

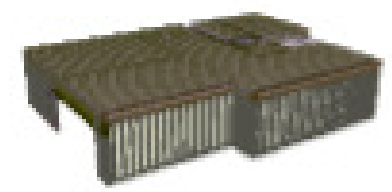
General Notes:
 - Per ANSI/TPI 1-2002 all " Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.
 - Dimensions are Feet-Inches- Sixteenths.

- Trusses are to be 24" o.c. unless noted otherwise (U.N.O.)
 - Trusses are not designed to support brick U.N.O.
 - Do not cut or modify trusses without first contacting Builders FirstSource.
 - Immediately contact Builders FirstSource if trusses are damaged.

Connection Notes:
 - All hangers are to be Simpson or equivalent U.N.O.
 - Use Manufacturer's specifications for all hanger connections U.N.O.
 - Use 10d x 1 1/2" Nails in hanger connections to single ply roof girder trusses.

Floor Notes:
 - Shift truss as required to avoid plumbing traps.
 - Installation Contractor and/or Field Supervisor are to verify all dimensions, trap locations, and options prior to installation

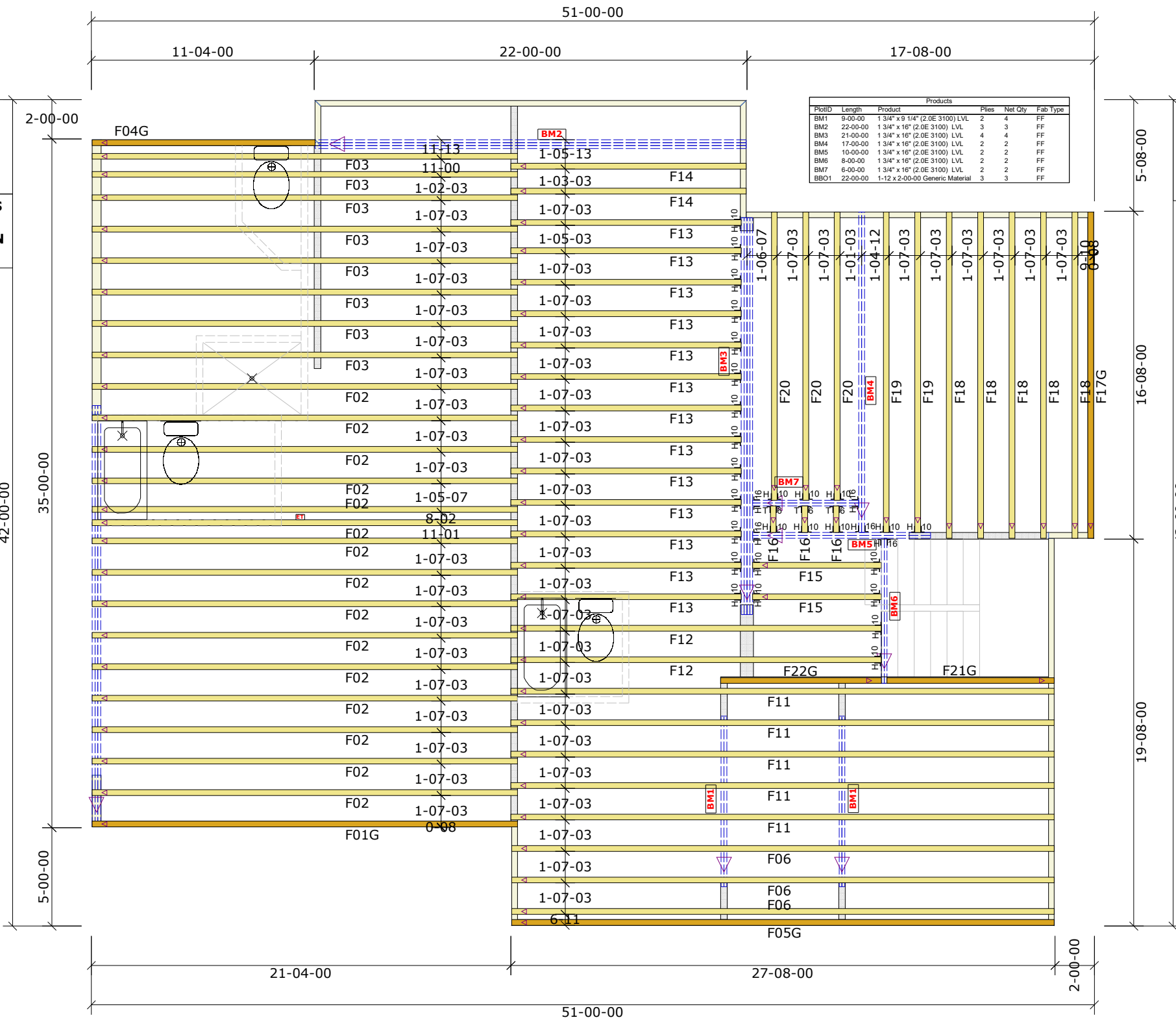
Dimension Notes:
 - Drawing not to scale. Do not scale dimensions



NOTE: LEFT END OF TRUSS AS SHOWN ON TRUSS DETAIL DRAWINGS ARE INDICATED ON LAYOUT BY TRIANGLE ICONS

ALL EXTERIOR DIMENSIONS ARE TO OUTSIDE OF SHEATHING. WALLS HELD IN 1/2" FOR SHEATHING

TRUSSES SPACED AT 19.2" o.c. UNLESS NOTED OTHERWISE. FOLLOW DIMENSION STRING FOR ODD DIMENSIONS.



Product	Length	Product	Pieces	Net Qty	Fab Type
BM1	9-00-00	1 3/4" x 9 1/4" (2.0E 3100) LVL	2	4	FF
BM2	22-00-00	1 3/4" x 16" (2.0E 3100) LVL	3	3	FF
BM3	21-00-00	1 3/4" x 16" (2.0E 3100) LVL	4	4	FF
BM4	17-00-00	1 3/4" x 16" (2.0E 3100) LVL	2	2	FF
BM5	10-00-00	1 3/4" x 16" (2.0E 3100) LVL	2	2	FF
BM6	8-00-00	1 3/4" x 16" (2.0E 3100) LVL	2	2	FF
BM7	6-00-00	1 3/4" x 16" (2.0E 3100) LVL	2	2	FF
BBO1	22-00-00	1-12 x 2-00-00 Generic Material	3	3	FF

Hanger List		All Tie Downs H2.5T Unless noted
0	THA422	J L
27	HHUS410	H 10
5	HU416	HJ 112
3	THA426	T 8

Special Items List

Misc Material

Herring Homes			
Hawthorne II	Elev:	A	
Griffin Pointe			
Wake County	NC	Lot:	16
Lot 16/Side Load/Garage Left		Appwright #	
		Permit (3258323)	
		Code: IRC 2009	
		Loading:	
		T.C.D.L.	40.0 lb/ft2
		T.C.D.L.	10.0 lb/ft2
		T.C.D.L.	0.0 lb/ft2
		T.C.D.L.	5.0 lb/ft2
Designed By:	CFC	T.C.D.L.	10.0 lb/ft2
Layout:	A.SLF-L	B.C.D.L.	0.0 lb/ft2
L/O Date:	08/12/2012	B.C.D.L.	5.0 lb/ft2

Revision History		Wind:	
Rev1:	xx/xx/xx	M.P.H.	115
Rev2:	xx/xx/xx	Exposure Category	
Rev3:	xx/xx/xx	B (Wooded areas/other)	
Pick Ticket:	---	Job No.:	---
Sales No.:	---	Acct No.:	---

Hatch Legend	
	Attic Room
	Volume Ceiling
	Stick Framing

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: GP16-F
Herring-HaawthorneIIA;Lot16 GriffinPoiinte

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: I53630415 thru I53630430

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

North Carolina COA: C-0844



August 12,2022

Johnson, Andrew

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

Job	Truss	Truss Type	Qty	Ply	Herring-HaawthornellA;Lot16 GriffinPoainte	153630415
GP16-F	F01G	GABLE	1	1	Job Reference (optional)	

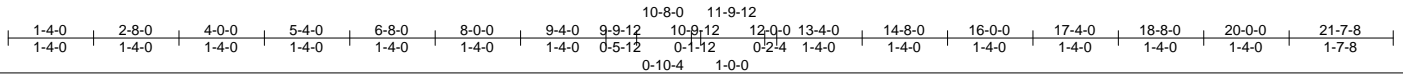
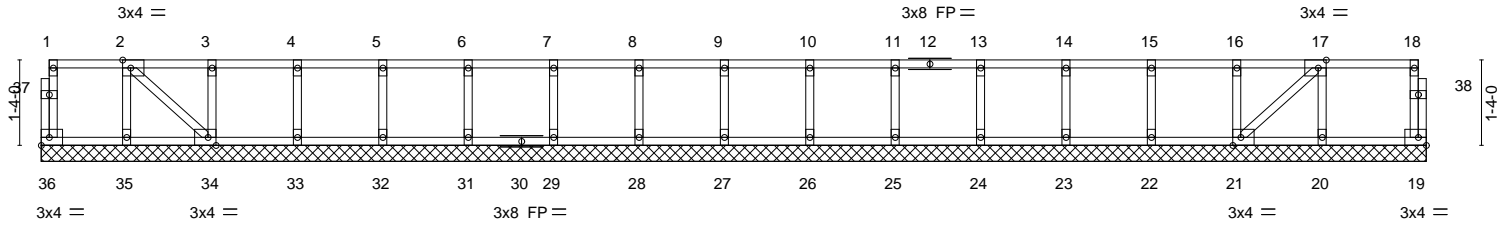
Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 06:45:29 2022 Page 1
ID:fiBMMmjQRE9YSpott_wRX_zcieS-_QGR2cvfmg6u6v?t10aMtUBABzGcudCxKz7I3zyogGa

0-1-8

0-1-8

Scale = 1:36.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	1-7-3	TC 0.09	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.01	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber DOL 1.00	WB 0.03	Vert(CT) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.00 21 n/a n/a		
	Code IRC2015/TPI2014			Weight: 99 lb	FT = 20%F, 11%E

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

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, Except: 10-0-0 oc bracing: 35-36,34-35,20-21,19-20.

REACTIONS. All bearings 21-7-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 36, 19, 35, 34, 33, 32, 31, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



August 12, 2022

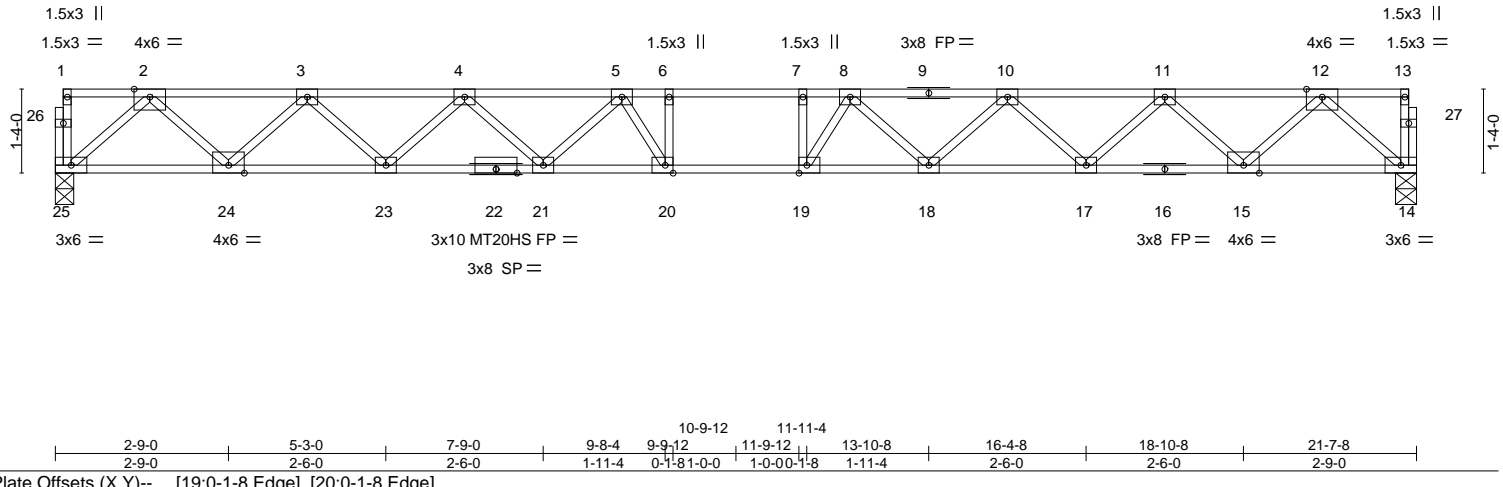
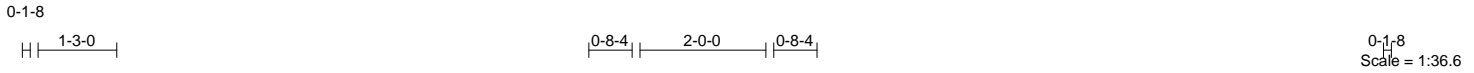
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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	Truss	Truss Type	Qty	Ply	Herring-HaawthornellA;Lot16 GriffinPoainte	153630416
GP16-F	F02	FLOOR	1	1	Job Reference (optional)	

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

8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 06:45:30 2022 Page 1
ID:fiBMMmjQRE9YSpott_wRX_zcieS-ScqpFywHX_Elk3a3ak5bQikBXNnsdz85YdtJbPyogGZ



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 40.0	1-7-3	TC 0.75	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.97	Vert(LL) -0.39 19-20 >660 480	MT20HS	187/143
BCLL 0.0	Lumber DOL 1.00	WB 0.50	Vert(CT) -0.54 19-20 >479 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.09 14 n/a n/a		
	Code IRC2015/TP12014			Weight: 111 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
16-22: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 21-23.

REACTIONS. (size) 25=0-3-8, 14=0-4-0
Max Grav 25=935(LC 1), 14=935(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1768/0, 3-4=-3007/0, 4-5=-3783/0, 5-6=-4121/0, 6-7=-4121/0, 7-8=-4121/0,
8-10=-3783/0, 10-11=-3007/0, 11-12=-1768/0
BOT CHORD 24-25=0/1020, 23-24=0/2493, 21-23=0/3501, 20-21=0/4046, 19-20=0/4121, 18-19=0/4046,
17-18=0/3501, 15-17=0/2493, 14-15=0/1020
WEBS 6-20=-323/103, 7-19=-324/102, 2-25=-1356/0, 2-24=0/1040, 3-24=-1008/0, 3-23=0/715,
4-23=-687/0, 4-21=0/395, 5-21=-433/0, 5-20=-214/511, 12-14=-1356/0, 12-15=0/1041,
11-15=-1008/0, 11-17=0/715, 10-17=-688/0, 10-18=0/395, 8-18=-433/0, 8-19=-214/512

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x4 MT20 unless otherwise indicated.
 - 4) The Fabrication Tolerance at joint 22 = 11%
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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Job	Truss	Truss Type	Qty	Ply	Herring-HaawthornellA;Lot16 GriffinPoainte	153630417
GP16-F	F03	FLOOR	1	1		

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

8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 06:45:32 2022 Page 1
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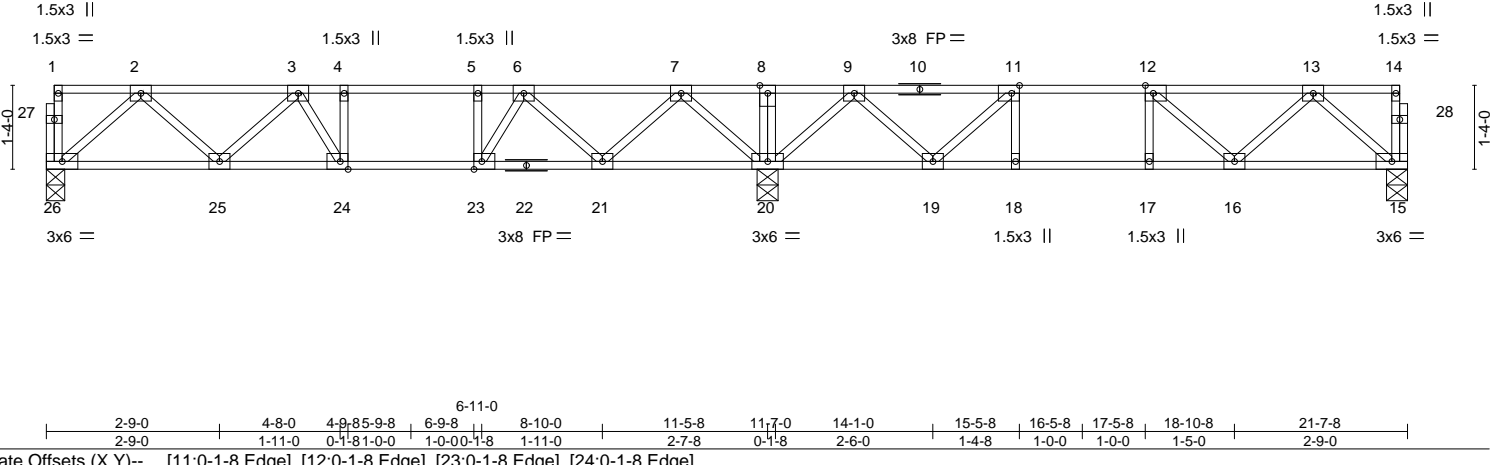


Plate Offsets (X, Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [23:0-1-8,Edge], [24:0-1-8,Edge]									
LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.42	Vert(LL)	-0.05	24-25	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.52	Vert(CT)	-0.07	24-25	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.23	Horz(CT)	0.02	15	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 113 lb	FT = 20%F, 11%E

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

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, Except: 6-0-0 oc bracing: 20-21,19-20.

REACTIONS. (size) 26=0-3-8, 20=0-4-0, 15=0-4-0
 Max Grav 26=471(LC 10), 20=1039(LC 1), 15=408(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-762/0, 3-4=-1037/0, 4-5=-1037/0, 5-6=-1037/0, 6-7=-641/0, 7-8=0/559, 8-9=0/559, 9-11=-506/38, 11-12=-785/0, 12-13=-621/0
 BOT CHORD 25-26=0/496, 24-25=0/999, 23-24=0/1037, 21-23=0/937, 20-21=-78/336, 18-19=0/785, 17-18=0/785, 16-17=0/785, 15-16=0/431
 WEBS 5-23=-253/0, 2-26=-659/0, 2-25=0/369, 3-25=-330/0, 7-20=-771/0, 7-21=0/475, 6-21=-479/0, 6-23=0/378, 11-19=-459/0, 9-19=0/413, 9-20=-669/0, 13-15=-573/0, 13-16=0/264

NOTES-
 1) Unbalanced floor live loads have been considered for this design.
 2) All plates are 3x4 MT20 unless otherwise indicated.
 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 4) CAUTION, Do not erect truss backwards.



Job	Truss	Truss Type	Qty	Ply	Herring-HaawthornellA;Lot16 GriffinPoainte	153630418
GP16-F	F04G	FLOOR	1	1	Job Reference (optional)	

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

8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 06:45:33 2022 Page 1
 ID:fiBMMmjQRE9YSpoTT_wRX_zcieS-tBWxtzyApvdJbWJeGsel2KMrMbdaqRDXEb5zCkyogGW

0,1-8

0,1-8

Scale = 1:18.6

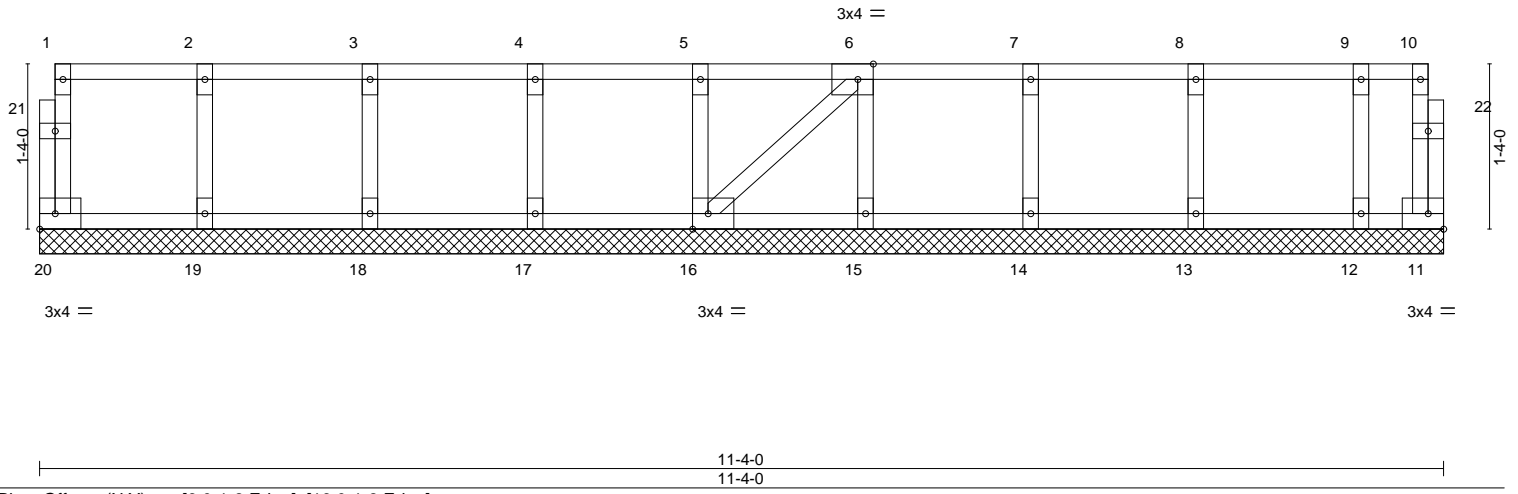


Plate Offsets (X, Y)--	[6:0-1-8,Edge], [16:0-1-8,Edge]				
LOADING (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.07	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr NO	WB 0.03	Horz(CT) 0.00 11 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 55 lb	FT = 20%F, 11%E

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

REACTIONS. All bearings 11-4-0.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



August 12, 2022

Job	Truss	Truss Type	Qty	Ply	Herring-HaawthornellA;Lot16 GriffinPoainte	153630419
GP16-F	F05G	FLOOR	1	1	Job Reference (optional)	

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

8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 06:45:34 2022 Page 1
ID:fiBMMmjQRE9YSpott_wRX_zcieS-LN3K5JzoaDIACguqa9XaYv06_zpZuThTFrWkByogGV

0-1-8

0-1-8

Scale = 1:46.0

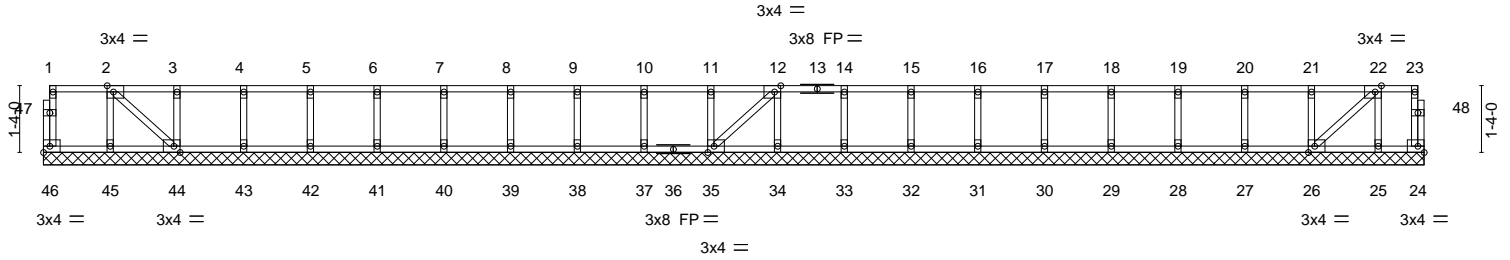


Plate Offsets (X,Y)--	[2:0-1-8,Edge], [12:0-1-8,Edge], [22:0-1-8,Edge], [26:0-1-8,Edge], [35:0-1-8,Edge], [44:0-1-8,Edge]
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LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.07	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	NO	WB 0.03	Horz(CT)	-0.00	26	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 127 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 45-46,44-45,25-26,24-25.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. All bearings 27-7-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 46, 24, 45, 44, 43, 42, 41, 40, 39, 38, 37, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



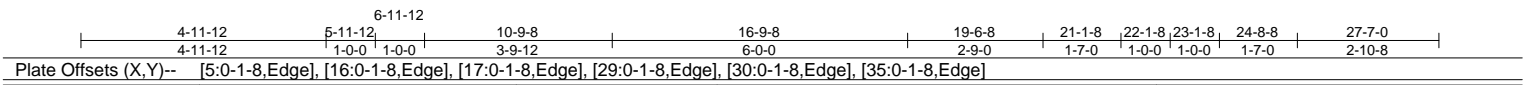
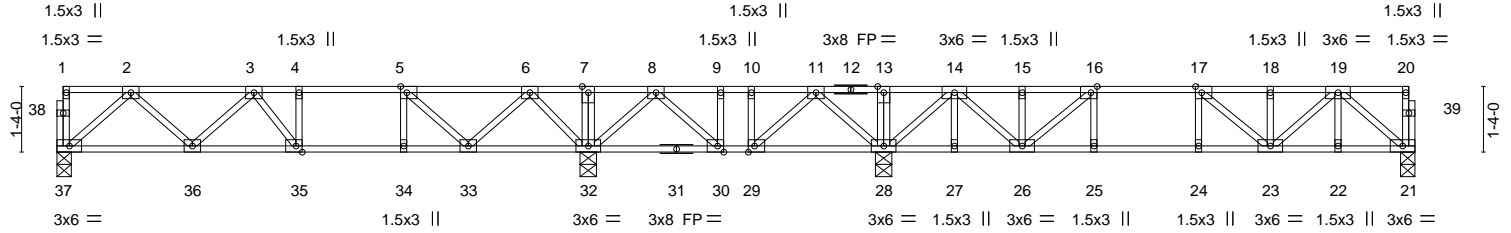
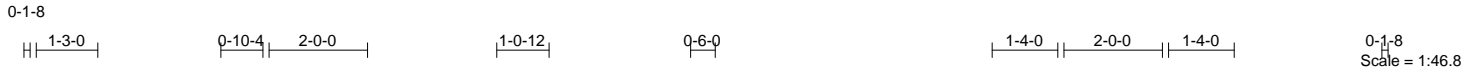
August 12, 2022

<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</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Herring-HaawthornellA;Lot16 GriffinPoainte	153630420
GP16-F	F06	FLOOR	1	1	Job Reference (optional)	

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

8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 06:45:37 2022 Page 1
 ID:fiBMMmjQRE9YSpott_wRX_zcieS-lylSjL?gt87138cPvIjECAXSBCtSmC479D3ALVyogGS



LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.40	Vert(LL)	-0.06	35-36	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.52	Vert(CT)	-0.08	35-36	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.23	Horz(CT)	0.02	21	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 152 lb	FT = 20%F, 11%E

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

REACTIONS. All bearings 0-3-8 except (jt=length) 32=0-4-0, 28=0-4-0.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) except 37=439(LC 5), 32=794(LC 16), 28=850(LC 11), 21=426(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-698/0, 3-4=-883/0, 4-5=-883/0, 5-6=-538/0, 6-7=-24/404, 7-8=-24/405, 11-13=0/486, 13-14=0/486, 14-15=-552/0, 15-16=-552/0, 16-17=-844/0, 17-18=-729/0, 18-19=-729/0
 BOT CHORD 36-37=0/462, 35-36=0/894, 34-35=0/883, 33-34=0/883, 28-29=-250/110, 25-26=0/844, 24-25=0/844, 23-24=0/844, 22-23=0/447, 21-22=0/447
 WEBS 2-37=-613/0, 2-36=0/329, 3-36=-272/0, 5-33=-483/0, 6-33=0/438, 6-32=-627/0, 11-28=-406/0, 8-32=-346/0, 11-29=0/263, 14-28=-688/0, 14-26=0/475, 16-26=-397/0, 19-21=-581/0, 19-23=0/374

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) CAUTION, Do not erect truss backwards.



August 12, 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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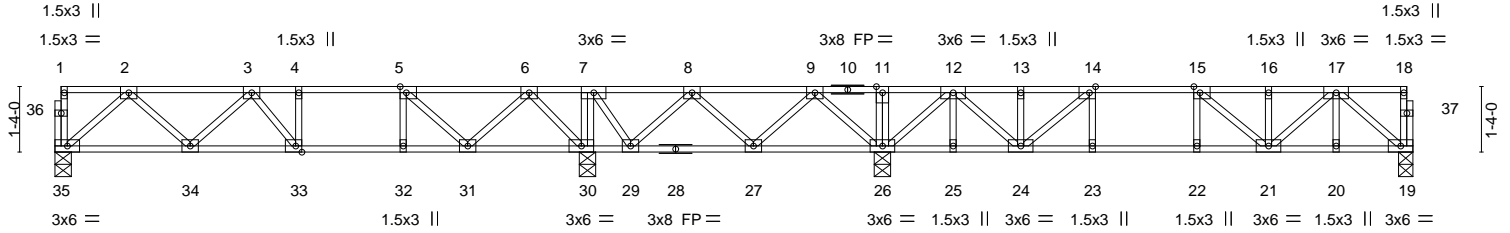


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Herring-HaawthornellA;Lot16 GriffinPoainte	153630421
GP16-F	F11	FLOOR	1	1	Job Reference (optional)	

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

8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 06:45:40 2022 Page 1
ID:fiBMMmjQRE9YSpott_wRX_zcieS-9XRbLM2ZA3VKwbl_AqGxqp8zWPuDzZrBlryqyogGP



	5-0-4	6-0-4, 7-0-4	10-10-0	16-10-0	19-7-0	21-2-0	22-2-0, 23-2-0	24-9-0	27-7-8
Plate Offsets (X, Y)--	[5:0-1-8,Edge]	[14:0-1-8,Edge]	[15:0-1-8,Edge]	[33:0-1-8,Edge]					

LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.40	Vert(LL)	-0.06 33-34	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.52	Vert(CT)	-0.08 33-34	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.23	Horz(CT)	0.02 19	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 150 lb	FT = 20%F, 11%E

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

REACTIONS. All bearings 0-4-0 except (jt=length) 19=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 35=443(LC 5), 30=803(LC 14), 26=870(LC 11), 19=424(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-706/0, 3-4=-898/0, 4-5=-898/0, 5-6=-553/0, 6-7=-69/401, 7-8=-131/264, 9-11=0/513, 11-12=0/513, 12-13=-544/0, 13-14=-544/0, 14-15=-839/0, 15-16=-726/0, 16-17=-726/0
BOT CHORD 34-35=0/466, 33-34=0/905, 32-33=0/898, 31-32=0/898, 30-31=-10/278, 29-30=-401/69, 26-27=-251/136, 23-24=0/839, 22-23=0/839, 21-22=0/839, 20-21=0/446, 19-20=0/446
WEBS 7-30=-337/0, 2-35=-618/0, 2-34=0/334, 3-34=-277/0, 5-31=-488/0, 6-31=0/443, 6-30=-626/0, 9-26=-457/0, 8-29=-303/0, 7-29=0/265, 12-26=-698/0, 12-24=0/476, 14-24=-402/0, 17-19=-579/0, 17-21=0/373

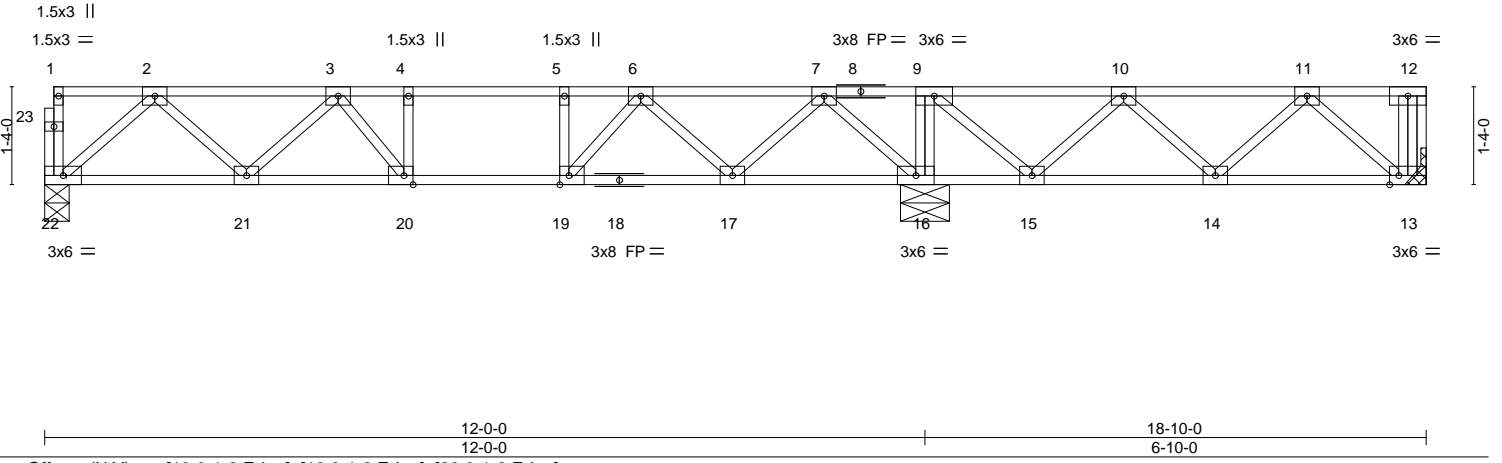
- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) CAUTION, Do not erect truss backwards.



Job	Truss	Truss Type	Qty	Ply	Herring-HaawthornellA;Lot16 GriffinPoainte	153630422
GP16-F	F12	FLOOR	1	1	Job Reference (optional)	

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

8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 06:45:41 2022 Page 1
ID:fiBMMmjQRE9YSpott_wRX_zcieS-ek?zZI3BxMdBwAkYoAM0h8?pFYi0pj4r1OUHyogGO



LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.42	Vert(LL)	-0.06 20-21	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.45	Vert(CT)	-0.08 20-21	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.24	Horz(CT)	0.01 13	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S					Weight: 101 lb	FT = 20%F, 11%E

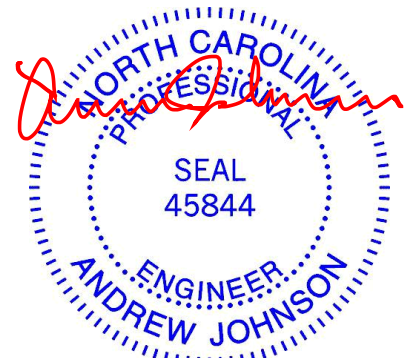
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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. (size) 22=0-4-0, 13=Mechanical, 16=0-8-0
Max Uplift 13=15(LC 3)
Max Grav 22=464(LC 3), 13=254(LC 7), 16=980(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-751/0, 3-4=-998/0, 4-5=-998/0, 5-6=-998/0, 6-7=-448/0, 7-9=0/650,
9-10=-86/334, 10-11=-287/104
BOT CHORD 21-22=0/490, 20-21=0/975, 19-20=0/998, 17-19=0/801, 15-16=-650/0, 14-15=-197/302
WEBS 9-16=-467/0, 2-22=-650/0, 2-21=0/363, 3-21=-312/0, 7-16=-794/0, 7-17=0/509,
6-17=-506/0, 6-19=0/376, 11-13=-323/48, 10-15=-423/0, 9-15=0/476

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 13.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.



August 12, 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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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Herring-HaawthornellA;Lot16 GriffinPoainte	153630423
GP16-F	F13	FLOOR	1	1	Job Reference (optional)	

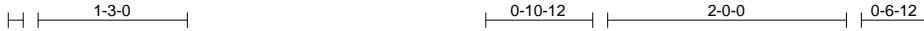
Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 06:45:42 2022 Page 1

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0-1-8



Scale = 1:19.3

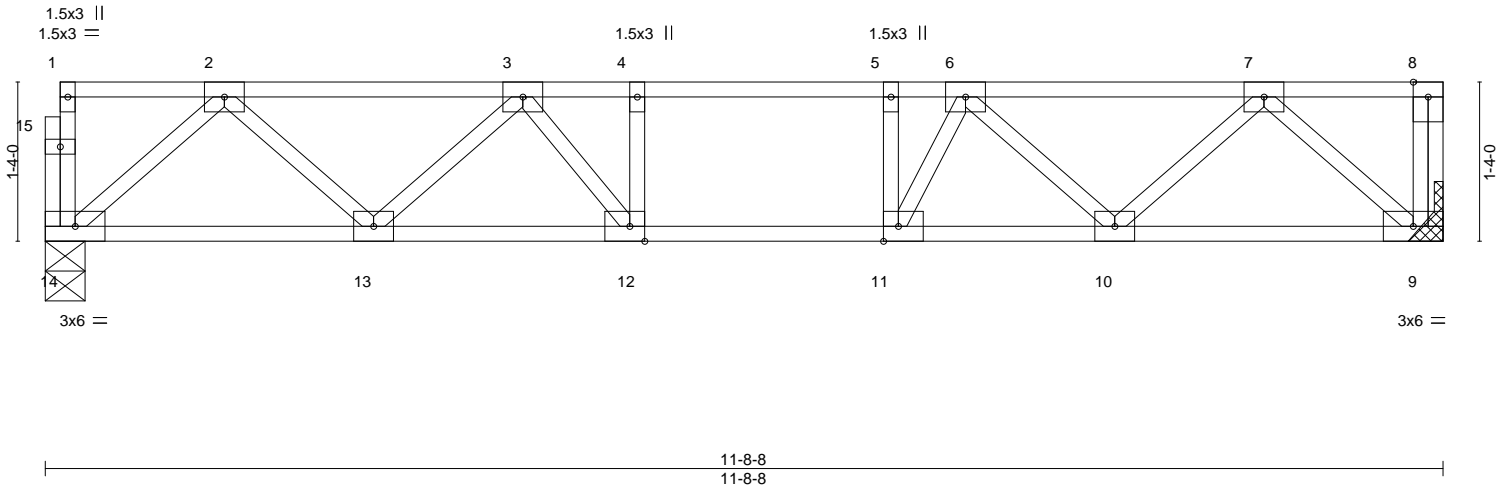


Plate Offsets (X, Y)--	[11:0-1-8,Edge], [12:0-1-8,Edge]								
LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00		TC 0.37	Vert(LL) -0.06	12-13	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00		BC 0.42	Vert(CT) -0.07	12-13	>999	360		
BCLL 0.0	Rep Stress Incr YES		WB 0.19	Horz(CT) 0.02	9	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 63 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD 2x4 SP No.2(flat)		TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)			

REACTIONS. (size) 14=0-4-0, 9=Mechanical
Max Grav 14=499(LC 1), 9=504(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-822/0, 3-4=-1168/0, 4-5=-1168/0, 5-6=-1168/0, 6-7=-820/0
BOT CHORD 13-14=0/529, 12-13=0/1089, 11-12=0/1168, 10-11=0/1095, 9-10=0/528
WEBS 2-14=-702/0, 2-13=0/408, 3-13=-372/0, 3-12=-14/290, 7-9=-703/0, 7-10=0/406, 6-10=-382/0, 6-11=-19/346

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 5) CAUTION, Do not erect truss backwards.



August 12, 2022

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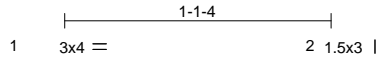
Job GP16-F	Truss F16	Truss Type FLOOR	Qty 1	Ply 1	Herring-HaawthornellA;Lot16 GriffinPoainte 153630424 Job Reference (optional)
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Builders FirstSource (Apex, NC),

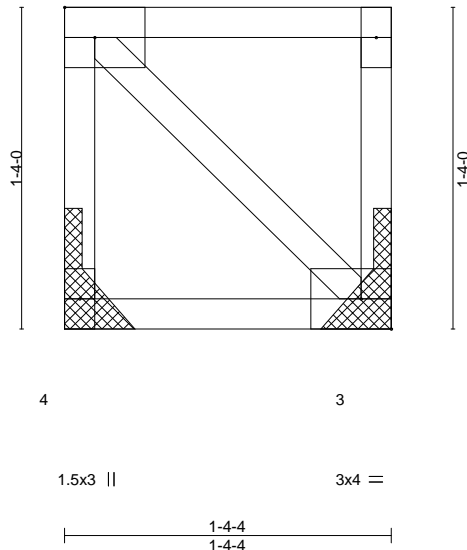
Apex, NC - 27523,

8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 06:45:42 2022 Page 1

ID:fiBMMmjQRE9YSpott_wRX_zcieS-6wYLM23pigI2AvVNHFJPVEEOuDigRWrsJVnx0jyogGN



Scale = 1:9.5



LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.09	Vert(LL)	0.00	4	****	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	-0.00	4	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-P					Weight: 10 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-4-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

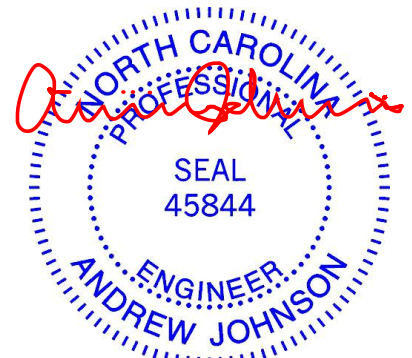
REACTIONS.

(size) 4=Mechanical, 3=Mechanical
 Max Grav 4=54(LC 1), 3=54(LC 1)

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

NOTES-

- 1) Refer to girder(s) for truss to truss connections.
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



August 12, 2022

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 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Herring-HaawthornellA;Lot16 GriffinPoainte	153630425
GP16-F	F17G	FLOOR	1	1	Job Reference (optional)	

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

8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 06:45:44 2022 Page 1
ID:fiBMMmjQRE9YSpott_wRX_zcieS-2Jg6Bk53EH?IPDFIPgLt_fJkZ0O9vQx9mpG25byogGL

0-1/8

0-1/8

Scale = 1:27.5

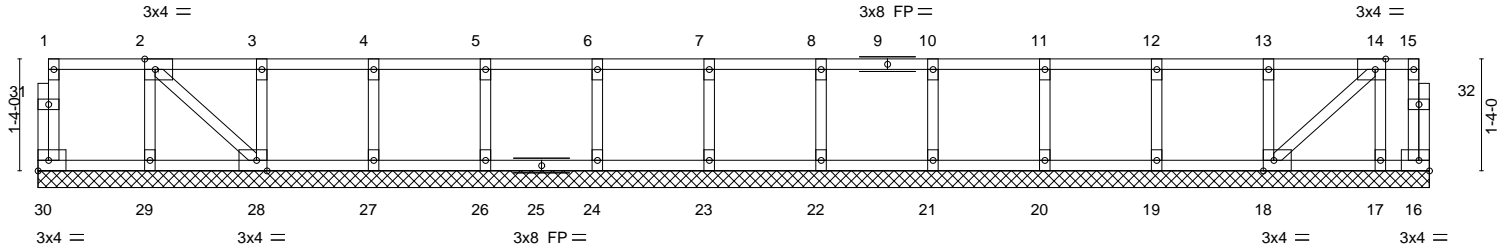


Plate Offsets (X,Y)--	[2:0-1-8,Edge], [14:0-1-8,Edge], [18:0-1-8,Edge], [28:0-1-8,Edge]				
LOADING (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.08	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr NO	WB 0.03	Horz(CT) -0.00 16 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 79 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 29-30,28-29.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. All bearings 16-7-0.
 (lb) - Max Uplift All uplift 100 lb or less at joint(s) 16
 Max Grav All reactions 250 lb or less at joint(s) 30, 29, 28, 27, 26, 24, 23, 22, 21, 20, 19, 18, 17

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



August 12, 2022

Job	Truss	Truss Type	Qty	Ply	Herring-HaawthornellA;Lot16 GriffinPoainte	153630426
GP16-F	F18	FLOOR	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

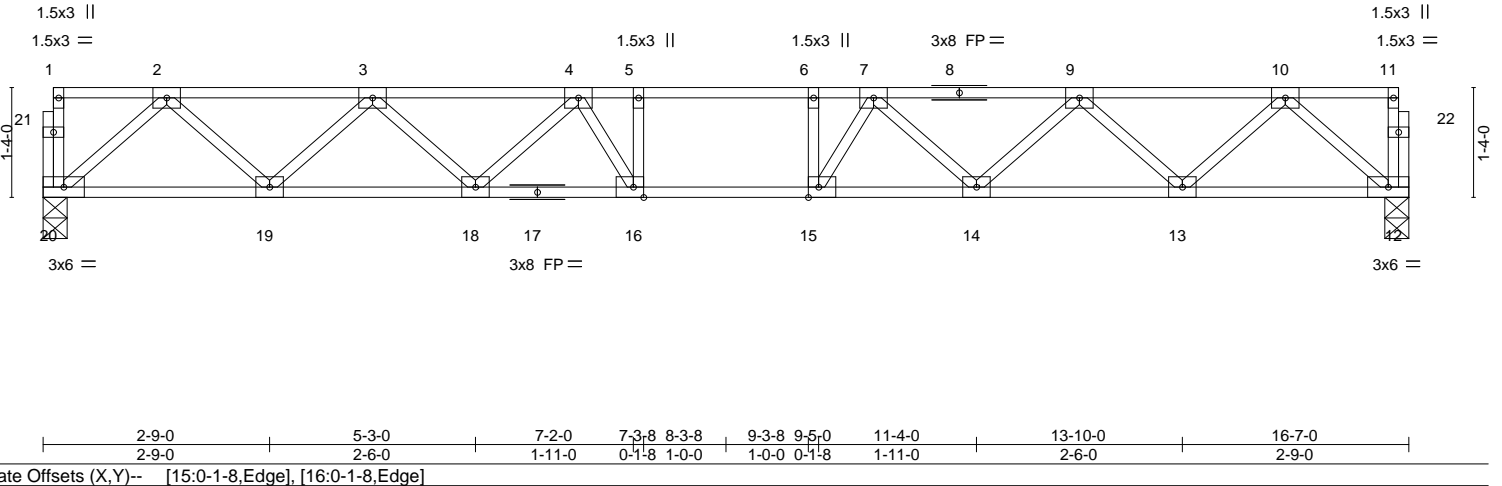
8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 06:45:45 2022 Page 1

ID:fiBMMmjQRE9YSpott_wRX_zcieS-WVEUP46h?b7c1MEyzNs6XsspuQZ5enBI?T?cd2yogGK

0-1-8



0-1-8
Scale = 1:28.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	1-7-3	TC 0.49	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.73	Vert(LL) -0.14 15-16 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.35	Vert(CT) -0.20 15-16 >984 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.04 12 n/a n/a		
	Code IRC2015/TPI2014			Weight: 86 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 20=0-3-8, 12=0-3-8
Max Grav 20=713(LC 1), 12=713(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1289/0, 3-4=-2065/0, 4-5=-2398/0, 5-6=-2398/0, 6-7=-2398/0, 7-9=-2065/0, 9-10=-1289/0
 BOT CHORD 19-20=0/768, 18-19=0/1787, 16-18=0/2324, 15-16=0/2398, 14-15=0/2324, 13-14=0/1787, 12-13=0/768
 WEBS 5-16=-276/53, 6-15=-276/53, 2-20=-1020/0, 2-19=0/726, 3-19=-693/0, 3-18=0/385, 4-18=-361/0, 4-16=-116/415, 10-12=-1020/0, 10-13=0/726, 9-13=-693/0, 9-14=0/385, 7-14=-361/0, 7-15=-116/415

NOTES-
 1) Unbalanced floor live loads have been considered for this design.
 2) All plates are 3x4 MT20 unless otherwise indicated.
 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



Job	Truss	Truss Type	Qty	Ply	Herring-HaawthornellA;Lot16 GriffinPoainte	153630427
GP16-F	F19	FLOOR	2	1	Job Reference (optional)	

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 06:45:46 2022 Page 1

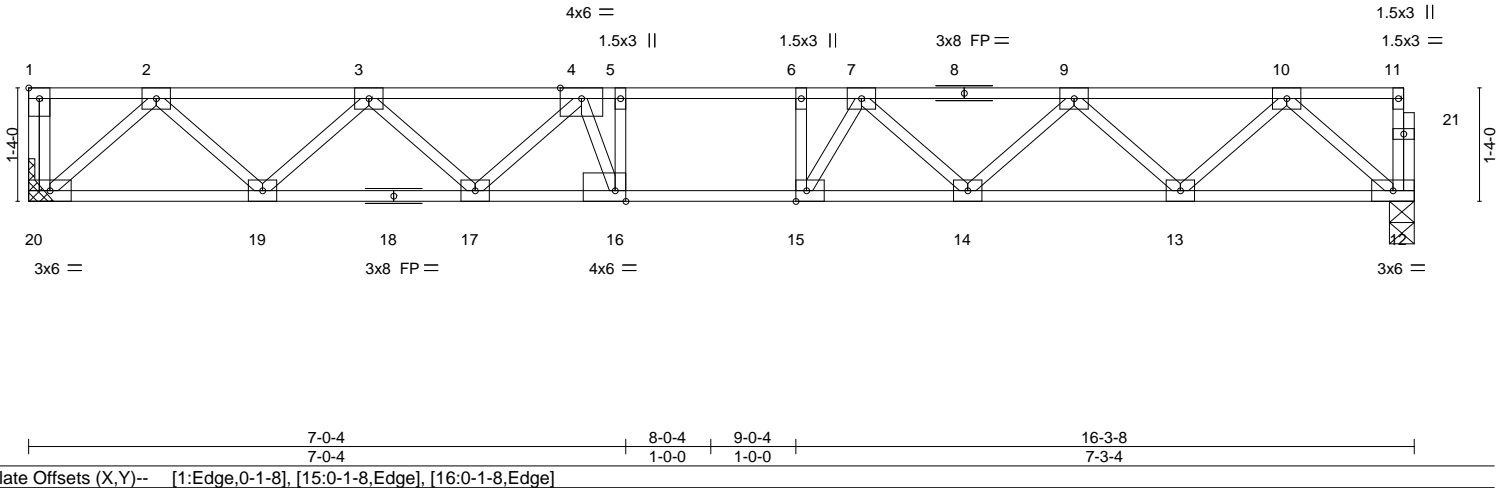
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1-3-0

0-4-12 2-0-0 0-7-12

0-1-8

Scale = 1:27.1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	1-7-3	TC 0.50	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.72	Vert(LL) -0.14 15 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.34	Vert(CT) -0.19 15-16 >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.04 12 n/a n/a		
	Code IRC2015/TPI2014			Weight: 86 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 20=Mechanical, 12=0-3-8
Max Grav 20=705(LC 1), 12=700(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1262/0, 3-4=-2010/0, 4-5=-2312/0, 5-6=-2312/0, 6-7=-2312/0, 7-9=-2011/0, 9-10=-1261/0
 BOT CHORD 19-20=0/754, 17-19=0/1746, 16-17=0/2262, 15-16=0/2312, 14-15=0/2256, 13-14=0/1747, 12-13=0/753
 WEBS 5-16=-358/105, 6-15=-262/64, 2-20=-1004/0, 2-19=0/707, 3-19=-673/0, 3-17=0/368, 4-17=-369/0, 4-16=-161/471, 10-12=-1000/0, 10-13=0/707, 9-13=-675/0, 9-14=0/368, 7-14=-341/0, 7-15=-131/388

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 5) CAUTION, Do not erect truss backwards.



August 12, 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</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job GP16-F	Truss F20	Truss Type FLOOR	Qty 1	Ply 1	Herring-HaawthornellA;Lot16 GriffinPoainte 153630428
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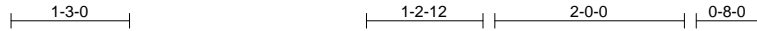
Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 06:45:46 2022 Page 1

ID:fiBMMmjQRE9YSpott_wRX_zcieS-_hosCQ6KmvFTfWo8W5NL34OxPqtXNFMSE7199UyogGJ

Job Reference (optional)



0-1-8

Scale = 1:24.3

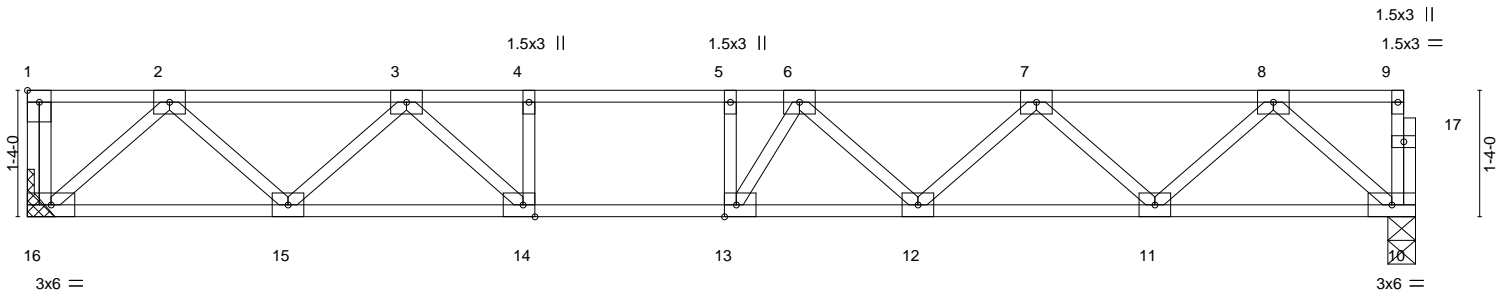


Plate Offsets (X,Y)--	[1:Edge,0-1-8], [13:0-1-8,Edge], [14:0-1-8,Edge]
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LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.69	Vert(LL)	-0.14 12-13	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.82	Vert(CT)	-0.19 12-13	>917	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.29	Horz(CT)	0.03 10	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						

Weight: 77 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 16=Mechanical, 10=0-3-8
Max Grav 16=633(LC 1), 10=628(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1091/0, 3-4=-1820/0, 4-5=-1820/0, 5-6=-1820/0, 6-7=-1714/0, 7-8=-1103/0
BOT CHORD 15-16=0/675, 14-15=0/1505, 13-14=0/1820, 12-13=0/1865, 11-12=0/1517, 10-11=0/671
WEBS 4-14=-275/0, 2-16=-898/0, 2-15=0/579, 3-15=-575/0, 3-14=0/554, 8-10=-891/0, 8-11=0/601, 7-11=-575/0, 7-12=0/274

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 5) CAUTION, Do not erect truss backwards.



August 12, 2022

Job GP16-F	Truss F21G	Truss Type GABLE	Qty 1	Ply 1	Herring-HaawthornellA;Lot16 GriffinPoainte Job Reference (optional)	I53630429
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Builders FirstSource (Apex, NC),

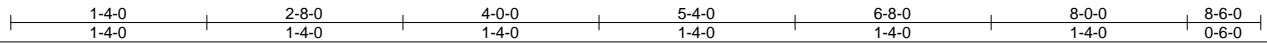
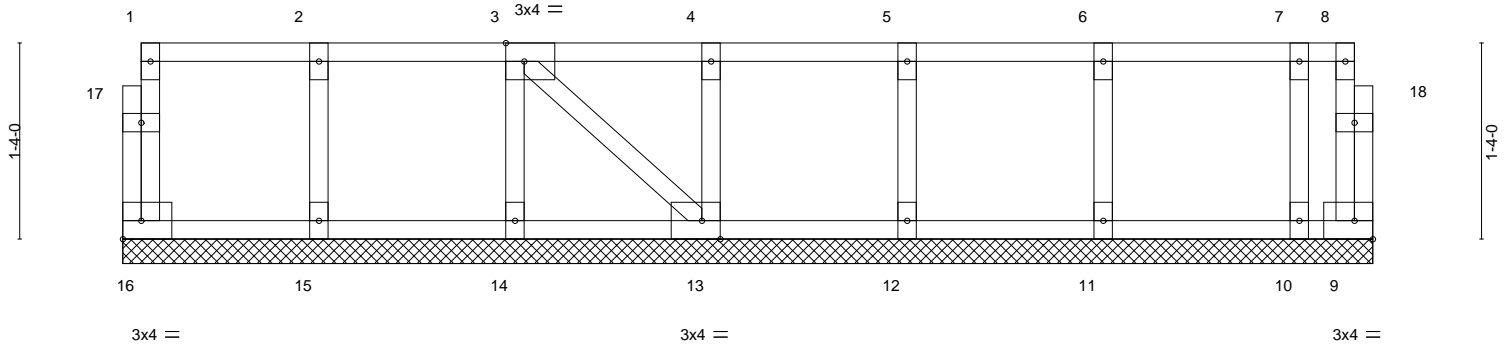
Apex, NC - 27523,

8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 06:45:47 2022 Page 1
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0'-1-8

0'-1-8

Scale = 1:15.7



LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.07	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	NO	WB 0.03	Horz(CT)	0.00	13	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 43 lb	FT = 20%F, 11%E

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

REACTIONS. All bearings 8-6-0.
 (lb) - Max Uplift All uplift 100 lb or less at joint(s) 9
 Max Grav All reactions 250 lb or less at joint(s) 16, 15, 14, 13, 12, 11, 10

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



August 12, 2022

Job GP16-F	Truss F22G	Truss Type GABLE	Qty 1	Ply 1	Herring-HaawthornellA;Lot16 GriffinPoainte 153630430
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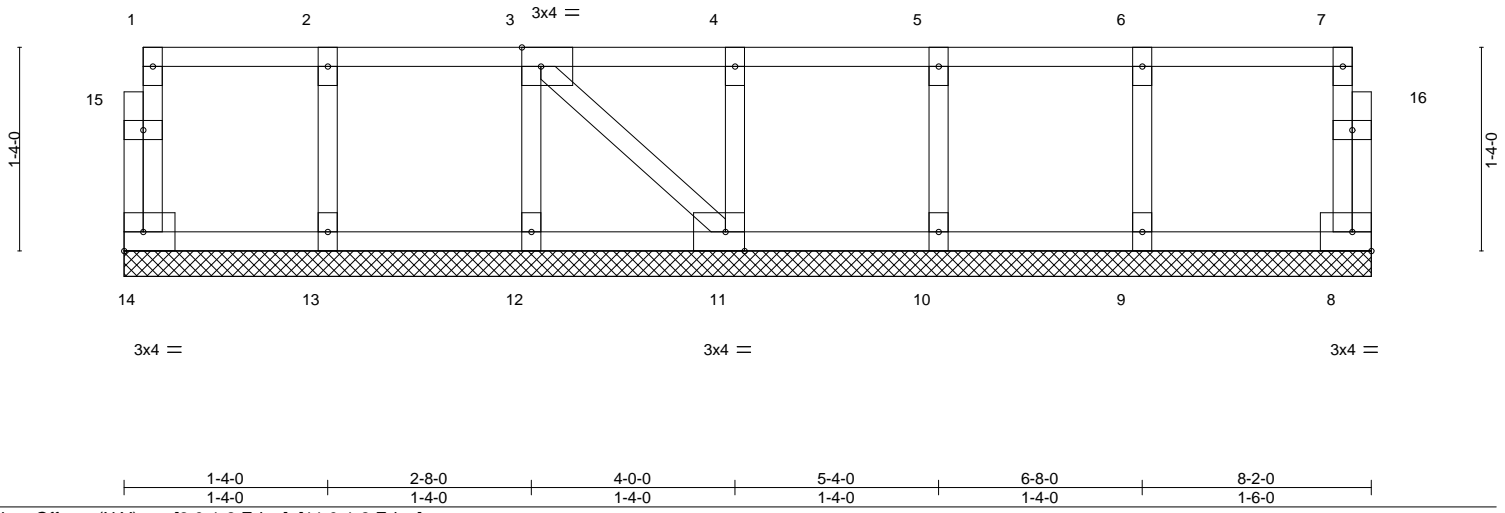
Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 06:45:48 2022 Page 1
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0'-1-8"

0'-1-8"

Scale = 1:15.1



LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	NO	WB 0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						Weight: 40 lb	FT = 20%F, 11%E

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

REACTIONS. All bearings 8-2-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

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

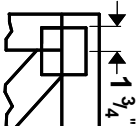
- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



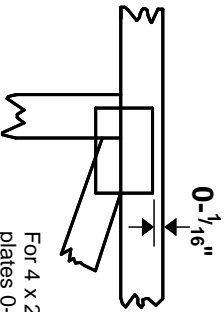
August 12, 2022

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

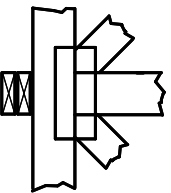
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



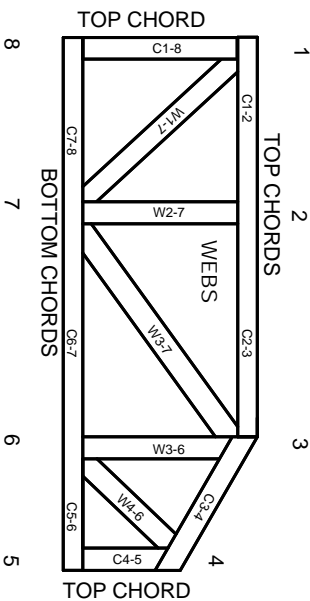
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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
BCSI: 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.

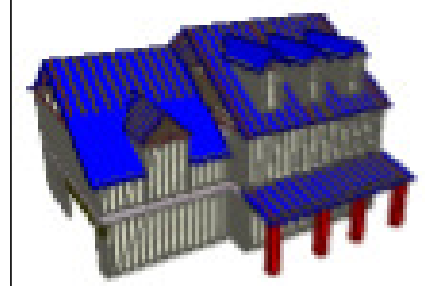
General Notes:
 - Per ANSI/TPI 1-2002 all "Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.

- Dimensions are Feet-Inches- Sixteenths.
 - Trusses are to be 24" o.c. unless noted otherwise (U.N.O.)
 - Trusses are not designed to support brick U.N.O.
 - Do not cut or modify trusses without first contacting Builders FirstSource.
 - Immediately contact Builders FirstSource if trusses are damaged.

Connection Notes:
 - All hangers are to be Simpson or equivalent U.N.O.
 - Use Manufacturer's specifications for all hanger connections U.N.O.
 - Use 10d x 1 1/2" Nails in hanger connections to single ply roof girder trusses.

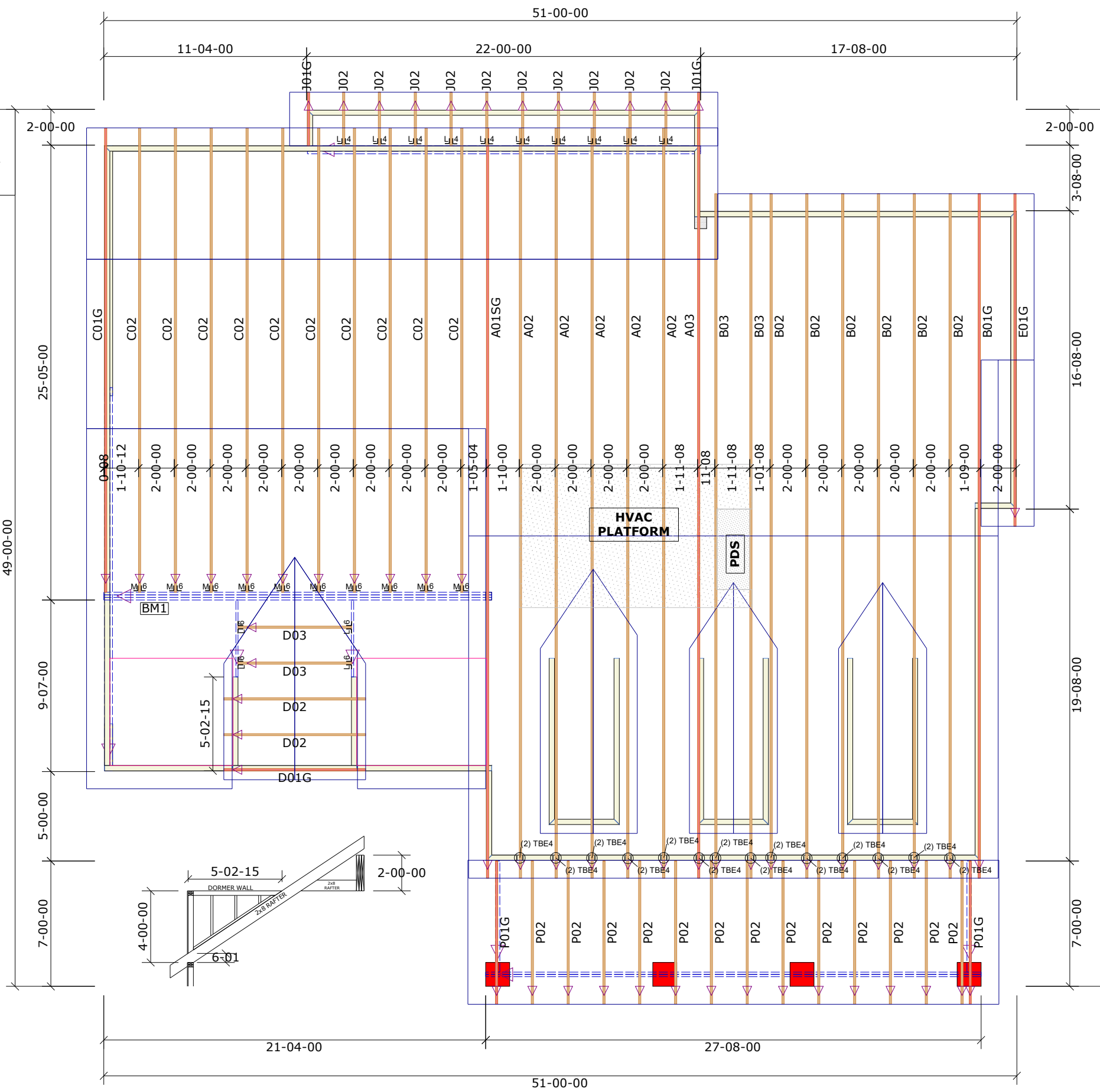
Floor Notes:
 - Shift truss as required to avoid plumbing traps.
 - Installation Contractor and/or Field Supervisor are to verify all dimensions, trap locations, and options prior to installation

Dimension Notes:
 - Drawing not to scale. Do not scale dimensions



NOTE: LEFT END OF TRUSS AS SHOWN ON TRUSS DETAIL DRAWINGS ARE INDICATED ON LAYOUT BY TRIANGLE ICONS

ALL EXTERIOR DIMENSIONS ARE TO OUTSIDE OF SHEATHING. WALLS HELD IN 1/2" FOR SHEATHING



Hanger List		All Tie Downs H2.5T Unless noted	
10	LUS24	U14	
4	LUS26	U18	
10	HTU26	MJ16	
28	TBE4	I1	

Special Items List	

Misc Material	

Jordan Homes			
Hawthorne II	Elev:	A	
Griffin Pointe			
Wake	NC	Lot:	16
Lot 16/Side Load/Garage Left		Appwright #	
		Permit (3258331)	
		Code: IRC 2015	
		Loading:	
		T.C.L.L. 20	
		T.C.D.L. 10	
Designed By: CFC		T.C.D.L. 0	
Layout: ASL-L		B.C.L.L. 10	
L/O Date: 08/12/2022		B.C.D.L. 10	

Revision History		Wind:	
Rev1:	xx/xx/xx	M.P.H.	115
Rev2:	xx/xx/xx	Exposure Category	
Rev3:	xx/xx/xx	B (Wooded areas/other)	
Pick Ticket:	---	Job No.:	---
Sales No.:	---	Acct No.:	---

Hatch Legend	
	Attic Room
	Volume Ceiling
	Stick Framing

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: GP16-R
Herring-HawthorneIIA;Lot16 GriffinPointe

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: I53632341 thru I53632356

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

North Carolina COA: C-0844



August 14,2022

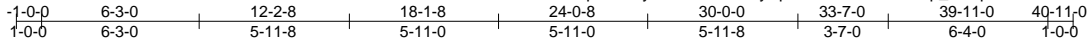
Gilbert, Eric

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	Truss	Truss Type	Qty	Ply	Herring-Hawthornella; Lot 16 Griffin Pointe	153632341
GP16-R	A01SG	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8:530 s May 26 2022 MITEK Industries, Inc. Fri Aug 12 12:28:38 2022 Page 1
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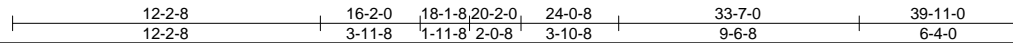
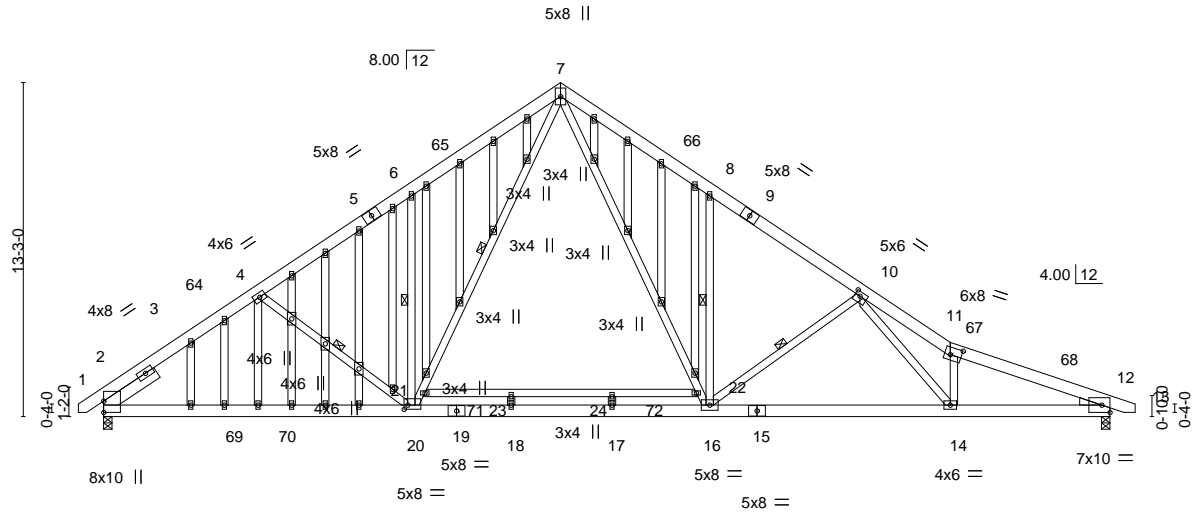


Plate Offsets (X,Y)--	[10:0-2-7,0-2-0], [11:0-5-4,0-3-8], [20:0-1-12,0-2-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.80	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.52	Vert(LL) -0.32 17-18 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.75	Vert(CT) -0.54 17-18 >879 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.09 12 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.12 14-16 >999 240		
				Weight: 443 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-5: 2x6 SP DSS	TOP CHORD Structural wood sheathing directly applied or 2-10-0 oc purlins.
BOT CHORD 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 7-20,7-16: 2x4 SP No.2	WEBS 1 Row at midpt 4-20, 6-20, 7-20, 8-16, 10-16
OTHERS 2x4 SP No.3	
WEDGE Right: 2x4 SP No.3	
SLIDER Left 2x6 SP No.2 2-5-12	

REACTIONS. (size) 2=0-4-0 (req. 0-4-7), 12=0-4-0
 Max Horz 2=-256(LC 10)
 Max Uplift 2=-127(LC 12)
 Max Grav 2=3744(LC 1), 12=2065(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1414/0, 3-64=-5268/443, 4-64=-5257/446, 4-5=-4022/311, 5-6=-3317/269,
 6-65=-3674/394, 7-65=-3627/429, 7-66=-3056/346, 8-66=-3146/311, 8-9=-3006/228,
 9-10=-3158/206, 10-11=-5264/262, 11-67=-4556/180, 67-68=-4628/178, 12-68=-4647/165
 BOT CHORD 2-69=-275/4186, 69-70=-275/4186, 20-70=-275/4186, 19-20=0/1983, 18-19=0/1983,
 17-18=0/1983, 16-17=0/1983, 15-16=-95/3356, 14-15=-95/3356, 12-14=-109/4323
 WEBS 4-20=-1459/257, 6-20=-1026/239, 20-21=-276/2459, 7-21=-273/2457, 7-22=-101/1491,
 16-22=-104/1497, 8-16=-368/160, 10-16=-1025/121, 11-14=-1461/123, 10-14=-37/1753

- 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) -0-10-1 to 2-1-15, Interior(1) 2-1-15 to 18-1-8, Exterior(2) 18-1-8 to 22-4-7, Interior(1) 22-4-7 to 40-8-5 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, with BCDL = 10.0psf.
 - 8) WARNING: Required bearing size at joint(s) 2 greater than input bearing size.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 2.
 - 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 14, 2022

Continued on page 2

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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Job	Truss	Truss Type	Qty	Ply	Herring-HawthornellIA;Lot16 GriffinPointe	153632341
GP16-R	A01SG	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8:530 s May 26 2022 MITek Industries, Inc. Fri Aug 12 12:28:38 2022 Page 2
ID:uRoupDdlIS0y?Ys9U5EY3yXp7U-PxNlWdGA0Kop_YDvpGLRu2QV5X8WRD?TlJ3kB5yobEt

NOTES-

- 11) N/A
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-64=-60, 6-7=-60, 7-11=-60, 11-13=-60, 57-61=-20
Trapezoidal Loads (plf)
Vert: 64=-368(F=-308)-to-6=-245(F=-185)
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-64=-50, 6-7=-50, 7-11=-50, 11-13=-50, 57-69=-20, 69-70=-50, 61-70=-20, 71-72=-30
Trapezoidal Loads (plf)
Vert: 64=-319(F=-269)-to-6=-212(F=-162)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-64=-20, 6-7=-20, 7-11=-20, 11-13=-20, 57-61=-40, 71-72=-40
Trapezoidal Loads (plf)
Vert: 64=-251(F=-231)-to-6=-159(F=-139)
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=32, 2-64=17, 6-7=12, 7-66=17, 11-66=12, 11-12=12, 12-13=8, 57-61=-12
Horz: 1-2=-44, 2-64=29, 7-64=-24, 7-66=29, 11-66=24, 11-12=24, 12-13=20
Trapezoidal Loads (plf)
Vert: 64=32(F=20)-to-6=24(F=12)
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-64=12, 6-65=12, 7-65=17, 7-11=12, 11-68=12, 12-68=22, 12-13=42, 57-61=-12
Horz: 1-2=-20, 2-65=-24, 7-65=-29, 7-11=24, 11-68=24, 12-68=34, 12-13=54
Trapezoidal Loads (plf)
Vert: 64=51(F=39)-to-6=35(F=23)
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-0, 2-64=-44, 6-7=-44, 7-11=-44, 11-12=-32, 12-13=-27, 57-61=-20
Horz: 1-2=-20, 2-7=24, 7-11=-24, 11-12=-12, 12-13=-7
Trapezoidal Loads (plf)
Vert: 64=-291(F=-247)-to-6=-193(F=-149)
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-64=-44, 6-7=-44, 7-11=-44, 11-12=-32, 12-13=-13, 57-61=-20
Horz: 1-2=20, 2-7=24, 7-11=-24, 11-12=-12, 12-13=7
Trapezoidal Loads (plf)
Vert: 64=-291(F=-247)-to-6=-193(F=-149)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-4, 2-64=-14, 6-7=-14, 7-11=5, 11-12=9, 12-13=5, 57-61=-12
Horz: 1-2=-8, 2-7=2, 7-11=17, 11-12=21, 12-13=17
Trapezoidal Loads (plf)
Vert: 64=-26(F=-11)-to-6=-21(F=-7)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=1, 2-64=5, 6-7=5, 7-11=-14, 11-12=19, 12-13=29, 57-61=-12
Horz: 1-2=-13, 2-7=-17, 7-11=-2, 11-12=31, 12-13=41
Trapezoidal Loads (plf)
Vert: 64=32(F=26)-to-6=21(F=16)
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-64=-31, 6-7=-31, 7-11=-11, 11-12=-8, 12-13=-3, 57-61=-20
Horz: 1-2=7, 2-7=11, 7-11=9, 11-12=12, 12-13=17
Trapezoidal Loads (plf)
Vert: 64=-228(F=-197)-to-6=-150(F=-118)
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-64=-11, 6-7=-11, 7-11=-31, 11-12=2, 12-13=6, 57-61=-20
Horz: 1-2=-13, 2-7=-9, 7-11=-11, 11-12=22, 12-13=26
Trapezoidal Loads (plf)
Vert: 64=-208(F=-197)-to-6=-130(F=-118)
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=14, 2-64=19, 6-7=9, 7-11=2, 11-12=2, 12-13=-3, 57-61=-12
Horz: 1-2=-26, 2-4=-31, 4-7=-21, 7-11=14, 11-12=14, 12-13=9
Trapezoidal Loads (plf)
Vert: 64=45(F=26)-to-4=41(F=22), 4=31(F=22)-to-6=25(F=16)
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-3, 2-64=2, 6-7=2, 7-11=9, 11-67=9, 12-67=19, 12-13=14, 57-61=-12
Horz: 1-2=-9, 2-7=-14, 7-11=21, 11-67=21, 12-67=31, 12-13=26

Continued on page 3

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Herring-HawthornellIA;Lot16 GriffinPointe	153632341
GP16-R	A01SG	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.530 s May 26 2022 MITek Industries, Inc. Fri Aug 12 12:28:38 2022 Page 3
 ID:uRoupDdlS0y?Ys9U5ExY3eyXp7U-PxNlwdGA0Kop_YDvpGLru2QV5X8WRD?Tj3kB5yobEt

LOAD CASE(S)

- Trapezoidal Loads (plf)
 Vert: 64=28(F=26)-to-6=17(F=16)
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=5, 2-64=9, 6-7=9, 7-11=2, 11-12=2, 12-13=-3, 57-61=-12
 Horz: 1-2=-17, 2-7=-21, 7-11=14, 11-12=14, 12-13=9
 Trapezoidal Loads (plf)
 Vert: 64=-0(F=-10)-to-6=4(F=-6)
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-3, 2-64=2, 6-7=2, 7-11=9, 11-12=9, 12-13=5, 57-61=-12
 Horz: 1-2=-9, 2-7=-14, 7-11=21, 11-12=21, 12-13=17
 Trapezoidal Loads (plf)
 Vert: 64=-8(F=-10)-to-6=-4(F=-6)
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=6, 2-64=2, 6-7=-7, 7-11=-15, 11-12=-15, 12-13=-11, 57-61=-20
 Horz: 1-2=-26, 2-4=-22, 4-7=-13, 7-11=5, 11-12=5, 12-13=9
 Trapezoidal Loads (plf)
 Vert: 64=-169(F=-171)-to-4=-142(F=-144), 4=-151(F=-144)-to-6=-110(F=-103)
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-11, 2-64=-15, 6-7=-15, 7-11=-7, 11-67=-7, 12-67=2, 12-13=6, 57-61=-20
 Horz: 1-2=-9, 2-7=-5, 7-11=13, 11-67=13, 12-67=22, 12-13=26
 Trapezoidal Loads (plf)
 Vert: 64=-186(F=-171)-to-6=-118(F=-103)
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-64=-20, 6-7=-20, 7-11=-20, 11-13=-20, 57-69=-20, 69-70=-60, 61-70=-20, 71-72=-40
 Trapezoidal Loads (plf)
 Vert: 64=-174(F=-154)-to-6=-113(F=-93)
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-55, 2-64=-58, 6-7=-58, 7-11=-44, 11-12=-41, 12-13=-38, 57-69=-20, 69-70=-50, 61-70=-20, 71-72=-30
 Horz: 1-2=5, 2-7=8, 7-11=6, 11-12=9, 12-13=12
 Trapezoidal Loads (plf)
 Vert: 64=-360(F=-302)-to-6=-240(F=-182)
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-40, 2-64=-44, 6-7=-44, 7-11=-58, 11-12=-30, 12-13=-30, 57-69=-20, 69-70=-50, 61-70=-20, 71-72=-30
 Horz: 1-2=-10, 2-7=-6, 7-11=-8, 11-12=16, 12-13=20
 Trapezoidal Loads (plf)
 Vert: 64=-345(F=-302)-to-6=-225(F=-182)
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-30, 2-64=-34, 6-7=-41, 7-11=-46, 11-12=-46, 12-13=-43, 57-69=-20, 69-70=-50, 61-70=-20, 71-72=-30
 Horz: 1-2=-20, 2-4=-16, 4-7=-9, 7-11=4, 11-12=4, 12-13=7
 Trapezoidal Loads (plf)
 Vert: 64=-316(F=-282)-to-4=-271(F=-237), 4=-278(F=-237)-to-6=-211(F=-170)
- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-43, 2-64=-46, 6-7=-46, 7-11=-41, 11-67=-41, 12-67=-34, 12-13=-30, 57-69=-20, 69-70=-50, 61-70=-20, 71-72=-30
 Horz: 1-2=-7, 2-7=-4, 7-11=9, 11-67=9, 12-67=16, 12-13=20
 Trapezoidal Loads (plf)
 Vert: 64=-329(F=-282)-to-6=-217(F=-170)
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-64=-60, 6-7=-60, 7-11=-20, 11-13=-20, 57-61=-20
 Trapezoidal Loads (plf)
 Vert: 64=-368(F=-308)-to-6=-245(F=-185)
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-64=-20, 6-7=-20, 7-11=-60, 11-13=-60, 57-61=-20
 Trapezoidal Loads (plf)
 Vert: 64=-328(F=-308)-to-6=-205(F=-185)
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-64=-50, 6-7=-50, 7-11=-20, 11-13=-20, 57-69=-20, 69-70=-50, 61-70=-20, 71-72=-30
 Trapezoidal Loads (plf)
 Vert: 64=-319(F=-269)-to-6=-212(F=-162)
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-64=-20, 6-7=-20, 7-11=-50, 11-13=-50, 57-69=-20, 69-70=-50, 61-70=-20, 71-72=-30
 Trapezoidal Loads (plf)
 Vert: 64=-289(F=-269)-to-6=-182(F=-162)

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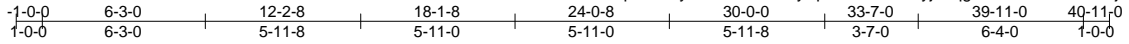


818 Soundside Road
 Edenton, NC 27932

Job GP16-R	Truss A02	Truss Type SPECIAL	Qty 1	Ply 1	Herring-HawthornellA;Lot16 GriffinPointe	153632342
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Builders FirstSource, Apex, NC 27523

8.530 s May 26 2022 MITek Industries, Inc. Fri Aug 12 12:28:52 2022 Page 1
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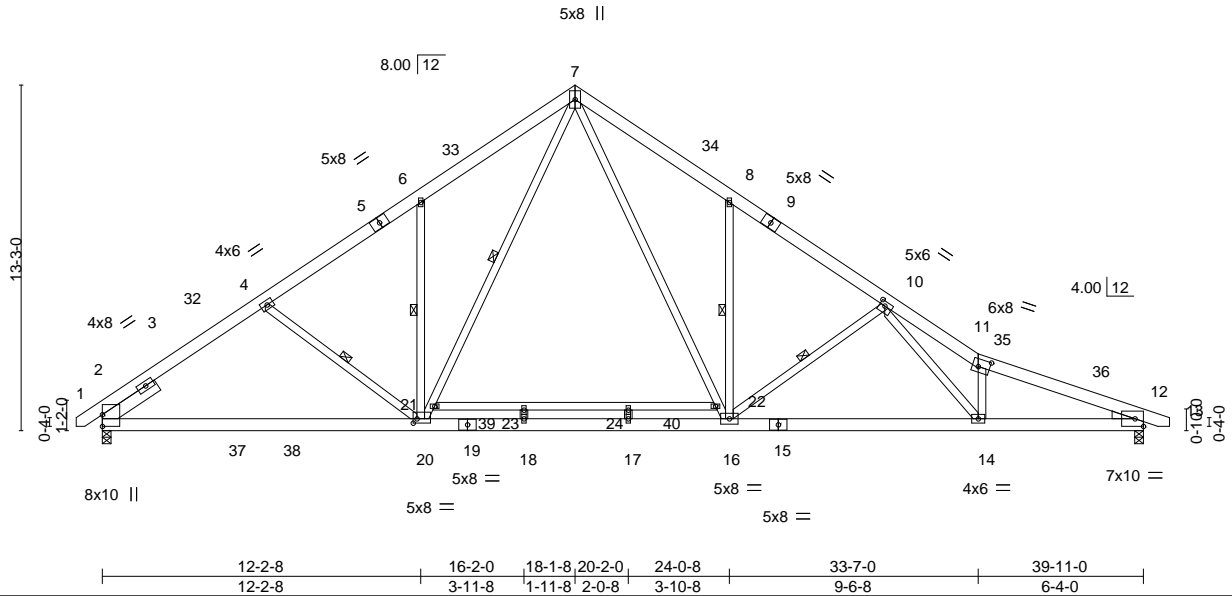


Plate Offsets (X,Y)--	[10:0-2-7,0-2-0], [11:0-5-4,0-3-8], [20:0-1-12,0-2-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.80	Vert(LL)	-0.32	17-18	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.52	Vert(CT)	-0.54	17-18	>879		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.75	Horz(CT)	0.09	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.12	14-16	>999		
								Weight: 332 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
1-5: 2x6 SP DSS
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.3 *Except*
7-20,7-16: 2x4 SP No.2

WEDGE
Right: 2x4 SP No.3
SLIDER Left 2x6 SP No.2 2-5-12

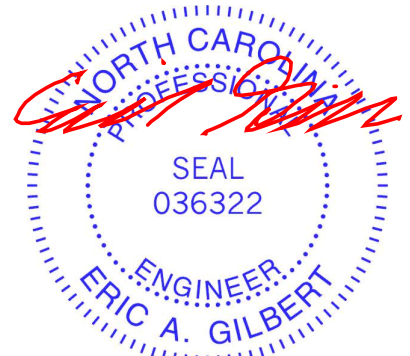
REACTIONS. (size) 2=0-4-0 (req. 0-4-7), 12=0-4-0
Max Horz 2=-256(LC 10)
Max Uplift 2=-127(LC 12)
Max Grav 2=3744(LC 1), 12=2065(LC 1)

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

TOP CHORD 2-3=-1414/0, 3-32=-5268/443, 4-32=-5257/446, 4-5=-4022/311, 5-6=-3317/269,
6-33=-3674/394, 7-33=-3627/429, 7-34=-3056/346, 8-34=-3146/311, 8-9=-3006/228,
9-10=-3158/206, 10-11=-5264/262, 11-35=-4556/180, 35-36=-4628/178, 12-36=-4647/165
BOT CHORD 2-37=-275/4186, 37-38=-275/4186, 20-38=-275/4186, 19-20=0/1983, 18-19=0/1983,
17-18=0/1983, 16-17=0/1983, 15-16=-95/3356, 14-15=-95/3356, 12-14=-109/4323
WEBS 4-20=-1459/257, 6-20=-1026/239, 20-21=-276/2459, 7-21=-273/2457, 7-22=-101/1491,
16-22=-104/1497, 8-16=-368/160, 10-16=-1025/121, 11-14=-1461/123, 10-14=-37/1753

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-1 to 2-1-15, Interior(1) 2-1-15 to 18-1-8, Exterior(2) 18-1-8 to 22-4-7, Interior(1) 22-4-7 to 40-8-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) WARNING: Required bearing size at joint(s) 2 greater than input bearing size.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 2.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) N/A
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Herring-HawthornellIA;Lot16 GriffinPointe	153632342
GP16-R	A02	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.530 s May 26 2022 MITek Industries, Inc. Fri Aug 12 12:28:52 2022 Page 2
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LOAD CASE(S)

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-32=-60, 6-7=-60, 7-11=-60, 11-13=-60, 25-29=-20
 Trapezoidal Loads (plf)
 Vert: 32=-368(F=-308)-to-6=-245(F=-185)
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-32=-50, 6-7=-50, 7-11=-50, 11-13=-50, 25-37=-20, 37-38=-50, 29-38=-20, 39-40=-30
 Trapezoidal Loads (plf)
 Vert: 32=-319(F=-269)-to-6=-212(F=-162)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-32=-20, 6-7=-20, 7-11=-20, 11-13=-20, 25-29=-40, 39-40=-40
 Trapezoidal Loads (plf)
 Vert: 32=-251(F=-231)-to-6=-159(F=-139)
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=32, 2-32=17, 6-7=12, 7-34=17, 11-34=12, 11-12=12, 12-13=8, 25-29=-12
 Horz: 1-2=-44, 2-32=-29, 7-32=-24, 7-34=29, 11-34=24, 11-12=24, 12-13=20
 Trapezoidal Loads (plf)
 Vert: 32=32(F=20)-to-6=24(F=12)
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=8, 2-32=12, 6-33=12, 7-33=17, 7-11=12, 11-36=12, 12-36=22, 12-13=42, 25-29=-12
 Horz: 1-2=-20, 2-33=-24, 7-33=-29, 7-11=24, 11-36=24, 12-36=34, 12-13=54
 Trapezoidal Loads (plf)
 Vert: 32=51(F=39)-to-6=35(F=23)
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-0, 2-32=-44, 6-7=-44, 7-11=-44, 11-12=-32, 12-13=-27, 25-29=-20
 Horz: 1-2=-20, 2-7=24, 7-11=-24, 11-12=-12, 12-13=-7
 Trapezoidal Loads (plf)
 Vert: 32=-291(F=-247)-to-6=-193(F=-149)
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-40, 2-32=-44, 6-7=-44, 7-11=-44, 11-12=-32, 12-13=-13, 25-29=-20
 Horz: 1-2=20, 2-7=24, 7-11=-24, 11-12=-12, 12-13=7
 Trapezoidal Loads (plf)
 Vert: 32=-291(F=-247)-to-6=-193(F=-149)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-4, 2-32=-14, 6-7=-14, 7-11=5, 11-12=9, 12-13=5, 25-29=-12
 Horz: 1-2=-8, 2-7=2, 7-11=17, 11-12=21, 12-13=17
 Trapezoidal Loads (plf)
 Vert: 32=-26(F=-11)-to-6=-21(F=-7)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=1, 2-32=5, 6-7=5, 7-11=-14, 11-12=19, 12-13=29, 25-29=-12
 Horz: 1-2=-13, 2-7=-17, 7-11=-2, 11-12=31, 12-13=41
 Trapezoidal Loads (plf)
 Vert: 32=32(F=26)-to-6=21(F=16)
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-27, 2-32=-31, 6-7=-31, 7-11=-11, 11-12=-8, 12-13=-3, 25-29=-20
 Horz: 1-2=7, 2-7=11, 7-11=9, 11-12=12, 12-13=17
 Trapezoidal Loads (plf)
 Vert: 32=-228(F=-197)-to-6=-150(F=-118)
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-7, 2-32=-11, 6-7=-11, 7-11=-31, 11-12=2, 12-13=6, 25-29=-20
 Horz: 1-2=-13, 2-7=-9, 7-11=-11, 11-12=22, 12-13=26
 Trapezoidal Loads (plf)
 Vert: 32=-208(F=-197)-to-6=-130(F=-118)
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=14, 2-32=19, 6-7=9, 7-11=2, 11-12=2, 12-13=-3, 25-29=-12
 Horz: 1-2=-26, 2-4=-31, 4-7=-21, 7-11=14, 11-12=14, 12-13=9
 Trapezoidal Loads (plf)
 Vert: 32=45(F=26)-to-4=41(F=22), 4=31(F=22)-to-6=25(F=16)
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-3, 2-32=2, 6-7=2, 7-11=9, 11-35=9, 12-35=19, 12-13=14, 25-29=-12
 Horz: 1-2=-9, 2-7=-14, 7-11=21, 11-35=21, 12-35=31, 12-13=26
 Trapezoidal Loads (plf)
 Vert: 32=28(F=26)-to-6=17(F=16)
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Herring-HawthornellA;Lot16 GriffinPointe	153632342
GP16-R	A02	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8:530 s May 26 2022 MiTek Industries, Inc. Fri Aug 12 12:28:52 2022 Page 3
 ID:uRoupDdlIS0y?Ys9U5ExY3eyXp7U-?dEbs?RyjeZqghlCdCb7S?VzAwnjYTXzuSuhHyobEf

LOAD CASE(S)

- Uniform Loads (plf)
 - Vert: 1-2=5, 2-32=9, 6-7=9, 7-11=2, 11-12=2, 12-13=-3, 25-29=-12
 - Horz: 1-2=-17, 2-7=-21, 7-11=14, 11-12=14, 12-13=9
- Trapezoidal Loads (plf)
 - Vert: 32=-0(F=-10)-to-6=4(F=-6)
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-3, 2-32=2, 6-7=2, 7-11=9, 11-12=9, 12-13=5, 25-29=-12
 - Horz: 1-2=-9, 2-7=-14, 7-11=21, 11-12=21, 12-13=17
 - Trapezoidal Loads (plf)
 - Vert: 32=-8(F=-10)-to-6=-4(F=-6)
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=6, 2-32=2, 6-7=-7, 7-11=-15, 11-12=-15, 12-13=-11, 25-29=-20
 - Horz: 1-2=-26, 2-4=-22, 4-7=-13, 7-11=5, 11-12=5, 12-13=9
 - Trapezoidal Loads (plf)
 - Vert: 32=-169(F=-171)-to-4=-142(F=-144), 4=-151(F=-144)-to-6=-110(F=-103)
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-11, 2-32=-15, 6-7=-15, 7-11=-7, 11-35=-7, 12-35=2, 12-13=6, 25-29=-20
 - Horz: 1-2=-9, 2-7=-5, 7-11=13, 11-35=13, 12-35=22, 12-13=26
 - Trapezoidal Loads (plf)
 - Vert: 32=-186(F=-171)-to-6=-118(F=-103)
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 1-32=-20, 6-7=-20, 7-11=-20, 11-13=-20, 25-37=-20, 37-38=-60, 29-38=-20, 39-40=-40
 - Trapezoidal Loads (plf)
 - Vert: 32=-174(F=-154)-to-6=-113(F=-93)
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-55, 2-32=-58, 6-7=-58, 7-11=-44, 11-12=-41, 12-13=-38, 25-37=-20, 37-38=-50, 29-38=-20, 39-40=-30
 - Horz: 1-2=5, 2-7=8, 7-11=6, 11-12=9, 12-13=12
 - Trapezoidal Loads (plf)
 - Vert: 32=-360(F=-302)-to-6=-240(F=-182)
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-40, 2-32=-44, 6-7=-44, 7-11=-58, 11-12=-34, 12-13=-30, 25-37=-20, 37-38=-50, 29-38=-20, 39-40=-30
 - Horz: 1-2=-10, 2-7=-6, 7-11=-8, 11-12=16, 12-13=20
 - Trapezoidal Loads (plf)
 - Vert: 32=-345(F=-302)-to-6=-225(F=-182)
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-30, 2-32=-34, 6-7=-41, 7-11=-46, 11-12=-46, 12-13=-43, 25-37=-20, 37-38=-50, 29-38=-20, 39-40=-30
 - Horz: 1-2=-20, 2-4=-16, 4-7=-9, 7-11=4, 11-12=4, 12-13=7
 - Trapezoidal Loads (plf)
 - Vert: 32=-316(F=-282)-to-4=-271(F=-237), 4=-278(F=-237)-to-6=-211(F=-170)
- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-43, 2-32=-46, 6-7=-46, 7-11=-41, 11-35=-41, 12-35=-34, 12-13=-30, 25-37=-20, 37-38=-50, 29-38=-20, 39-40=-30
 - Horz: 1-2=-7, 2-7=-4, 7-11=9, 11-35=9, 12-35=16, 12-13=20
 - Trapezoidal Loads (plf)
 - Vert: 32=-329(F=-282)-to-6=-217(F=-170)
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-32=-60, 6-7=-60, 7-11=-20, 11-13=-20, 25-29=-20
 - Trapezoidal Loads (plf)
 - Vert: 32=-368(F=-308)-to-6=-245(F=-185)
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-32=-20, 6-7=-20, 7-11=-60, 11-13=-60, 25-29=-20
 - Trapezoidal Loads (plf)
 - Vert: 32=-328(F=-308)-to-6=-205(F=-185)
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-32=-50, 6-7=-50, 7-11=-20, 11-13=-20, 25-37=-20, 37-38=-50, 29-38=-20, 39-40=-30
 - Trapezoidal Loads (plf)
 - Vert: 32=-319(F=-269)-to-6=-212(F=-162)
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-32=-20, 6-7=-20, 7-11=-50, 11-13=-50, 25-37=-20, 37-38=-50, 29-38=-20, 39-40=-30
 - Trapezoidal Loads (plf)
 - Vert: 32=-289(F=-269)-to-6=-182(F=-162)

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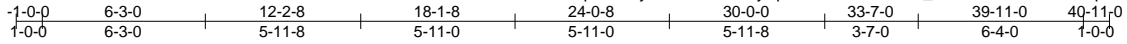


818 Soundside Road
 Edenton, NC 27932

Job GP16-R	Truss A03	Truss Type GABLE	Qty 1	Ply 1	Herring-HawthornellA;Lot16 GriffinPointe	153632343
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Builders FirstSource, Apex, NC 27523

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8.530 s May 26 2022 MiTek Industries, Inc. Fri Aug 12 12:29:05 2022 Page 1



Scale = 1:88.3

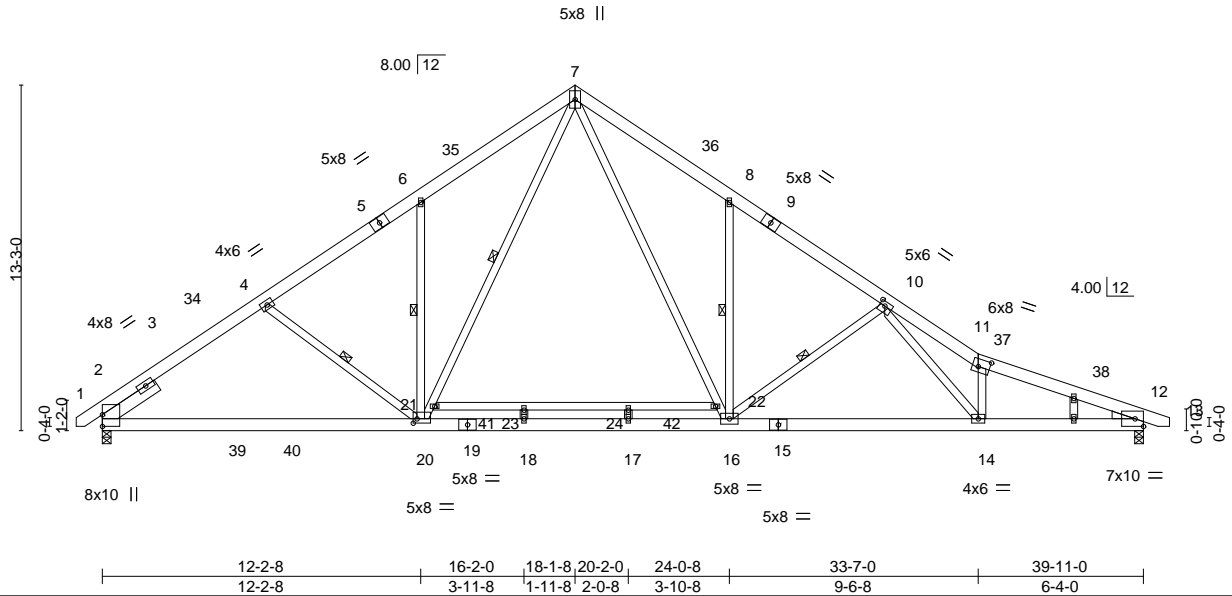


Plate Offsets (X,Y)--	[10:0-2-7,0-2-0], [11:0-5-4,0-3-8], [20:0-1-12,0-2-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.80	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.52	Vert(LL) -0.32 17-18 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.75	Vert(CT) -0.54 17-18 >879 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.09 12 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.12 14-16 >999 240		
				Weight: 333 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
1-5: 2x6 SP DSS
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.3 *Except*
7-20,7-16: 2x4 SP No.2
OTHERS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3
SLIDER Left 2x6 SP No.2 2-5-12

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-10-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-20, 6-20, 7-20, 8-16, 10-16

REACTIONS.

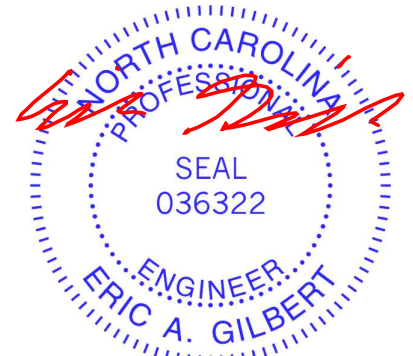
(size) 2=0-4-0 (req. 0-4-7), 12=0-4-0
Max Horz 2=-256(LC 10)
Max Uplift 2=-127(LC 12)
Max Grav 2=3744(LC 1), 12=2065(LC 1)

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

TOP CHORD 2-3=-1414/0, 3-34=-5268/443, 4-34=-5257/446, 4-5=-4022/311, 5-6=-3317/269,
6-35=-3674/394, 7-35=-3627/429, 7-36=-3056/346, 8-36=-3146/311, 8-9=-3006/228,
9-10=-3158/206, 10-11=-5264/262, 11-37=-4556/180, 37-38=-4628/178, 12-38=-4647/165
BOT CHORD 2-39=-275/4186, 39-40=-275/4186, 20-40=-275/4186, 19-20=0/1983, 18-19=0/1983,
17-18=0/1983, 16-17=0/1983, 15-16=-95/3356, 14-15=-95/3356, 12-14=-109/4323
WEBS 4-20=-1459/257, 6-20=-1026/239, 20-21=-276/2459, 7-21=-273/2457, 7-22=-101/1491,
16-22=-104/1497, 8-16=-368/160, 10-16=-1025/121, 11-14=-1461/123, 10-14=-37/1753

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) -0-10-1 to 2-1-15, Interior(1) 2-1-15 to 18-1-8, Exterior(2) 18-1-8 to 22-4-7, Interior(1) 22-4-7 to 40-8-5 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 studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- WARNING: Required bearing size at joint(s) 2 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 14, 2022

Continued on page 2

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Herring-HawthornellIA;Lot16 GriffinPointe	153632343
GP16-R	A03	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.530 s May 26 2022 MITek Industries, Inc. Fri Aug 12 12:29:06 2022 Page 2
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NOTES-

- 11) N/A
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-34=-60, 6-7=-60, 7-11=-60, 11-13=-60, 27-31=-20
Trapezoidal Loads (plf)
Vert: 34=-368(F=-308)-to-6=-245(F=-185)
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-34=-50, 6-7=-50, 7-11=-50, 11-13=-50, 27-39=-20, 39-40=-50, 31-40=-20, 41-42=-30
Trapezoidal Loads (plf)
Vert: 34=-319(F=-269)-to-6=-212(F=-162)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-34=-20, 6-7=-20, 7-11=-20, 11-13=-20, 27-31=-40, 41-42=-40
Trapezoidal Loads (plf)
Vert: 34=-251(F=-231)-to-6=-159(F=-139)
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=32, 2-34=17, 6-7=12, 7-36=17, 11-36=12, 11-12=12, 12-13=8, 27-31=-12
Horz: 1-2=-44, 2-34=-29, 7-34=-24, 7-36=29, 11-36=24, 11-12=24, 12-13=20
Trapezoidal Loads (plf)
Vert: 34=32(F=20)-to-6=24(F=12)
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-34=12, 6-35=12, 7-35=17, 7-11=12, 11-38=12, 12-38=22, 12-13=42, 27-31=-12
Horz: 1-2=-20, 2-35=-24, 7-35=-29, 7-11=24, 11-38=24, 12-38=34, 12-13=54
Trapezoidal Loads (plf)
Vert: 34=51(F=39)-to-6=35(F=23)
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-0, 2-34=-44, 6-7=-44, 7-11=-44, 11-12=-32, 12-13=-27, 27-31=-20
Horz: 1-2=-20, 2-7=24, 7-11=-24, 11-12=-12, 12-13=-7
Trapezoidal Loads (plf)
Vert: 34=-291(F=-247)-to-6=-193(F=-149)
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-34=-44, 6-7=-44, 7-11=-44, 11-12=-32, 12-13=-13, 27-31=-20
Horz: 1-2=20, 2-7=24, 7-11=-24, 11-12=-12, 12-13=7
Trapezoidal Loads (plf)
Vert: 34=-291(F=-247)-to-6=-193(F=-149)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-4, 2-34=-14, 6-7=-14, 7-11=5, 11-12=9, 12-13=5, 27-31=-12
Horz: 1-2=-8, 2-7=2, 7-11=17, 11-12=21, 12-13=17
Trapezoidal Loads (plf)
Vert: 34=-26(F=-11)-to-6=-21(F=-7)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=1, 2-34=5, 6-7=5, 7-11=-14, 11-12=19, 12-13=29, 27-31=-12
Horz: 1-2=-13, 2-7=-17, 7-11=-2, 11-12=31, 12-13=41
Trapezoidal Loads (plf)
Vert: 34=32(F=26)-to-6=21(F=16)
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-34=-31, 6-7=-31, 7-11=-11, 11-12=-8, 12-13=-3, 27-31=-20
Horz: 1-2=7, 2-7=11, 7-11=9, 11-12=12, 12-13=17
Trapezoidal Loads (plf)
Vert: 34=-228(F=-197)-to-6=-150(F=-118)
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-34=-11, 6-7=-11, 7-11=-31, 11-12=2, 12-13=6, 27-31=-20
Horz: 1-2=-13, 2-7=-9, 7-11=-11, 11-12=22, 12-13=26
Trapezoidal Loads (plf)
Vert: 34=-208(F=-197)-to-6=-130(F=-118)
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=14, 2-34=19, 6-7=9, 7-11=2, 11-12=2, 12-13=-3, 27-31=-12
Horz: 1-2=-26, 2-4=-31, 4-7=-21, 7-11=14, 11-12=14, 12-13=9
Trapezoidal Loads (plf)
Vert: 34=45(F=26)-to-4=41(F=22), 4=31(F=22)-to-6=25(F=16)
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-3, 2-34=2, 6-7=2, 7-11=9, 11-37=9, 12-37=19, 12-13=14, 27-31=-12
Horz: 1-2=-9, 2-7=-14, 7-11=21, 11-37=21, 12-37=31, 12-13=26

Continued on page 3

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	Truss	Truss Type	Qty	Ply	Herring-HawthornellIA;Lot16 GriffinPointe	153632343
GP16-R	A03	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.530 s May 26 2022 MITek Industries, Inc. Fri Aug 12 12:29:06 2022 Page 3
 ID:uRoupDdlIS0y?Ys9U5ExY3eyXp7U-bK4uonckPxKrlrMIS8rP0yal1ph3_txbB4sDBUyobER

LOAD CASE(S)

- Trapezoidal Loads (plf)
 Vert: 34=28(F=26)-to-6=17(F=16)
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=5, 2-34=9, 6-7=9, 7-11=2, 11-12=2, 12-13=-3, 27-31=-12
 Horz: 1-2=-17, 2-7=-21, 7-11=14, 11-12=14, 12-13=9
- Trapezoidal Loads (plf)
 Vert: 34=-0(F=-10)-to-6=4(F=-6)
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-3, 2-34=2, 6-7=2, 7-11=9, 11-12=9, 12-13=5, 27-31=-12
 Horz: 1-2=-9, 2-7=-14, 7-11=21, 11-12=21, 12-13=17
- Trapezoidal Loads (plf)
 Vert: 34=-8(F=-10)-to-6=-4(F=-6)
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=6, 2-34=2, 6-7=-7, 7-11=-15, 11-12=-15, 12-13=-11, 27-31=-20
 Horz: 1-2=-26, 2-4=-22, 4-7=-13, 7-11=5, 11-12=5, 12-13=9
- Trapezoidal Loads (plf)
 Vert: 34=-169(F=-171)-to-4=-142(F=-144), 4=-151(F=-144)-to-6=-110(F=-103)
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-11, 2-34=-15, 6-7=-15, 7-11=-7, 11-37=-7, 12-37=2, 12-13=6, 27-31=-20
 Horz: 1-2=-9, 2-7=-5, 7-11=13, 11-37=13, 12-37=22, 12-13=26
- Trapezoidal Loads (plf)
 Vert: 34=-186(F=-171)-to-6=-118(F=-103)
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-34=-20, 6-7=-20, 7-11=-20, 11-13=-20, 27-39=-20, 39-40=-60, 31-40=-20, 41-42=-40
- Trapezoidal Loads (plf)
 Vert: 34=-174(F=-154)-to-6=-113(F=-93)
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-55, 2-34=-58, 6-7=-58, 7-11=-44, 11-12=-41, 12-13=-38, 27-39=-20, 39-40=-50, 31-40=-20, 41-42=-30
 Horz: 1-2=5, 2-7=8, 7-11=6, 11-12=9, 12-13=12
- Trapezoidal Loads (plf)
 Vert: 34=-360(F=-302)-to-6=-240(F=-182)
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-40, 2-34=-44, 6-7=-44, 7-11=-58, 11-12=-30, 12-13=-30, 27-39=-20, 39-40=-50, 31-40=-20, 41-42=-30
 Horz: 1-2=-10, 2-7=-6, 7-11=-8, 11-12=16, 12-13=20
- Trapezoidal Loads (plf)
 Vert: 34=-345(F=-302)-to-6=-225(F=-182)
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-30, 2-34=-34, 6-7=-41, 7-11=-46, 11-12=-46, 12-13=-43, 27-39=-20, 39-40=-50, 31-40=-20, 41-42=-30
 Horz: 1-2=-20, 2-4=-16, 4-7=-9, 7-11=4, 11-12=4, 12-13=7
- Trapezoidal Loads (plf)
 Vert: 34=-316(F=-282)-to-4=-271(F=-237), 4=-278(F=-237)-to-6=-211(F=-170)
- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-43, 2-34=-46, 6-7=-46, 7-11=-41, 11-37=-41, 12-37=-34, 12-13=-30, 27-39=-20, 39-40=-50, 31-40=-20, 41-42=-30
 Horz: 1-2=-7, 2-7=-4, 7-11=9, 11-37=9, 12-37=16, 12-13=20
- Trapezoidal Loads (plf)
 Vert: 34=-329(F=-282)-to-6=-217(F=-170)
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-34=-60, 6-7=-60, 7-11=-20, 11-13=-20, 27-31=-20
- Trapezoidal Loads (plf)
 Vert: 34=-368(F=-308)-to-6=-245(F=-185)
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-34=-20, 6-7=-20, 7-11=-60, 11-13=-60, 27-31=-20
- Trapezoidal Loads (plf)
 Vert: 34=-328(F=-308)-to-6=-205(F=-185)
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-34=-50, 6-7=-50, 7-11=-20, 11-13=-20, 27-39=-20, 39-40=-50, 31-40=-20, 41-42=-30
- Trapezoidal Loads (plf)
 Vert: 34=-319(F=-269)-to-6=-212(F=-162)
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-34=-20, 6-7=-20, 7-11=-50, 11-13=-50, 27-39=-20, 39-40=-50, 31-40=-20, 41-42=-30
- Trapezoidal Loads (plf)
 Vert: 34=-289(F=-269)-to-6=-182(F=-162)

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

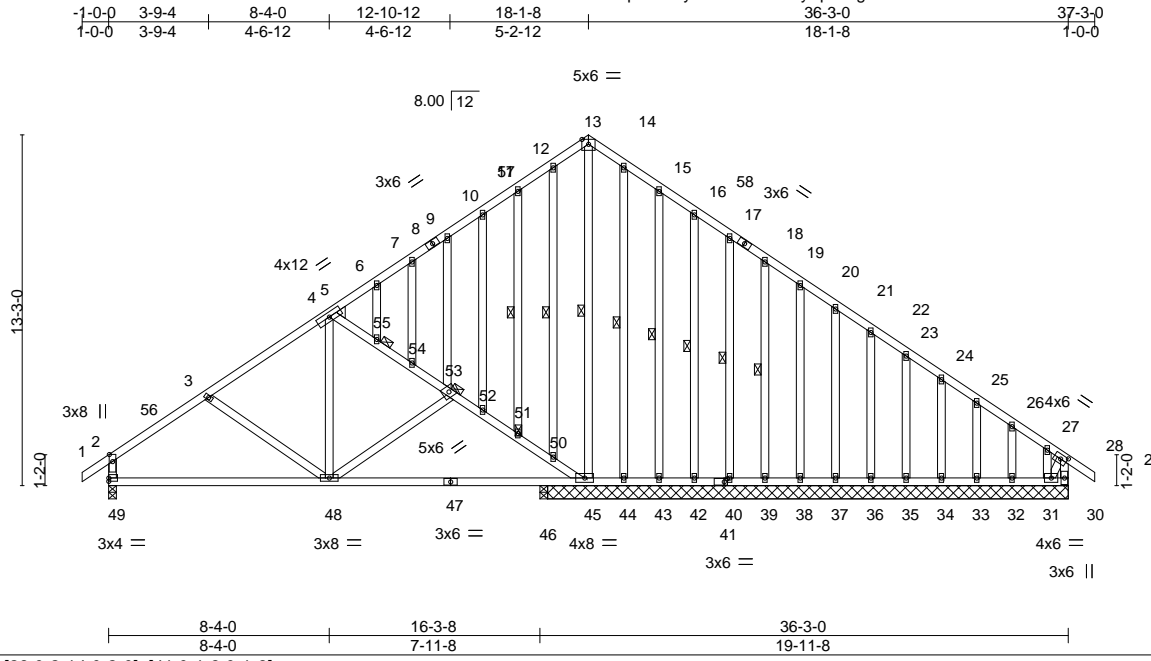


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Herring-HawthornellA;Lot16 GriffinPointe	I53632344
GP16-R	B01G	QUEENPOST	1	1		

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 08:11:54 2022 Page 1

ID:uRoupDdlS0y?Ys9U5ExY3eyXp7U-gw3aGXf1hmNBfkuOGT5FWvR874mJFXO7c9ecYxyof?Z



Scale = 1:87.0

Plate Offsets (X, Y)--	[28:0-2-14,0-2-0], [41:0-1-8,0-1-8]
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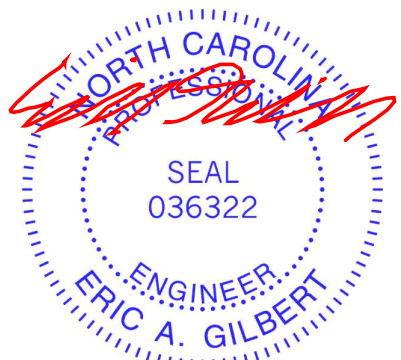
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.51	Vert(LL)	-0.10	48-49	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.61	Vert(CT)	-0.20	48-49	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.50	Horz(CT)	0.01	45	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.03	48	>999		
								Weight: 373 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, Except: 10-0-0 oc bracing: 48-49,46-48,45-46.
WEBS 2x4 SP No.3 *Except* 13-45,2-49,28-30: 2x4 SP No.2	WEBS 1 Row at midpt 13-45, 14-44, 12-50, 15-43, 16-42, 17-40, 19-39, 11-51
	JOINTS 1 Brace at Jt(s): 51, 53, 55

REACTIONS. All bearings 19-8-0 except (jt=length) 49=0-3-8, 46=0-3-8.
 (lb) - Max Horz 49=276(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 49, 43, 42, 40, 39, 38, 37, 36, 35, 34, 33, 32 except 45=186(LC 12), 31=304(LC 13), 30=690(LC 23)
 Max Grav All reactions 250 lb or less at joint(s) 44, 43, 42, 40, 39, 38, 37, 36, 35, 34, 33, 32 except 49=504(LC 1), 45=1074(LC 1), 31=562(LC 20), 30=398(LC 13), 46=322(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-447/53, 3-4=-263/57, 5-6=-106/496, 6-7=-48/440, 7-9=-52/498, 9-10=0/405, 10-11=0/416, 11-12=0/447, 12-13=0/491, 13-14=0/456, 14-15=0/454, 15-16=0/442, 16-17=0/442, 17-19=0/443, 19-20=0/443, 20-21=-16/443, 21-22=-49/443, 22-23=-82/443, 23-24=-115/443, 24-25=-148/443, 25-26=-180/442, 26-27=-216/459, 27-28=-230/478, 2-49=-421/87, 28-30=-375/755
 BOT CHORD 48-49=-165/451, 46-48=-159/548, 45-46=-159/548, 44-45=-427/211, 43-44=-427/211, 42-43=-427/211, 40-42=-427/211, 39-40=-427/211, 38-39=-427/211, 37-38=-427/211, 36-37=-427/211, 35-36=-427/211, 34-35=-427/211, 33-34=-427/211, 32-33=-427/211, 31-32=-427/211
 WEBS 4-55=-583/138, 54-55=-676/187, 53-54=-654/175, 52-53=-899/301, 51-52=-929/316, 50-51=-940/327, 45-50=-942/321, 13-45=-655/0, 4-48=-76/489, 48-53=-338/173, 4-5=-107/459, 28-31=-651/337

- 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 18-1-8, Exterior(2) 18-1-8 to 21-1-8, Interior(1) 21-1-8 to 37-3-0 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) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 49, 43, 42, 40, 39, 38, 37, 36, 35, 34, 33, 32 except (jt=lb) 45=186, 31=304, 30=690.



August 14, 2022

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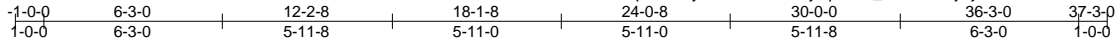
ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Herring-HawthornellA;Lot16 GriffinPointe	153632345
GP16-R	B02	COMMON	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.530 s May 26 2022 MiTek Industries, Inc. Fri Aug 12 12:31:35 2022 Page 1
 ID:uRoupDdlS0y?Ys9U5ExY3eyXp7U-k_aD4kPBKj5ijkFWhx0MZMFkotSePCHWSIScwlYobC6



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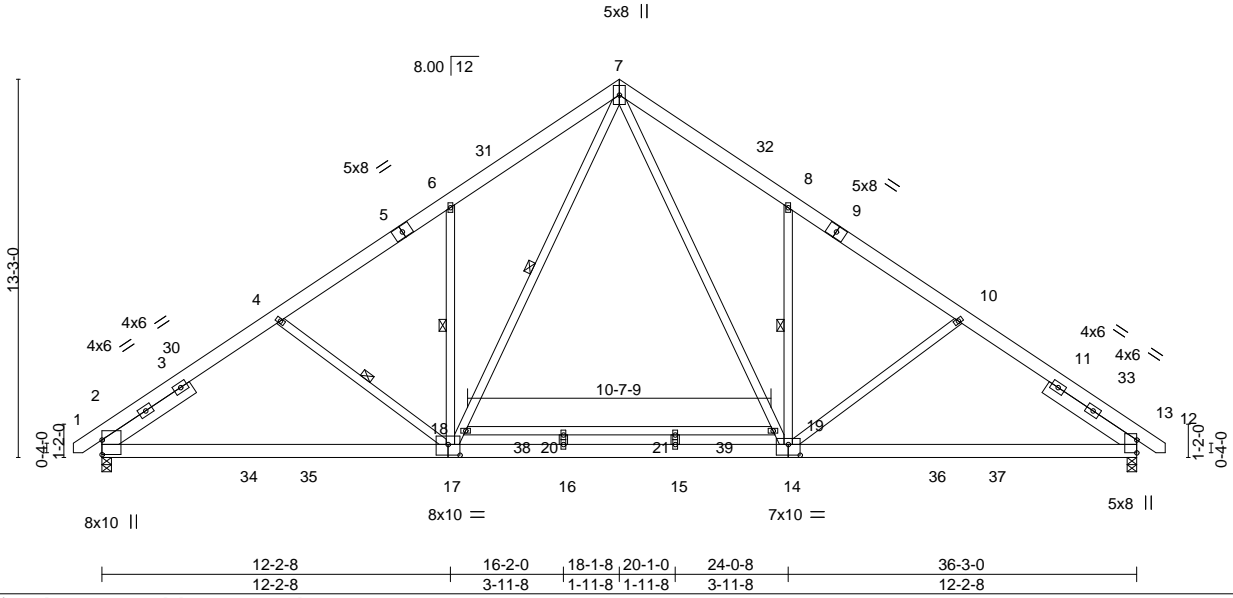


Plate Offsets (X,Y)-- [14:0-5-0,0-4-8], [17:0-5-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.84	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.92	Vert(LL) -0.34 15-16 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.97	Vert(CT) -0.51 15-16 >850 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.08 12 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.08 16-17 >999 240		
				Weight: 315 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
 1-5,9-13: 2x6 SP DSS
 BOT CHORD 2x6 SP No.2 *Except*
 2-17: 2x6 SP DSS
 WEBS 2x4 SP No.3 *Except*
 7-14,7-17: 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 3-9-3, Right 2x6 SP No.2 3-9-3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-9-9 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 8-14, 7-17, 6-17, 4-17

REACTIONS.

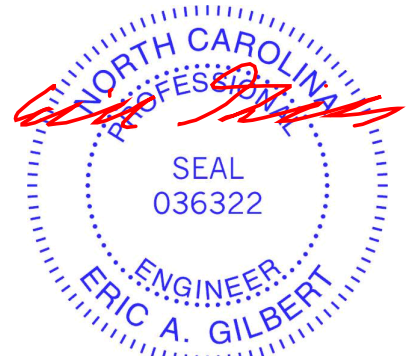
(size) 2=0-4-0 (req. 0-4-3), 12=0-4-0
 Max Horz 2=-249(LC 10)
 Max Uplift 2=-136(LC 12), 12=-1(LC 13)
 Max Grav 2=3555(LC 1), 12=1965(LC 1)

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

TOP CHORD 2-30=-1754/0, 3-30=-1572/0, 3-4=-4298/251, 4-5=-3740/190, 5-6=-3015/183,
 6-31=-3355/291, 7-31=-3300/327, 7-32=-2432/274, 8-32=-2540/239, 8-9=-2363/153,
 9-10=-2492/132, 10-11=-2664/146, 11-33=-944/0, 12-33=-989/0
 BOT CHORD 2-34=-207/3843, 34-35=-207/3843, 17-35=-207/3843, 16-17=0/1472, 15-16=0/1472,
 14-15=0/1472, 14-36=-24/2124, 36-37=-24/2124, 12-37=-24/2124
 WEBS 7-19=-86/874, 14-19=-96/971, 8-14=-425/162, 17-18=-204/2468, 7-18=-197/2381,
 6-17=-1033/201, 4-17=-1474/243

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-1 to 2-1-15, Interior(1) 2-1-15 to 18-1-8, Exterior(2) 18-1-8 to 22-4-7, Interior(1) 22-4-7 to 37-1-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) WARNING: Required bearing size at joint(s) 2 greater than input bearing size.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 2 and 1 lb uplift at joint 12.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) N/A
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



COMMENTS

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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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Herring-HawthornellA;Lot16 GriffinPointe	153632345
GP16-R	B02	COMMON	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.530 s May 26 2022 MITek Industries, Inc. Fri Aug 12 12:31:35 2022 Page 2
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LOAD CASE(S)

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-30=-60, 6-7=-60, 7-13=-60, 22-26=-20
 Trapezoidal Loads (plf)
 Vert: 30=-368-to-6=-245
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-30=-50, 6-7=-50, 7-13=-50, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20
 Trapezoidal Loads (plf)
 Vert: 30=-319-to-6=-212
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-30=-20, 6-7=-20, 7-13=-20, 22-26=-40, 38-39=-40(F)
 Trapezoidal Loads (plf)
 Vert: 30=-251-to-6=-159
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=32, 2-30=17, 6-7=12, 7-32=17, 12-32=12, 12-13=8, 22-26=-12
 Horz: 1-2=-44, 2-30=-29, 7-30=-24, 7-32=29, 12-32=24, 12-13=20
 Trapezoidal Loads (plf)
 Vert: 30=32-to-6=24
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=8, 2-30=12, 6-31=12, 7-31=17, 7-33=12, 12-33=17, 12-13=32, 22-26=-12
 Horz: 1-2=-20, 2-31=-24, 7-31=-29, 7-33=24, 12-33=29, 12-13=44
 Trapezoidal Loads (plf)
 Vert: 30=32-to-6=24
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-0, 2-30=-44, 6-7=-44, 7-12=-44, 12-13=-40, 22-26=-20
 Horz: 1-2=-20, 2-7=24, 7-12=-24, 12-13=-20
 Trapezoidal Loads (plf)
 Vert: 30=-291-to-6=-193
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-40, 2-30=-44, 6-7=-44, 7-12=-44, 12-13=-0, 22-26=-20
 Horz: 1-2=20, 2-7=24, 7-12=-24, 12-13=20
 Trapezoidal Loads (plf)
 Vert: 30=-291-to-6=-193
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-4, 2-30=-14, 6-7=-14, 7-12=5, 12-13=1, 22-26=-12
 Horz: 1-2=-8, 2-7=2, 7-12=17, 12-13=13
 Trapezoidal Loads (plf)
 Vert: 30=-39-to-6=-29
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=1, 2-30=5, 6-7=5, 7-12=-14, 12-13=-4, 22-26=-12
 Horz: 1-2=-13, 2-7=-17, 7-12=-2, 12-13=8
 Trapezoidal Loads (plf)
 Vert: 30=-20-to-6=-10
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-27, 2-30=-31, 6-7=-31, 7-12=-11, 12-13=-7, 22-26=-20
 Horz: 1-2=7, 2-7=11, 7-12=9, 12-13=13
 Trapezoidal Loads (plf)
 Vert: 30=-228-to-6=-150
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-7, 2-30=-11, 6-7=-11, 7-12=-31, 12-13=-27, 22-26=-20
 Horz: 1-2=-13, 2-7=-9, 7-12=-11, 12-13=-7
 Trapezoidal Loads (plf)
 Vert: 30=-208-to-6=-130
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=14, 2-30=19, 6-7=9, 7-12=2, 12-13=-3, 22-26=-12
 Horz: 1-2=-26, 2-4=-31, 4-7=-21, 7-12=14, 12-13=9
 Trapezoidal Loads (plf)
 Vert: 30=45-to-4=41, 4=31-to-6=25
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-3, 2-30=2, 6-7=2, 7-10=9, 10-12=19, 12-13=14, 22-26=-12
 Horz: 1-2=-9, 2-7=-14, 7-10=21, 10-12=31, 12-13=26
 Trapezoidal Loads (plf)
 Vert: 30=28-to-6=17
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Herring-HawthornellA;Lot16 GriffinPointe	153632345
GP16-R	B02	COMMON	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.530 s May 26 2022 MiTek Industries, Inc. Fri Aug 12 12:31:35 2022 Page 3
 ID:uRoupDdlS0y?Ys9U5ExY3eyXp7U-k_aD4kPBKj5jkFWhx0MZMFkotSePCHWSIScwlYobC6

LOAD CASE(S)

- Uniform Loads (plf)
 - Vert: 1-2=5, 2-30=9, 6-7=9, 7-12=2, 12-13=-3, 22-26=-12
 - Horz: 1-2=-17, 2-7=-21, 7-12=14, 12-13=9
- Trapezoidal Loads (plf)
 - Vert: 30=-0-to-6=4
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-3, 2-30=2, 6-7=2, 7-12=9, 12-13=5, 22-26=-12
 - Horz: 1-2=-9, 2-7=-14, 7-12=21, 12-13=17
 - Trapezoidal Loads (plf)
 - Vert: 30=-8-to-6=-4
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=6, 2-30=2, 6-7=-7, 7-12=-15, 12-13=-11, 22-26=-20
 - Horz: 1-2=-26, 2-4=-22, 4-7=-13, 7-12=5, 12-13=9
 - Trapezoidal Loads (plf)
 - Vert: 30=-169-to-4=-142, 4=-151-to-6=-110
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-11, 2-30=-15, 6-7=-15, 7-10=-7, 10-12=2, 12-13=6, 22-26=-20
 - Horz: 1-2=-9, 2-7=-5, 7-10=13, 10-12=22, 12-13=26
 - Trapezoidal Loads (plf)
 - Vert: 30=-186-to-6=-118
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 1-30=-20, 6-7=-20, 7-13=-20, 22-34=-20, 34-35=-60, 35-36=-20, 36-37=-60, 26-37=-20, 38-39=-40(F)
 - Trapezoidal Loads (plf)
 - Vert: 30=-174-to-6=-113
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-55, 2-30=-58, 6-7=-58, 7-12=-44, 12-13=-40, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20
 - Horz: 1-2=5, 2-7=8, 7-12=6, 12-13=10
 - Trapezoidal Loads (plf)
 - Vert: 30=-360-to-6=-240
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-40, 2-30=-44, 6-7=-44, 7-12=-58, 12-13=-55, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20
 - Horz: 1-2=-10, 2-7=-6, 7-12=-8, 12-13=-5
 - Trapezoidal Loads (plf)
 - Vert: 30=-345-to-6=-225
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-30, 2-30=-34, 6-7=-41, 7-12=-46, 12-13=-43, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20
 - Horz: 1-2=-20, 2-4=-16, 4-7=-9, 7-12=4, 12-13=7
 - Trapezoidal Loads (plf)
 - Vert: 30=-316-to-4=-271, 4=-278-to-6=-211
- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-43, 2-30=-46, 6-7=-46, 7-10=-41, 10-12=-34, 12-13=-30, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20
 - Horz: 1-2=-7, 2-7=-4, 7-10=9, 10-12=16, 12-13=20
 - Trapezoidal Loads (plf)
 - Vert: 30=-329-to-6=-217
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-30=-60, 6-7=-60, 7-13=-20, 22-26=-20
 - Trapezoidal Loads (plf)
 - Vert: 30=-368-to-6=-245
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-30=-20, 6-7=-20, 7-13=-60, 22-26=-20
 - Trapezoidal Loads (plf)
 - Vert: 30=-328-to-6=-205
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-30=-50, 6-7=-50, 7-13=-20, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20
 - Trapezoidal Loads (plf)
 - Vert: 30=-319-to-6=-212
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-30=-20, 6-7=-20, 7-13=-50, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20
 - Trapezoidal Loads (plf)
 - Vert: 30=-290-to-6=-182

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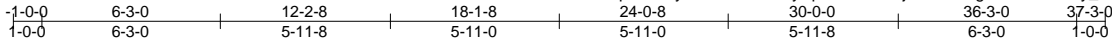


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Herring-HawthornellA;Lot16 GriffinPointe	153632346
GP16-R	B03	COMMON	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.530 s May 26 2022 MiTek Industries, Inc. Fri Aug 12 12:32:00 2022 Page 1
 ID:uRoupDdlS0y?Ys9U5EXY3eyXp7U-VobfJHjtRPF9DagkehZD3eo0Vy_UmWUCC8?QHOyobJ



5x8 ||

Scale = 1:80.7

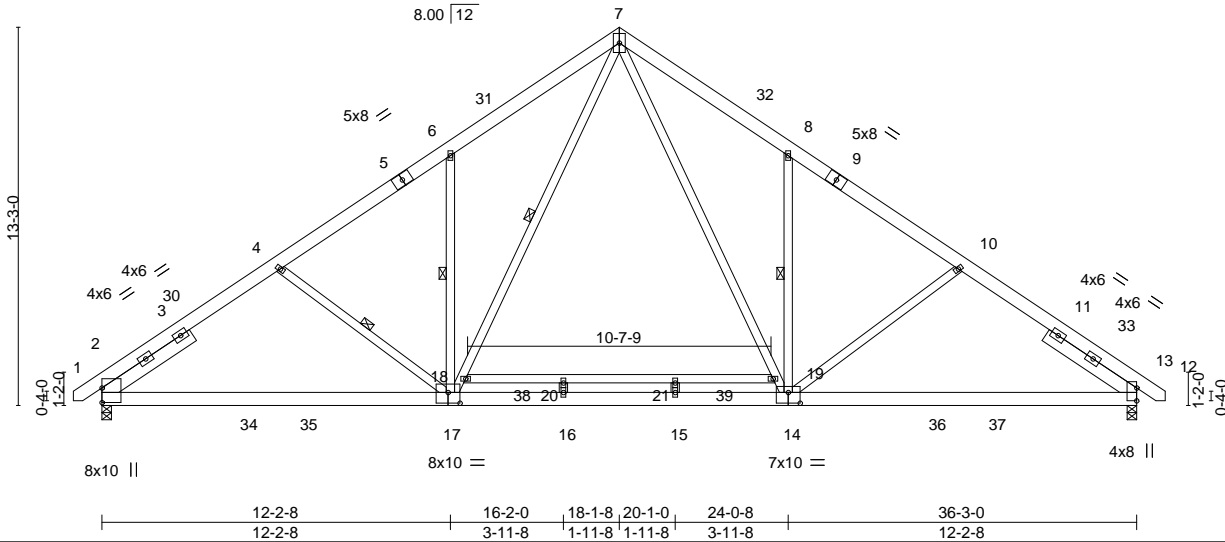


Plate Offsets (X,Y)--	[12:0-5-6,0-0-1], [14:0-5-0,0-4-8], [17:0-5-0,0-4-8]
-----------------------	--

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.84	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.92	Vert(LL) -0.34 15-16 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.97	Vert(CT) -0.51 15-16 >850 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.08 12 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.08 16-17 >999 240		
				Weight: 315 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
 1-5,9-13: 2x6 SP DSS
 BOT CHORD 2x6 SP No.2 *Except*
 2-17: 2x6 SP DSS
 WEBS 2x4 SP No.3 *Except*
 7-14,7-17: 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 3-9-3, Right 2x6 SP No.2 3-9-3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-9-9 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 8-14, 7-17, 6-17, 4-17

REACTIONS.

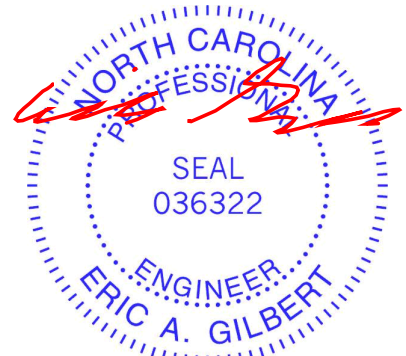
(size) 2=0-4-0 (req. 0-4-3), 12=0-4-0
 Max Horz 2=-249(LC 10)
 Max Uplift 2=-136(LC 12), 12=-1(LC 13)
 Max Grav 2=3555(LC 1), 12=1989(LC 20)

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

TOP CHORD 2-30=-1672/0, 3-30=-1490/0, 3-4=-4314/251, 4-5=-3763/190, 5-6=-3075/183,
 6-31=-3429/291, 7-31=-3383/327, 7-32=-2537/274, 8-32=-2628/239, 8-9=-2435/153,
 9-10=-2542/132, 10-11=-2699/146, 11-33=-868/0, 12-33=-913/0
 BOT CHORD 2-34=-207/3984, 34-35=-207/3984, 17-35=-207/3984, 16-17=0/1572, 15-16=0/1572,
 14-15=0/1572, 14-36=-24/2139, 36-37=-24/2139, 12-37=-24/2139
 WEBS 7-19=-86/993, 14-19=-96/1080, 8-14=-432/162, 17-18=-204/2583, 7-18=-197/2506,
 6-17=-1033/201, 4-17=-1474/243

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-1 to 2-1-15, Interior(1) 2-1-15 to 18-1-8, Exterior(2) 18-1-8 to 22-4-7, Interior(1) 22-4-7 to 37-1-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 10.0psf.
- 6) WARNING: Required bearing size at joint(s) 2 greater than input bearing size.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 2 and 1 lb uplift at joint 12.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) N/A
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



August 14, 2022

LOAD CASES

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Herring-HawthornellIA;Lot16 GriffinPointe	153632346
GP16-R	B03	COMMON	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8:530 s May 26 2022 MITek Industries, Inc. Fri Aug 12 12:32:00 2022 Page 2
 ID:uRoupDdlIS0y?Ys9U5EXy3eyXp7U-VobfJHjIRPF9DagkehZD3eo0VY_UmWUCC8?QH0yobJ

LOAD CASE(S)

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-30=-60, 6-7=-60, 7-13=-60, 22-26=-20
 Trapezoidal Loads (plf)
 Vert: 30=-368-to-6=-245
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-30=-50, 6-7=-50, 7-13=-50, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20, 38-39=-30(F)
 Trapezoidal Loads (plf)
 Vert: 30=-319-to-6=-212
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-30=-20, 6-7=-20, 7-13=-20, 22-26=-40, 38-39=-40(F)
 Trapezoidal Loads (plf)
 Vert: 30=-251-to-6=-159
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=32, 2-30=17, 6-7=12, 7-32=17, 12-32=12, 12-13=8, 22-26=-12
 Horz: 1-2=-44, 2-30=-29, 7-30=-24, 7-32=29, 12-32=24, 12-13=20
 Trapezoidal Loads (plf)
 Vert: 30=32-to-6=24
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=8, 2-30=12, 6-31=12, 7-31=17, 7-33=12, 12-33=17, 12-13=32, 22-26=-12
 Horz: 1-2=-20, 2-31=-24, 7-31=-29, 7-33=24, 12-33=29, 12-13=44
 Trapezoidal Loads (plf)
 Vert: 30=32-to-6=24
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-0, 2-30=-44, 6-7=-44, 7-12=-44, 12-13=-40, 22-26=-20
 Horz: 1-2=-20, 2-7=24, 7-12=-24, 12-13=20
 Trapezoidal Loads (plf)
 Vert: 30=-291-to-6=-193
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-40, 2-30=-44, 6-7=-44, 7-12=-44, 12-13=-0, 22-26=-20
 Horz: 1-2=20, 2-7=24, 7-12=-24, 12-13=20
 Trapezoidal Loads (plf)
 Vert: 30=-291-to-6=-193
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-4, 2-30=-14, 6-7=-14, 7-12=5, 12-13=1, 22-26=-12
 Horz: 1-2=-8, 2-7=2, 7-12=17, 12-13=13
 Trapezoidal Loads (plf)
 Vert: 30=-39-to-6=-29
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=1, 2-30=5, 6-7=5, 7-12=-14, 12-13=-4, 22-26=-12
 Horz: 1-2=-13, 2-7=-17, 7-12=-2, 12-13=8
 Trapezoidal Loads (plf)
 Vert: 30=-20-to-6=-10
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-27, 2-30=-31, 6-7=-31, 7-12=-11, 12-13=-7, 22-26=-20
 Horz: 1-2=7, 2-7=11, 7-12=9, 12-13=13
 Trapezoidal Loads (plf)
 Vert: 30=-228-to-6=-150
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-7, 2-30=-11, 6-7=-11, 7-12=-31, 12-13=-27, 22-26=-20
 Horz: 1-2=-13, 2-7=-9, 7-12=-11, 12-13=-7
 Trapezoidal Loads (plf)
 Vert: 30=-208-to-6=-130
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=14, 2-30=19, 6-7=9, 7-12=2, 12-13=-3, 22-26=-12
 Horz: 1-2=-26, 2-4=-31, 4-7=-21, 7-12=14, 12-13=9
 Trapezoidal Loads (plf)
 Vert: 30=45-to-4=41, 4=31-to-6=25
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-3, 2-30=2, 6-7=2, 7-10=9, 10-12=19, 12-13=14, 22-26=-12
 Horz: 1-2=-9, 2-7=-14, 7-10=21, 10-12=31, 12-13=26
 Trapezoidal Loads (plf)
 Vert: 30=28-to-6=17
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Herring-HawthornellA;Lot16 GriffinPointe	153632346
GP16-R	B03	COMMON	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.530 s May 26 2022 MiTek Industries, Inc. Fri Aug 12 12:32:00 2022 Page 3
ID:uRoupDdlIS0y?Ys9U5EXy3eyXp7U-VobfJHjIRPF9DagkehZD3eo0VY_UmWUCC8?QH0yobJ

LOAD CASE(S)

- Uniform Loads (plf)
 - Vert: 1-2=5, 2-30=9, 6-7=9, 7-12=2, 12-13=-3, 22-26=-12
 - Horz: 1-2=-17, 2-7=-21, 7-12=14, 12-13=9
- Trapezoidal Loads (plf)
 - Vert: 30=-0-to-6=4
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-3, 2-30=2, 6-7=2, 7-12=9, 12-13=5, 22-26=-12
 - Horz: 1-2=-9, 2-7=-14, 7-12=21, 12-13=17
 - Trapezoidal Loads (plf)
 - Vert: 30=-8-to-6=-4
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=6, 2-30=2, 6-7=-7, 7-12=-15, 12-13=-11, 22-26=-20
 - Horz: 1-2=-26, 2-4=-22, 4-7=-13, 7-12=5, 12-13=9
 - Trapezoidal Loads (plf)
 - Vert: 30=-169-to-4=-142, 4=-151-to-6=-110
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-11, 2-30=-15, 6-7=-15, 7-10=-7, 10-12=2, 12-13=6, 22-26=-20
 - Horz: 1-2=-9, 2-7=-5, 7-10=13, 10-12=22, 12-13=26
 - Trapezoidal Loads (plf)
 - Vert: 30=-186-to-6=-118
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 1-30=-20, 6-7=-20, 7-13=-20, 22-34=-20, 34-35=-60, 35-36=-20, 36-37=-60, 26-37=-20, 38-39=-40(F)
 - Trapezoidal Loads (plf)
 - Vert: 30=-174-to-6=-113
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-55, 2-30=-58, 6-7=-58, 7-12=-44, 12-13=-40, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20, 38-39=-30(F)
 - Horz: 1-2=5, 2-7=8, 7-12=6, 12-13=10
 - Trapezoidal Loads (plf)
 - Vert: 30=-360-to-6=-240
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-40, 2-30=-44, 6-7=-44, 7-12=-58, 12-13=-55, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20, 38-39=-30(F)
 - Horz: 1-2=-10, 2-7=-6, 7-12=-8, 12-13=-5
 - Trapezoidal Loads (plf)
 - Vert: 30=-345-to-6=-225
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-30, 2-30=-34, 6-7=-41, 7-12=-46, 12-13=-43, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20, 38-39=-30(F)
 - Horz: 1-2=-20, 2-4=-16, 4-7=-9, 7-12=4, 12-13=7
 - Trapezoidal Loads (plf)
 - Vert: 30=-316-to-4=-271, 4=-278-to-6=-211
- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-43, 2-30=-46, 6-7=-46, 7-10=-41, 10-12=-34, 12-13=-30, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20, 38-39=-30(F)
 - Horz: 1-2=-7, 2-7=-4, 7-10=9, 10-12=16, 12-13=20
 - Trapezoidal Loads (plf)
 - Vert: 30=-329-to-6=-217
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-30=-60, 6-7=-60, 7-13=-20, 22-26=-20
 - Trapezoidal Loads (plf)
 - Vert: 30=-368-to-6=-245
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-30=-20, 6-7=-20, 7-13=-60, 22-26=-20
 - Trapezoidal Loads (plf)
 - Vert: 30=-328-to-6=-205
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-30=-50, 6-7=-50, 7-13=-20, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20, 38-39=-30(F)
 - Trapezoidal Loads (plf)
 - Vert: 30=-319-to-6=-212
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-30=-20, 6-7=-20, 7-13=-50, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20, 38-39=-30(F)
 - Trapezoidal Loads (plf)
 - Vert: 30=-290-to-6=-182

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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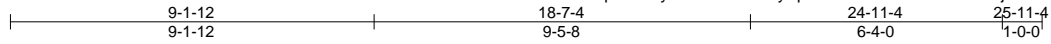
Job GP16-R	Truss C01G	Truss Type GABLE	Qty 1	Ply 1	Herring-HawthornellA;Lot16 GriffinPointe Job Reference (optional)	153632347
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Builders FirstSource (Apex, NC),

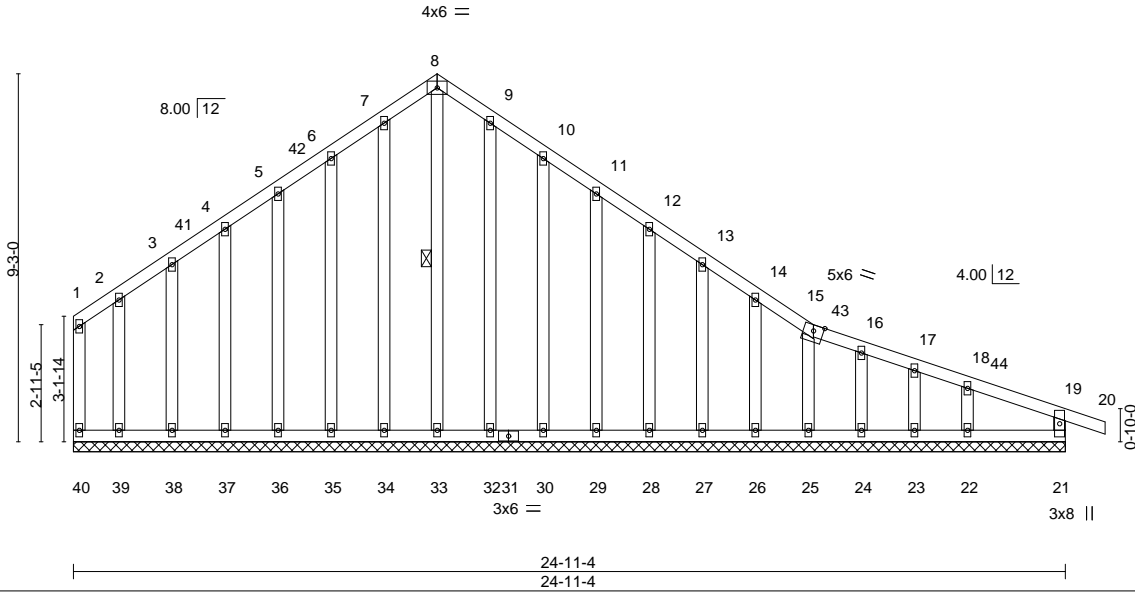
Apex, NC - 27523,

8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 08:12:00 2022 Page 1

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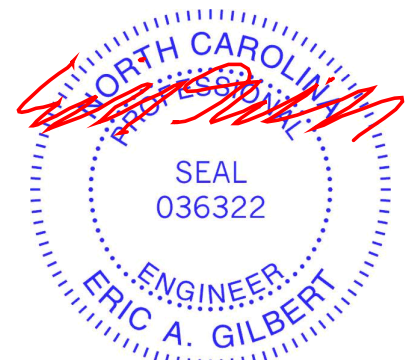
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.11	Vert(LL)	-0.00	20	n/r	MT20	244/190
BCLL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	-0.00	20	n/r		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.11	Horz(CT)	0.01	21	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						
								Weight: 210 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.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 19-21: 2x4 SP No.2	WEBS 1 Row at midpt 8-33
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 24-11-4.
 (lb) - Max Horz 40=-219(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 40, 33, 35, 36, 37, 38, 39, 32, 30, 29, 28, 27, 26, 25, 24, 23, 22 except 21=-100(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 40, 21, 33, 34, 35, 36, 37, 38, 39, 32, 30, 29, 28, 27, 26, 25, 24, 23, 22

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; TC DL=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 9-1-12, Exterior(2) 9-1-12 to 13-1-12, Interior(1) 13-1-12 to 25-11-4 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) 40, 33, 35, 36, 37, 38, 39, 32, 30, 29, 28, 27, 26, 25, 24, 23, 22 except (jt=lb) 21=100.



August 14, 2022

Job GP16-R	Truss C02	Truss Type SPECIAL	Qty 1	Ply 1	Herring-HawthornellA;Lot16 GriffinPointe I53632348
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 08:12:01 2022 Page 1
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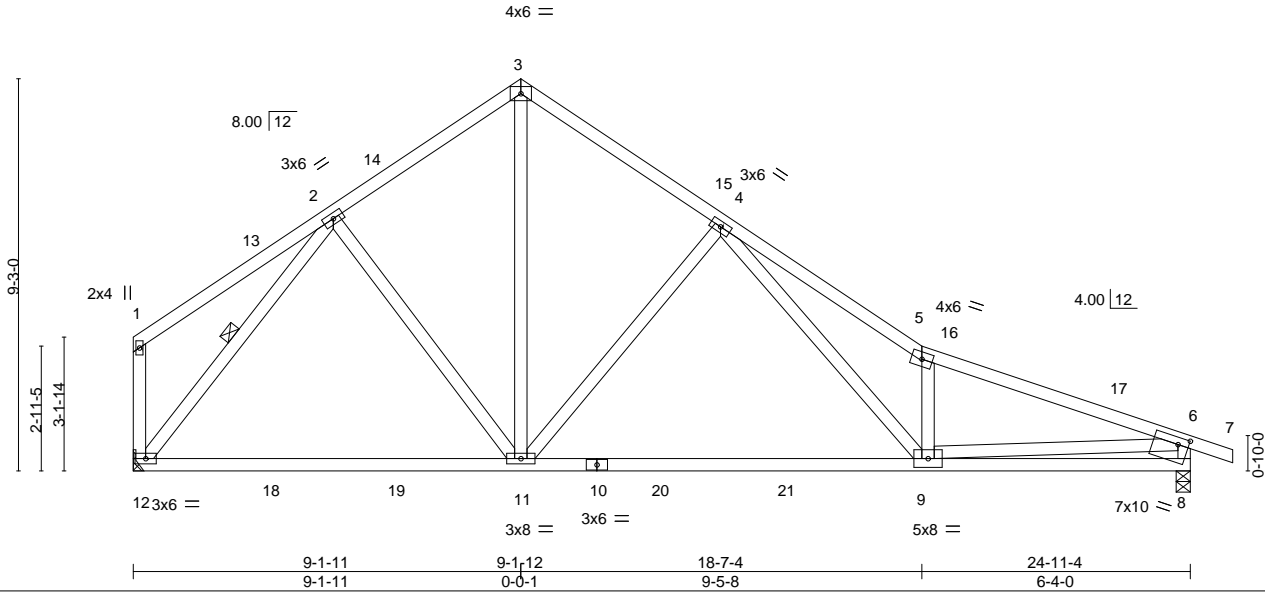


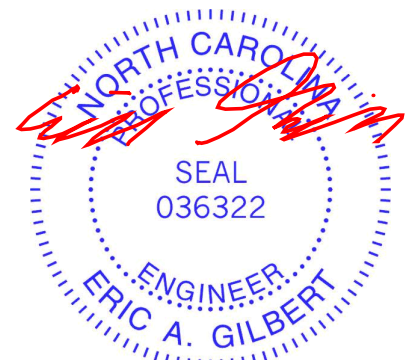
Plate Offsets (X,Y)--	[8:0-3-0,0-2-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.67	Vert(LL) -0.18 9-11 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.73	Vert(CT) -0.37 9-11 >804 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.65	Horz(CT) 0.03 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.05 9-11 >999 240	Weight: 154 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-7-7 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 6-8: 2x4 SP No.2	WEBS 1 Row at midpt 2-12

REACTIONS. (size) 12=Mechanical, 8=0-4-0
 Max Horz 12=-219(LC 8)
 Max Uplift 8=-6(LC 13)
 Max Grav 12=984(LC 1), 8=1056(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-869/110, 3-4=-880/116, 4-5=-2204/109, 5-6=-1929/29, 6-8=-998/106
 BOT CHORD 11-12=0/717, 9-11=0/1040, 8-9=-79/478
 WEBS 2-12=-961/52, 3-11=-51/678, 4-11=-609/117, 4-9=-15/1162, 5-9=-867/106, 6-9=0/1370

- 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 9-1-12, Exterior(2) 9-1-12 to 13-4-10, Interior(1) 13-4-10 to 25-11-4 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.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8.



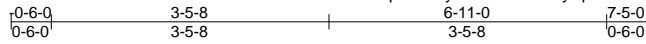
August 14, 2022

<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 GP16-R	Truss D01G	Truss Type GABLE	Qty 1	Ply 1	Herring-HawthornellA;Lot16 GriffinPointe 153632349
Builders FirstSource (Apex, NC), Apex, NC - 27523,					Job Reference (optional)

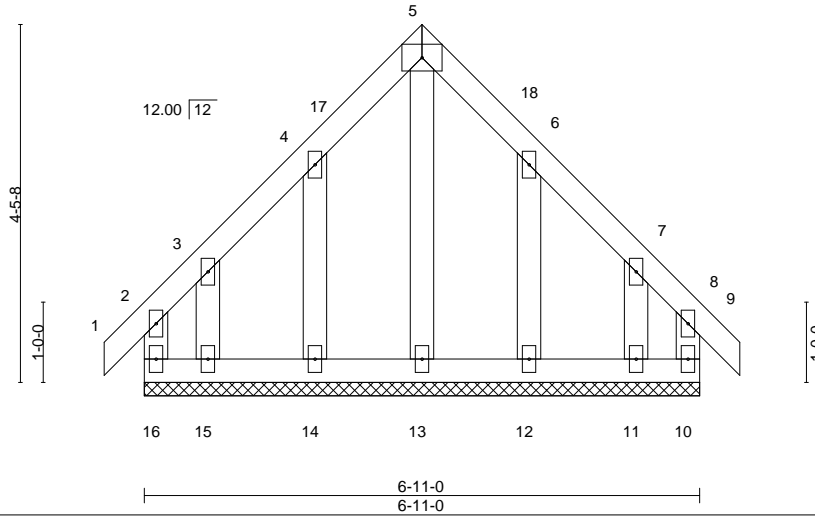
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4x6 =

Scale = 1:28.7



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 0.04	Vert(LL)	-0.00	8	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	8	n/r		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.04	Horz(CT)	0.00	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R					Weight: 46 lb	FT = 20%

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

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

REACTIONS. All bearings 6-11-0.
(lb) - Max Horz 16=101(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11
Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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) -0-6-0 to 2-6-0, Interior(1) 2-6-0 to 3-5-8, Exterior(2) 3-5-8 to 7-5-0 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 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) 16, 10, 14, 15, 12, 11.



August 14, 2022

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

Job GP16-R	Truss D02	Truss Type COMMON	Qty 1	Ply 1	Herring-Hawthornell A; Lot16 Griffin Pointe I53632350
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

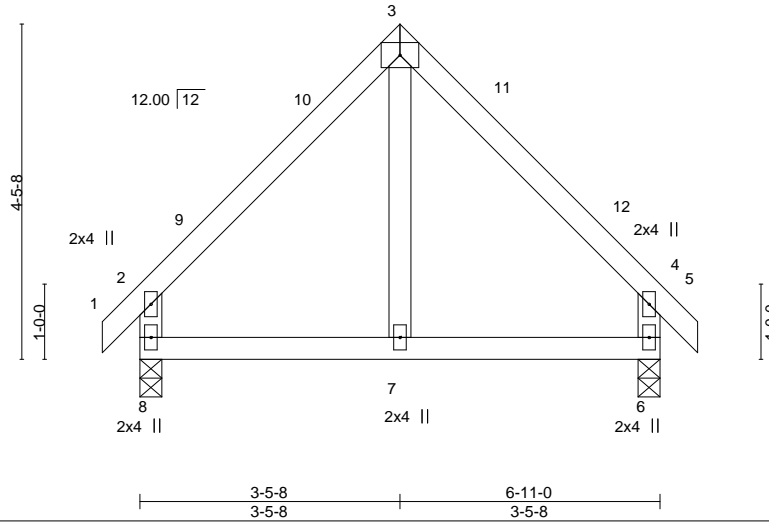
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4x6 =

Scale = 1:30.6



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 0.17	Vert(LL)	-0.00	7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	-0.01	7-8	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.05	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR	Wind(LL)	-0.00	7	>999		
								Weight: 35 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2 *Except*
 3-7: 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) 8=0-3-8, 6=0-3-8
 Max Horz 8=101(LC 11)
 Max Uplift 8=-5(LC 12), 6=-5(LC 13)
 Max Grav 8=304(LC 1), 6=304(LC 1)

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

TOP CHORD 2-8=-264/88, 4-6=-264/88

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) -0-6-0 to 2-6-0, Interior(1) 2-6-0 to 3-5-8, Exterior(2) 3-5-8 to 7-5-0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.



August 14, 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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 Edenton, NC 27932

Job GP16-R	Truss D03	Truss Type COMMON	Qty 1	Ply 1	Herring-HawthornellA;Lot16 GriffinPointe 153632351
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

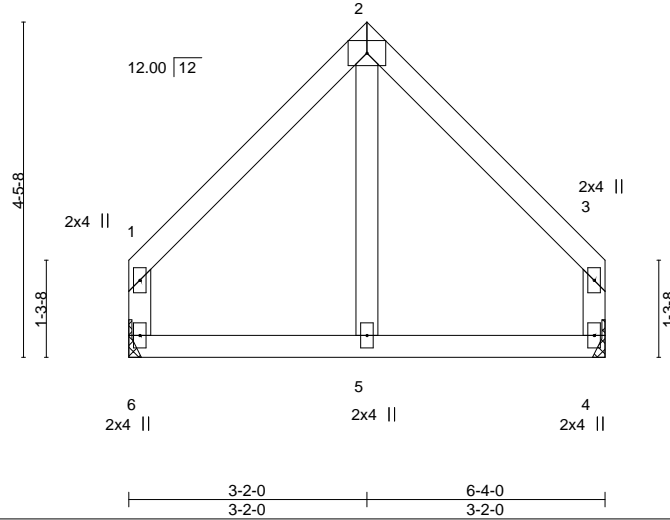
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4x6 =

Scale = 1:30.6



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 0.13	Vert(LL)	-0.01	5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.01	5	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.04	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR	Wind(LL)	-0.00	5-6	>999		
								Weight: 32 lb	FT = 20%

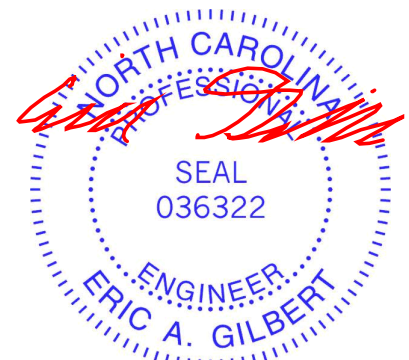
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2 *Except*
 2-5: 2x4 SP No.3

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) 6=Mechanical, 4=Mechanical
 Max Horz 6=91(LC 8)
 Max Uplift 6=6(LC 13), 4=6(LC 12)
 Max Grav 6=242(LC 1), 4=242(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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.



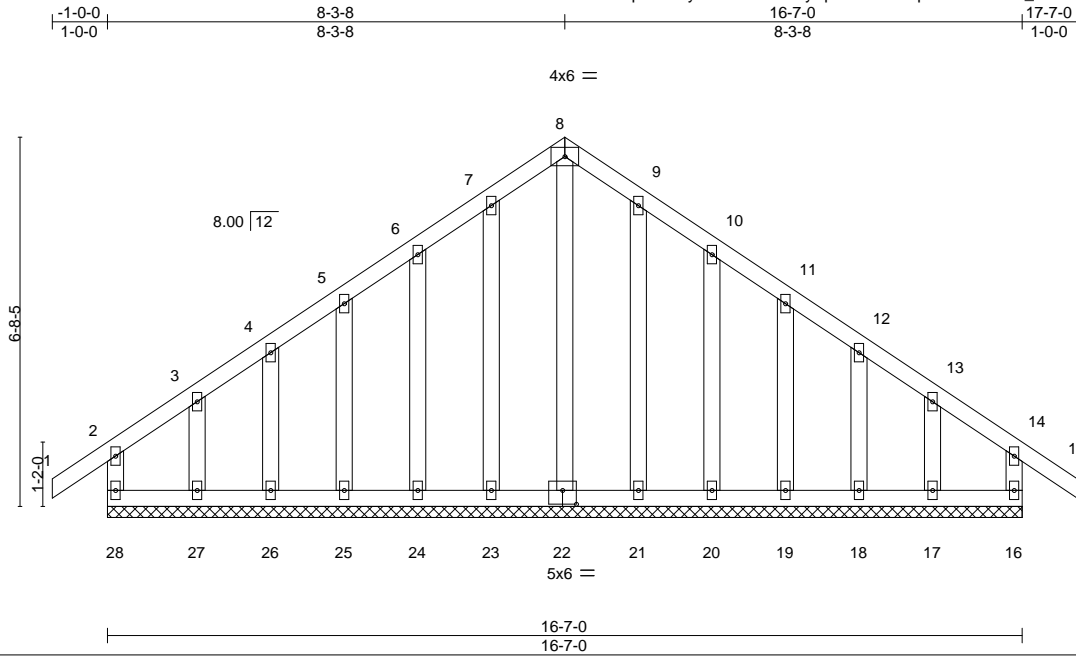
August 14, 2022

Job	Truss	Truss Type	Qty	Ply	Herring-HawthornellA;Lot16 GriffinPointe	I53632352
GP16-R	E01G	GABLE	1	1		
					Job Reference (optional)	

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

8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 08:12:06 2022 Page 1

ID:uRoupDdlS0y?Ys9U5ExY3eyXp7U-JEo6nepYsSuU5aohz_J30QxINw?e33RuN1YFzFyof?N



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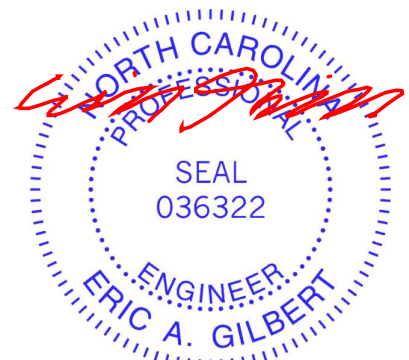
Plate Offsets (X,Y)--	[22:0-3-0,0-3-0]					PLATES	GRIP
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	-0.00	15	n/r
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.01	15	n/r
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.11	Horz(CT)	0.00	16	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R				
						Weight: 121 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.2	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 16-7-0.
 (lb) - Max Horz 28=149(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 28, 16, 23, 24, 25, 26, 27, 21, 20, 19, 18, 17
 Max Grav All reactions 250 lb or less at joint(s) 28, 16, 22, 23, 24, 25, 26, 27, 21, 20, 19, 18, 17

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; 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) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 8-3-8, Corner(3) 8-3-8 to 11-3-8, Exterior(2) 11-3-8 to 17-7-0 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
 - 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, 16, 23, 24, 25, 26, 27, 21, 20, 19, 18, 17.



August 14, 2022

Job GP16-R	Truss J01G	Truss Type GABLE	Qty 1	Ply 1	Herring-HawthornellA;Lot16 GriffinPointe 153632353
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 08:12:07 2022 Page 1

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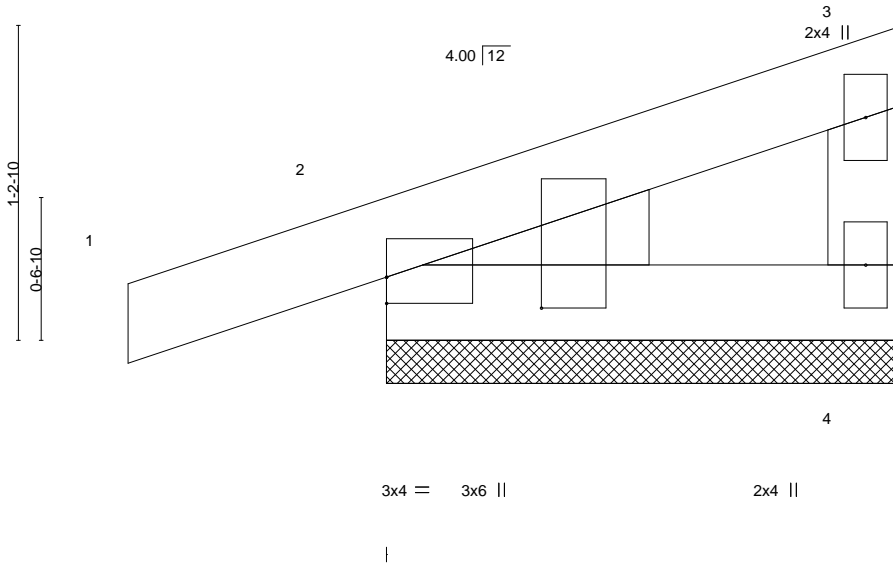


Plate Offsets (X,Y)--	[2:0-0-0,0-1-3], [2:0-1-7,0-7-3]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) 0.00 1 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) -0.00 1 n/r 120		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 10 lb	FT = 20%

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

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

REACTIONS. (size) 2=2-0-0, 4=2-0-0
 Max Horz 2=31(LC 9)
 Max Uplift 2=-40(LC 8), 4=-6(LC 12)
 Max Grav 2=150(LC 1), 4=58(LC 1)

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) 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 2-0-0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



August 14, 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 GP16-R	Truss J02	Truss Type MONO TRUSS	Qty 1	Ply 1	Herring-Hawthornell A; Lot 16 Griffin Pointe 153632354
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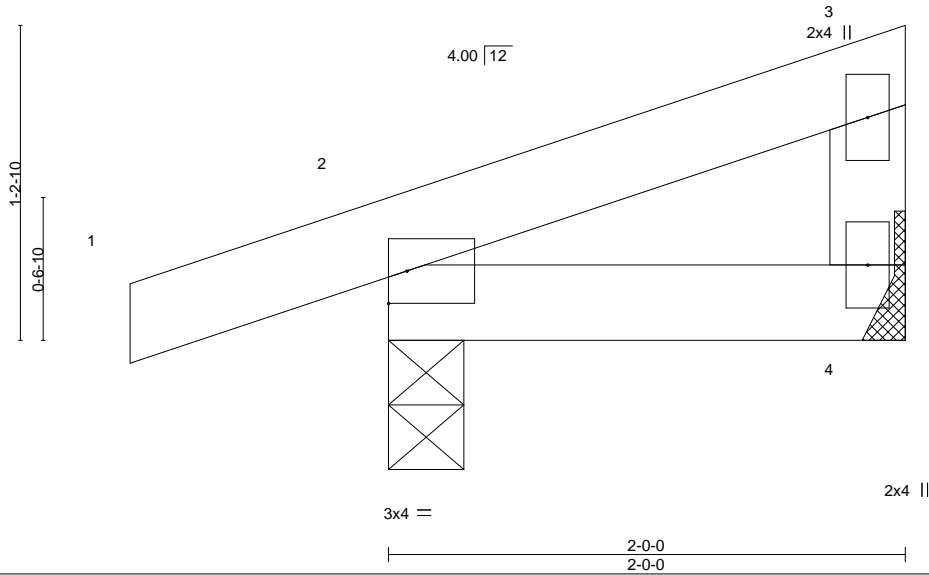
Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 08:12:08 2022 Page 1
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Scale = 1:8.9



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 0.08	Vert(LL)	-0.00	7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	7	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00	2	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.00	7	>999		
								Weight: 9 lb	FT = 20%

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

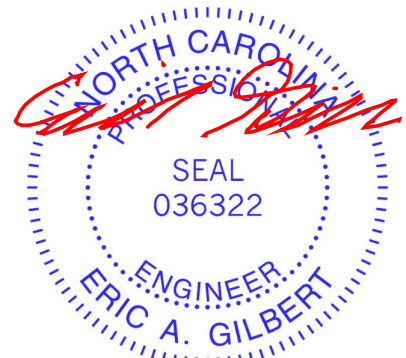
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 4=Mechanical
 Max Horz 2=32(LC 11)
 Max Uplift 2=-40(LC 8), 4=-6(LC 12)
 Max Grav 2=150(LC 1), 4=58(LC 1)

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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



August 14, 2022

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

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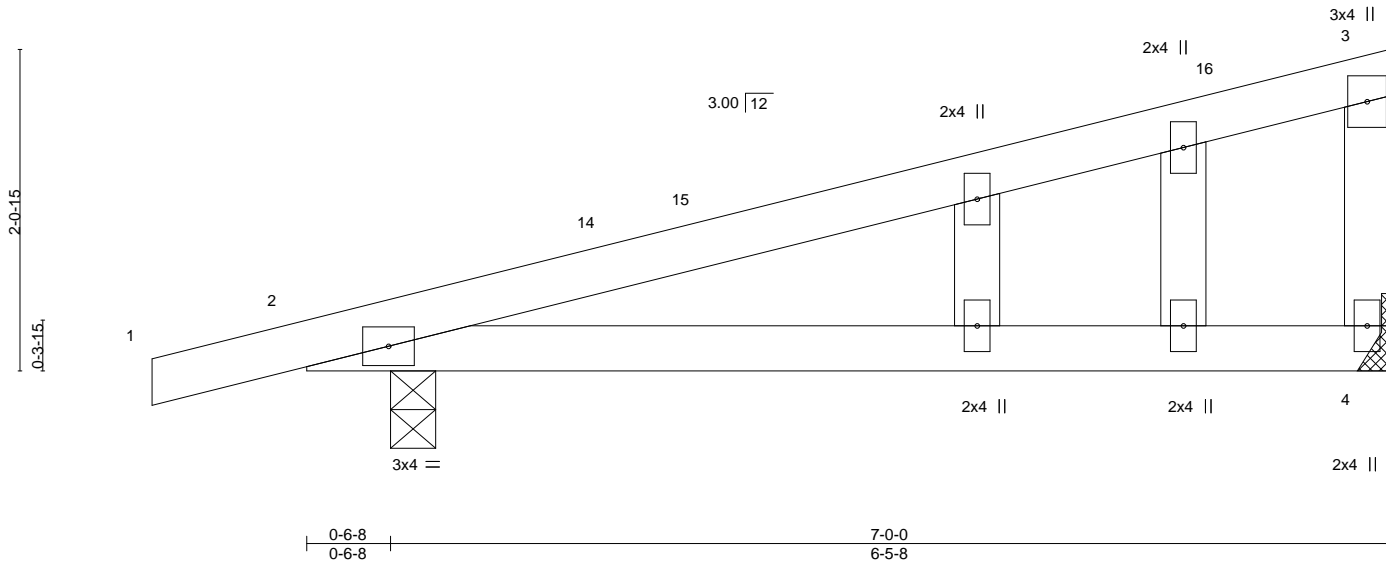
818 Soundside Road
 Edenton, NC 27932

Job GP16-R	Truss P01G	Truss Type GABLE	Qty 1	Ply 1	Herring-HawthornellA;Lot16 GriffinPointe 153632355
Builders FirstSource (Apex, NC), Apex, NC - 27523,					Job Reference (optional)

8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 08:12:09 2022 Page 1
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Scale = 1:14.9



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 0.51	Vert(LL)	-0.04	4-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.36	Vert(CT)	-0.10	4-13	>807		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00	2	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.03	4-13	>999	Weight: 28 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

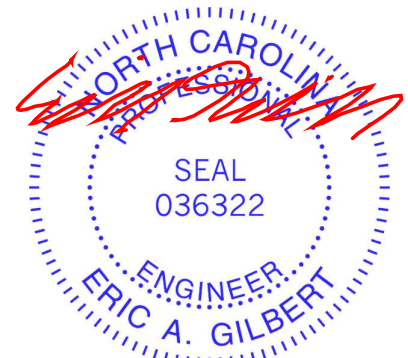
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8
 Max Horz 2=60(LC 11)
 Max Uplift 4=-20(LC 8), 2=-56(LC 8)
 Max Grav 4=241(LC 1), 2=368(LC 1)

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; TCCL=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 6-10-4 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) 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 studs spaced at 1-4-0 oc.
- 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



August 14, 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 GP16-R	Truss P02	Truss Type MONO TRUSS	Qty 1	Ply 1	Herring-HawthornellA;Lot16 GriffinPointe Job Reference (optional)	I53632356
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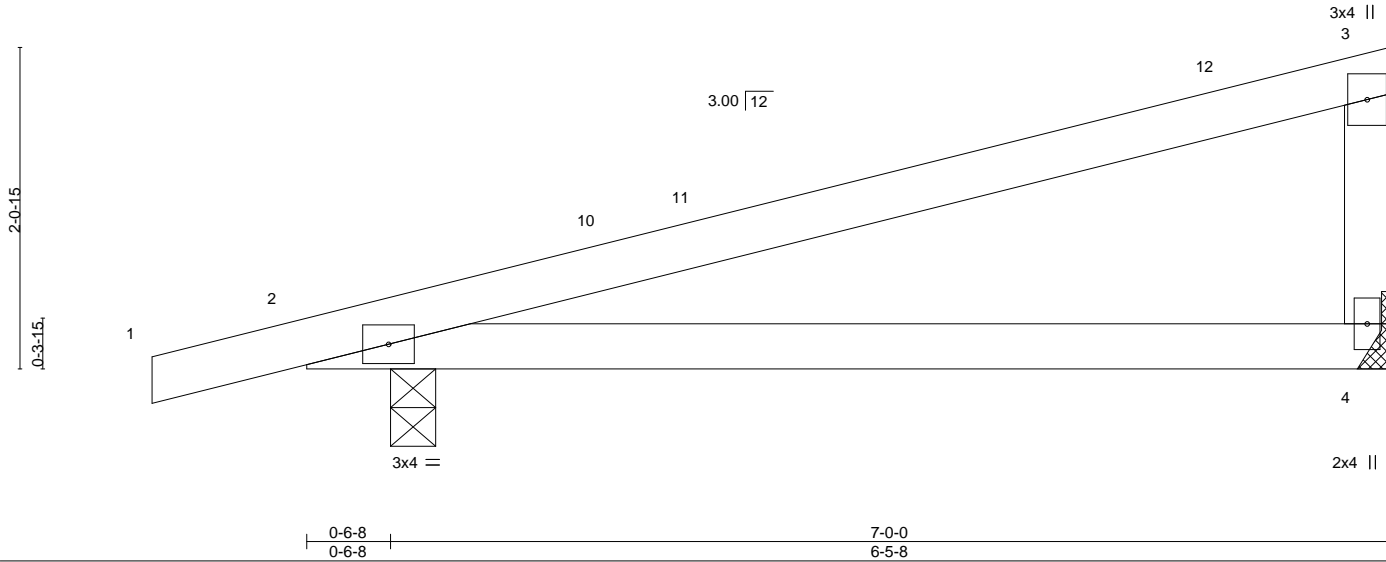
Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 08:12:10 2022 Page 1

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Scale = 1:14.9



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.51	Vert(LL)	-0.04	4-9	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.36	Vert(CT)	-0.10	4-9	>807		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	2	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Wind(LL)	0.03	4-9	>999		
	Code IRC2015/TPI2014						Weight: 25 lb	FT = 20%

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

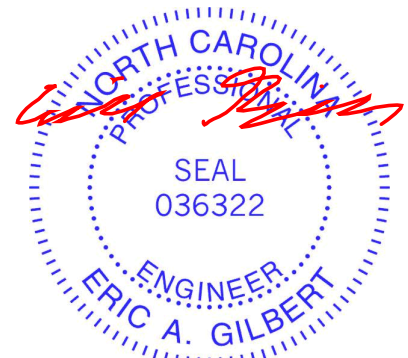
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8
 Max Horz 2=60(LC 11)
 Max Uplift 4=20(LC 8), 2=56(LC 8)
 Max Grav 4=241(LC 1), 2=368(LC 1)

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; TC DL=6.0psf; BC DL=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 6-10-4 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



August 14, 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



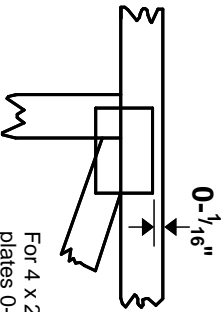
818 Soundside Road
 Edenton, NC 27932

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/TP1: 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/TP1 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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.