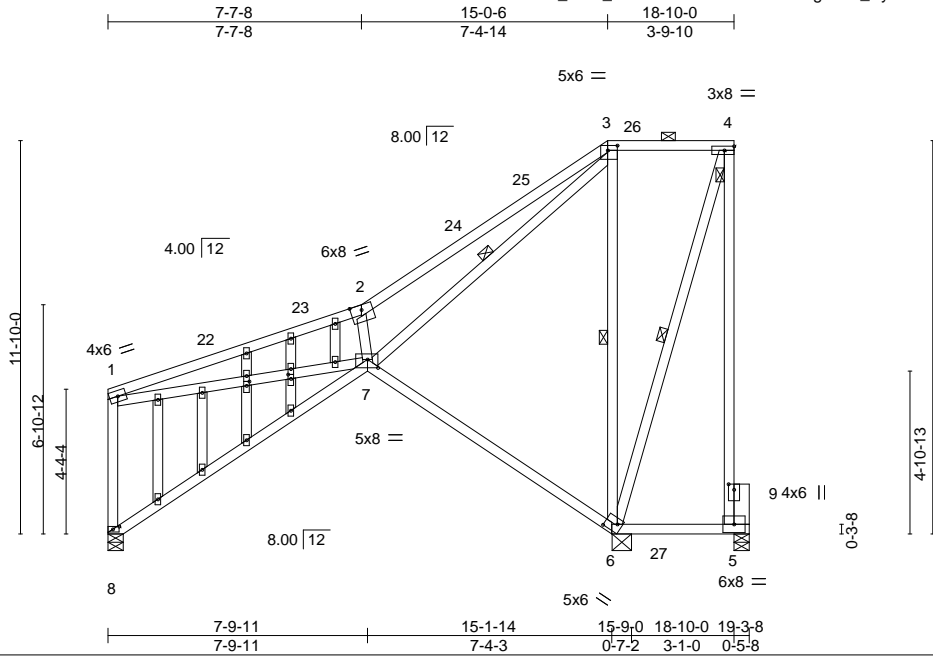
Job MASTER_RT	Truss B03VSG	Truss Type GABLE	Qty 1	Ply 1	Purfoy, Master.RT Job Reference (optional)	152663139
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:32:45 2022 Page 1

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Scale = 1:69.3

Plate Offsets (X,Y)--	[3:0-3-8,0-1-12], [6:0-4-4,0-3-0], [7:0-3-12,0-3-0], [8:0-2-4,0-1-0], [9:0-2-0,0-2-0], [12:0-1-9,0-1-0], [15:0-1-9,0-1-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.84	Vert(LL)	-0.15	7-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.52	Vert(CT)	-0.31	7-8	>574		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.66	Horz(CT)	0.15	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.07	7	>999		
								Weight: 169 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 3-4.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 3-7, 3-6, 4-6
4-5: 2x4 SP No.2, 5-9: 2x6 SP No.2	
OTHERS 2x4 SP No.3	

REACTIONS. (size) 8=0-5-8, 5=0-5-8, 6=0-7-0
 Max Horz 8=354(LC 9)
 Max Uplift 8=-74(LC 8), 5=-752(LC 1), 6=-208(LC 9)
 Max Grav 8=414(LC 20), 5=87(LC 12), 6=1856(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-8=-333/98, 1-2=-633/229, 2-3=-762/355, 3-4=-146/340, 4-5=-205/788
 BOT CHORD 7-8=-542/568, 6-7=-437/230
 WEBS 1-7=-118/489, 2-7=-588/215, 3-7=-660/1346, 3-6=-797/401, 4-6=-892/205

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-0-6, Exterior(2) 15-0-6 to 18-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 5=752, 6=208.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 22, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

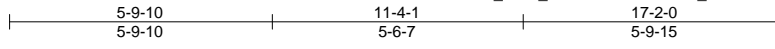
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job MASTER_RT	Truss C01	Truss Type COMMON	Qty 4	Ply 1	Purfoy, Master.RT Job Reference (optional)	152663140
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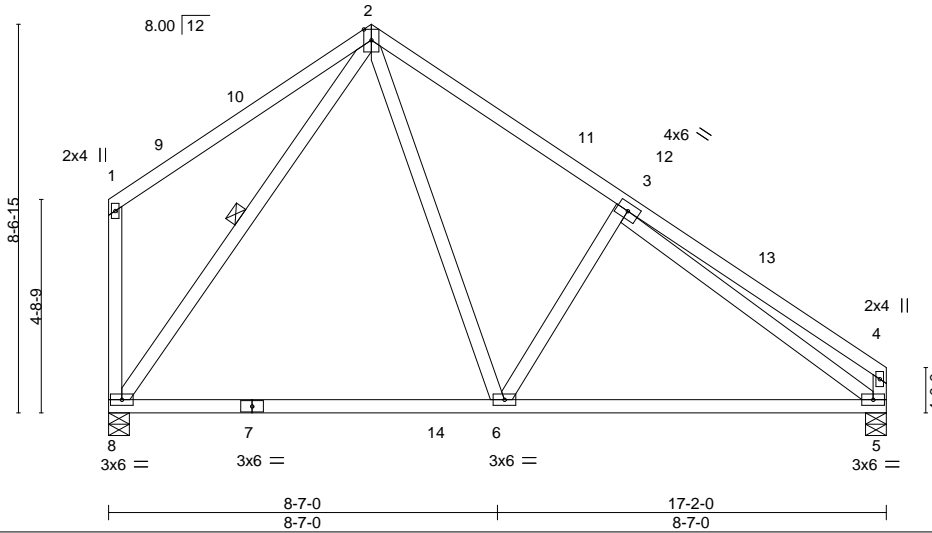
Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:32:46 2022 Page 1
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4x6 ||

Scale = 1:50.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	-0.23 6-8	>869	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	-0.35 6-8	>576	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.01 5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	-0.01 6-8	>999	240		
								Weight: 108 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-8

REACTIONS. (size) 8=0-5-8, 5=0-5-8
Max Horz 8=208(LC 8)
Max Grav 8=706(LC 20), 5=675(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-659/114, 3-4=-297/85, 4-5=-267/83
BOT CHORD 6-8=0/374, 5-6=-10/594
WEBS 2-6=-9/541, 3-6=-275/148, 3-5=-594/4, 2-8=-564/51

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 5-9-10, Exterior(2) 5-9-10 to 10-0-8, Interior(1) 10-0-8 to 17-0-4 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.



June 22, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

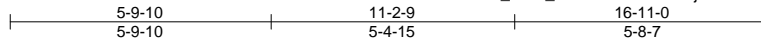
Job MASTER_RT	Truss C01A	Truss Type COMMON	Qty 6	Ply 1	Purfoy, Master.RT Job Reference (optional)	152663141
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:32:47 2022 Page 1

ID:srh1Bnhll_muC_Z4WU9buzzeKC9-jASeeXiQrzMhmFvpbxv53rKIZ0ftXdlH7XcRHXz45nk



4x6 ||

Scale = 1:51.2

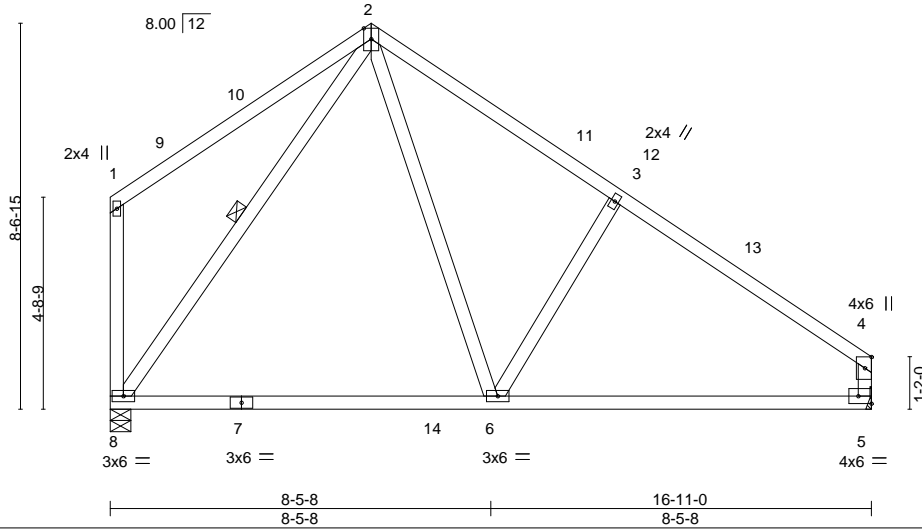


Plate Offsets (X,Y)-- [5:Edge,0-2-0]

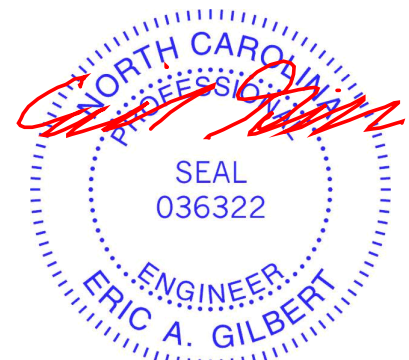
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.64	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.76	Vert(LL) -0.26 6-8 >772 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.28	Vert(CT) -0.42 6-8 >478 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 5 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.03 6-8 >999 240	Weight: 98 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-7-14 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 4-5: 2x4 SP No.2	WEBS 1 Row at midpt 2-8

REACTIONS. (size) 8=0-5-8, 5=Mechanical
 Max Horz 8=-208(LC 8)
 Max Grav 8=701(LC 20), 5=665(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-606/115, 3-4=-765/73, 4-5=-565/70
 BOT CHORD 6-8=-2/366, 5-6=-13/546
 WEBS 2-6=-17/484, 3-6=-253/147, 2-8=-545/51

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 5-9-10, Exterior(2) 5-9-10 to 10-0-8, Interior(1) 10-0-8 to 16-9-4 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
 - 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.
 - Refer to girder(s) for truss to truss connections.



June 22, 2022

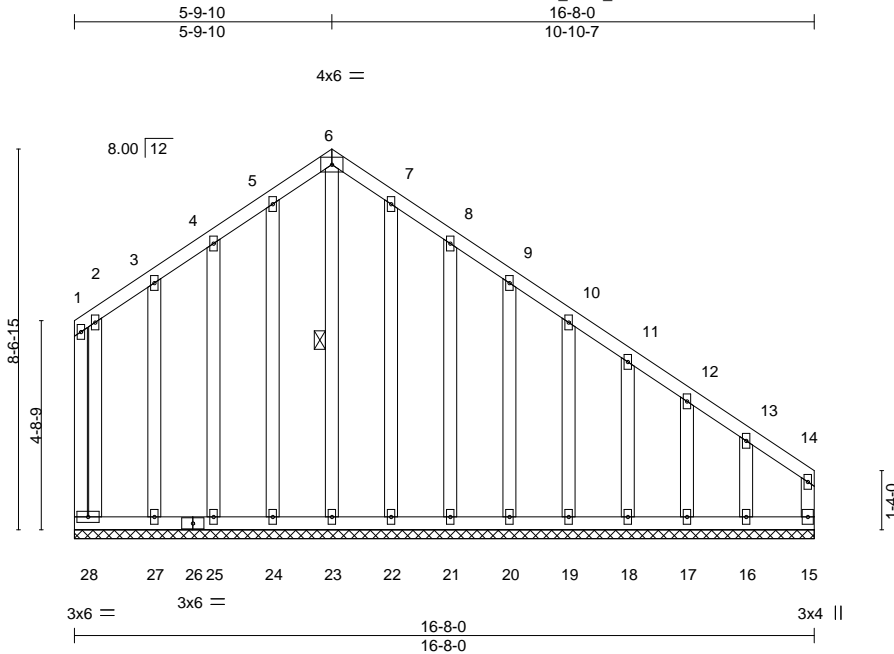
Job MASTER_RT	Truss C01G	Truss Type GABLE	Qty 1	Ply 1	Purfoy, Master.RT Job Reference (optional)	152663142
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:32:48 2022 Page 1

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Scale = 1:51.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.09	Horz(CT)	0.00	15	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						
								Weight: 156 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 6-23

REACTIONS.

All bearings 16-8-0.
 (lb) - Max Horz 28=-208(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 28, 23, 24, 25, 27, 22, 21, 20, 19, 18, 17 except 15=-178(LC 11), 16=-202(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 28, 23, 24, 25, 27, 22, 21, 20, 19, 18, 17, 16 except 15=259(LC 8)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 3-1-10, Exterior(2) 3-1-10 to 5-9-10, Corner(3) 5-9-10 to 8-9-10, Exterior(2) 8-9-10 to 16-6-4 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.
- All plates are 2x4 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 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 23, 24, 25, 27, 22, 21, 20, 19, 18, 17 except (jt=lb) 15=178, 16=202.



June 22, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

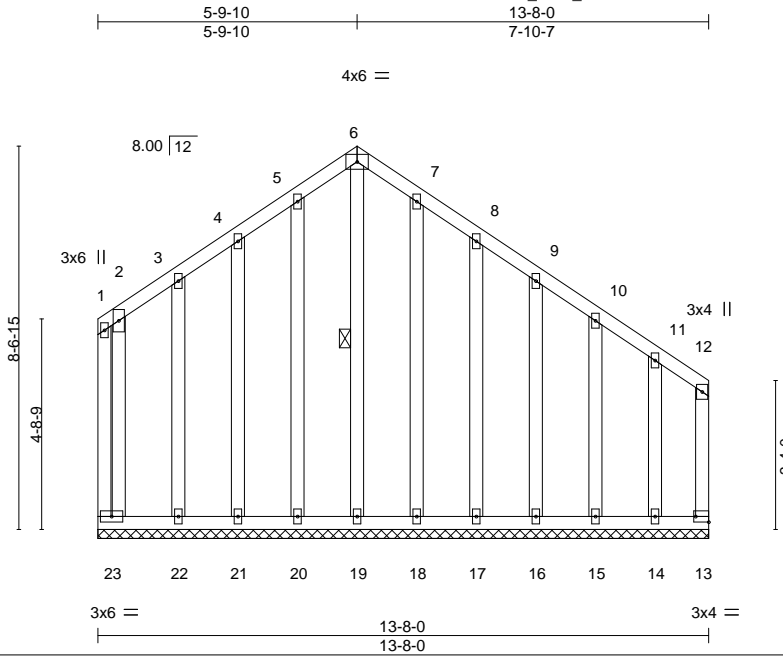


818 Soundside Road
 Edenton, NC 27932

Job MASTER_RT	Truss C02G	Truss Type GABLE	Qty 1	Ply 1	Purfoy, Master.RT Job Reference (optional)	152663144
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:32:51 2022 Page 1
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Scale = 1:51.6

Plate Offsets (X,Y)--	[13:Edge,0-1-8]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.53	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.22	Horz(CT)	-0.00	13	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						
								Weight: 142 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 6-19
OTHERS	2x4 SP No.3		

REACTIONS. All bearings 13-8-0.
 (lb) - Max Horz 23--205(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 20, 21, 18, 17, 16, 15 except 23--221(LC 8), 13--313(LC 9), 22--241(LC 9), 14--375(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 23, 19, 20, 21, 18, 17, 16, 15 except 13--373(LC 10), 22--348(LC 10), 14--416(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-23--408/362
 WEBS 2-23--523/553

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 3-1-10, Exterior(2) 3-1-10 to 5-9-10, Corner(3) 5-9-10 to 8-9-10, Exterior(2) 8-9-10 to 13-6-4 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 21, 18, 17, 16, 15 except (jt=lb) 23=221, 13=313, 22=241, 14=375.



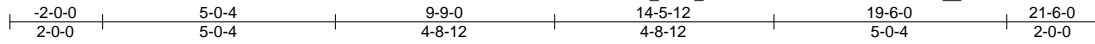
June 22, 2022

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job MASTER_RT	Truss D01	Truss Type COMMON	Qty 5	Ply 1	Purfoy, Master.RT	152663145
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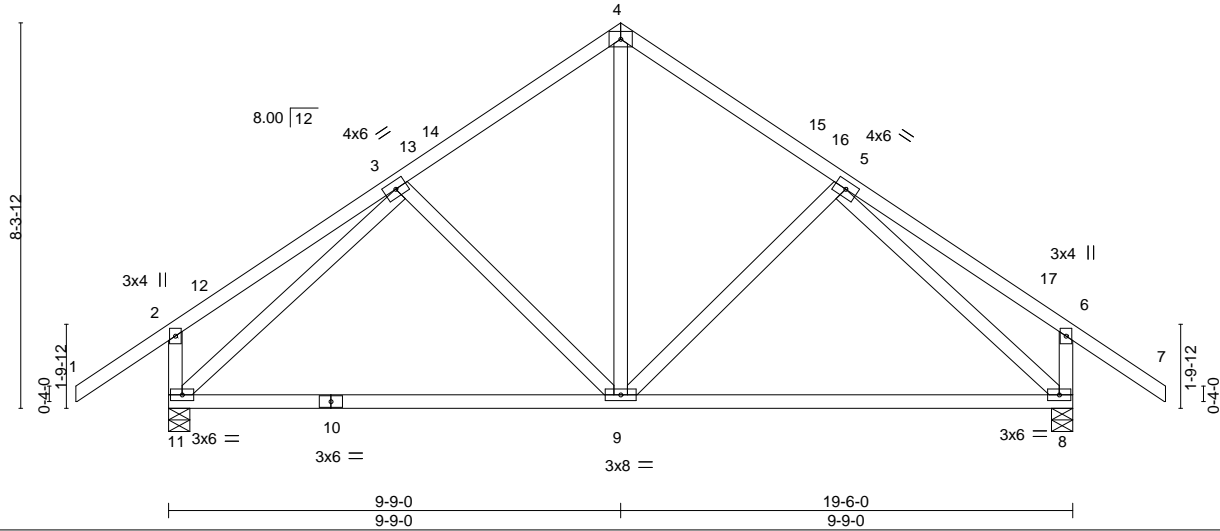
Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:32:52 2022 Page 1

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4x6 =

Scale = 1:49.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.46	Vert(LL)	-0.17	8-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.89	Vert(CT)	-0.34	8-9	>671		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.63	Horz(CT)	0.02	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	-0.01	9	>999		
								Weight: 125 lb	FT = 20%

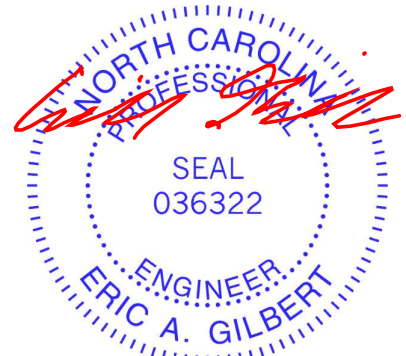
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (size) 11=0-5-8, 8=0-5-8
Max Horz 11=200(LC 11)
Max Uplift 11=-17(LC 12), 8=-17(LC 13)
Max Grav 11=896(LC 1), 8=896(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-309/128, 3-4=-660/89, 4-5=-660/89, 6-8=-309/128
BOT CHORD 9-11=-17/599, 8-9=0/552
WEBS 4-9=-12/429, 5-8=-720/18, 3-11=-720/18

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-11-14 to 1-0-2, Interior(1) 1-0-2 to 9-9-0, Exterior(2) 9-9-0 to 13-11-15, Interior(1) 13-11-15 to 21-5-14 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
 - 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) 11, 8.



June 22, 2022

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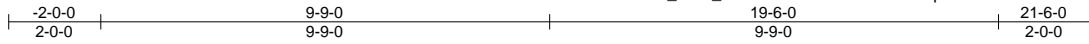


818 Soundside Road
Edenton, NC 27932

Job MASTER_RT	Truss D01G	Truss Type GABLE	Qty 1	Ply 1	Purfoy, Master.RT	152663146
					Job Reference (optional)	

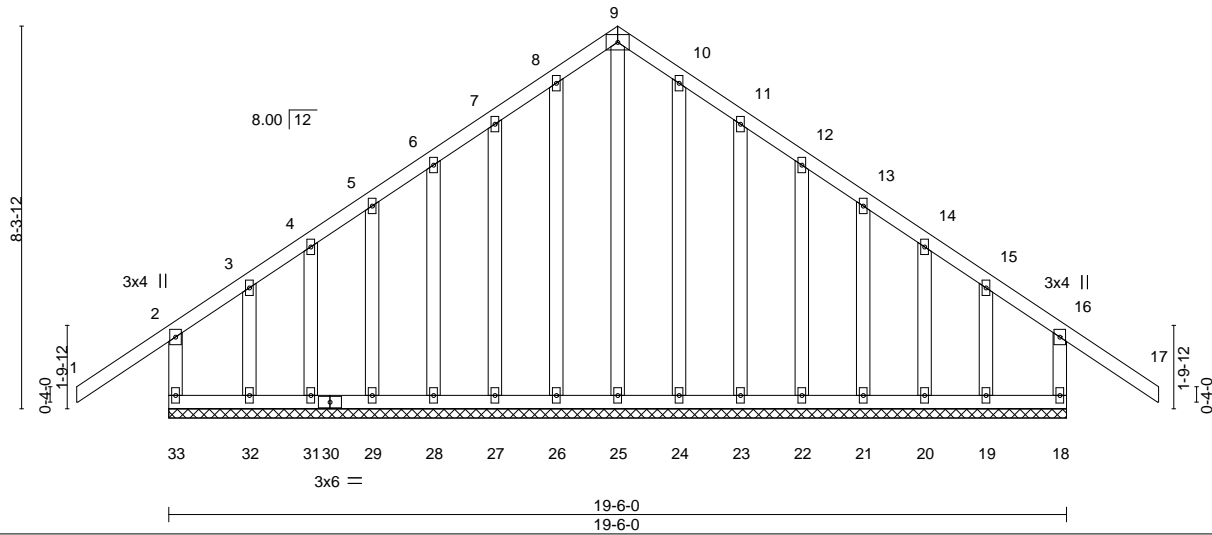
Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:32:54 2022 Page 1
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4x6 =

Scale = 1:50.0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.38	Vert(LL)	-0.03	17	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.06	17	n/r		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.24	Horz(CT)	-0.00	18	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R					Weight: 170 lb	FT = 20%

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

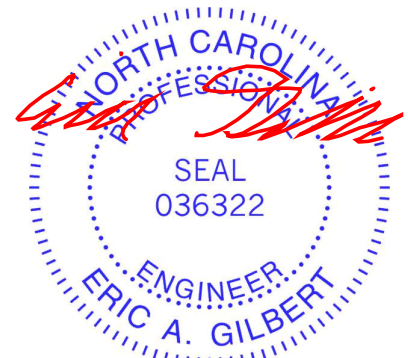
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 19-6-0.
 (lb) - Max Horz 33=200(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 26, 27, 28, 29, 31, 24, 23, 22, 21, 20 except 33=118(LC 8), 18=106(LC 9), 32=129(LC 9), 19=119(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 25, 26, 27, 28, 29, 31, 32, 24, 23, 22, 21, 20, 19 except 33=267(LC 20), 18=257(LC 19)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-11-14 to 1-0-2, Exterior(2) 1-0-2 to 9-9-0, Corner(3) 9-9-0 to 12-9-0, Exterior(2) 12-9-0 to 21-5-14 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.
- All plates are 2x4 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 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26, 27, 28, 29, 31, 24, 23, 22, 21, 20 except (jt=lb) 33=118, 18=106, 32=129, 19=119.



June 22, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job MASTER_RT	Truss D02GR	Truss Type COMMON	Qty 1	Ply 3	Purfoy, Master.RT Job Reference (optional)	152663147
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:32:57 2022 Page 1

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4x6 ||

Scale = 1:53.4

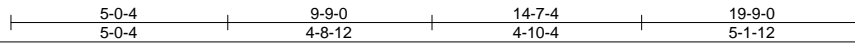
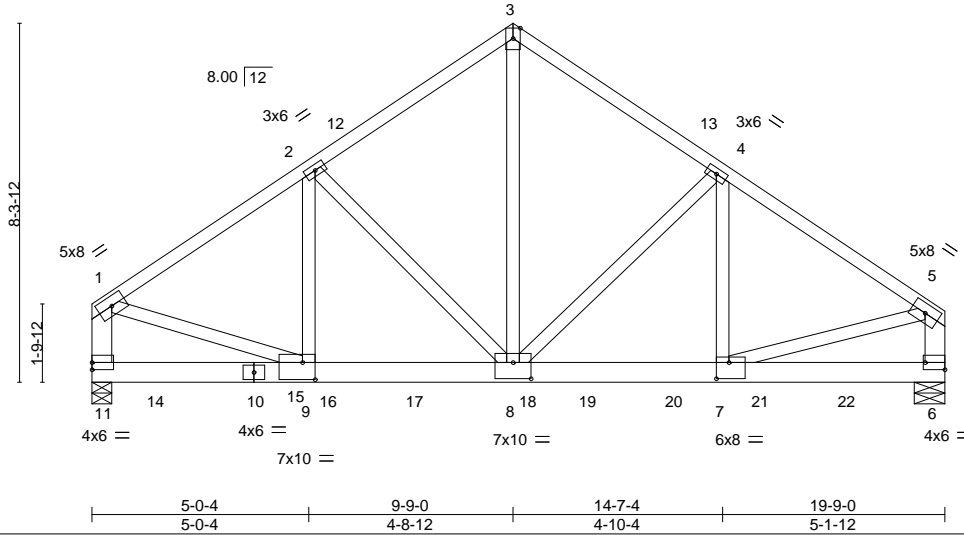


Plate Offsets (X, Y)-- [6:Edge,0-2-0], [7:0-3-8,0-4-8], [8:0-5-0,0-4-8], [9:0-3-8,0-4-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.34	Vert(LL)	-0.06	7-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.94	Vert(CT)	-0.12	7-8	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.54	Horz(CT)	0.02	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.00	9	>999		
								Weight: 434 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 1-11,5-6: 2x6 SP No.2	

REACTIONS. (size) 11=0-5-8, 6=0-8-8
 Max Horz 11=-170(LC 4)
 Max Grav 11=7243(LC 2), 6=8077(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-11=-5792/0, 1-2=-7153/0, 2-3=-5690/0, 3-4=-5693/0, 4-5=-7354/0, 5-6=-5723/0
 BOT CHORD 9-11=0/577, 8-9=0/5890, 7-8=0/6056, 6-7=0/593
 WEBS 1-9=0/5587, 2-9=0/1851, 2-8=-1734/0, 3-8=0/5987, 4-8=-1925/0, 4-7=0/2058, 5-7=0/5678

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1396 lb down at 1-5-4, 1396 lb down at 3-5-4, 1396 lb down at 5-5-4, 1396 lb down at 7-5-4, 1396 lb down at 9-5-4, 1396 lb down at 11-5-4, 1396 lb down at 13-5-4, 1396 lb down at 15-5-4, and 1396 lb down at 17-5-4, and 1404 lb down at 19-6-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-5=-60, 6-11=-20



June 22, 2022

Job MASTER_RT	Truss D02GR	Truss Type COMMON	Qty 1	Ply 3	Purfoy, Master.RT Job Reference (optional)	I52663147
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:32:57 2022 Page 2
ID:srh1Bnhll_muC_Z4WU9buzzeKC9-Q53QkypIU1cHzogkA24RTyIWl21Kt48lR51zeyz45na

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 6=-1131(B) 14=-1122(B) 15=-1122(B) 16=-1122(B) 17=-1122(B) 18=-1122(B) 19=-1122(B) 20=-1122(B) 21=-1122(B) 22=-1122(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

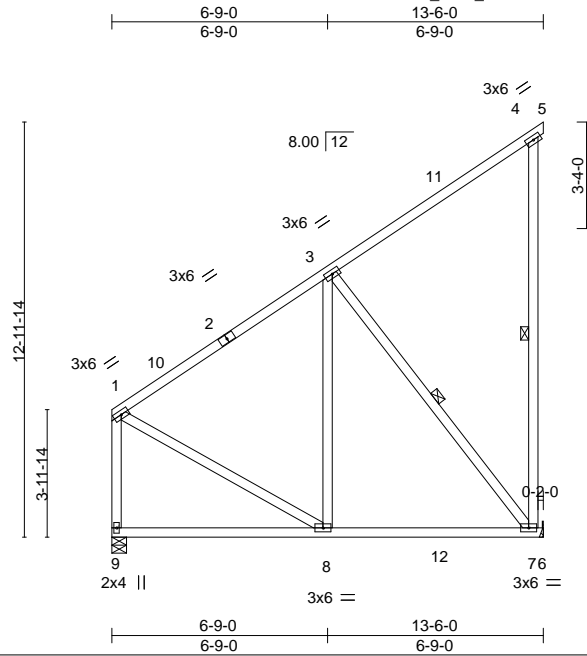
Job MASTER_RT	Truss E01	Truss Type MONO TRUSS	Qty 3	Ply 1	Purfoy, Master.RT Job Reference (optional)	152663148
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:32:58 2022 Page 1

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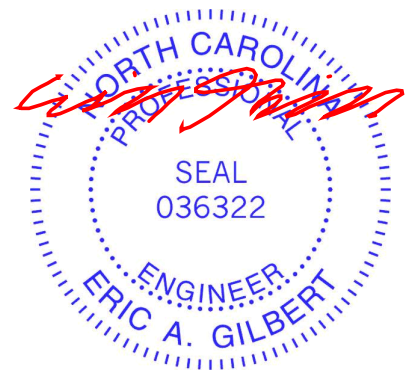
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.60	Vert(LL)	-0.07	7-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.41	Vert(CT)	-0.10	7-8	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.01	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	-0.07	7-8	>999		
								Weight: 105 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-2-4 oc bracing.
WEBS 2x4 SP No.3 *Except* 4-7: 2x4 SP SS	WEBS 1 Row at midpt 4-7, 3-7

REACTIONS. (size) 9=0-5-8, 7=Mechanical
 Max Horz 9=376(LC 9)
 Max Uplift 7=143(LC 9)
 Max Grav 9=587(LC 20), 7=687(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-9=-542/88, 1-3=-483/78
 BOT CHORD 8-9=-499/532, 7-8=-235/448
 WEBS 1-8=-97/389, 3-7=-518/207

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 13-6-0 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
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=143.



Job MASTER_RT	Truss E02	Truss Type MONO TRUSS	Qty 1	Ply 1	Purfoy, Master.RT Job Reference (optional)	152663149
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:32:59 2022 Page 1

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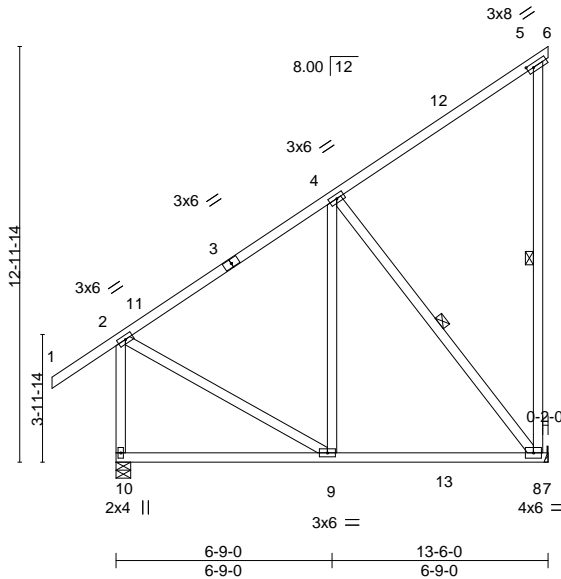


Plate Offsets (X, Y)-- [5:0-2-6,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.55	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.41	Vert(LL) -0.07 8-9 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.28	Vert(CT) -0.10 8-9 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 8 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) -0.07 8-9 >999 240	Weight: 109 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 5-8: 2x4 SP SS

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 7-11-11 oc bracing.
 WEBS 1 Row at midpt 5-8, 4-8

REACTIONS. (size) 10=0-5-8, 8=Mechanical
 Max Horz 10=394(LC 9)
 Max Uplift 8=-147(LC 9)
 Max Grav 10=683(LC 20), 8=679(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-10=-639/145, 2-4=-477/89
 BOT CHORD 9-10=-526/553, 8-9=-238/445
 WEBS 2-9=-125/400, 4-8=-512/212

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 13-6-0 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=147.



June 22, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job MASTER_RT	Truss E02G	Truss Type GABLE	Qty 1	Ply 1	Purfoy, Master.RT 152663150
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:33:00 2022 Page 1

ID:srh1Bnhll_muC_Z4WU9buzzeKC9-qgkZM_sany_rqFPJsAe85aNx3F8y4W5B73GdFHZ45nX
 -2-0-0 | 12-3-12 | 13-6-0
 2-0-0 | 12-3-12 | 1-2-4

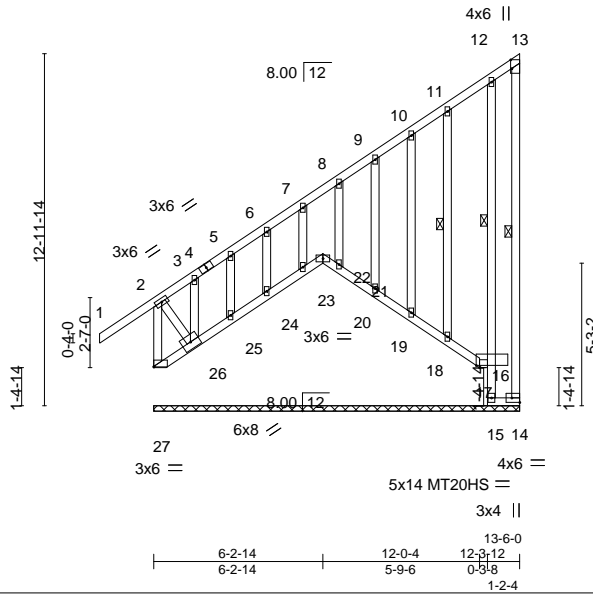


Plate Offsets (X,Y)-- [13:0-3-14,Edge], [14:Edge,0-2-0], [17:0-1-8,0-1-0], [27:0-0-0,0-0-3]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.71	Vert(LL)	0.01	1-2	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.56	Vert(CT)	-0.01	1-2	n/r	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.20	Horz(CT)	0.03	14	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 143 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 12-15: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
WEBS 2x4 SP No.3 *Except* 13-14: 2x4 SP No.1	WEBS 1 Row at midpt 12-16 1 Row at midpt 13-14, 11-18
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 13-6-0.
 (lb) - Max Horz 27=383(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 14, 15, 18, 19, 20, 21, 23, 24, 25 except 27=-358(LC 8), 22=-169(LC 11), 17=-192(LC 11), 16=-124(LC 12), 26=-484(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 14, 22, 17, 16, 15, 18, 19, 20, 21, 23, 24, 25 except 27=703(LC 11), 26=350(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-27=676/530, 2-3=-405/383, 3-5=-409/415, 5-6=-366/373, 6-7=-336/350, 7-8=-303/323, 8-9=-271/296, 9-10=-238/270
 BOT CHORD 26-27=-666/686, 18-19=-204/251, 12-16=-264/179
 WEBS 2-26=-641/687

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-11-14 to 1-0-2, Exterior(2) 1-0-2 to 13-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Bearing at joint(s) 16 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) 14, 15, 18, 19, 20, 21, 23, 24, 25 except (jt=lb) 27=358, 22=169, 17=192, 16=124, 26=484.
 - 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 27, 22, 17, 18, 19, 20, 21, 23, 24, 25, 26.

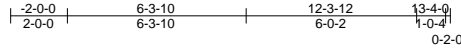


Job MASTER_RT	Truss E03	Truss Type SPECIAL	Qty 2	Ply 1	Purfoy, Master.RT 152663151
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:33:01 2022 Page 1
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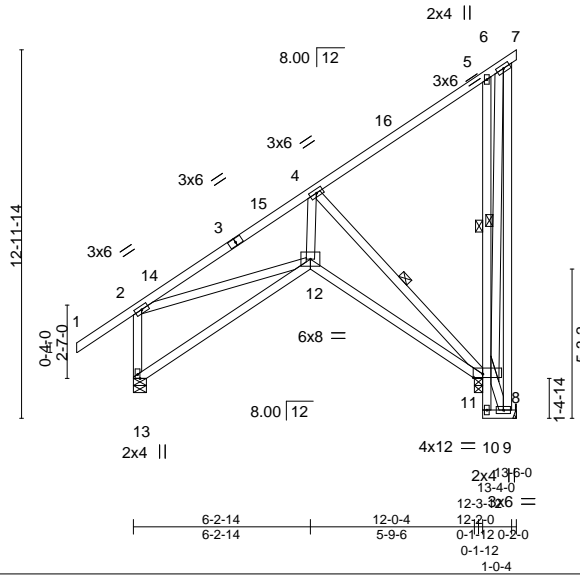


Plate Offsets (X,Y)--	[11:0-4-0,Edge]					PLATES	GRIP
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	
TCLL 20.0	Plate Grip DOL 1.15	TC 0.39	Vert(LL) -0.06	12-13	>999	360	PLATES MT20
TCDL 10.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0.13	12-13	>999	240	GRIP 244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.42	Horz(CT) 0.09	9	n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.04	12	>999	240	Weight: 136 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2 *Except* 5-10: 2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 1 Row at midpt 5-11
WEBS	2x4 SP No.3 *Except* 6-9: 2x4 SP No.2	WEBS	1 Row at midpt 4-11, 6-11

REACTIONS. (size) 13=0-5-8, 9=Mechanical, 11=0-3-8
 Max Horz 13=236(LC 12)
 Max Uplift 9=-278(LC 19), 11=-149(LC 12)
 Max Grav 13=612(LC 1), 9=35(LC 12), 11=896(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-13=-571/153, 2-4=-827/102
 BOT CHORD 12-13=-382/407, 11-12=-312/848, 5-11=-428/201
 WEBS 2-12=0/591, 4-12=-269/865, 4-11=-1009/359

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-11-14 to 1-0-2, Interior(1) 1-0-2 to 13-6-0 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
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Bearing at joint(s) 13, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=278, 11=149.



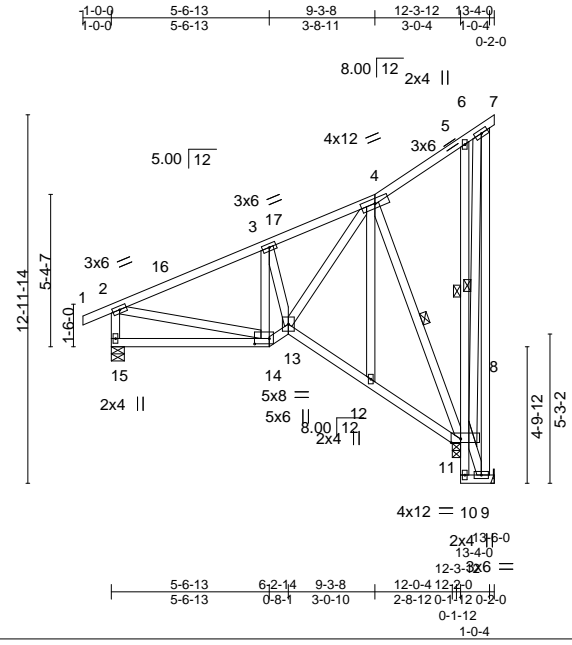
June 22, 2022

Job MASTER_RT	Truss E04	Truss Type SPECIAL	Qty 2	Ply 1	Purfoy, Master.RT I52663152
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:33:02 2022 Page 1

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Scale = 1:81.2

Plate Offsets (X,Y)--	[11:0-4-0,Edge], [14:0-6-4-0,2-4]
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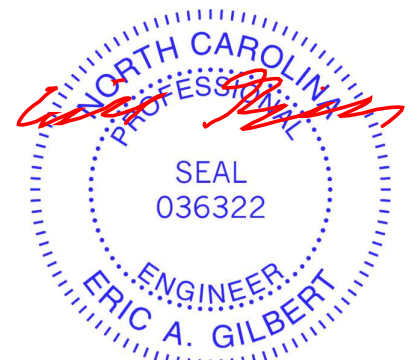
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL) -0.03	14-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(CT) -0.06	14-15	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.22	Horz(CT) 0.02	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.01	13	>999	240		
							Weight: 150 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 5-10: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 9-10.
WEBS 2x4 SP No.3 *Except* 6-9: 2x4 SP No.2	WEBS 1 Row at midpt 5-11 1 Row at midpt 4-11, 6-11

REACTIONS. (size) 15=0-5-8, 9=Mechanical, 11=0-3-8
 Max Horz 15=162(LC 12)
 Max Uplift 9=60(LC 1), 11=50(LC 12)
 Max Grav 15=557(LC 1), 9=3(LC 8), 11=639(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-15=502/41, 2-3=556/0, 3-4=534/8
 BOT CHORD 13-14=102/518
 WEBS 2-14=0/371, 3-14=287/82, 4-13=96/491, 4-11=494/58

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 13-6-0 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
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 11.



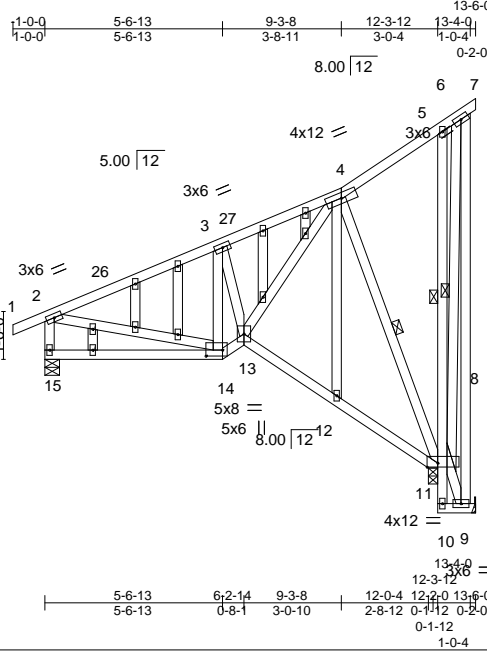
June 22, 2022

Job MASTER_RT	Truss E04SG	Truss Type GABLE	Qty 2	Ply 1	Purfoy, Master.RT Job Reference (optional)	152663153
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:33:04 2022 Page 1

ID:srh1Bnhll_muC_Z4WU9buzzeKC9-jR_3CLv5qBVHJsi450i4FQXkEsby0Kon2gErO2z45nT



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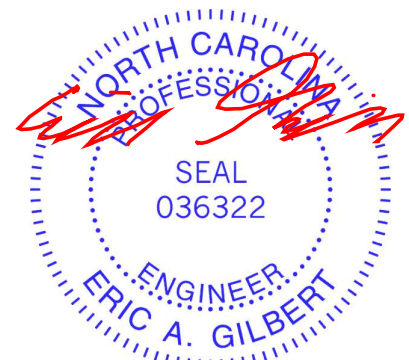
Plate Offsets (X,Y)--	[11:0-4-0,Edge], [14:0-6-4,0-2-4]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL) -0.03 14-15 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(CT) -0.06 14-15 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.22	Horz(CT) 0.02 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.01 13 >999 240		
				Weight: 161 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 5-10: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 9-10. 1 Row at midpt 5-11
WEBS 2x4 SP No.3 *Except* 6-9: 2x4 SP No.2	WEBS 1 Row at midpt 4-11, 6-11
OTHERS 2x4 SP No.3	

REACTIONS. (size) 15=0-5-8, 9=Mechanical, 11=0-3-8
 Max Horz 15=162(LC 12)
 Max Uplift 9=60(LC 1), 11=50(LC 12)
 Max Grav 15=557(LC 1), 9=3(LC 8), 11=639(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-15=-502/41, 2-3=-556/0, 3-4=-534/8
 BOT CHORD 13-14=-102/518
 WEBS 2-14=0/371, 3-14=-287/82, 4-13=-96/491, 4-11=-494/58

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 13-6-0 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
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable studs spaced at 1-4-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 11.



June 22, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

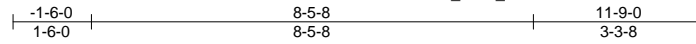
Job MASTER_RT	Truss FP01	Truss Type MONO TRUSS	Qty 3	Ply 1	Purfoy, Master.RT Job Reference (optional)	152663154
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:33:05 2022 Page 1

ID:srh1Bnhll_muC_Z4WU9buzzeKC9-BeYSQhwjbVd8x0HGejEJoe4nkGsaliiwGKzOwUz45nS



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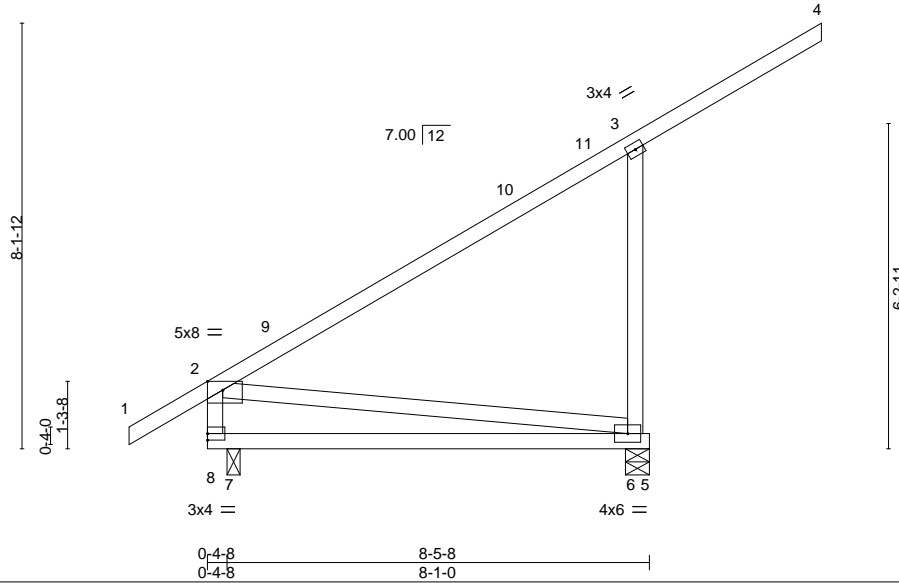


Plate Offsets (X, Y)--	[2:0-3-8, Edge]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.78	Vert(LL)	-0.10	6-7	>930	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.47	Vert(CT)	-0.19	6-7	>485		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.02	6-7	>999		
								Weight: 57 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP SS	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 9-8-7 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (size) 6=0-5-8, 7=0-3-0
 Max Horz 7=242(LC 9)
 Max Uplift 6=157(LC 9)
 Max Grav 6=573(LC 19), 7=400(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-8=-305/37, 3-6=-468/274
 BOT CHORD 7-8=-41/328, 6-7=-351/516
 WEBS 2-6=-448/305

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-5-15 to 1-6-1, Interior(1) 1-6-1 to 11-9-0 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
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=157.

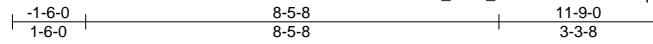


Job MASTER_RT	Truss FP01G	Truss Type GABLE	Qty 1	Ply 1	Purfoy, Master.RT I52663155
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:33:06 2022 Page 1

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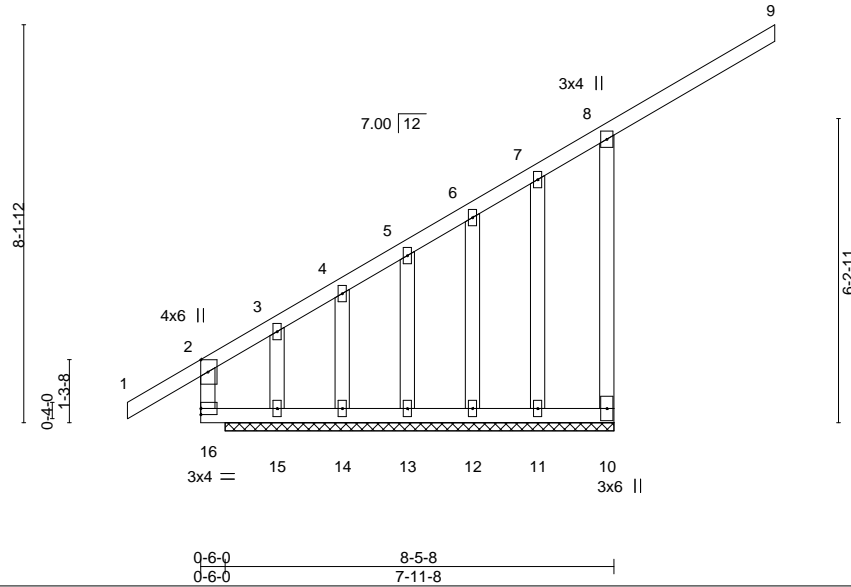


Plate Offsets (X,Y)--	[2:0-3-0,Edge]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES
TCLL 20.0	Plate Grip DOL	1.15	TC 0.54	Vert(LL)	0.07 8-9	n/r	120	GRIP
TCDL 10.0	Lumber DOL	1.15	BC 0.48	Vert(CT)	-0.00 8	n/r	120	MT20 244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.13	Horz(CT)	0.00 10	n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R					Weight: 69 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 7-11-8.
 (lb) - Max Horz 15=242(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 15, 12 except 10=250(LC 9), 14=379(LC 9), 11=127(LC 19)
 Max Grav All reactions 250 lb or less at joint(s) 13, 14, 12, 11 except 10=482(LC 19), 15=584(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-259/266, 3-4=-355/314, 8-10=-490/417
 BOT CHORD 15-16=-292/319
 WEBS 4-14=-219/277, 3-15=-278/66, 7-11=-272/179

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-5-15 to 1-6-12, Exterior(2) 1-6-12 to 11-9-0 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
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 5) Gable studs spaced at 1-4-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 12 except (jt=lb) 10=250, 14=379, 11=127.
 - 9) Non Standard bearing condition. Review required.

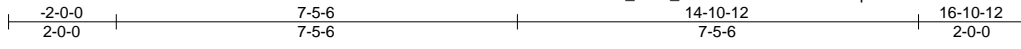


Job MASTER_RT	Truss G01	Truss Type SCISSOR	Qty 1	Ply 1	Purfoy, Master.RT	152663156
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:33:07 2022 Page 1

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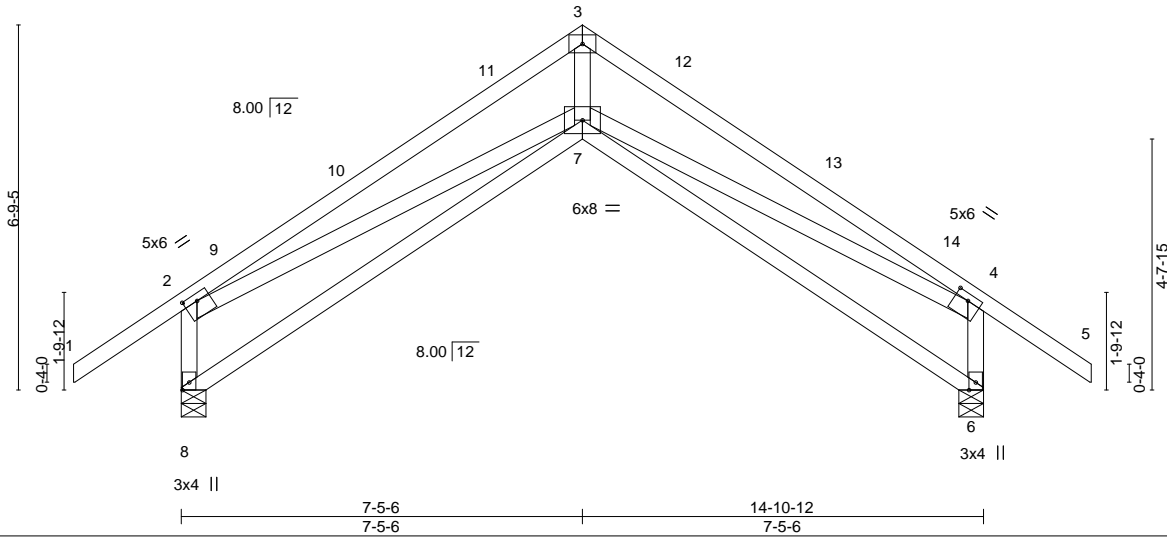


Plate Offsets (X,Y)-- [2:0-3-0,0-1-8], [4:0-3-0,0-1-8]

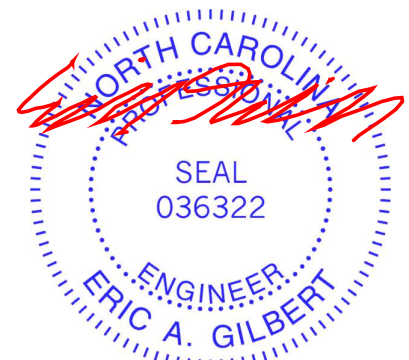
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.76	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.46	Vert(LL) -0.13 7-8 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.51	Vert(CT) -0.29 7-8 >595 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.26 6 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) -0.05 7 >999 240	Weight: 92 lb	FT = 20%

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

REACTIONS. (size) 8=0-5-8, 6=0-5-8
 Max Horz 8=175(LC 11)
 Max Uplift 8=-24(LC 12), 6=-24(LC 13)
 Max Grav 8=712(LC 1), 6=712(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-8=-733/135, 2-3=-1600/0, 3-4=-1631/0, 4-6=-720/139
 BOT CHORD 7-8=-203/349, 6-7=-71/274
 WEBS 3-7=0/1334, 4-7=0/1303, 2-7=0/1186

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-11-14 to 1-0-2, Interior(1) 1-0-2 to 7-5-6, Exterior(2) 7-5-6 to 11-8-5, Interior(1) 11-8-5 to 16-10-10 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 8, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.



June 22, 2022

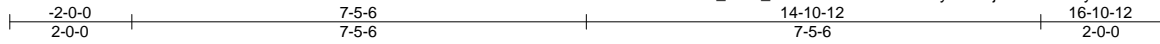
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO <small>A MiTek Affiliate</small></p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job MASTER_RT	Truss G01G	Truss Type GABLE	Qty 1	Ply 1	Purfoy, Master.RT	152663157
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

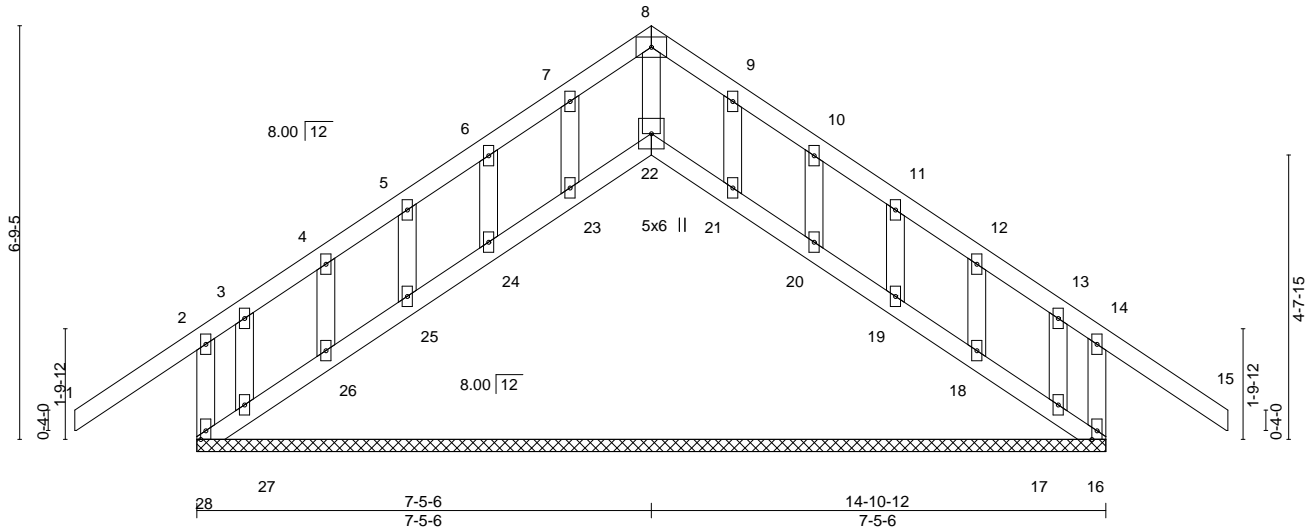
8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:33:09 2022 Page 1

ID:srh1Bnhll_muC_Z4WU9buzzeKC9-3PnyF3zDfj7aPeb2tZIFyUEZ?UchenWByxc3Fz45nO



4x6 =

Scale = 1:37.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.38	Vert(LL) -0.03	15	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT) -0.05	15	n/r		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.05	Horz(CT) -0.00	16	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R				Weight: 92 lb	FT = 20%

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

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

REACTIONS. All bearings 14-10-12.
(lb) - Max Horz 28=-175(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 22, 23, 24, 25, 26, 21, 20, 19, 18 except 28=-278(LC 8), 16=-156(LC 9), 27=-207(LC 11), 17=-185(LC 19)
Max Grav All reactions 250 lb or less at joint(s) 22, 23, 24, 25, 26, 27, 21, 20, 19, 18, 17 except 28=428(LC 20), 16=324(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-28=-306/254, 14-16=-306/249

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-11-14 to 0-9-6, Exterior(2) 0-9-6 to 7-5-6, Corner(3) 7-5-6 to 10-5-6, Exterior(2) 10-5-6 to 16-10-10 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.
 - All plates are 2x4 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 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 23, 24, 25, 26, 21, 20, 19, 18 except (jt=lb) 28=278, 16=156, 27=207, 17=185.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 22, 23, 24, 25, 26, 27, 21, 20, 19, 18, 17.



June 22, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



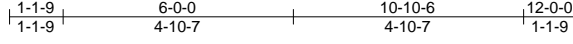
818 Soundside Road
Edenton, NC 27932

Job MASTER_RT	Truss H01GR	Truss Type POLYNESIAN	Qty 1	Ply 2	Purfoy, Master.RT Job Reference (optional)	152663158
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:33:10 2022 Page 1

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4x6 =

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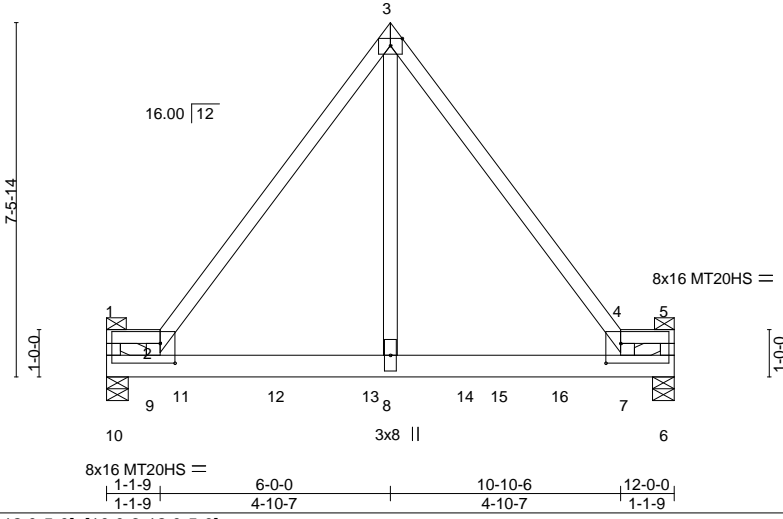


Plate Offsets (X, Y)--	[3:Edge,0-1-13], [4:0-3-12,0-5-0], [10:0-3-12,0-5-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.22	Vert(LL) -0.02	7-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.47	Vert(CT) -0.03	7-8	>999	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.21	Horz(CT) 0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) -0.00	8	>999	240		
							Weight: 139 lb	FT = 20%

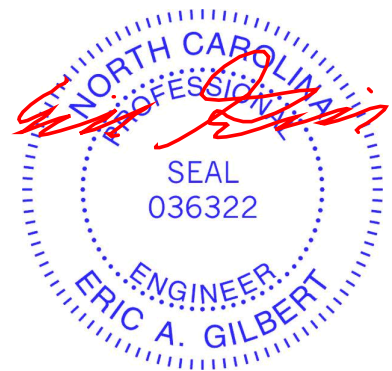
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2, 4-5.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. All bearings 0-5-8.
 (lb) - Max Horz 10=-155(LC 4)
 Max Uplift All uplift 100 lb or less at joint(s) except 10=-628(LC 19), 6=-120(LC 7)
 Max Grav All reactions 250 lb or less at joint(s) 10, 6 except 9=2829(LC 1), 7=2515(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-10=-401/11, 1-2=-493/0, 2-3=-1351/0, 3-4=-1351/0, 4-5=-493/0, 5-6=-400/13
 BOT CHORD 8-9=0/749, 7-8=0/749
 WEBS 1-9=0/643, 2-9=-1263/0, 3-8=0/1675, 4-7=-1263/0, 5-7=0/639

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 628 lb uplift at joint 10 and 120 lb uplift at joint 6.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 645 lb down at 1-6-12, 645 lb down at 3-6-12, 645 lb down at 5-6-12, 645 lb down at 7-6-12, and 645 lb down at 9-6-12, and 652 lb down at 11-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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



June 22, 2022

Continued on page 2

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job MASTER_RT	Truss H01GR	Truss Type POLYNESIAN	Qty 1	Ply 2	Purfoy, Master.RT I52663158 Job Reference (optional)
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:33:10 2022 Page 2
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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 3-4=-60, 4-5=-60, 6-10=-20

Concentrated Loads (lb)

Vert: 6=-652(B) 11=-645(B) 12=-645(B) 13=-645(B) 14=-645(B) 16=-645(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

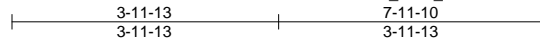
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Edenton, NC 27932

Job MASTER_RT	Truss PB01	Truss Type GABLE	Qty 1	Ply 1	Purfoy, Master.RT Job Reference (optional)	I52663159
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:33:12 2022 Page 1
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4x6 =

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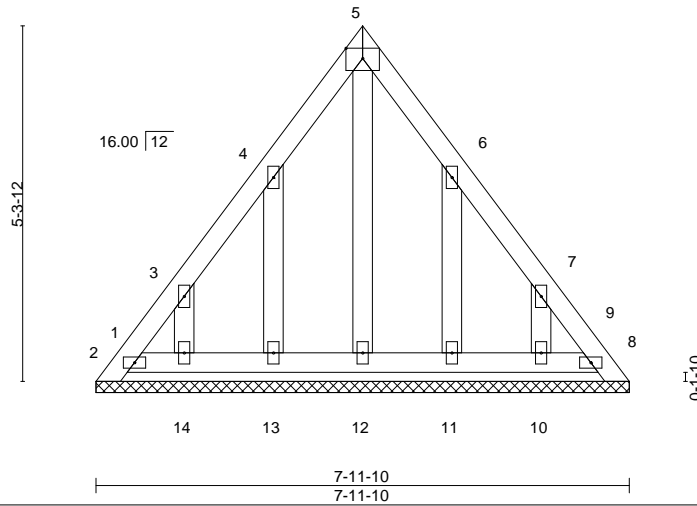


Plate Offsets (X,Y)--	[5:Edge,0-1-13]				
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.04	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.00 8 n/a n/a		
	Code IRC2015/TPI2014			Weight: 48 lb	FT = 20%

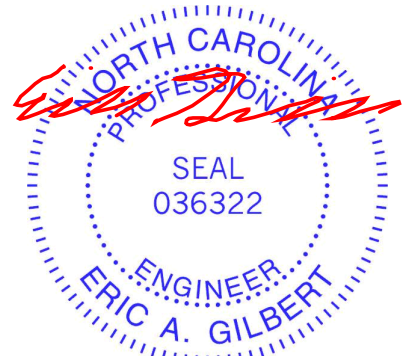
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

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 7-11-10.
 (lb) - Max Horz 1=-108(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 9, 2, 8, 13, 14, 11, 10 except 1=-102(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) 1, 9, 2, 8, 12, 13, 14, 11, 10

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-2-3 to 3-2-3, Exterior(2) 3-2-3 to 3-11-13, Corner(3) 3-11-13 to 6-11-13, Exterior(2) 6-11-13 to 7-9-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 1, 9, 2, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 2, 8, 13, 14, 11, 10 except (jt=lb) 1=102.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



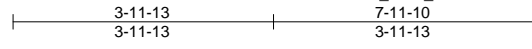
June 22, 2022

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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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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Job MASTER_RT	Truss PB02	Truss Type GABLE	Qty 10	Ply 1	Purfoy, Master.RT Job Reference (optional)	152663160
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:33:13 2022 Page 1
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4x6 =

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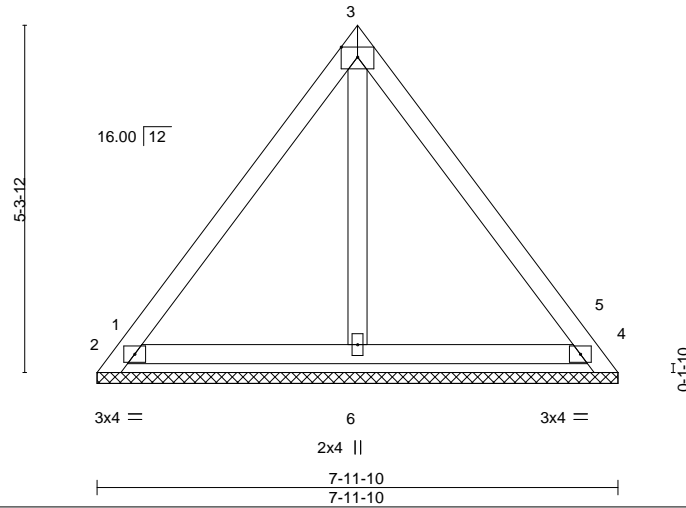


Plate Offsets (X,Y)--		[3:Edge,0-1-13]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.05	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 37 lb	FT = 20%

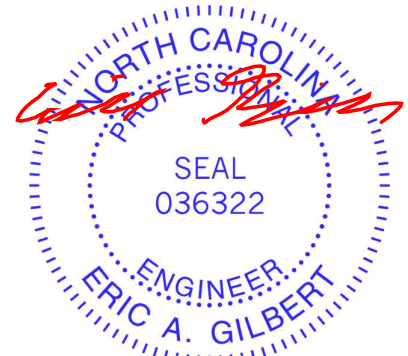
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

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 7-11-10.
 (lb) - Max Horz 1=108(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) except 1=-418(LC 19), 5=-339(LC 20), 2=-367(LC 12), 4=-310(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 6 except 1=352(LC 12), 5=287(LC 13), 2=600(LC 19), 4=532(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-295/367, 4-5=-237/294

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-2-3 to 3-2-3, Exterior(2) 3-2-3 to 3-11-13, Corner(3) 3-11-13 to 6-11-13, Exterior(2) 6-11-13 to 7-9-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 1, 5, 2, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 418 lb uplift at joint 1, 339 lb uplift at joint 5, 367 lb uplift at joint 2 and 310 lb uplift at joint 4.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



June 22, 2022

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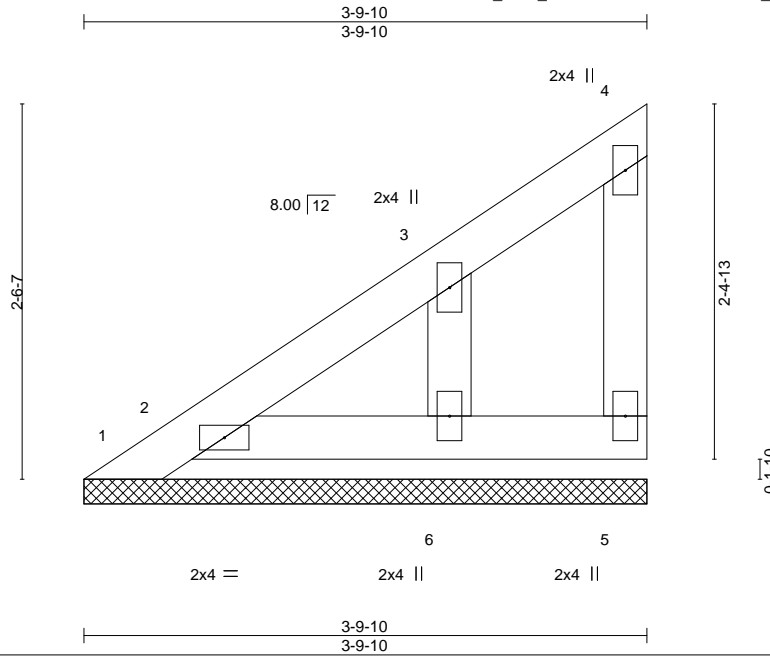
Job MASTER_RT	Truss PB03	Truss Type GABLE	Qty 1	Ply 1	Purfoy, Master.RT Job Reference (optional)	152663161
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:33:15 2022 Page 1

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Scale = 1:15.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 15 lb	FT = 20%

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

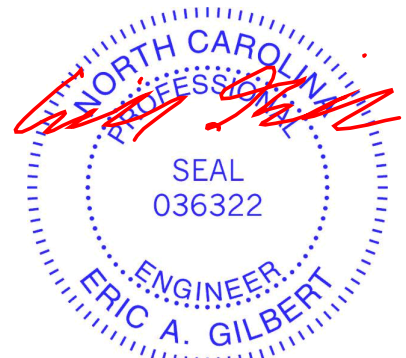
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-9-10 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 3-9-10.
 (lb) - Max Horz 1=64(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 6
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 6

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-3-2 to 3-3-2, Exterior(2) 3-3-2 to 3-7-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 1, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 6.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



June 22, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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Job MASTER_RT	Truss RP01	Truss Type MONO TRUSS	Qty 12	Ply 1	Purfoy, Master.RT Job Reference (optional)	152663162
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Builders FirstSource (Apex, NC),

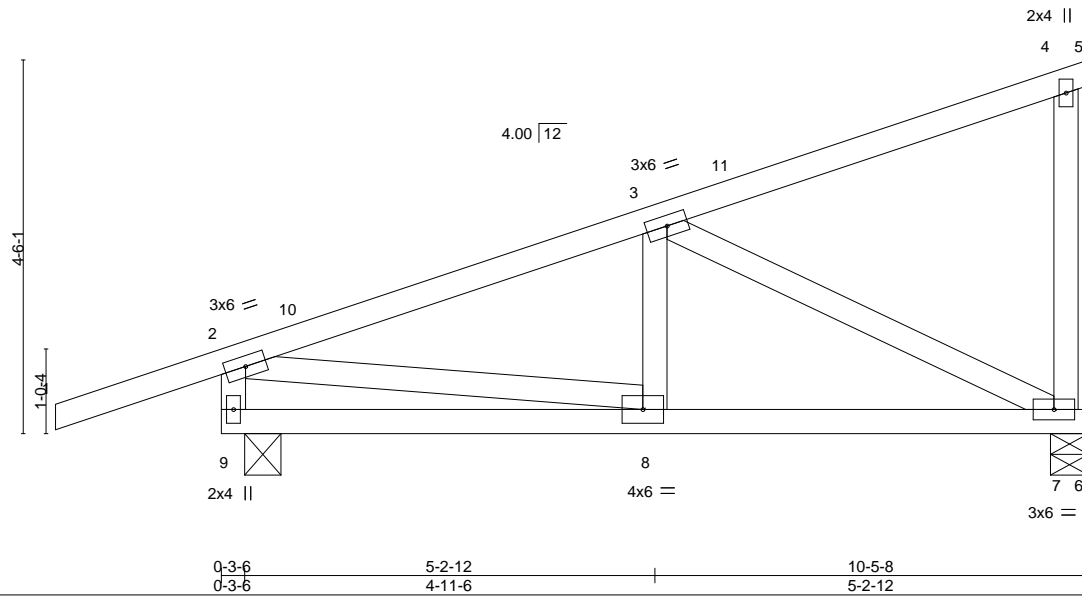
Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:33:16 2022 Page 1

ID:srh1Bnhll_muC_Z4WU9buzzeKC9-MlicjS2c0t?ajldOoXwuky1m9igIqknYoY8UpLz45nH



Scale = 1:27.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	-0.02	8-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.27	Vert(CT)	-0.03	8-9	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.29	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.01	8	>999		
								Weight: 60 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, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 9=0-5-4, 7=0-5-8
 Max Horz 9=148(LC 11)
 Max Uplift 9=90(LC 8), 7=41(LC 8)
 Max Grav 9=544(LC 1), 7=399(LC 1)

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

TOP CHORD 2-9=-496/148, 2-3=-524/24
 BOT CHORD 7-8=-114/451
 WEBS 2-8=-34/418, 3-7=-482/81

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 10-5-8 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 7.



June 22, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



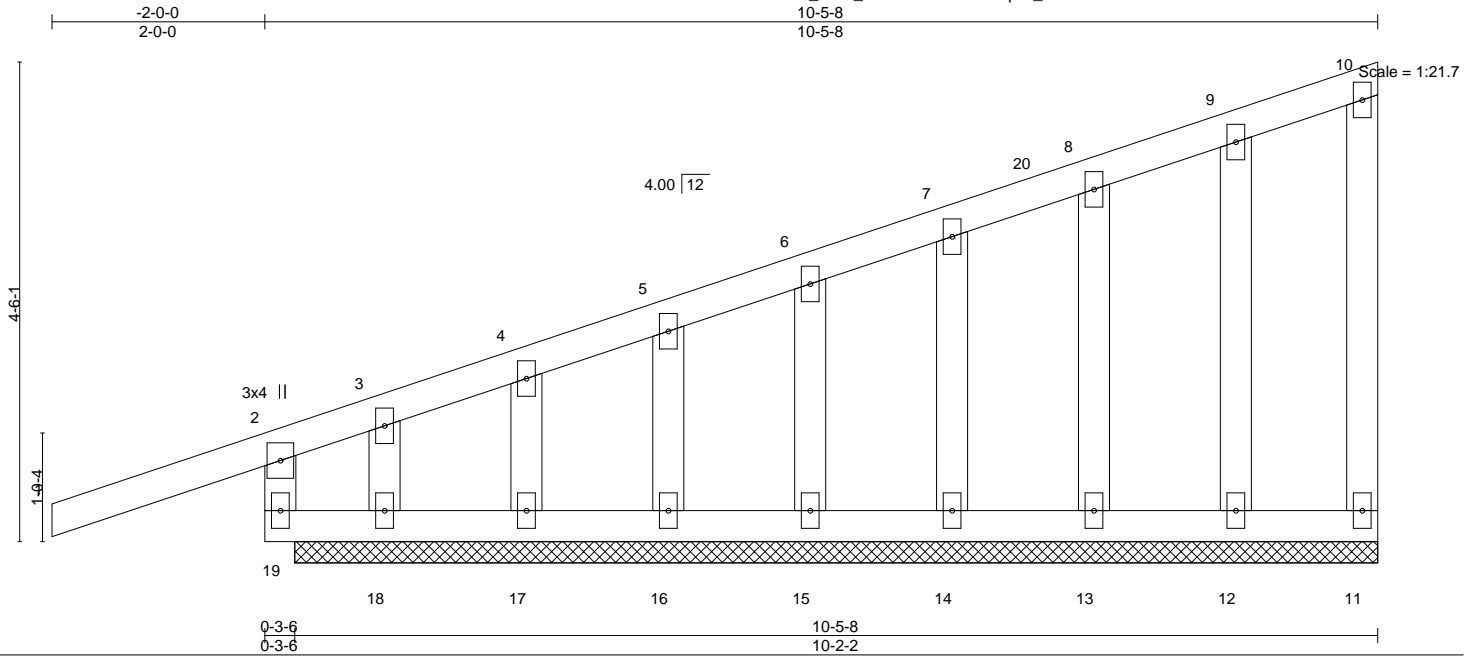
818 Soundside Road
 Edenton, NC 27932

Job MASTER_RT	Truss RP01G	Truss Type GABLE	Qty 2	Ply 1	Purfoy, Master.RT Job Reference (optional)	152663163
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:33:17 2022 Page 1

ID:srh1Bnhll_muC_Z4WU9buzzeKC9-qxG_xo3EnB7RNsCaLER7HAax963tZFz1Ct1Loz45nG



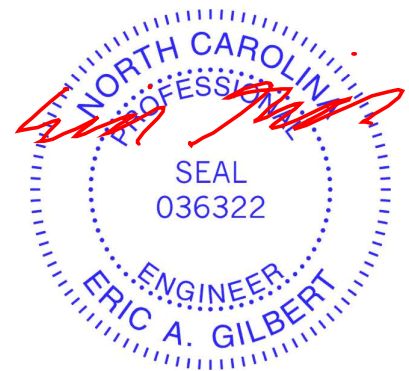
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.37	Vert(LL)	0.01	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	-0.01	1	n/r		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.03	Horz(CT)	0.00	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R					Weight: 64 lb	FT = 20%

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

REACTIONS. All bearings 10-2-2.
 (lb) - Max Horz 19=148(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 19, 11, 12, 13, 14, 15, 16, 17 except 18=119(LC 20)
 Max Grav All reactions 250 lb or less at joint(s) 11, 12, 13, 14, 15, 16, 17, 18 except 19=324(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-19=290/240

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -2-0-0 to 1-1-8, Exterior(2) 1-1-8 to 10-3-12 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
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 5) Gable studs spaced at 1-4-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 11, 12, 13, 14, 15, 16, 17 except (jt=lb) 18=119.
 - 9) Non Standard bearing condition. Review required.



June 22, 2022

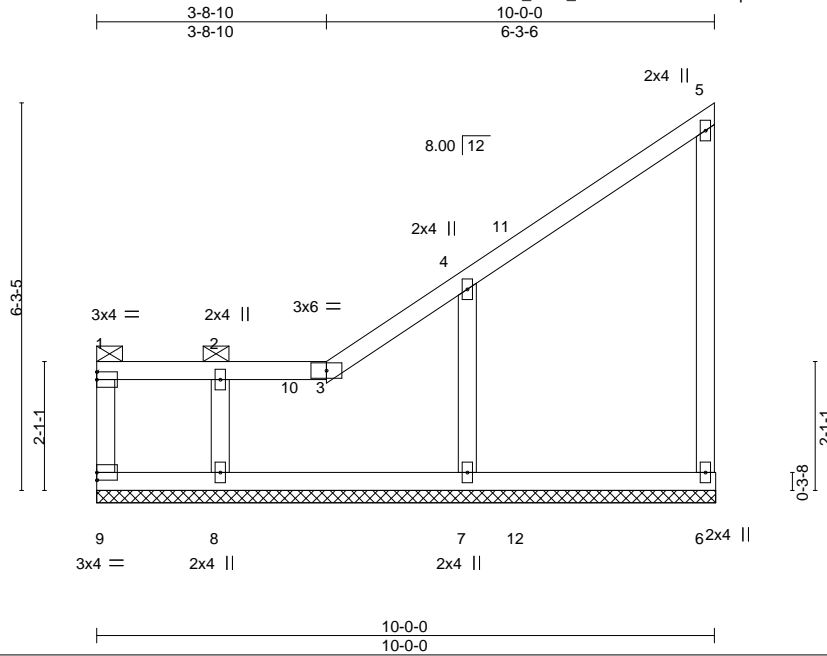
Job MASTER_RT	Truss V01	Truss Type GABLE	Qty 1	Ply 1	Purfoy, Master.RT	152663164
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:33:18 2022 Page 1

ID:srh1Bnhll_muC_Z4WU9buzzeKC9-J8qM874tXUGI_0nmvyzMpN646WIPiHdrGsdAtEz45nF



Scale = 1:37.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.49	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	-0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						Weight: 49 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins, except end verticals, and 2'-0-0 oc purlins (6'-0-0 max.): 1-3.
 BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.

REACTIONS. All bearings 10-0-4.
 (lb) - Max Horz 9=174(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 9, 6, 7, 8
 Max Grav All reactions 250 lb or less at joint(s) 9, 6 except 7=377(LC 19), 8=269(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 4-7=-266/102

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 6, 7, 8.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 22, 2022

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818 Soundside Road
 Edenton, NC 27932

Job MASTER_RT	Truss V02	Truss Type VALLEY	Qty 1	Ply 1	Purfoy, Master.RT Job Reference (optional)	152663165
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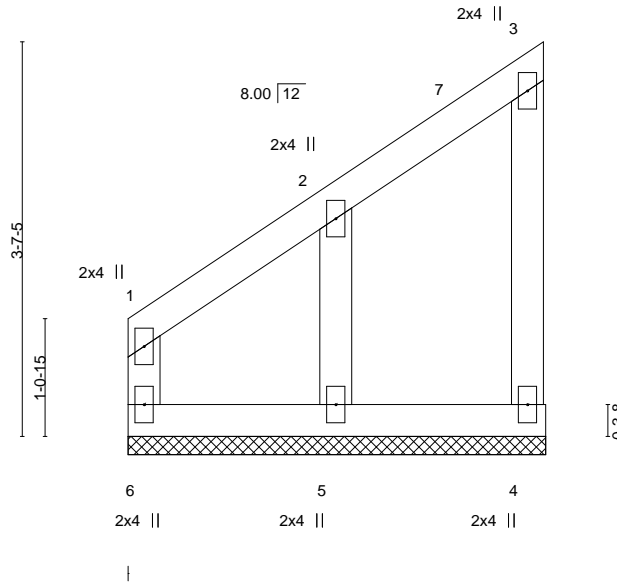
Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:33:19 2022 Page 1

ID:srh1Bnhll_muC_Z4WU9buzzeKC9-nKOkMT4VloO9cAMzTFUbMbfK4vjm19S_UWM8Qgz45nE
3-9-9
3-9-9

Scale = 1:21.1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-R					Weight: 21 lb	FT = 20%

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

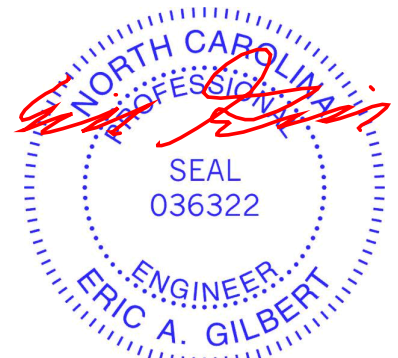
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=3-9-13, 4=3-9-13, 5=3-9-13
Max Horz 6=95(LC 9)
Max Uplift 6=-21(LC 8), 4=-11(LC 9), 5=-69(LC 12)
Max Grav 6=93(LC 20), 4=62(LC 19), 5=193(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 3-7-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4, 5.



June 22, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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ENGINEERING BY
TRENCO
A MiTek Affiliate

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Edenton, NC 27932

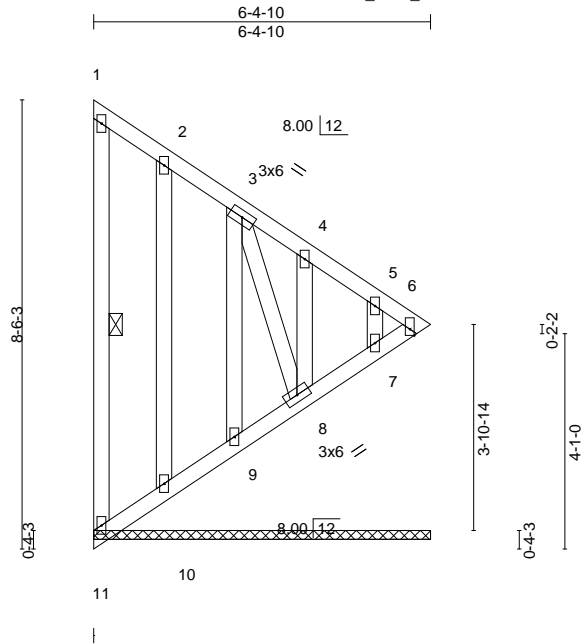
Job MASTER_RT	Truss V03	Truss Type GABLE	Qty 1	Ply 1	Purfoy, Master.RT Job Reference (optional)	152663166
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:33:20 2022 Page 1

ID:srh1Bnhll_muC_Z4WU9buzzeKC9-FWY7Zp5736W0EKx91N?qvoCmVJ5hmbD8JA6hy7z45nD



Scale = 1:43.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.72	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.07	Horz(CT)	-0.00	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 60 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2 *Except*
 3-8: 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 1-11

REACTIONS.

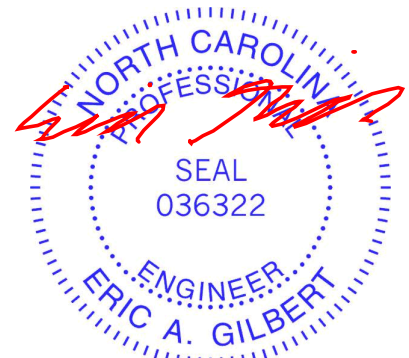
All bearings 6-4-10.
 (lb) - Max Horz 11=-205(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 6, 10, 9, 8, 7 except 11=-121(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) 11, 6, 10, 9, 8, 7

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 BOT CHORD 10-11=-270/260, 9-10=-274/260, 8-9=-274/260, 7-8=-253/236, 6-7=-251/233

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 6-1-8 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
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 1-4-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 10, 9, 8, 7 except (jt=lb) 11=121.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 11, 6, 10, 9, 8, 7.
- 11) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



June 22, 2022

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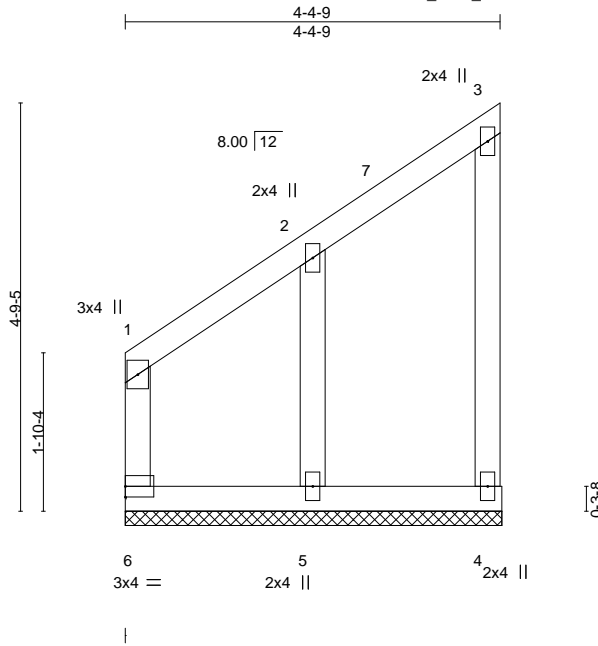
Job MASTER_RT	Truss V04	Truss Type VALLEY	Qty 1	Ply 1	Purfoy, Master.RT Job Reference (optional)	152663167
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:33:21 2022 Page 1

ID:srh1Bnhll_muC_Z4WU9buzzeKC9-jjWVn96lqPetrUVLa4W3R0kdFjMqV3jHyqrFUZz45nC



Scale = 1:26.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.36	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.38	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R					Weight: 27 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-9 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

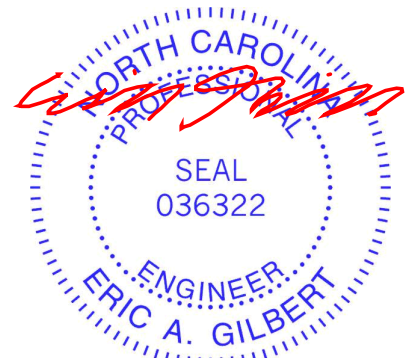
REACTIONS.

(size) 6=4-4-13, 4=4-4-13, 5=4-4-13
 Max Horz 6=129(LC 11)
 Max Uplift 6=-48(LC 8), 4=-17(LC 9), 5=-87(LC 12)
 Max Grav 6=132(LC 20), 4=74(LC 19), 5=242(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-2-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4, 5.



June 22, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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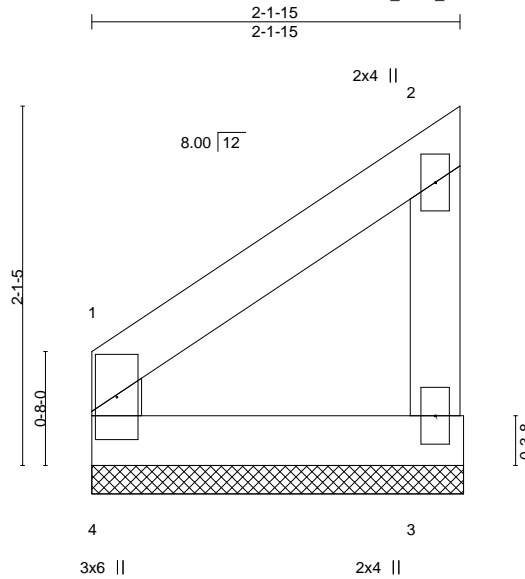
Job MASTER_RT	Truss V05	Truss Type VALLEY	Qty 1	Ply 1	Purfoy, Master.RT Job Reference (optional)	152663168
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:33:21 2022 Page 1

ID:srh1Bnhll_muC_Z4WU9buzzeKC9-jiWVn96iqPetrUVLa4W3R0khojRtV3UHyrFUZz45nC



Scale = 1:13.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R					Weight: 10 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-1-15 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

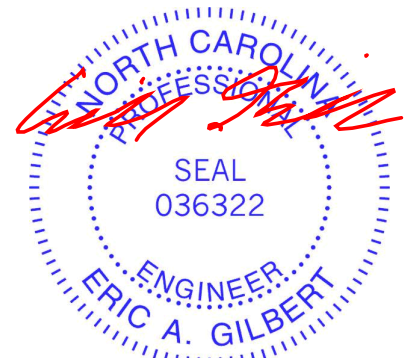
REACTIONS.

(size) 4=2-2-3, 3=2-2-3
 Max Horz 4=50(LC 11)
 Max Uplift 3=17(LC 9)
 Max Grav 4=77(LC 20), 3=84(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.



June 22, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job MASTER_RT	Truss V06	Truss Type VALLEY	Qty 1	Ply 1	Purfoy, Master.RT Job Reference (optional)	152663169
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:33:22 2022 Page 1

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4x6 =

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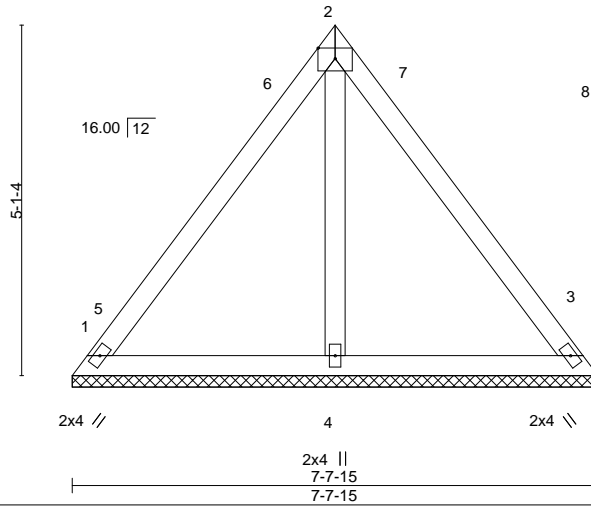


Plate Offsets (X,Y)--	[2:Edge,0-1-13]				
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.31	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.22	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 36 lb	FT = 20%

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

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

REACTIONS. (size) 1=7-7-15, 3=7-7-15, 4=7-7-15
Max Horz 1=101(LC 11)
Max Uplift 1=-23(LC 13), 3=-15(LC 12)
Max Grav 1=170(LC 1), 3=170(LC 1), 4=227(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 3-9-15, Exterior(2) 3-9-15 to 6-9-15, Interior(1) 6-9-15 to 7-4-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



June 22, 2022

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818 Soundside Road
Edenton, NC 27932

Job MASTER_RT	Truss V07	Truss Type VALLEY	Qty 1	Ply 1	Purfoy, Master.RT Job Reference (optional)	152663170
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:33:23 2022 Page 1

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4x6 =

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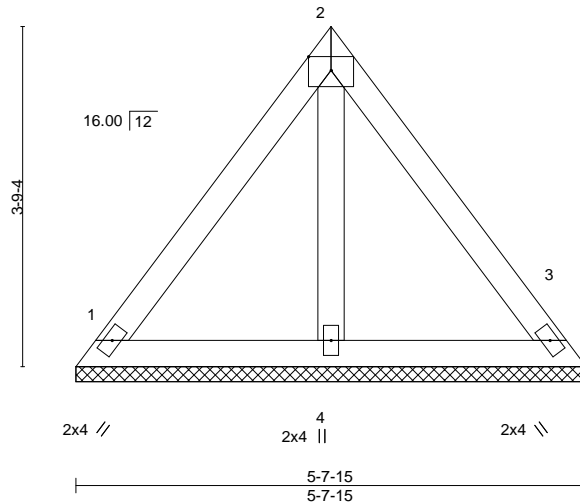


Plate Offsets (X,Y)--		[2:Edge,0-1-13]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P						Weight: 26 lb	FT = 20%

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

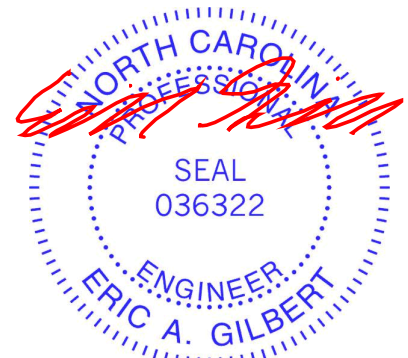
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-7-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-7-15, 3=5-7-15, 4=5-7-15
 Max Horz 1=-72(LC 8)
 Max Uplift 1=-26(LC 13), 3=-20(LC 12)
 Max Grav 1=130(LC 1), 3=130(LC 1), 4=154(LC 3)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



June 22, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



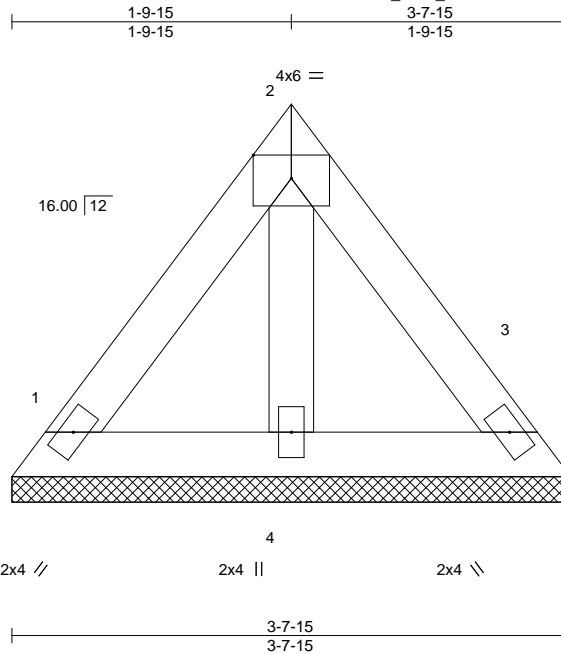
818 Soundside Road
 Edenton, NC 27932

Job MASTER_RT	Truss V08	Truss Type VALLEY	Qty 1	Ply 1	Purfoy, Master.RT Job Reference (optional)	152663171
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 21 09:33:24 2022 Page 1
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Scale = 1:15.1

Plate Offsets (X,Y)--		[2:Edge,0-1-13]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P					Weight: 16 lb	FT = 20%

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

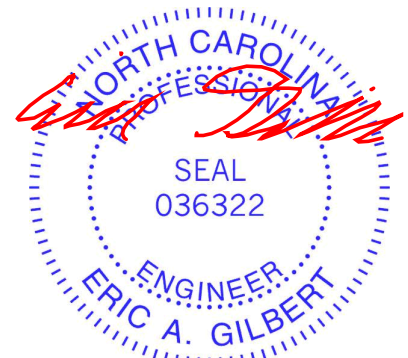
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-7-15, 3=3-7-15, 4=3-7-15
Max Horz 1=44(LC 9)
Max Uplift 1=-16(LC 13), 3=-12(LC 12)
Max Grav 1=79(LC 1), 3=79(LC 1), 4=94(LC 3)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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818 Soundside Road
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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/TFP 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, 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/TFP 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. 5/19/2020



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/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 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. Rewriting pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TFP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.