

Carter Sanford Component Plant 298 Harvey Faulk Rd Sanford, NC 27332

Phone #:919-775-1450

Builder: DR Horton Inc

Model: Galen E STY GLH



THE PLACEMENT PLAN NOTES:

1. The Placement Plan is a diagram for truss installation. It is not an engineered drawing and has not been reviewed by an engineer. The Owner/Building Designer is responsible for obtaining an engineer's review if one is required by the local jurisdiction.

2. The responsibilities of the Owner, Contractor, Building Designer, Component Designer and Component Manufacturer shall be as set forth in ANSI/TPI 1. Capitalized terms shall be as defined in ANSI/TP 1 unless otherwise indicated.

3. Each Component is designed as an individual component utilizing information provided by others. The Owner/Building Designer is responsible for reviewing all Component Submittal Packages and individual Component Design Drawings for compliance with the Construction Documents and compatibility with the overall Building design.

4. Contractor will not proceed with component installation until the Owner/Building Designer has reviewed the Component Submittal Package. Questions on the suitability of any Component will be resolved by the Building Designer.

5. The Building Designer and Contractor are responsible for all temporary and permanent bracing.

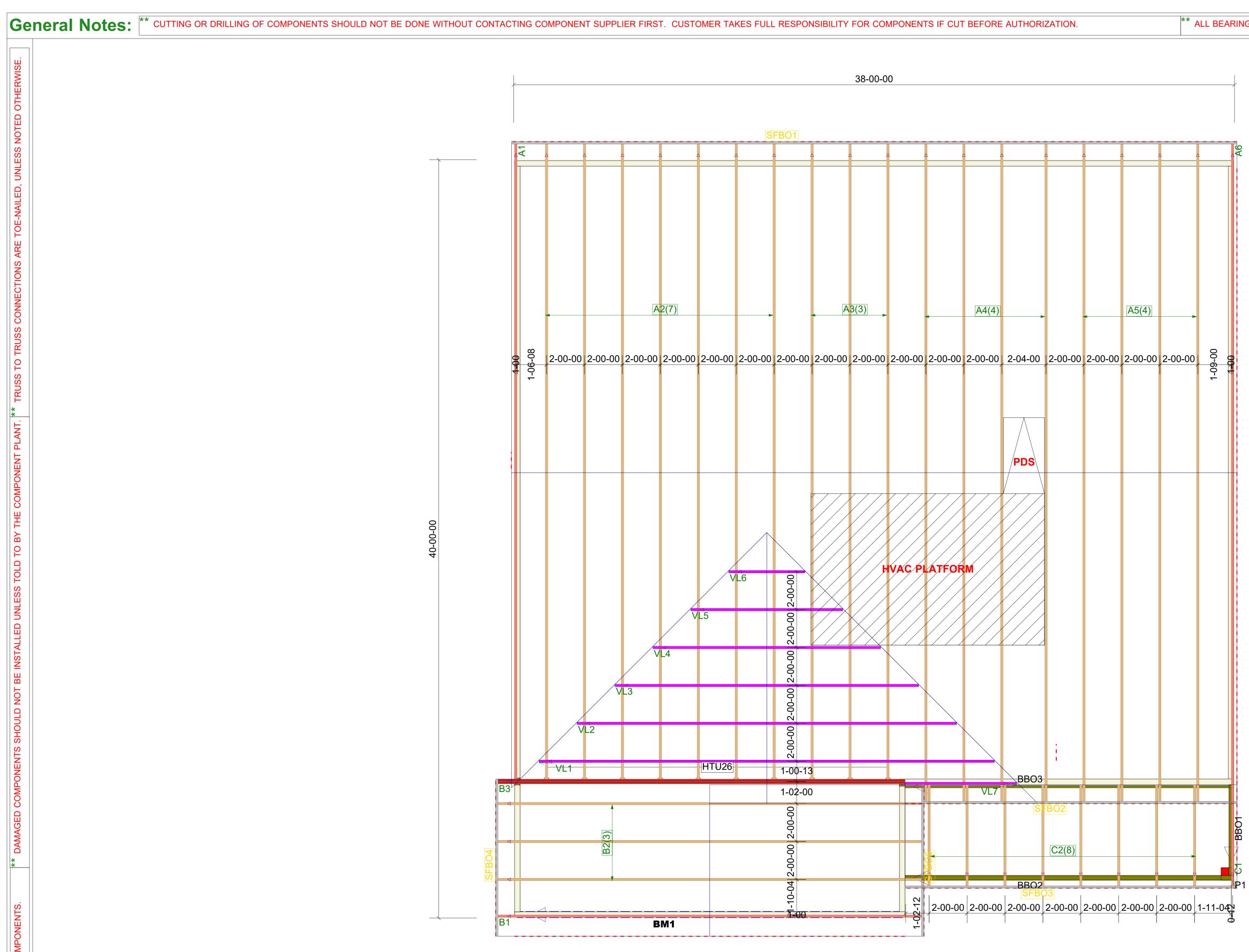
6. The Placement Plan assumes the building is dimensionally correct, structurally sound, and in a suitable condition to support each Component during installation and thereafter, including but not limited to installation of all bearing points. Proper design and construction of all structural components, including foundations, headers, beams, walls and columns are the responsibility of the Owner, Building Designer and Contractor.

7. Do not cut, drill, or modify any Component without first consulting the Component Manufacturer or Building Designer. Damaged Components shall not be installed unless directed by the Building Designer or approved by the Component Manufacturer.

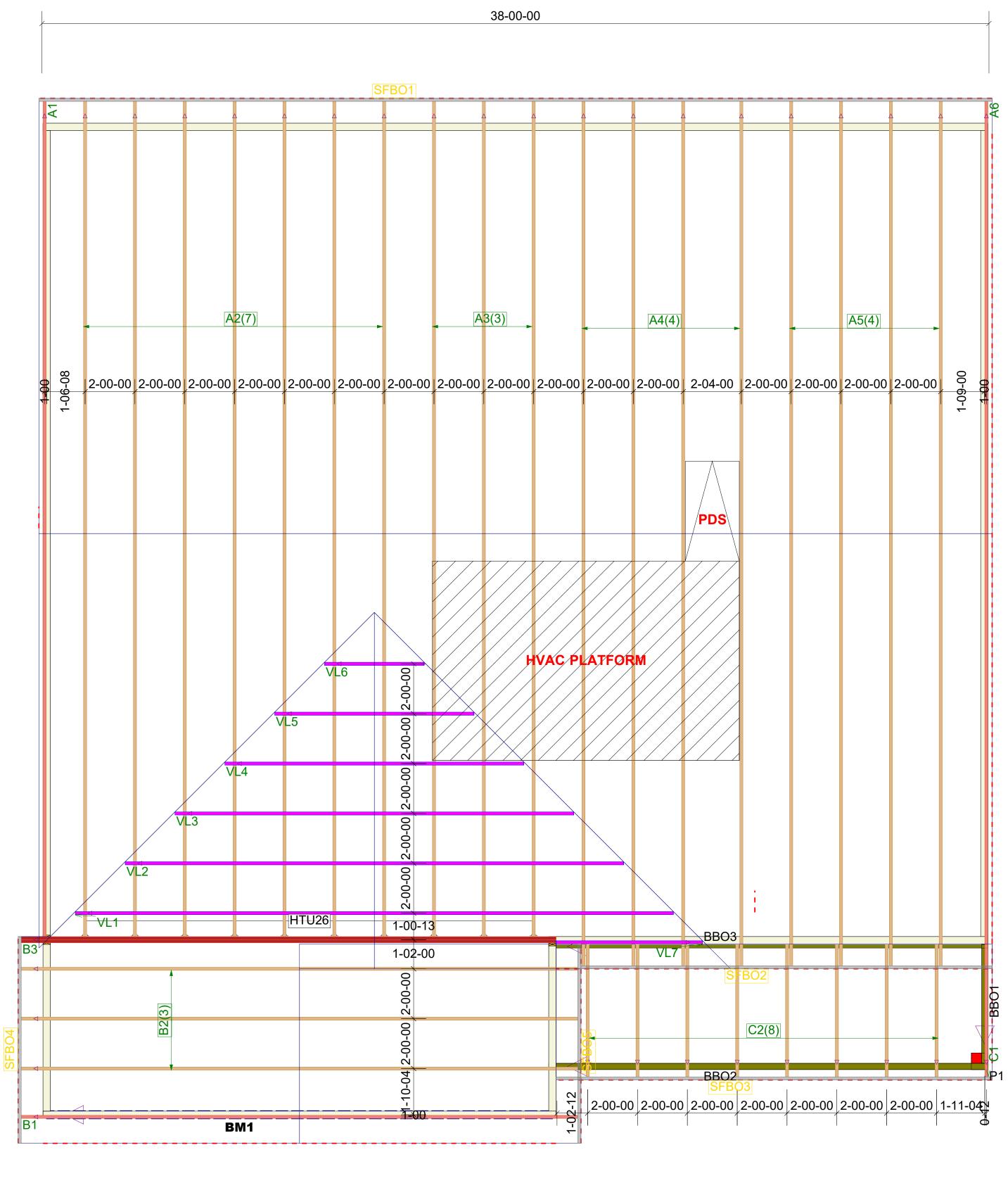
8. Components must be handled and installed following all applicable safety standards and best practices, including but not limited to BCSI, OSHA, TPI and local codes. Failure to properly handle, brace or otherwise install Component can result in serious injury or death. 9. All uplift connectors shown within these documents are recommendations only. Per ANSI/TPI 1, all uplift connectors are the responsibility of the building designer and or contractor.

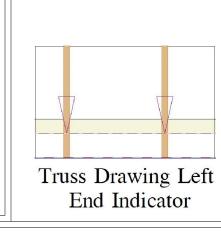
Approved By: _____

Date: _____









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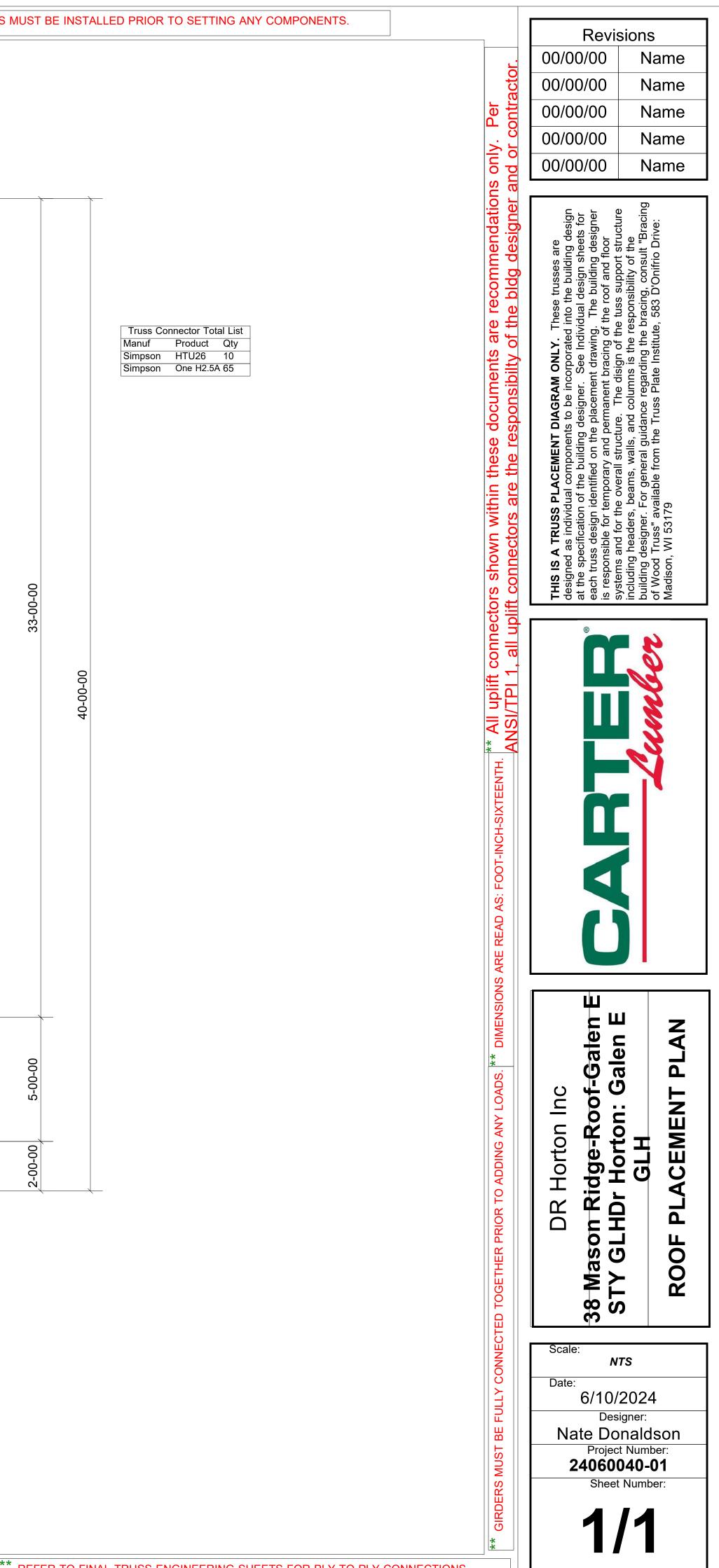
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17-04-00 20-08-00 38-00-00

** PLUMBING DROPS NOTED ARE IN THE APPROXIMATE LOCATIONS PER PLAN. BUILDER TO VERIFY LOCATIONS BEFORE SETTING TRUSSES.



** REFER TO FINAL TRUSS ENGINEERING SHEETS FOR PLY TO PLY CONNECTIONS.



Trenco 818 Soundside Rd Edenton, NC 27932

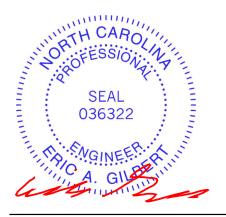
Re: 24060040-01 38 Mason Ridge-Roof-Galen E STY GLH

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

Pages or sheets covered by this seal: I66139398 thru I66139415

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



June 11,2024

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	38 Mason Ridge-Roof-Galen E STY GLH	
24060040-01	A1	Common Supported Gable	1	1	Job Reference (optional)	166139398

WEBS

WEBS

OTHERS

BRACING

TOP CHORD

BOT CHORD

REACTIONS (size)

2x4 SP No.3

2x4 SP No.3

bracing.

1 Row at midpt

Structural wood sheathing directly applied or

11-30

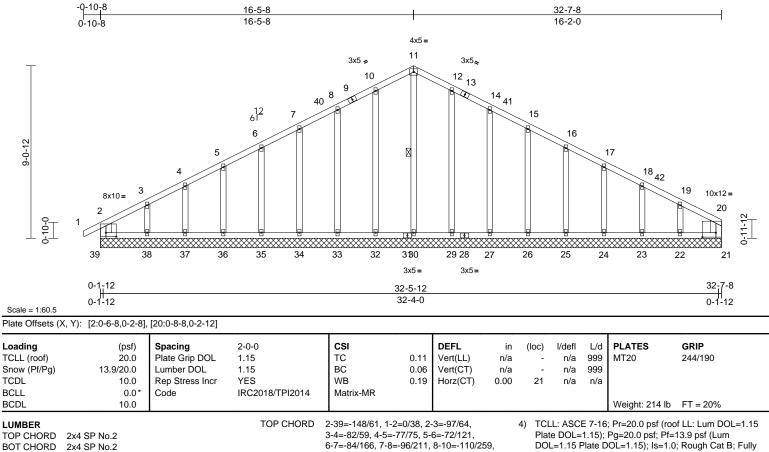
21=32-7-8, 22=32-7-8, 23=32-7-8,

24=32-7-8, 25=32-7-8, 26=32-7-8,

6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Mon Jun 10 11:13:05 ID:fFaWlyRB4ATfbQCueKrxP9yWzcS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



10-11=-125/300, 11-12=-125/300,

17-18=-60/75, 18-19=-56/33, 19-20=-68/25,

38-39=-29/74, 37-38=-29/74, 36-37=-29/74,

35-36=-29/74, 34-35=-29/74, 33-34=-29/74,

32-33=-29/74, 30-32=-29/74, 29-30=-29/74,

27-29=-29/74, 26-27=-29/74, 25-26=-29/74,

24-25=-29/74, 23-24=-29/74, 22-23=-29/74,

12-14=-110/259. 14-15=-96/211.

15-16=-84/166, 16-17=-72/121,

20-21 = -66/4

BOT CHORD

DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10 5) Unbalanced snow loads have been considered for this

desian. 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on

Page: 1

overhangs non-concurrent with other live loads.

All plates are 2x4 MT20 unless otherwise indicated.

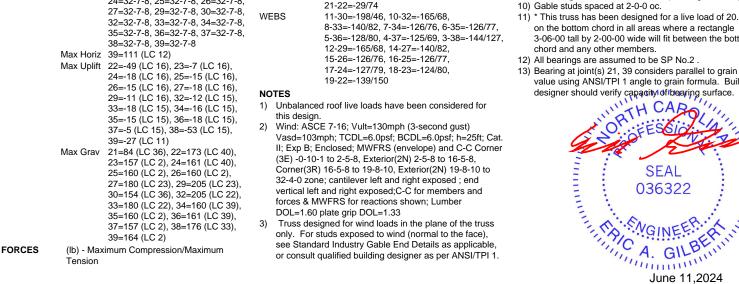
8) Gable requires continuous bottom chord bearing.

9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web). 10) Gable studs spaced at 2-0-0 oc.

* This truss has been designed for a live load of 20.0psf

on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

value using ANSI/TPI 1 angle to grain formula. Building



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Continued on page 2 Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 bilding 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	38 Mason Ridge-Roof-Galen E STY GLH	
24060040-01	A1	Common Supported Gable	1	1	Job Reference (optional)	166139398

- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 39, 12 lb uplift at joint 32, 18 lb uplift at joint 33, 16 lb uplift at joint 34, 15 lb uplift at joint 35, 18 lb uplift at joint 36, 5 lb uplift at joint 37, 53 lb uplift at joint 38, 11 lb uplift at joint 29, 18 lb uplift at joint 27, 15 lb uplift at joint 26, 15 lb uplift at joint 25, 18 lb uplift at joint 24, 7 lb uplift at joint 23 and 49 lb uplift at joint 22.
- 15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

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Page: 2

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Job	Truss	Truss Type	Qty	Ply	38 Mason Ridge-Roof-Galen E STY GLH	
24060040-01	A2	Common	7	1	Job Reference (optional)	166139399

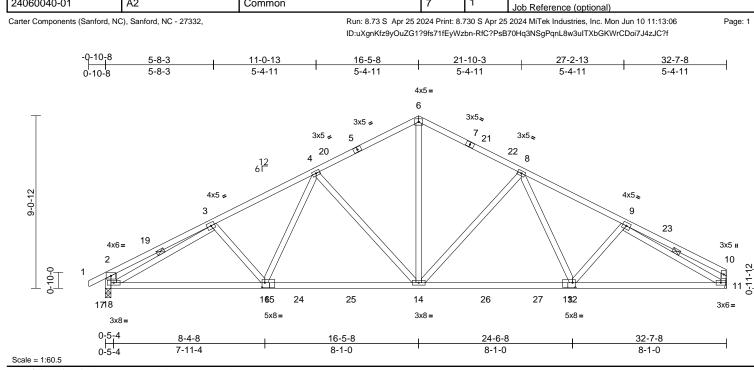


Plate Offsets (X, Y): [12:0-1-12,0-3-0], [15:0-1-12,0-3-0]

Loading (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 13.9/20.0 TCDL 10.0 BCLL 0.0* BCDL 10.0	Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES IRC2018	8/TPI2014	CSI TC BC WB Matrix-MSH	0.76 0.90 0.80	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.18 -0.31 0.10	(loc) 12-14 12-14 11	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 191 lb	GRIP 244/190 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 OTHERS 2x4 SP No.3 BRACING TOP CHORD Structural wood shear 3-7-4 oc purlins, exc BOT CHORD Rigid ceiling directly a bracing. WEBS 1 Row at midpt 3 REACTIONS (size) 11= Mechar Max Horiz 18=106 (Lf Max Grav 11=1415 (I FORCES (Ib) - Maximum Comp Tension TOP CHORD 1-2=0/43, 2-3=-950/1 4-6=-1796/237, 6-8=- 8-9=-2387/222, 9-10= 10-11=-314/71 BOT CHORD 16-17=-156/2154, 14 12-14=-88/1891, 11-1 WEBS 6-14=-85/1250, 8-14=	xept end verticals. applied or 10-0-0 oc 3-17, 9-11 anical, 18=0-3-8 C 14) LC 3), 18=1455 (LC 3 pression/Maximum 135, 3-4=-2436/220, -1795/237, =-418/65, 2-17=-5/997 I-16=-100/1917, 12=-153/2098 =-604/127, 8-12=0/40 =-641/129, 4-16=0/45 =-1634/88, 8=-1731/180	or 3) 4) 5) 7, 6) 7, 6) 7, 9) 10	Vasd=103mp II; Exp B; En Exterior(2E) Exterior(2E) 32-5-12 zone vertical left a forces & MW DOL=1.60 pl TCLL: ASCE Plate DOL=1 DOL=1.15 P Exp.; Ce=0.5 Unbalanced design. This truss ha load of 12.0 overhangs n * This truss ha load of 12.0 overhangs n e the bottor 3-06-00 tall b chord and ar Bearings are Refer to gird Bearing at jo using ANSI/1 designer shoc) This truss is International	7-16; Vult=130m, oh; TCDL=6.0ps; closed; MWFRS (-0-10-1 to 2-5-1, 1 16-5-8 to 19-8-10 e; cantilever left FRS for reactions ate grip DOL=1.3 7-16; Pr=20.0 ps 15); Pg=20.0 ps 15); Pg=20.0 ps 15); Pg=20.0 ps 15); Cs=1.00; Ct=1. snow loads have s been designed psf or 2.00 times 1 on-concurrent with as been designed psf or 2.00 times 1 on-concurrent with as been designed psf or 12.00 times 1 on-concurrent with as been designed psf or truss to trint(s) 18 consider TPI 1 angle to grai uld verify capacity designed in accor Residential Code do referenced stai Standard	BCDL=6 envelope nterior (1,) Interior ch right e C-C for n shown; 3 f (roof LL ; Pf=13.9 =1.0; Rc 0 been cor for greate lat roof lo to ther list for a greate lat roof lo to the rest of so a list s where ill fit betw, with BC loint 18 S uss connus s parallel n formula v of beari dance w sections	.0psf; h=25ft e) and C-C) 2-5-1 to 16 (1) 19-8-10 t xposed; enc nembers and Lumber :: Lum DOL= 9 psf (Lum bugh Cat B; F usidered for th er of min roof pad of 13.9 p re loads of 13.9 p re loads of 20.0 a rectangle veen the bott DL = 10.0psi SP No.3. tections. to grain valu a. Building ng surface. ith the 2018 R502.11.1 a	-5-8, o d l 1.15 Fully his f live sf on 0psf om f.			Ż	SEA 0363	



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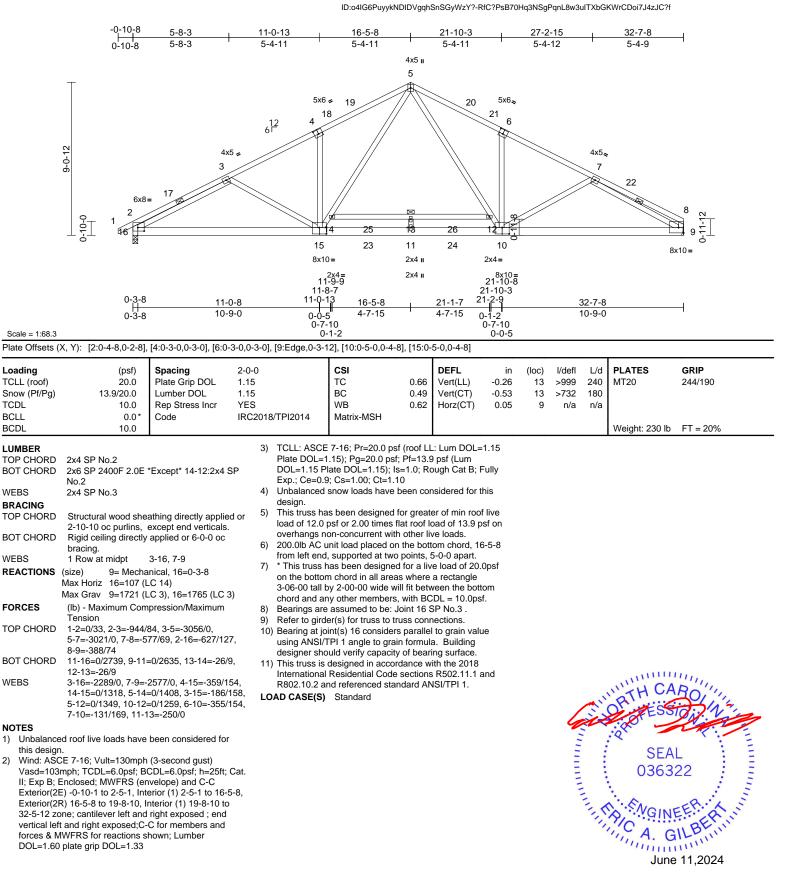
June 11,2024

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Job	Truss	Truss Type	Qty	Ply	38 Mason Ridge-Roof-Galen E STY GLH	
24060040-01	A3	Common	3	1	Job Reference (optional)	166139400

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Job	Truss	Truss Type	Qty	Ply	38 Mason Ridge-Roof-Galen E STY GLH	
24060040-01	A4	Common	4	1	Job Reference (optional)	166139401

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- BOT CHORD 18-19=0/2768, 15-18=0/1935, 11-15=0/1935, 9-11=0/2813, 14-17=-51/0, 13-14=-51/0 WEBS 3-19=-2341/0, 4-18=-360/154, 17-18=0/1321, 5-17=0/1431, 3-18=-183/159, 5-13=0/1400, 11-13=0/1289, 6-11=-392/155, 7-11=-223/146, 14-15=-244/0
- NOTES

TCDL

BCLL

BCDL

- Unbalanced roof live loads have been considered for 1) this design.
- SP No.2 10) Bearing at joint(s) 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface

on the bottom chord in all areas where a rectangle

* This truss has been designed for a live load of 20.0psf

3-06-00 tall by 2-00-00 wide will fit between the bottom

Bearings are assumed to be: Joint 19 SP No.3, Joint 9

chord and any other members, with BCDL = 10.0psf.

- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S) Standard

8)

9)

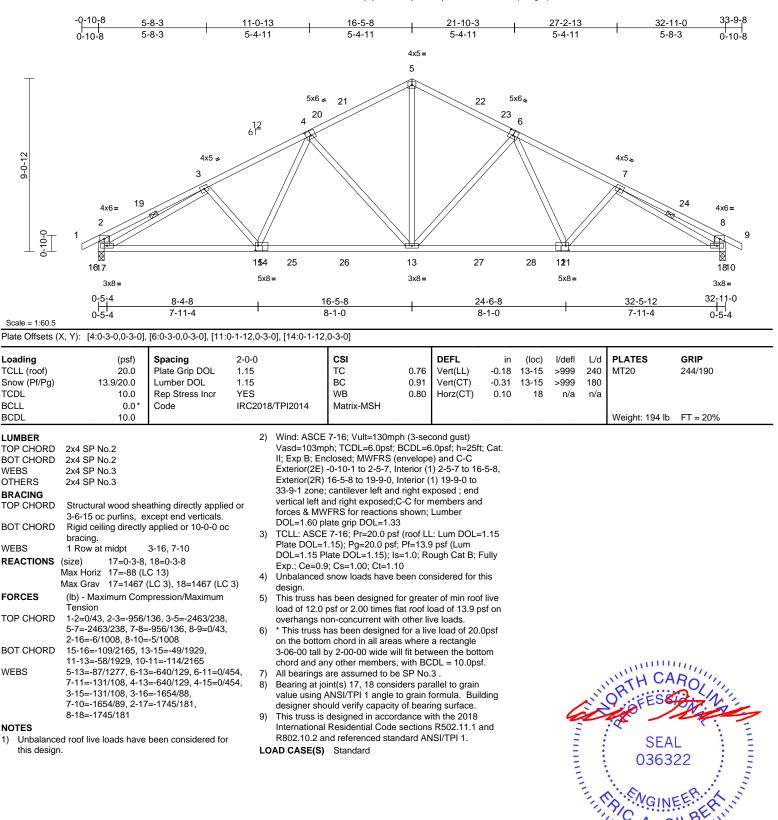


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Job	Truss	Truss Type	Qty	Ply	38 Mason Ridge-Roof-Galen E STY GLH	
24060040-01	A5	Common	4	1	Job Reference (optional)	166139402

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1) Unbalanced roof live loads have been considered for this design.

LOAD CASE(S) Standard

R802.10.2 and referenced standard ANSI/TPI 1.



GI minin June 11,2024

SEAL

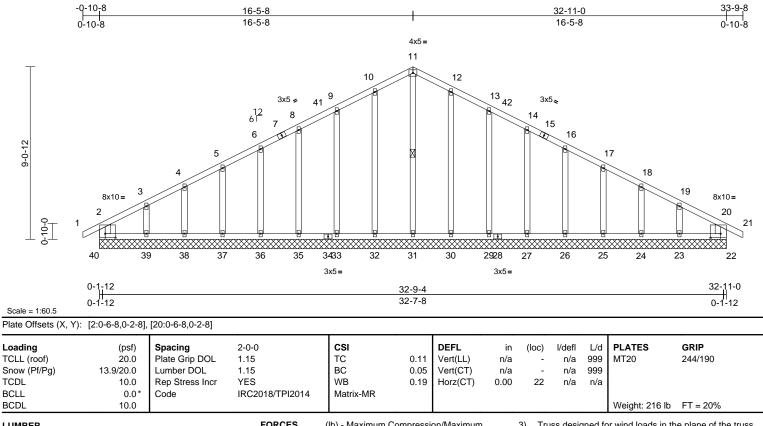
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Job	Truss	Truss Type	Qty	Ply	38 Mason Ridge-Roof-Galen E STY GLH	
24060040-01	A6	Common Supported Gable	1	1	Job Reference (optional)	166139403

Continued on page 2

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Mon Jun 10 11:13:07 ID:aJ8ZYmZ8VrTg3lspphNlzAyWzQg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



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6-0-0 c BOT CHORD Rigid c bracing WEBS 1 Row REACTIONS (size) Max Hor Max Upl	No.2 No.3 No.3 ral wood sheathing directly applied or c purlins, except end verticals. eiling directly applied or 6-0-0 oc	this design 2) Wind: ASC Vasd=103 II; Exp B; 1 (3E) -0-10 Corner(3R 33-9-1 zor vertical lef forces & M	(b) - Maximum Compression/Maximum Tension 2-40=-142/59, 1-2=0/38, 2-3=-90/61, 3-4=-75/55, 4-5=-70/72, 5-6=-66/119, 6-8=-78/164, 8-9=-89/209, 9-10=-105/256, 10-11=-122/297, 11-12=-122/297, 12-13=-105/256, 13-14=-89/209, 14-16=-78/164, 16-17=-66/119, 17-18=-54/73, 18-19=-54/33, 19-20=-73/30, 20-21=0/38, 20-22=-141/56 39-40=-28/95, 38-39=-28/95, 33-35=-28/95, 36-37=-28/95, 27-29=-28/95, 30-31=-28/95, 32-33=-28/95, 27-29=-28/95, 20-31=-28/95, 25-26=-28/95, 27-29=-28/95, 23-24=-28/95, 22-23=-28/95 11-31=-195/47, 10-32=-165/68, 9-33=-140/82, 8-35=-126/76, 6-36=-126/77, 5-37=-128/80, 4-38=-124/69, 3-39=-144/128, 12-30=-165/68, 13-29=-140/82, 14-27=-126/76, 16-26=-126/77, 17-25=-127/80, 18-24=-124/69, 19-23=-142/129 ed roof live loads have been considered for back to the toold the tool of the to		only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15) Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10 Unbalanced snow loads have been considered for this design. This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads. All plates are 2x4 MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing.

June 11,2024

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Job	Truss	Truss Type	Qty	Ply	38 Mason Ridge-Roof-Galen E STY GLH	
24060040-01	A6	Common Supported Gable	1	1	Job Reference (optional)	166139403
Carter Components (Sanford, No	C), Sanford, NC - 27332,	Run: 8.73 S Apr 25 2	Page: 2			

ID:aJ8ZYmZ8VrTg3IspphNlzAyWzQg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Carter Components (Sanford, NC), Sanford, NC - 27332,

12) All bearings are assumed to be SP No.2.

- Bearing at joint(s) 40, 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 40, 3 lb uplift at joint 22, 12 lb uplift at joint 32, 18 lb uplift at joint 33, 16 lb uplift at joint 35, 15 lb uplift at joint 36, 18 lb uplift at joint 37, 5 lb uplift at joint 38, 52 lb uplift at joint 39, 11 lb uplift at joint 30, 18 lb uplift at joint 29, 15 Ib uplift at joint 27, 15 lb uplift at joint 26, 18 lb uplift at joint 25, 7 lb uplift at joint 24 and 45 lb uplift at joint 23.
- 15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

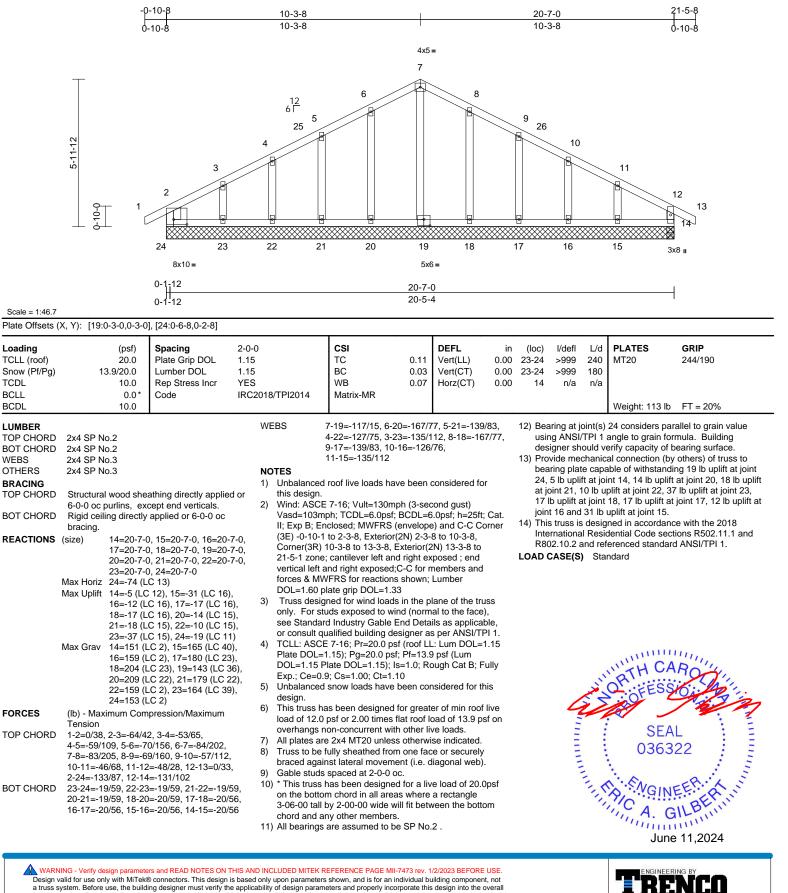
LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	38 Mason Ridge-Roof-Galen E STY GLH	
24060040-01	B1	Common	1	1	Job Reference (optional)	166139404

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Mon Jun 10 11:13:07 ID:yihlioUFIONG0axA3tCpNUyWzOC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



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 **ANSUTPI Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

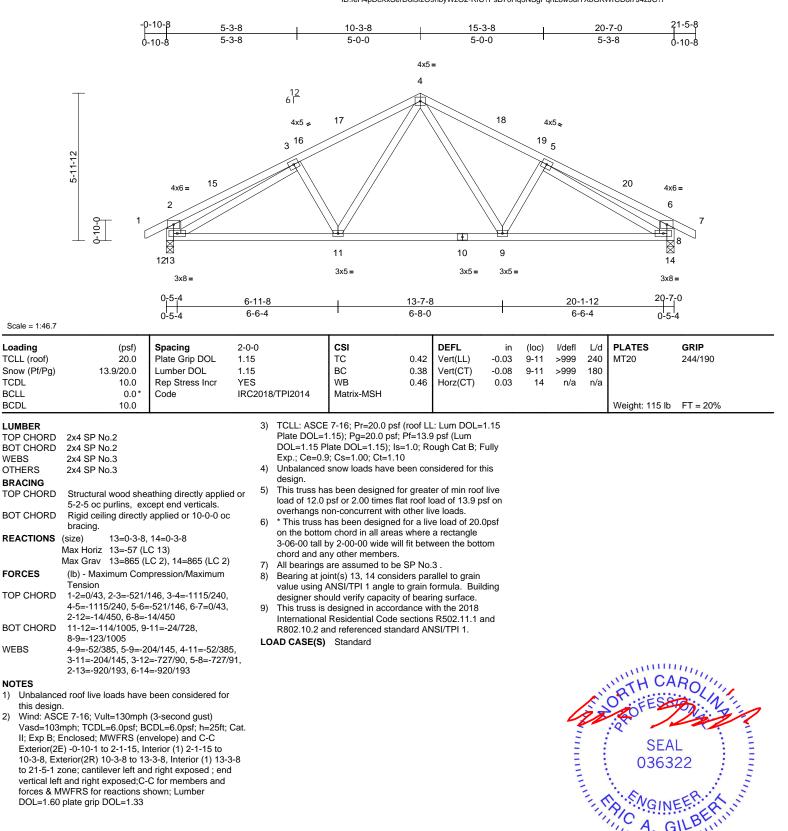


Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	38 Mason Ridge-Roof-Galen E STY GLH	
24060040-01	B2	Common	3	1	Job Reference (optional)	166139405

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Mon Jun 10 11:13:08 ID:feH4pDcXxSerD6i5fzO9nbyWzO2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

B Page: 1



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Edenton, NC 27932

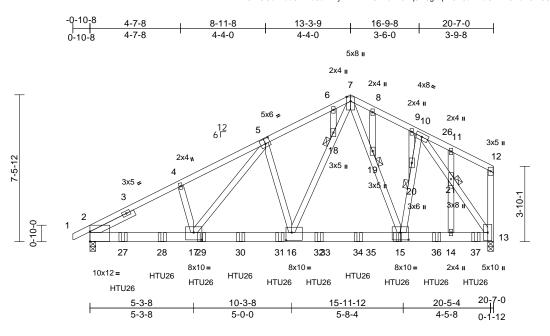
June 11,2024

Job	Truss	Truss Type	Qty	Ply	38 Mason Ridge-Roof-Galen E STY GLH		
24060040-01	B3	Common Girder	1	2	Job Reference (optional)	166139406	

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Mon Jun 10 11:13:08 ID:PH46WGGu4LebO2ime9u7nByWzPn-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

INFEDING

818 Soundside Road Edenton, NC 27932



Scale = 1:58.8

Plate Offsets ((X, Y): [2:Edge,0-6-1],	[5:0-3-0,0-3-0], [15:	0-5-0,0-4-	8], [16:0-3-8,0-	4-12], [17:0-5-0,0-4	4-8]								
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-MSH	0.98 0.76 0.86	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.16 -0.30 0.05	(loc) 16-17 16-17 13	l/defl >999 >815 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 332 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS SLIDER BRACING TOP CHORD BOT CHORD JOINTS	2x6 SP 2400F 2.0E 2x4 SP No.3 *Excep SP No.2, 13-12:2x4 2x4 SP No.3 Left 2x4 SP No.3 2 Structural wood she 1-11-14 oc purlins,	t* 16-7,15-10,13-10 SP No.1 2-6-0 athing directly applie except end verticals	1) 2x4 ed or 2)	(0.131"x3") r Top chords c oc. Bottom chorr staggered at Web connec All loads are except if note CASE(S) ser provided to c	b be connected tog nails as follows: connected as follow ds connected as follow ds connected as follows: 2x4 considered equally ed as front (F) or b ction. Ply to ply cor distribute only loads wise indicated.	vs: 2x4 llows: 2 - 1 row y applie ack (B) nnection	- 1 row at 0-9 x6 - 2 rows at 0-9-0 oc. d to all plies, face in the L0 s have been	DAD	loa ove 9) Ga 10) * T on 3-0 cho 11) Bea Joi 12) Bea usi	d of 12.0 erhangs ble studs his truss the botto 6-00 tall ord and a arings ar ht 13 SP aring at j ng ANSI) psf or non-co s space has be om cho by 2-0 any oth re assu ? No.1 joint(s) /TPI 1	2.00 times flat ro ncurrent with othe ed at 2-0-0 oc. een designed for ord in all areas wh 00-00 wide will fit l er members, with med to be: Joint	a live load of 20.0psf ere a rectangle between the bottom BCDL = 10.0psf. 2 SP 2400F 2.0E , allel to grain value mula. Building	
REACTIONS	19, 20, 21	C 10)	4)	 a) Unbalanced roof live loads have been considered for this design. a) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left 					13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 an R802.10.2 and referenced standard ANSI/TPI 1.					
FORCES	(lb) - Maximum Com Tension	pression/Maximum		and right exp	bosed ; end vertica =1.60 plate grip D	l left and	right expose				N.	OFESE	2.1.	
TOP CHORD	1-2=0/28, 2-4=-1162 6-7=-8711/0, 7-8=-6 9-10=-6202/0, 10-11 12-13=-399/0	116/0, 8-9=-6183/0,	5) 8/0,	Truss design only. For stu see Standard	ned for wind loads uds exposed to win d Industry Gable E	in the p d (norm nd Deta	lane of the tri al to the face ils as applica), ble,		Q		SEA	• –	
BOT CHORD	13-14=0/4805				or consult qualified building designer as per ANSI/TPI 1. TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10 Unbalanced snow loads have been considered for this design.					SEAL 036322 A. GILBER June 11,2024				

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 properly damage. For general guidance regarding the fabrication, storage, delivery, recetion and bracing of trusses and truss systems, see **ANSI/TPI Quility Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	38 Mason Ridge-Roof-Galen E STY GLH		
24060040-01	B3	Common Girder	1	2	Job Reference (optional)	166139406	

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Mon Jun 10 11:13:08 ID:PH46WGGu4LebO2ime9u7nByWzPn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

14) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-8-4 from the left end to 19-8-4 to connect truss(es) to back face of bottom chord.

15) Fill all nail holes where hanger is in contact with lumber. LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-7=-48, 7-12=-48, 13-22=-20

Concentrated Loads (lb) Vert: 15=-1273 (B), 27=-1074 (B), 28=-1074 (B), 29=-1074 (B), 30=-1074 (B), 31=-1074 (B), 32=-1074 (B), 34=-1074 (B), 36=-1273 (B), 37=-1275 (B)

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Job	Truss	Truss Type	Qty	Ply	38 Mason Ridge-Roof-Galen E STY GLH	
24060040-01	C1	Monopitch Supported Gable	1	1	Job Reference (optional)	166139407

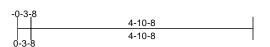
2-0-3

4-3

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Mon Jun 10 11:13:08 ID:Roi51RjmSxSNkGknknPuTcyWxUX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-11-11

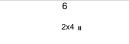
2x4 🛛





12 4 Г 2x4 II 2x4 II 4 ø 3 0 1 2 0 0 De 5





4-10-8

Scale = 1:25.3

Loading TCLL (roof) Snow (Pf/Pg) TCDL	(psf) 20.0 13.9/20.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	1-11-4 1.15 1.15 YES		CSI TC BC WB	0.14 0.24 0.07	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 2	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0* 10.0	Code	IRC2018/1	TPI2014	Matrix-MP							Weight: 19 lb	FT = 20%
	7=4-10-8 Max Horiz 2=47 (LC Max Grav 2=128 (LC 6=291 (LC	xcept end verticals. applied or 10-0-0 or 5=4-10-8, 6=4-10-8 14), 7=47 (LC 14) C 22), 5=95 (LC 22), C 22), 7=128 (LC 22)	5) (6) (7) (c 8) / c 9) - c 9) -	design. Gable require Gable studs * This truss h on the bottor 3-06-00 tall b chord and ar All bearings a This truss is International	snow loads have es continuous bo spaced at 2-0-0 d las been designe n chord in all are y 2-00-00 wide v y 2-00-00 wide v y cother members are assumed to b designed in acco Residential Cod nd referenced sta Standard	ottom chor oc. ed for a liv as where will fit betv s. oe SP No. ordance w e sections	d bearing. e load of 20.0 a rectangle veen the both 2. ith the 2018 i R502.11.1 a	0psf om					
TOP CHORD	(lb) - Maximum Com Tension 1-2=0/6, 2-3=-124/7		38/61										
BOT CHORD WEBS	2-6=-78/65, 5-6=-27 3-6=-228/232												
NOTES		(0											
Vasd=103 II; Exp B; I (3E) -0-3-7 zone; cant and right e MWFRS for grip DOL= 2) Truss des only. For see Stand or consult	CE 7-16; Vult=130mph smph; TCDL=60.psf; B Enclosed; MWFRS (er 3 to 2-10-8, Exterior(2) tilever left and right exp exposed;C-C for memb or reactions shown; Lu =1.33 signed for wind loads in studs exposed to wind lard Industry Gable En qualified building desi CE 7-16; Pr=20.0 psf (CDL=6.0psf; h=25ft; velope) and C-C Cc v) 2-10-8 to 4-8-12 posed ; end vertical pers and forces & imber DOL=1.60 pla the plane of the tru (normal to the face) d Details as applicat gner as per ANSI/TF	orner left te iss), ole, PI 1.							La contrata de la contrat	A.	SEA 0363	22

3 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

A. GILBE

A. GILBER

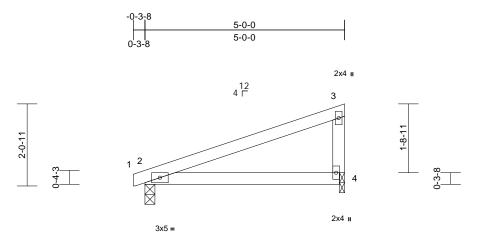
June 11,2024

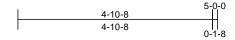
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCEL Building Component Science Use Component Categories (http://www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	38 Mason Ridge-Roof-Galen E STY GLH		
24060040-01	C2	Monopitch	8	1	Job Reference (optional)	166139408	

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Mon Jun 10 11:13:08 ID:fvpVN1pBxgnQljVM82B8zAyWzNn-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:28.9

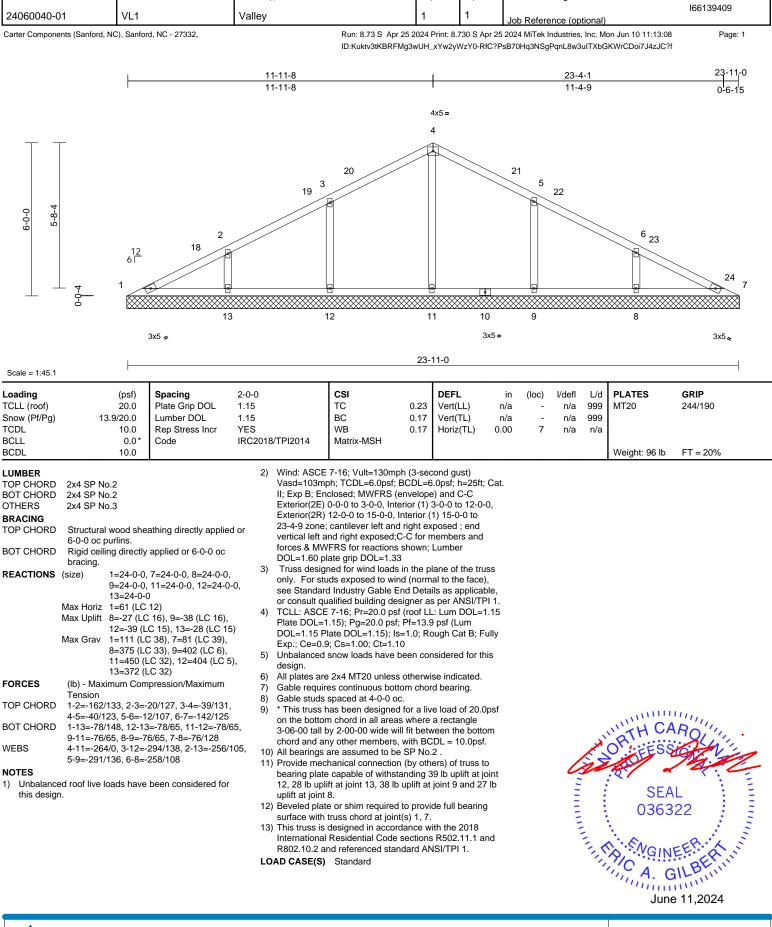
Loading (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 13.9/20.0 TCDL 10.0 BCLL 0.0* BCDL 10.0	Plate Grip DOL1.Lumber DOL1.Rep Stress IncrYI	0-0 15 15 ES C2018/TPI2014	CSI TC BC WB Matrix-MP	0.40 0.34 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.04 -0.07 0.00	(loc) 4-7 4-7 2	l/defl >999 >853 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 18 lb	GRIP 244/190 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 she 5-0-0 oc purlins, exu	applied or 10-0-0 oc 4=0-1-8 14) 15) C 22), 4=221 (LC 22) pression/Maximum 9, 3-4=-156/119 (3-second gust) CDL=6.0psf; h=25ft; Cat. ivelope) and C-C erior (1) 2-8-13 to ight exposed ; end C for members and hown; Lumber roof LL: Lum DOL=1.15 Pf=13.9 psf (Lum 1.0; Rough Cat B; Fully then considered for this or a live load of 20.0psf where a rectangle fit between the bottom	using ANS/7 designer shc 7) Provide mec bearing plate 8) One H2:5A S recommende UPLIFT at jt(does not con 9) This truss is International R802.10.2 at LOAD CASE(S)	int(s) 4 considers i IPI 1 angle to grain uid verify capacity hanical connection a ti joint(s) 4. Simpson Strong-Ti- ed to connect truss s) 4. This connect usider lateral forces designed in accorr Residential Code nd referenced star Standard	n formula of bear of bear of (by oth e conne s to bear ion is for s. dance w sections	a. Building ng surface. ers) of truss t ctors ng walls due uplift only ar th the 2018 R502.11.1 a	to nd				SEA 0363	L 22

June 11,2024

TRENGINEERING BY A MITEK Athiliate

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Job	Truss	Truss Type	Qty	Ply	38 Mason Ridge-Roof-Galen E STY GLH	
24060040-01	VL1	Valley	1	1	Job Reference (optional)	166139409



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818 Soundside Road

Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	38 Mason Ridge-Roof-Galen E STY GLH	
24060040-01	VL2	Valley	1	1	Job Reference (optional)	166139410

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Mon Jun 10 11:13:09 ID:o4IG6PuyykNDIDVgqhSnSGyWzY?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

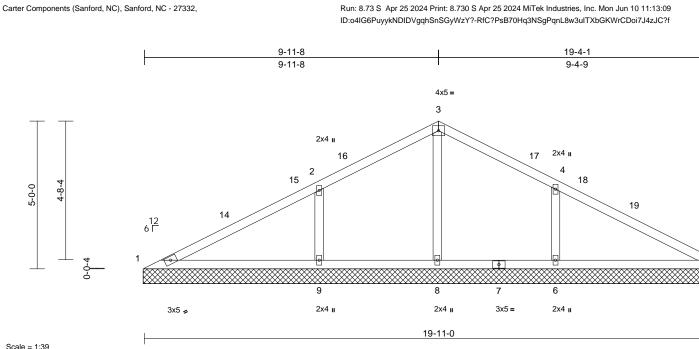
Page: 1

19-11-0

0-6-15

20 5

3x5 👟



Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.41	Vert(LL)	n/a	(.00)	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15		BC	0.30	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES		WB	0.19	Horiz(TL)	0.00	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018	3/TPI2014	Matrix-MSH								
BCDL	10.0											Weight: 75 lb	FT = 20%
UMBER			3)	Truss desig	ned for wind loads	in the p	lane of the tru	ISS					
FOP CHORD	2x4 SP No.2				ds exposed to wir								
BOT CHORD					Industry Gable E								
OTHERS	2x4 SP No.3		•		alified building des								
BRACING			,		7-16; Pr=20.0 psf .15); Pg=20.0 psf;			1.15					
TOP CHORD		athing directly applie	d or		ate DOL=1.15); Is			ully					
	10-0-0 oc purlins.				; Cs=1.00; Ct=1.1		bugii Gat B, i	uny					
BOT CHORD	Rigid ceiling directly bracing.	applied or 6-0-0 oc	5)	Unbalanced	snow loads have t		nsidered for th	nis					
REACTIONS	(size) 1=20-0-0,	5=20-0-0, 6=20-0-0,	6)	design. Gable requir	es continuous bott	om chor	d bearing						
	8=20-0-0,		7)		spaced at 4-0-0 or		u bearing.						
	Max Horiz 1=51 (LC	,	8)		as been designed		e load of 20.0)psf					
	Max Uplift 6=-47 (LC		- /		n chord in all areas								
	Max Grav 1=105 (LC	C 22), 8=469 (LC 2),		3-06-00 tall b	y 2-00-00 wide wi	ll fit betv	veen the botto	om					
	9=497 (LC				y other members.		_						
FORCES	(lb) - Maximum Com	,			are assumed to be			_					
	Tension	procolori/Maximum	10		hanical connectior capable of withst								
TOP CHORD)/338, 3-4=0/332,			plift at joint 6.	anuing 4	is upint at j	om					
	4-5=-115/374		11		e or shim required	to provi	de full bearing	r					
BOT CHORD		290/108, 6-8=-286/1	08,		truss chord at join			9					
	5-6=-286/108		. 12) This truss is	designed in accord	dance w	ith the 2018						1772
WEBS	3-8=-437/58, 2-9=-3	55/171, 4-6=-356/17)		Residential Code			nd					1111
NOTES				R802.10.2 a	nd referenced star	idard AN	ISI/TPI 1.					N'TH UA	ROUL
 Unbalance this design 	ed roof live loads have n.	been considered for	LC	OAD CASE(S)	Standard						AN.	OR FESS	Din N.
•	CE 7-16: Vult=130mph	(3-second quet)									2	10 1	i i i

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior (1) 13-0-0 to 19-4-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

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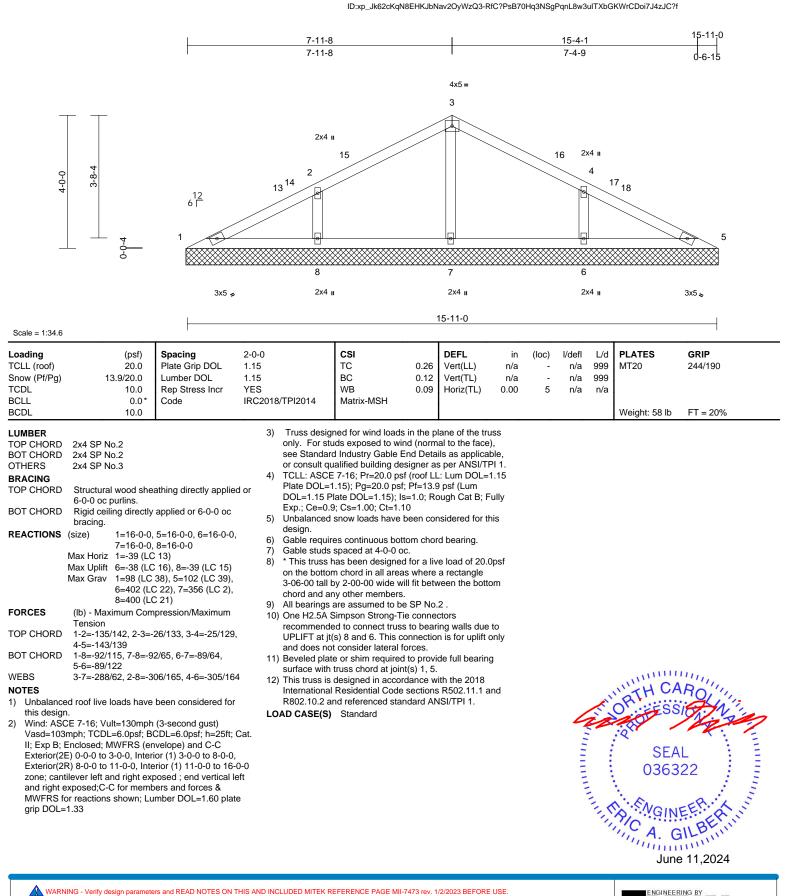
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Job	Truss	Truss Type	Qty	Ply	38 Mason Ridge-Roof-Galen E STY GLH	
24060040-01	VL3	Valley	1	1	Job Reference (optional)	166139411

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Job	Truss	Truss Type	Qty	Ply	38 Mason Ridge-Roof-Galen E STY GLH		
24060040-01	VL4	Valley	1	1	Job Reference (optional)	166139412	

5-11-8

Carter Components (Sanford, NC), Sanford, NC - 27332,

TCDL

BCLL

BCDL

WEBS

NOTES 1)

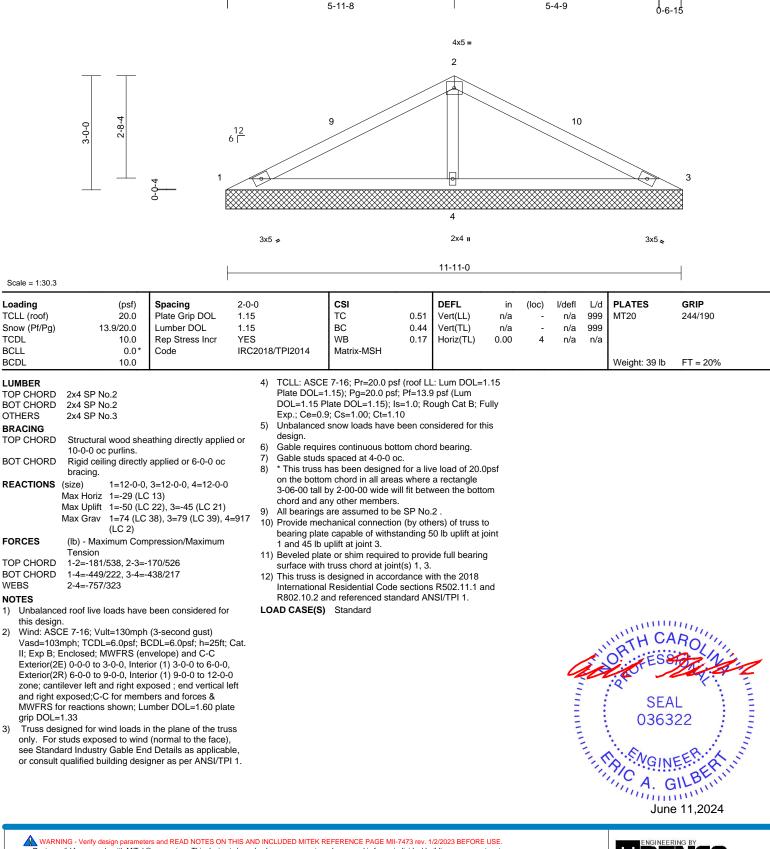
2)

3)

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Mon Jun 10 11:13:09 ID:LOgRM74Uclmj5l3tGW7cg0yWzQ0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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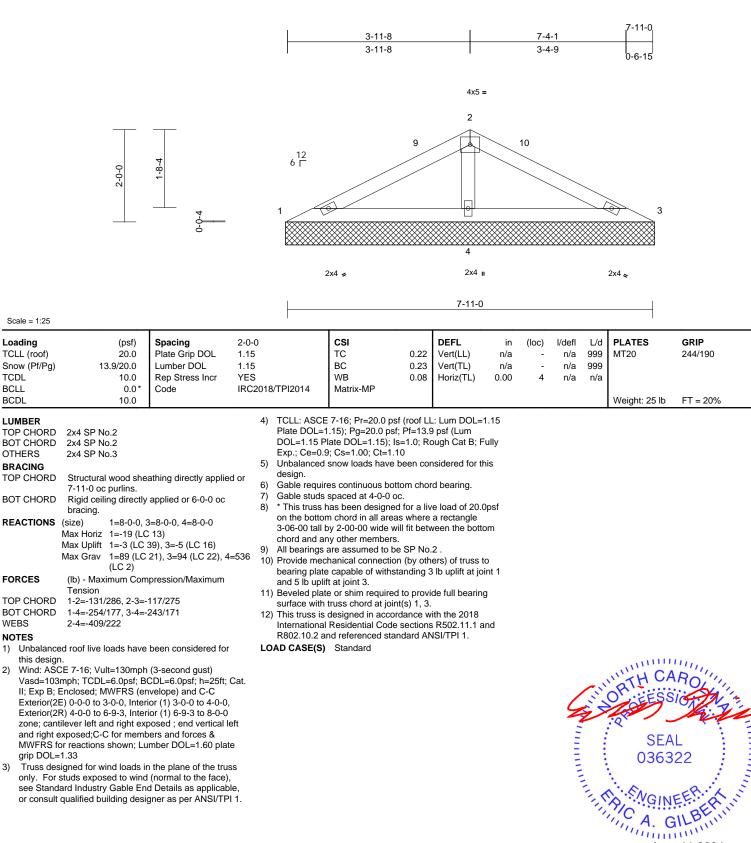


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Job	Truss	Truss Type	Qty	Ply	38 Mason Ridge-Roof-Galen E STY GLH	
24060040-01	VL5	Valley	1	1	Job Reference (optional)	166139413

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Mon Jun 10 11:13:09 ID:u7lajq1rZo5w0tsEie8hNMyWyx5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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June 11,2024



Edenton, NC 27932

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Loading TCLL (roof)

TCDL

BCLL

BCDL

WEBS

NOTES 1)

2)

3)

Job	Truss	Truss Type	Qty	Ply	38 Mason Ridge-Roof-Galen E STY GLH	
24060040-01	VL6	Valley	1	1	I66139414 Job Reference (optional)	

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Mon Jun 10 11:13:09 ID:2UWrJOrgy25kEiHtUm3WqlyWy?x-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3x5 =

2

3-11-0

3-4-1

1-4-9

3-11-0

0-6-15

3

2x4 👟



2x4 🍃

12 6 Г

0-8-4

0-0-4

1-0-0

1-11-8

1-11-8

Scale = 1:22

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

	, 1). [2.0-2-0,Euge]	-										
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI	2014 CSI TC BC WB Matrix-MP	0.12 0.12 0.00	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 10 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD BOT CHORD NOTES 1) Unbalanced	2x4 SP No.2 2x4 SP No.2 Structural wood she 3-11-0 oc purlins. Rigid ceiling directly bracing. (size) 1=4-0-0, 3 Max Horiz 1=-9 (LC Max Grav 1=160 (LC (lb) - Maximum Com Tension 1-2=-314/170, 2-3=- 1-3=-149/274 d roof live loads have	applied or 10-0-0 or 3=4-0-0 11) C 2), 3=160 (LC 2) ipression/Maximum 314/159	on 3-0 chc ed or 9) All 10) Bev sur 11) Thi Inte R80 LOAD (his truss has been des the bottom chord in al 6-00 tall by 2-00-00 w ord and any other men bearings are assumed veled plate or shim red face with truss chord a s truss is designed in prnational Residential 02.10.2 and reference CASE(S) Standard	Il areas where vide will fit betw nbers. d to be SP No. quired to provi at joint(s) 1, 3. accordance w Code sections	a rectangle veen the botto 2 . de full bearing ith the 2018 5 R502.11.1 a	om g					
Vasd=103n II; Exp B; E Exterior(2E vertical left forces & M DOL=1.60 3) Truss desi only. For s see Standa or consult d 4) TCLL: ASC Plate DOL= DOL=1.15 Exp.; Cea 5) Unbalanced design. 6) Gable requ	E 7-16; Vult=130mph mph; TCDL=6.0psf; Bf Enclosed; MWFRS (en closed; MWFRS (en closed; MWFRS (en closed; MWFRS (en closed; MWFRS for reactions s plate grip DOL=1.33 igned for wind loads in studs exposed to wind ard Industry Gable En class exposed to wind ard Industry En class exposed to wind a	CDL=6.0psf; h=25ft; ivelope) and C-C and right exposed ; C for members and hown; Lumber In the plane of the tru (normal to the face) d Details as applicat gner as per ANSI/TF roof LL: Lum DOL=1 2f=13.9 psf (Lum 1.0; Rough Cat B; F een considered for th	end Iss Dele, PI 1. I.15 ully						Conner.	The second secon	SEA ORTH CA ORTH CA ORTH CA OSEA O363	EER A LIVE

- design.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 4-0-0 oc.



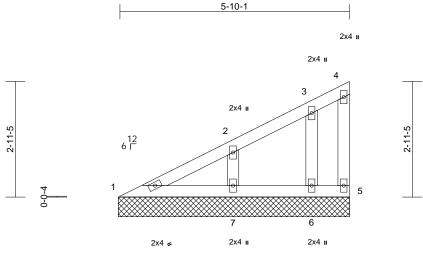
June 11,2024

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Job	Truss	Truss Type	Qty	Ply	38 Mason Ridge-Roof-Galen E STY GLH	
24060040-01	VL7	Valley	1	1	Job Reference (optional)	66139415

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Mon Jun 10 11:13:09 ID:Jzy8vfGOrxc4QyN4tqUNBayWywn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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2x4 🛛

5-10-1

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0		1.15		TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0		1.15		BC	0.08	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0		YES		WB	0.04	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0		IRC201	8/TPI2014	Matrix-MP								
BCDL	10.0											Weight: 25 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	5-10-1 oc purlins Rigid ceiling dire bracing.	sheathing directly appli , except end verticals. ctly applied or 10-0-0 o)-9, 5=5-10-9, 6=5-10-5	4) ed or 5) 6) c 7)	Plate DOL=1 DOL=1.15 P Exp.; Ce=0.9 Unbalanced design. Gable requir Gable studs * This truss h on the bottor 3-06-00 tall b	7-16; Pr=20.0 p .15); Pg=20.0 ps late DOL=1.15); b; Cs=1.00; Ct=1 snow loads have es continuous bo spaced at 2-0-0 has been designe n chord in all are by 2-00-00 wide to	sf; Èf=13.9 Is=1.0; Ro 10 ttom chor oc. ed for a liv as where vill fit betw	 psf (Lum bugh Cat B; F nsidered for t d bearing. load of 20. a rectangle 	Fully his Opsf					
	7=5-1(Max Horiz 1=78 (Max Uplift 5=-6 (I (LC 15 Max Grav 1=96 ()-9 LC 12) _C 12), 6=-11 (LC 15),	8) 7=-18	 All bearings Provide mec bearing plate 18 lb uplift at Beveled plate 	ty other members are assumed to be hanical connection capable of wither joint 7 and 11 lb e or shim require truss chord at joint	be SP No. on (by oth standing 6 uplift at jo d to provi	ers) of truss f b uplift at jo pint 6.	oint 5,					
FORCES	(lb) - Maximum C Tension	ompression/Maximum	1	1) This truss is	designed in acco Residential Cod	ordance w		and					
TOP CHORD	1-2=-173/110, 2- 4-5=-28/25	3=-100/68, 3-4=-51/49,			nd referenced sta								
BOT CHORD	,	7=-44/48, 5-6=-44/48	Ľ	OAD CASE(S)	Standard							ORTH CA	
WEBS		6=-108/103											

Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h= 25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 2-11-1, Interior (1) 2-11-1 to 5-8-13 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

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.



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