

RE: 25-3701-A SGR-LOT 75 ROOF Trenco 818 Soundside Rd Edenton, NC 27932

Site Information: Customer: Project Name: 25-3701-A Lot/Block: N Address: S City: S

Model: Subdivision: State:

## General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2018/TPI2014 Wind Code: ASCE 7-16 Roof Load: 40.0 psf Design Program: MiTek 20/20 8.7 Wind Speed: 130 mph Floor Load: N/A psf

This package includes 24 individual, dated Truss Design Drawings and 0 Additional Drawings.

No	Sool#	Truce Nomo	Data	No	Soal#	Truce Nomo	Data
10.	JEal#		Dale 2/25/2025	110.	JEal#	VOE	Dale 2/25/2025
1	172240639	GEUT	3/25/2025	21	172240659	V05	3/25/2025
2	172240640	M01	3/25/2025	22	172240660	V06	3/25/2025
3	172240641	M01GE	3/25/2025	23	172240661	V07	3/25/2025
4	172240642	M02	3/25/2025	24	172240662	V08	3/25/2025
5	172240643	M03	3/25/2025				
6	172240644	M03GE	3/25/2025				
7	172240645	M04	3/25/2025				
8	172240646	M04SGE	3/25/2025				
9	172240647	T02	3/25/2025				
10	172240648	T02G	3/25/2025				
11	172240649	T02SGE	3/25/2025				
12	172240650	T03	3/25/2025				
13	172240651	T03A	3/25/2025				
14	172240652	T03AGE	3/25/2025				
15	172240653	T03GE	3/25/2025				
16	172240654	T04	3/25/2025				
17	172240655	V01	3/25/2025				
18	172240656	V02	3/25/2025				
19	172240657	V03	3/25/2025				
20	172240658	V04	3/25/2025				

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision

based on the parameters provided by Riverside Roof Truss.

Truss Design Engineer's Name: Johnson, Andrew

My license renewal date for the state of North Carolina is December 31, 2025

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



Johnson, Andrew



LOADING (psf) TCLL (roof) Snow (Pf/Pg) 1 TCDL	20.0 1.6/15.0 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.08 0.03 0.04		DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 0.00	(loc) 9 9 10	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20		<b>GRIP</b> 244/190
BCLL BCDL	0.0 * 10.0	Code IRC2018/TP	12014	Matri	x-S		()					Weight:	36 lb	FT = 20%
LUMBER- TOP CHORD	2x4 SP No.2					BRACIN TOP CHO	<b>G-</b> DRD	Structura	l wood	sheathing	directly a	pplied or 6-0-0 oc	purlin	 s,

BOT CHORD

except end verticals

Rigid ceiling directly applied or 6-0-0 oc bracing.

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

**REACTIONS.** All bearings 11-7-0.

(lb) - Max Horz 16=-108(LC 14)

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 1-9-8, Exterior(2N) 1-9-8 to 5-9-8, Corner(3R) 5-9-8 to 8-9-8, Exterior(2N) 8-9-8 to 12-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and
- forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- O TCLL: ASCE 7-16; PT=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) 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.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) \* 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.
- 13) 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.
- 14) 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.



TRENCO AMITEK Affiliate

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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcaccomponents.com)

818 Soundside Road Edenton, NC 27932



3) Unbalanced snow loads have been considered for this design.

4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.

- 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 9) 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.

SEAL 45844

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818 Soundside Road



Plate Offsets (X,Y) [2:0-1-	8.0-0-51
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		-										
LOADING (ps TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	sf) 20.0 11.6/15.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP	2-0-0 1.15 1.15 YES I2014	<b>CSI.</b> TC BC WB Matrix	0.24 0.07 0.05 -S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.00 0.00	(loc) 1 1 9	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 60 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS OTHERS SLIDER	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Left 2x4 SP No.3	3 1-7-8			E T E	BRACING- TOP CHORD BOT CHORD	Structura except e Rigid cei	al wood nd vertie ling dire	sheathing cals. ectly appli	g directly app ied or 10-0-0	lied or 6-0-0 oc purlin oc bracing.	S,
REACTIONS.	All bearings 11	-8-0.										

### (lb) - Max Horz 2=146(LC 13)

 Max Uplift
 All uplift 100 lb or less at joint(s) 9, 2, 10, 11, 12, 13, 14

 Max Grav
 All reactions 250 lb or less at joint(s) 9, 2, 10, 11, 12, 13, 14

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

TOP CHORD 2-3=-342/173, 3-4=-261/141

### NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 2-1-0, Exterior(2N) 2-1-0 to 11-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* 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) 9, 2, 10, 11, 12, 13, 14.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 13) 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.



ENGINEERING BY

TRENCO A Mi Tek Atfiliate

818 Soundside Road

Edenton, NC 27932

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		2-8-0		+ 3-8-0		
LOADING (psf)         SPACING-           TCLL (roof)         20.0         Plate Grip DOL           Snow (Pf/Pg)         16.5/15.0         Lumber DOL           TCDL         10.0         Rep Stress Incr           BCDL         10.0         Code IRC2018/TPI	2-0-0 <b>CSI.</b> 1.15 TC 1.15 BC NO WB 1/2014 Matrix	DEFL.           0.18         Vert(LL)           0.07         Vert(CT)           0.05         Horz(CT)	in (loc) -0.00 10 -0.00 7 0.00 2	l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20 Weight: 19 lb	<b>GRIP</b> 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

### LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x6 SP No.2WEBS2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 6=Mechanical

Max Horz 2=42(LC 13)

Max Uplift 2=-5(LC 16)

Max Grav 2=256(LC 36), 6=326(LC 3)

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 3-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 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.
- 12) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

### LOAD CASE(S) Standard

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

Uniform Loads (plf)

### Vert: 1-3=-43, 6-8=-20, 4-5=-83

Jontinued on page 2

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Structural wood sheathing directly applied or 3-8-0 oc purlins,

except end verticals, and 2-0-0 oc purlins; 4-7, 4-5,

Rigid ceiling directly applied or 10-0-0 oc bracing.



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	SGR-LOT 75 ROOF	
						72240642
25-3701-A	M02	HALF HIP	3	1		
					Job Reference (optional)	
Riverside Roof Truss, LLC,	Danville, Va - 24541,		8.	730 s Feb	19 2025 MiTek Industries, Inc. Mon Mar 24 11:25:58 2025 F	Page 2

Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:25:58 2025 Page 2 ID:Bxl2MwYau\_NHkbraGCmHloyOvst-VtnJzqn\_S9ei685wPholfziHgfxhGfshGL4\_9AzXkZd

Concentrated Loads (lb)	
2) Dead + Roof Live (balanced): Lumber I	ncrease=1.15. Plate Increase=1.15
Uniform Loads (plf)	
Vert: 1-3=-60, 6-8=-20, 4-5=-9	)
Vert: 12=-160	
3) Dead + 0.75 Roof Live (balanced) + 0.7	'5 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)	39
Concentrated Loads (lb)	
Vert: 12=-160	
4) Dead + 0.75 Snow (balanced) + 0.75 A Uniform Loads (olf)	ttic Floor: Lumber Increase=1.15, Plate Increase=1.15
Vert: 1-3=-37, 6-8=-20, 4-5=-1	33
Concentrated Loads (lb)	
5) Dead + 0.75 Snow (Unbal Left) + 0.75	Attic Floor: Lumber Increase=1 15 Plate Increase=1 15
Uniform Loads (plf)	
Vert: 1-3=-42, 6-8=-20, 4-5=-1	14
Vert: 12=-160	
6) Dead + 0.75 Snow (Unbal. Right) + 0.7	5 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)	
Concentrated Loads (lb)	00
Vert: 12=-160	
<ol> <li>Dead + Uninhabitable Attic Without Sto Uniform Loads (plf)</li> </ol>	rage: Lumber Increase=1.25, Plate Increase=1.25
Vert: 1-3=-20, 6-8=-40, 4-5=-5	0
Concentrated Loads (lb)	
8) Dead + 0.6 C-C Wind (Pos. Internal) C:	ase 1: Lumber Increase-1.60. Plate Increase-1.60
Uniform Loads (plf)	
Vert: 1-2=60, 2-11=50, 3-11=3	4, 6-8=-12, 4-5=16
Horz: 1-2=-72, 2-11=-62, 3-11: Concentrated Loads (lb)	<i></i> 46, 3-4=10, 5-6=38
Vert: 12=-160	
9) Dead + 0.6 C-C Wind (Pos. Internal) Ca	ase 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (pir) Vert: 1-2=45, 2-3=50, 6-8=-12.	4-5=32
Horz: 1-2=-57, 2-3=-62, 3-4=-6	3, 5-6=-24
Concentrated Loads (lb)	
10) Dead + 0.6 C-C Wind (Neg. Internal)	Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)	
Vert: 1-2=1, 2-3=-46, 6-8=-20 Horz: 1-221, 2-3-26, 3-4-3	, 4-5=-64 1 5-6-27
Concentrated Loads (lb)	1, 3 0-21
Vert: 12=-160	
11) Dead + 0.6 C-C Wind (Neg. Internal) ( Uniform Loads (plf)	Jase 2: Lumber Increase=1.60, Plate Increase=1.60
Vert: 1-2=-41, 2-3=-46, 6-8=-	20, 4-5=-64
Horz: 1-2=21, 2-3=26, 3-4=-4	2, 5-6=-35
Vert: 12=-160	
12) Dead + 0.6 MWFRS Wind (Pos. Intern	al) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)	2 4-5-8
Horz: 1-2=-40, 2-3=-25, 3-4=	·11, 5-6=18
Concentrated Loads (lb)	
Vert: 12=-160 13) Dead + 0.6 MWERS Wind (Pos. Interr	al) Right: Lumber Increase=1.60. Plate Increase=1.60
Uniform Loads (plf)	
Vert: 1-2=3, 2-3=8, 6-8=-12, 4	1-5=8 20 5 6 45
Concentrated Loads (lb)	20, 5-0=-15
Vert: 12=-160	
14) Dead + 0.6 MWFRS Wind (Neg. Intern	nal) Left: Lumber Increase=1.60, Plate Increase=1.60
Vert: 1-2=-16, 2-3=-21, 6-8=-	20, 4-5=-39
Horz: 1-2=-4, 2-3=1, 3-4=31,	5-6=7
Concentrated Loads (lb) Vert: 12=-160	
15) Dead + 0.6 MWFRS Wind (Neg. Inter	nal) Right: Lumber Increase=1.60, Plate Increase=1.60

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leb	Truco	Truce Type	Otv	Dhy	SCRIOT 75 DOOF	
300	11055	Thuss Type	Quy	FIY	SGK-LOT 75 KOOF	
					1722	240642
25-3701-A	M02	HALF HIP	3	1		
					Job Reference (optional)	
Riverside Roof Truss, LLC,	Danville, Va - 24541,		8.	730 s Feb	19 2025 MiTek Industries, Inc. Mon Mar 24 11:25:58 2025 Page	e 3

Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:25:58 2025 Page 3 ID:Bxl2MwYau\_NHkbraGCmHloyOvst-VtnJzqn\_S9ei685wPholfziHgfxhGfshGL4\_9AzXkZd

	Uniform Loads (plf)
	Vert: 1-2=-5, 2-3=-10, 6-8=-20, 4-5=-39
	Horz: 1-2=-15, 2-3=-10, 3-4=-4, 5-6=-25
	Concentrated Loads (lb)
	Vert: 12=-160
16)	Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
	Uniform Loads (plf)
	Vert: 1-2=32, 2-3=17, 6-8=-12, 4-5=-1
	Horz: 1-2=-44, 2-3=-29, 3-4=-34, 5-6=23
	Concentrated Loads (lb)
	Vert: 12=-160
17)	Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
,	Uniform Loads (plf)
	Vert: 1-2=21, 2-3=6, 6-8=-12, 4-5=-12
	Horz: 1-2=-33. 2-3=-18. 3-4=-24. 5-6=23
	Concentrated Loads (lb)
	Vert: 12=-160
18)	Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60. Plate Increase=1.60
- /	Uniform Loads (plf)
	Vert: 1-2=-16. 2-3=-21. 6-8=-20. 4-5=-39
	Horz: 1-2=-4, 2-3=1, 3-4=6, 5-6=12
	Concentrated Loads (lb)
	Vert: 12=-160
19)	Dead + 0.6 MWERS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60. Plate Increase=1.60
,	Lipiform Loads (plf)
	Vert: 1-2-16 2-3=-21 6-8=-20 4-5=-39
	Horry 1-2=-4 2-3=1 3-4=6 5-6=12
	Concentrated Loads (Ib)
	Vert 12=-160
20)	Dead + Snow on Overhangs: Lumber Increase=1 15 Plate Increase=1 15
20)	Loidor Loads (olf)
	Vert 1-2-43 2-3=-20 6-8=-20 4-5=-50
	Concentrated Loads (Ib)
	Vert 12=-160
21)	Dead + Snow (Unbal   eft): Lumber Increase=1 15. Plate Increase=1 15
21)	Loidor Loads (olf)
	Vert 1-349 6-8=-20 4-5=-57
	Concentrated Loads (Ib)
	Vert 12=-160
22)	Dead + Snow (Linbal Right): Lumber Increase=1.15. Plate Increase=1.15
)	Loidor Loads (old)
	Viert 13-27 6-8-20 4-5-85
	Concentrated Loads (b)
	Vert 12=-160
23)	Dead: Jumber Increase=0.90. Plate Increase=0.90 Plt_metal=0.90
20)	Liniform Loads (olf)
	Varit 1.2-20 6-820 4-550
	Concentrated Loads (Ib)
	Vert 12=-160
24)	Dead + 0.75 Spow (hal ) + 0.75 Attic Floor + 0.75(0.6 MWERS Wind (Neg. Int) Left): Lumber Increase=1.60. Plate Increase=1.60
27)	Detail of the bill of the second of the seco
	Vinit 1234 2-338 6-820 4-5124
	Horz 1.2-3, 2.3-1, 3.4-23, 5.6-5
	Concentrated Loads (Ib)
	Vert 12=-160
25)	Dead + 0.75 Snow (bal) + 0.75 Attic Floor + 0.75/0.6 MWERS Wind (Neg. Int) Right): Lumber Increase-1.60 Plate Increase-1.60
20)	Initerna cade (nf)
	Vert 12=-26 2-3=-30 6-8=-20 4-5=-124
	Horz 1.2-2.1 2.3-7 3.4-3 5.6-19
	Concentrated Loads (Ib)
	Vert: 12-160
26)	Dead + 0 75 Spow (bal) + 0 75 Attic Floor + 0 75(0.6 MWERS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60. Plate
20)	
	Initiation Loads (III)
	Vert: 1-234 2-338 6-820 4-5124
	Horz 1-2 3 2-3 1 3-4 -= 5-6 9
	Concentrated Loads (lb)
	Vert: 12=160
27)	Dead + 0.75 Snow (ba) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase-1.60. Plate
	Increase 1.60
	Uniform Loads (olf)
	Vert: 1-2=-34, 2-3=-38, 6-8=-20, 4-5=-124
	Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
	Concentrated Loads (lb)
	Vert 12=-160

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 outlapse 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/TP11 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	SGR-LOT 75 ROOF
					172240642
25-3701-A	M02	HALF HIP	3	1	
					Job Reference (optional)
Riverside Roof Truss, LLC,	Danville, Va - 24541,		8.7	'30 s Feb	19 2025 MiTek Industries, Inc. Mon Mar 24 11:25:58 2025 Page 4

ID:Bxl2MwYau\_NHkbraGCmHloyOvst-VtnJzqn\_S9ei685wPholfziHgfxhGfshGL4\_9AzXkZd

LOAD CASE(S) Standard 28) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-47, 2-3=-51, 6-8=-20, 4-5=-129 Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5 Concentrated Loads (lb) Vert: 12=-160 29) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-39, 2-3=-43, 6-8=-20, 4-5=-129 Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19 Concentrated Loads (lb) Vert: 12=-160 30) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-47, 2-3=-51, 6-8=-20, 4-5=-129 Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9 Concentrated Loads (lb) Vert: 12=-160 31) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-47, 2-3=-51, 6-8=-20, 4-5=-129 Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9 Concentrated Loads (lb) Vert: 12=-160 32) Dead + Minimum Snow: Lumber Increase=1.15. Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-20, 6-8=-20, 4-5=-80 Concentrated Loads (lb) Vert: 12=-160 33) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=4, 2-3=-28, 6-8=-12, 4-5=-46 Horz: 1-2=-16, 2-3=16, 3-4=16, 5-6=16 Concentrated Loads (lb) Vert: 12=-160 34) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-3=4, 6-8=-12, 4-5=-14 Horz: 1-3=-16, 3-4=16, 5-6=16 Concentrated Loads (lb) Vert: 12=-160 35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-27, 6-8=-20, 4-5=-100 Concentrated Loads (lb) Vert: 12=-160 36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-70, 6-8=-20, 4-5=-57 Concentrated Loads (lb) Vert: 12=-160 37) 5th Unbal.Dead + 0.75 Snow (balanced) + 0.75 Attic Floor + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-25, 6-8=-20, 4-5=-146 Concentrated Loads (lb) Vert: 12=-160 38) 6th Unbal.Dead + 0.75 Snow (balanced) + 0.75 Attic Floor + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-57, 6-8=-20, 4-5=-114 Concentrated Loads (lb) Vert: 12=-160 39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-22, 2-3=-26, 6-8=-20, 4-5=-137 Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5 Concentrated Loads (lb) Vert: 12=-160 40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-54, 2-3=-58, 6-8=-20, 4-5=-105 Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5 Concentrated Loads (lb) Vert: 12=-160

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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	SGR-LOT 75 ROOF		
25-3701-A	M02	   HALF HIP	3	1	172240642		
				720 - 5	Job Reference (optional)		
Kiverside Koor Truss, LLC, Danville, Va - 24541, 8.730 s Feb 19 2025 Mi Fek Industries, Inc. Mon Mar 24 11:25:58 2025 Page 5 ID:Bxl2MwYau_NHkbraGCmHloyOvst-VtnJzqn_S9ei685wPholfziHgfxhGfshGL4 9AzXkZd							
ID:Bxt2MwYa_NHkbraGCmHloyOvet-VtrJzqn_S9ei685wPholfzHghhGfshGL4_9AzXiZd LOAD CASE(S) Standard 41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 12–36, 23–50, 6-8=-20, 4-5=-105 Horz: 12–-11, 2-3=-7, 3-4=-3, 5-6=-10 Concentrated Loads (lb) Vert: 12–46, 2-3=-50, 6-8=-20, 4-5=-105 Horz: 12–-16, 2-3=-7, 3-4=-3, 5-6=-19 Concentrated Loads (lb) Vert: 12–2-46, 2-3=-50, 6-8=-20, 4-5=-105 Horz: 12–-16, 2-3=-7, 3-4=-3, 5-6=-19 Concentrated Loads (lb) Vert: 12–2-160 43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 12–2-160 44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 12–-160 44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 12–-160 44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 12–2-160 45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 12–-160 45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 12–-160 45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 12–2-160 45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Incr							
Vert: 1-2=-22, Horz: 1-2=-3, 2 Concentrated Loads (lt Vert: 12=-160 46) 14th Unbal.Dead + 0.75 Uniform Loads (plf) Vert: 1-2=-54, Horz: 1-2=-3, 2 Concentrated Loads (lt Vert: 12=-160	Vert: 1-2=-22, 2-3=-26, 6-8=-20, 4-5=-137 Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9 Concentrated Loads (lb) Vert: 12=-160 46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-54, 2-3=-58, 6-8=-20, 4-5=-105 Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9 Concentrated Loads (lb)						
<ul> <li>47) 15th Unbal.Dead + Min Uniform Loads (plf) Vert: 1-3=-27, Concentrated Loads (lk Vert: 12=-160</li> <li>48) 16th Unbal.Dead + Min Uniform Loads (plf) Vert: 1-3=-70, Concentrated Loade (l)</li> </ul>	imum Snow + Parallel: Lumb 6-8=-20, 4-5=-100 )) imum Snow + Parallel: Lumb 6-8=-20, 4-5=-57	per Increase=1.15, Plate Increase=1.15 per Increase=1.15, Plate Increase=1.15					
Vert: 12=-160 49) 1st Dead + Roof Live (I Uniform Loads (plf) Vert: 1-3=-60, Concentrated Loads (IL Vert: 12=-160	Concentrated Loads (lb) Vert: 12=-160 49) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-60, 6-8=-20, 4-5=-50 Concentrated Loads (lb)						
50) 2nd Dead + Roof Live ( Uniform Loads (plf) Vert: 1-3=-20, Concentrated Loads (lt Vert: 12=-160	Vert: 12=-160 50) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-20, 6-8=-20, 4-5=-90 Concentrated Loads (lb) Vert: 42 - 160						
51) 3rd Dead + 0.75 Roof L Uniform Loads (plf) Vert: 1-3=-50, Concentrated Loads (lb	51) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-50, 6-8=-20, 4-5=-109 Concentrated Loads (lb)						
52) 4th Dead + 0.75 Roof L Uniform Loads (plf) Vert: 1-3=-20, Concentrated Loads (lb Vert: 12=-160	ive (unbalanced) + 0.75 Attio 6-8=-20, 4-5=-139 ))	c Floor: Lumber Increase=1.15, Plate Increase	=1.15				

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LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.14 BC 0.07	DEFL. Vert(LL)	in -0.00 -0.01	(loc) 4-7	l/defl >999	L/d 240	PLATES MT20	<b>GRIP</b> 244/190
TCDL         10.0           BCLL         0.0 *           BCDL         10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-MP	Horz(CT)	0.00	2	≥333 n/a	n/a	Weight: 18 lb	FT = 20%
LUMBER-		BR	ACING-						

TOP CHORD

BOT CHORD

### LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 2x4 SP No.3 WFBS

REACTIONS. (size) 4=Mechanical, 2=0-3-8

Max Horz 2=53(LC 15) Max Uplift 4=-7(LC 16), 2=-39(LC 16)

Max Grav 4=137(LC 21), 2=208(LC 21)

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

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 3-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2. 9) 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.



Structural wood sheathing directly applied or 3-8-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

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LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	<b>CSI.</b> TC 0.07 BC 0.01	<b>DEFL.</b> Vert(LL) Vert(CT)	in 0.00 -0.00	(loc) 1 1	l/defl n/r n/r	L/d 120 120	PLATES MT20	<b>GRIP</b> 244/190
TCDL         10.0           BCLL         0.0 *           BCDL         10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.06 Matrix-P	Horz(CT)	0.00	5	n/a	n/a	Weight: 18 lb	FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2		BR. TOI	ACING- P CHORD	Structura except er	I wood	sheathin cals.	g directly app	blied or 3-8-0 oc purlin	IS,

 WEBS
 2x4 SP No.3
 BOT CHORD

 OTHERS
 2x4 SP No.3
 BOT CHORD

**REACTIONS.** (size) 5=3-8-0, 2=3-8-0, 6=3-8-0

Max Horz 2=51(LC 13)

Max Uplift 5=-2(LC 13), 2=-34(LC 16), 6=-10(LC 16) Max Grav 5=62(LC 21), 2=126(LC 21), 6=157(LC 21)

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

### NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 2-1-0, Exterior(2N) 2-1-0 to 3-6-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs
- non-concurrent with other live loads. 6) Gable requires continuous bottom chord bearing.
- Gable requires continuous bottom chord be
   Cable stude spaced at 2.0.0 ac
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.
   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.

SEAL 45844 March 25,2025

Rigid ceiling directly applied or 10-0-0 oc bracing.

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A MiTek Affili 818 Soundside Road



- 13) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOOP CASE(S) 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)

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March 25,2025

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Job	Truss	Truss Type	Qty	Ply	SGR-LOT 75 ROOF	
						72240645
25-3701-A	M04	HALF HIP	3	1		
					Job Reference (optional)	
Riverside Roof Truss, LLC,	Danville, Va - 24541,		8.	730 s Feb	19 2025 MiTek Industries, Inc. Mon Mar 24 11:25:59 2025 I	Page 2

ID:Bxl2MwYau\_NHkbraGCmHloyOvst-\_3LhAAocDSmZklg6zPK\_CAFHo3EW?4LrV?qXiczXkZc

LOAD CASE(S)
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Vert: 1-3=-43, 4-5=-83(F=-30), 6-8=-20
Concentrated Loads (Ib)
2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 4-5=-90(F=-30), 6-8=-20 Concentrated Loads (lb)
Vert: 15=-160
3) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Vert: 1-3=-50, 4-5=-139(F=-89), 6-8=-20
Concentrated Loads (lb)
4) Dead + 0.75 Snow (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Concentrated Loads (lb)
Vert: 15=-160 5) Dead + 0.75 Show (Upbel Left) + 0.75 Attic Electric Lymber Increase, 1.15 Plate Increase, 1.15
Uniform Loads (plf)
Vert: 1-14=-37, 3-14=-42, 4-5=-114(F=-89), 6-8=-20
Concentrated Loads (lb) Vert: 15=-160
6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf) Vert: 1-3=-25, 4-5=-137(F=-89), 6-8=-20
Concentrated Loads (lb)
Vert: 15=-160 7) Dead + Uninhabitable Attic Without Storage: Lumber Increase-1 25, Plate Increase-1 25
Uniform Loads (plf)
Vert: 1-3=-20, 4-5=-50(F=-30), 6-8=-40
Vert: 15=-160
8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Vert: 1-2=58, 2-13=45, 3-13=34, 4-5=16(F=-18), 6-8=-12
Horz: 1-2=-70, 2-13=-57, 3-13=-46, 3-4=10, 5-6=38
Concentrated Loads (lb) Vert: 15=-160
9) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf) Vert: 1-2=29, 2-13=34, 3-13=45, 4-5=27(E=-18), 6-8=-12
Horz: 1-2=-41, 2-13=-46, 3-13=-57, 3-4=-63, 5-6=-24
Concentrated Loads (lb) Vert: 15=-160
10) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Horz: 1-2=-17, 2-3=22, 3-4=31, 5-6=27
Concentrated Loads (lb)
11) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-37, 2-3=-42, 4-5=-60(F=-18), 6-8=-20 Horz: 1-2=17, 2-3=22, 3-4=-42, 5-6=-35
Concentrated Loads (lb)
Vert: 15=-160 12) Dead + 0.6 MWERS Wind (Pos_Internal) Left: Lumber Increase=1.60 Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-3=13, 4-5=8(F=-18), 6-8=-12 Horz: 1-2=-40, 2-3=-25, 3-4=-11, 5-6=18
Concentrated Loads (lb)
Vert: 15=-160 12) Dood + 0.6 MW/ERS Wind /Res. Internal) Pictot Lumber Increase-1.60. Picto Increase-1.60
Uniform Loads (plf)
Vert: 1-2=3, 2-3=8, 4-5=8(F=-18), 6-8=-12
Totz. 1-2=-13, 2-3=-20, 3-4=-20, 3-0=-15 Concentrated Loads (lb)
Vert: 15=-160
ueau + 0.5 ואועראס אוום (Neg. Internal) Lett: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
Vert: 1-2=-16, 2-3=-21, 4-5=-39(F=-18), 6-8=-20
Horz: 1-2=-4, 2-3=1, 3-4=31, 5-6=7

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Job	Truss	Truss Type	Qty	Ply	SGR-LOT 75 ROOF	
						172240645
25-3701-A	M04	HALF HIP	3	1		
					Job Reference (optional)	
Riverside Roof Truss, LLC,	Danville, Va - 24541,		8.	730 s Feb	19 2025 MiTek Industries, Inc. Mon Mar 24 11:25:59 2025	Page 3
		ID:Bxl2MwYau_NHkbraGCmHloyOvst3LhAAocDSmZklg6zPK_CAFHo3EW?4LrV?qXiczXkZc				

LOAD CASE(S) Concentrated Loads (lb) Vert: 15=-160 15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-5, 2-3=-10, 4-5=-39(F=-18), 6-8=-20 Horz: 1-2=-15, 2-3=-10, 3-4=-4, 5-6=-25 Concentrated Loads (lb) Vert: 15=-160 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=32, 2-3=17, 4-5=-1(F=-18), 6-8=-12 Horz: 1-2=-44, 2-3=-29, 3-4=-34, 5-6=23 Concentrated Loads (lb) Vert: 15=-160 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=21, 2-3=6, 4-5=-12(F=-18), 6-8=-12 Horz: 1-2=-33, 2-3=-18, 3-4=-24, 5-6=23 Concentrated Loads (lb) Vert: 15=-160 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-16, 2-3=-21, 4-5=-39(F=-18), 6-8=-20 Horz: 1-2=-4, 2-3=1, 3-4=6, 5-6=12 Concentrated Loads (lb) Vert: 15=-160 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-16, 2-3=-21, 4-5=-39(F=-18), 6-8=-20 Horz: 1-2=-4, 2-3=1, 3-4=6, 5-6=12 Concentrated Loads (lb) Vert: 15=-160 20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-43, 2-3=-20, 4-5=-50(F=-30), 6-8=-20 Concentrated Loads (lb) Vert: 15=-160 21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-14=-43, 3-14=-49, 4-5=-57(F=-30), 6-8=-20 Concentrated Loads (lb) Vert: 15=-160 22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-27, 4-5=-88(F=-30), 6-8=-20 Concentrated Loads (lb) Vert: 15=-160 23) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90 Uniform Loads (plf) Vert: 1-3=-20, 4-5=-50(F=-30), 6-8=-20 Concentrated Loads (lb) Vert: 15=-160 24) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-34, 2-3=-38, 4-5=-124(F=-79), 6-8=-20 Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5 Concentrated Loads (lb) Vert: 15=-160 25) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-26, 2-3=-30, 4-5=-124(F=-79), 6-8=-20 Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19 Concentrated Loads (lb) Vert: 15=-160 26) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-34, 2-3=-38, 4-5=-124(F=-79), 6-8=-20 Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9 Concentrated Loads (lb) Vert: 15=-160

27) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

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Job	Truss	Truss Type	Qty	Ply	SGR-LOT 75 ROOF
25-3701-A	M04	HALE HIP	3	1	17224064
20 01 01 11			0		Job Reference (optional)
	D				

Riverside Roof Truss, LLC, Danville, Va - 24541,

8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:25:59 2025 Page 4 ID:Bxl2MwYau\_NHkbraGCmHloyOvst-\_3LhAAocDSmZklg6zPK\_CAFHo3EW?4LrV?qXiczXkZc

LOAD CASE(S) Uniform Loads (plf) Vert: 1-2=-34, 2-3=-38, 4-5=-124(F=-79), 6-8=-20 Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9 Concentrated Loads (lb) Vert: 15=-160 28) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-47, 2-3=-51, 4-5=-129(F=-79), 6-8=-20 Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5 Concentrated Loads (lb) Vert: 15=-160 29) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-39, 2-3=-43, 4-5=-129(F=-79), 6-8=-20 Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19 Concentrated Loads (lb) Vert: 15=-160 30) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-47, 2-3=-51, 4-5=-129(F=-79), 6-8=-20 Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9 Concentrated Loads (lb) Vert: 15=-160 31) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-47, 2-3=-51, 4-5=-129(F=-79), 6-8=-20 Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9 Concentrated Loads (lb) Vert: 15=-160 32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-20, 4-5=-80(F=-30), 6-8=-20 Concentrated Loads (lb) Vert: 15=-160 33) Dead + 0.6 C-C Wind Min, Down; Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=4, 2-3=-28, 4-5=-46(F=-18), 6-8=-12 Horz: 1-2=-16, 2-3=16, 3-4=16, 5-6=16 Concentrated Loads (lb) Vert: 15=-160 34) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-3=4, 4-5=-14(F=-18), 6-8=-12 Horz: 1-3=-16, 3-4=16, 5-6=16 Concentrated Loads (lb) Vert: 15=-160 35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-27, 4-5=-100(F=-30), 6-8=-20 Concentrated Loads (lb) Vert: 15=-160 36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-70, 4-5=-57(F=-30), 6-8=-20 Concentrated Loads (lb) Vert: 15=-160 37) 5th Unbal.Dead + 0.75 Snow (balanced) + 0.75 Attic Floor + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-25, 4-5=-146(F=-89), 6-8=-20 Concentrated Loads (lb) Vert: 15=-160 38) 6th Unbal.Dead + 0.75 Snow (balanced) + 0.75 Attic Floor + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-57, 4-5=-114(F=-89), 6-8=-20 Concentrated Loads (lb) Vert: 15=-160 39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-22, 2-3=-26, 4-5=-137(F=-79), 6-8=-20 Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5 Concentrated Loads (lb) Vert: 15=-160

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Job	Truss	Truss Type	Qty	Ply	SGR-LOT 75 ROOF	
						172240645
25-3701-A	M04	HALF HIP	3	1		
					Job Reference (optional)	
Riverside Roof Truss, LLC,	Danville, Va - 24541,		8.	730 s Feb	19 2025 MiTek Industries, Inc. Mon Mar 24 11:25:59 2025	Page 5
		ID:BxI2M	lwYau_N⊦	lkbraGCm	HloyOvst3LhAAocDSmZklg6zPK_CAFHo3EW?4LrV?qXic	zXkZc

LOAD CASE(S) 40) 8th Unbal. Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-54, 2-3=-58, 4-5=-105(F=-79), 6-8=-20 Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5 Concentrated Loads (lb) Vert: 15=-160 41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-14, 2-3=-18, 4-5=-137(F=-79), 6-8=-20 Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19 Concentrated Loads (lb) Vert: 15=-160 42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-46, 2-3=-50, 4-5=-105(F=-79), 6-8=-20 Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19 Concentrated Loads (lb) Vert: 15=-160 43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-22, 2-3=-26, 4-5=-137(F=-79), 6-8=-20 Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9 Concentrated Loads (lb) Vert: 15=-160 44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-54, 2-3=-58, 4-5=-105(F=-79), 6-8=-20 Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9 Concentrated Loads (lb) Vert: 15=-160 45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-22, 2-3=-26, 4-5=-137(F=-79), 6-8=-20 Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9 Concentrated Loads (lb) Vert: 15=-160 46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-54, 2-3=-58, 4-5=-105(F=-79), 6-8=-20 Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9 Concentrated Loads (lb) Vert: 15=-160 47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-27, 4-5=-100(F=-30), 6-8=-20 Concentrated Loads (lb) Vert: 15=-160 48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-70, 4-5=-57(F=-30), 6-8=-20 Concentrated Loads (lb) Vert: 15=-160 49) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-60, 4-5=-50(F=-30), 6-8=-20 Concentrated Loads (lb) Vert: 15=-160 50) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-20, 4-5=-90(F=-30), 6-8=-20 Concentrated Loads (lb) Vert: 15=-160 51) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-50, 4-5=-109(F=-89), 6-8=-20 Concentrated Loads (lb) Vert: 15=-160 52) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-20, 4-5=-139(F=-89), 6-8=-20 Concentrated Loads (lb) Vert: 15=-160

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	0-6-8	4-1-12		6-8-0		7-8-0	
	0-6-8	3-7-4	I	2-6-4	1	1-0-0	
Plate Offsets (X,Y) [2:0-0-0,	0-0-10], [2:0-2-1,0-9-1]						
LOADING (psf)           TCLL (roof)         20.0           Snow (Pf/Pg)         16.5/15.0           TCDL         10.0           BCLL         0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.52 BC 0.26 WB 0.03	<b>DEFL.</b> ir Vert(LL) -0.01 Vert(CT) -0.01 Horz(CT) 0.00	n (loc) l/defl 8-17 >999 8-17 >999 0 2 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL 10.0	Code IRC2016/1FI2014	IVIAUIX-IVIP				weight. 41 ib	FI = 20%
LUMBER-		BRA	CING-				

 TOP CHORD
 2x4 SP No.2
 TOP CHORD
 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-7, 4-5.

 WEBS
 2x4 SP No.3
 BOT CHORD
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

 OTHERS
 2x4 SP No.3
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

 Left: 2x4 SP No.3
 Left: 2x4 SP No.3
 Structural wood sheathing directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 2=0-3-0, 8=0-3-8 Max Horz 2=115(LC 16) Max Uplift 2=-25(LC 16) Max Grav 6=337(LC 28), 2=310(LC 36), 8=289(LC 36)

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) C-C wind load user defined.
- 4) 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.
- 5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 6) Unbalanced snow loads have been considered for this design.
- 7) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 8) Provide adequate drainage to prevent water ponding.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 12) Refer to girder(s) for truss to truss connections.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 14) 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. 15) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52 has/have been modified. Building designer must review loads to

### verify that they are correct for the intended use of this truss.

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818 Soundside Road

Job	Truss	Truss Type	Qty	Ply	SGR-LOT 75 ROOF	
					172	240646
25-3701-A	M04SGE	GABLE	1	1		
					Job Reference (optional)	
Riverside Roof Truss, LLC,	Danville, Va - 24541,		8.	730 s Feb	19 2025 MiTek Industries, Inc. Mon Mar 24 11:26:00 2025 Par	qe 2

ID:Bxl2MwYau\_NHkbraGCmHloyOvst-SGv4OWpE\_muQMSFIX6rDkOoXtTZBkYc\_kfZ5E3zXkZb

LOAD CASE(S) 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-43, 4-5=-83, 6-13=-20 Concentrated Loads (lb) Vert: 19=-160 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-60, 4-5=-90, 6-13=-20 Concentrated Loads (lb) Vert: 19=-160 3) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-50, 4-5=-139, 6-13=-20 Concentrated Loads (lb) Vert: 19=-160 4) Dead + 0.75 Snow (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-37, 4-5=-133, 6-13=-20 Concentrated Loads (lb) Vert: 19=-160 5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-18=-37, 3-18=-42, 4-5=-114, 6-13=-20 Concentrated Loads (Ib) Vert: 19=-160 6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-25, 4-5=-137, 6-13=-20 Concentrated Loads (lb) Vert: 19=-160 7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-3=-20, 4-5=-50, 6-13=-40 Concentrated Loads (lb) Vert: 19=-160 8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=61, 2-3=52, 4-5=34, 6-13=-12 Horz: 1-2=-73, 2-3=-64, 3-4=10, 5-6=38 Concentrated Loads (lb) Vert: 19=-160 9) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=47, 2-3=52, 4-5=34, 6-13=-12 Horz: 1-2=-59, 2-3=-64, 3-4=-69, 5-6=-24 Concentrated Loads (lb) Vert: 19=-160 10) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-3, 2-3=-42, 4-5=-60, 6-13=-20 Horz: 1-2=-17, 2-3=22, 3-4=31, 5-6=27 Concentrated Loads (lb) Vert: 19=-160 11) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-37, 2-3=-42, 4-5=-60, 6-13=-20 Horz: 1-2=17, 2-3=22, 3-4=-48, 5-6=-35 Concentrated Loads (lb) Vert: 19=-160 12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=28, 2-3=13, 4-5=8, 6-13=-12 Horz: 1-2=-40, 2-3=-25, 3-4=-11, 5-6=18 Concentrated Loads (lb) Vert: 19=-160 13) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=3, 2-3=8, 4-5=8, 6-13=-12 Horz: 1-2=-15, 2-3=-20, 3-4=-26, 5-6=-15 Concentrated Loads (lb) Vert: 19=-160 14) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-16, 2-3=-21, 4-5=-39, 6-13=-20 Horz: 1-2=-4, 2-3=1, 3-4=31, 5-6=7

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818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	SGR-LOT 75 ROOF	
						172240646
25-3701-A	M04SGE	GABLE	1	1		
					Job Reference (optional)	
Riverside Roof Truss, LLC,	Danville, Va - 24541,		8.	730 s Feb	19 2025 MiTek Industries, Inc. Mon Mar 24 11:26:00 2025	Page 3
		ID-D-10M		h	In the second se	>_\/I.7L

ID:Bxl2MwYau\_NHkbraGCmHloyOvst-SGv4OWpE\_muQMSFIX6rDkOoXtTZBkYc\_kfZ5E3zXkZb

	Vert: 19=-160
15)	Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
	Uniform Loads (plf)
	Vert: 1-2=-5, 2-3=-10, 4-5=-39, 6-13=-20
	Horz: 1-2=-15, 2-3=-10, 3-4=-4, 5-6=-25
	Concentrated Loads (lb)
	Vert: 19=-160
16)	Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
,	Uniform Loads (plf)
	Vert: 1-2=32 2-3=17 4-5=-1 6-13=-12
	Horz: 1-2=-44 2-3=-29 3-4=-34 5-6=23
	Vert: 10-160
17)	Volt. 19–100
17)	
	Vert: 1-2=21, 2-3=0, 4-5=-12, 0-13=-12
	Horz: 1-2=-33, 2-3=-18, 3-4=-24, 5-6=23
	Concentrated Loads (Ib)
	Vert: 19=-160
18)	Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
	Uniform Loads (plf)
	Vert: 1-2=-16, 2-3=-21, 4-5=-39, 6-13=-20
	Horz: 1-2=-4, 2-3=1, 3-4=6, 5-6=12
	Concentrated Loads (lb)
	Vert: 19=-160
19)	Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
,	Uniform Loads (olf)
	Vert 1-2=-16 2-3=-21 4-5=-39 6-13=-20
	Horz: 1-24, 2-3-1, 3-4-6, 5-6-12
	$\begin{array}{c} 1 & 1 & 2 & -1 \\ 1 & 0 & 1 & 2 \\ \end{array}$
	Vort: 10 _ 160
201	Veil. 19=100
20)	Dead + Show On Overhaings. Lumber increase=1.15, Flate increase=1.15
	Vert: 1-2=-43, 2-3=-20, 4-5=-50, 6-13=-20
	Concentrated Loads (b)
	Vert: 19=-160
21)	Dead + Snow (Unbal. Lett): Lumber Increase=1.15, Plate Increase=1.15
	Uniform Loads (plf)
	Vert: 1-18=-43, 3-18=-49, 4-5=-57, 6-13=-20
	Concentrated Loads (lb)
	Vert: 19=-160
22)	Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
	Uniform Loads (plf)
	Vert: 1-3=-27, 4-5=-88, 6-13=-20
	Concentrated Loads (lb)
	Vert: 19=-160
23)	Dead: Lumber Increase=0.90. Plate Increase=0.90.Plt. metal=0.90
20)	Liniform Loads (olf)
	Vert: 1.3-20 4.5-50 6-13-20
	Veit. 1-3-20, 4-3-30, 0-13-20
	Concentrated Loads (b)
24	Vert. 19=-100
24)	Dead + 0.75 Show (bal) + 0.75 Allic Floor + 0.75(0.6 MWFRS wind (Neg. Int) Leit): Lumber increase=1.60, Plate increase=1.60
	Uniform Loads (pir)
	Vert: 1-2=-34, 2-3=-38, 4-5=-124, 6-13=-20
	Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5
	Concentrated Loads (lb)
	Vert: 19=-160
25)	Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
	Uniform Loads (plf)
	Vert: 1-2=-26, 2-3=-30, 4-5=-124, 6-13=-20
	Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19
	Concentrated Loads (lb)
	Vert: 19=-160
26)	Dead + 0.75 Snow (bal) + 0.75 Attic Floor + 0.75(0.6 MWERS Wind (Neg. Int) 1st Parallel): Lumber Increase-1.60 Plate
20)	Derga - 6.7 Construction - 6.7 Or the root - 6.7 O(0.0 Meet No Wind (Neg. int) 1st ratalie). Lumber increase = 1.00, Flate
	Unitionin Loads (pri)
	veit. i-z=-34, 2-3=-36, 4-3=-124, 0-13=-20
	HOIZ: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
	Concentrated Loads (lb)
	Vert: 19=-160
27)	Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate
	Increase=1.60

LOAD CASE(S)

Concentrated Loads (lb)

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Job	Truss	Truss Type	Qty	Ply	SGR-LOT 75 ROOF
25-3701-4	MOASGE	GABLE	1	1	172240646
25-5701-A		GABLE	1		Job Reference (optional)
Diverside Dest Trues 110	Denville Me. 04544		0.	700 - 5-6	10 0005 MiTal laduatrias las Mas Mas 04 44:00:00 0005 Dags 4

Riverside Roof Truss, LLC, Danville, Va - 24541,

8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:26:00 2025 Page 4 ID:Bxl2MwYau\_NHkbraGCmHloyOvst-SGv4OWpE\_muQMSFIX6rDkOoXtTZBkYc\_kfZ5E3zXkZb

LOAD CASE(S) Uniform Loads (plf) Vert: 1-2=-34, 2-3=-38, 4-5=-124, 6-13=-20 Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9 Concentrated Loads (lb) Vert: 19=-160 28) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-47, 2-3=-51, 4-5=-129, 6-13=-20 Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5 Concentrated Loads (lb) Vert: 19=-160 29) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-39, 2-3=-43, 4-5=-129, 6-13=-20 Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19 Concentrated Loads (lb) Vert: 19=-160 30) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-47, 2-3=-51, 4-5=-129, 6-13=-20 Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9 Concentrated Loads (lb) Vert: 19=-160 31) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-47, 2-3=-51, 4-5=-129, 6-13=-20 Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9 Concentrated Loads (lb) Vert: 19=-160 32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-20, 4-5=-80, 6-13=-20 Concentrated Loads (lb) Vert: 19=-160 33) Dead + 0.6 C-C Wind Min, Down; Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=4, 2-3=-28, 4-5=-46, 6-13=-12 Horz: 1-2=-16, 2-3=16, 3-4=16, 5-6=16 Concentrated Loads (lb) Vert: 19=-160 34) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-3=4, 4-5=-14, 6-13=-12 Horz: 1-3=-16, 3-4=16, 5-6=16 Concentrated Loads (lb) Vert: 19=-160 35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-27, 4-5=-100, 6-13=-20 Concentrated Loads (lb) Vert: 19=-160 36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-70, 4-5=-57, 6-13=-20 Concentrated Loads (lb) Vert: 19=-160 37) 5th Unbal.Dead + 0.75 Snow (balanced) + 0.75 Attic Floor + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-25, 4-5=-146, 6-13=-20 Concentrated Loads (lb) Vert: 19=-160 38) 6th Unbal.Dead + 0.75 Snow (balanced) + 0.75 Attic Floor + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-57, 4-5=-114, 6-13=-20 Concentrated Loads (lb) Vert: 19=-160 39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-22, 2-3=-26, 4-5=-137, 6-13=-20 Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5 Concentrated Loads (lb) Vert: 19=-160

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Job	Truss	Truss Type	Qty	Ply	SGR-LOT 75 ROOF						
25-3701-A	M04SGE	GABLE	1	1		172240646					
Riverside Roof Truss, LLC,	Danville, Va - 24541,		8	.730 s Feb	Job Reference (optional) 19 2025 MiTek Industries, Inc. Mo	on Mar 24 11:26:00 2025 Page 5					
		ID:Bxl2	MwYau_NH	kbraGCml	HloyOvst-SGv4OWpE_muQMSFIX6	3rDkOoXtTZBkYc_kfZ5E3zXkZb					
LOAD CASE(S) 40) 8th Unbal.Dead + 0.75 Uniform Loads (plf) Vert: 1-2=-54, Horz: 1-2=-3, 2 Concentrated Loads (lk Vert: 19=-160	Snow (unbal.) + 0.75 Attic F 2-3=-58, 4-5=-105, 6-13=-20 2-3=1, 3-4=23, 5-6=5 >)	oor + 0.75(0.6 MWFRS Wind (Neg. Int) Left)	+ Parallel:	Lumber Ir	ncrease=1.60, Plate Increase=1.6	0					
41) 9th Unbal.Dead + 0.75 Uniform Loads (plf) Vert: 1-2=-14, Horz: 1-2=-11, Concentrated Loads (lt	<ul> <li>9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)</li> <li>Vert: 1-2=-14, 2-3=-18, 4-5=-137, 6-13=-20 Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19</li> <li>Concentrated Loads (lb)</li> <li>Vert: 10, 160</li> </ul>										
42) 10th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-46, Horz: 1-2=-11, Concentrated Loads (U	5 Snow (unbal.) + 0.75 Attic 2-3=-50, 4-5=-105, 6-13=-20 2-3=-7, 3-4=-3, 5-6=-19	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Rig	nt) + Paralle	el: Lumbe	r Increase=1.60, Plate Increase=	1.60					
Vert: 19=-160 43) 11th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-22, Horz: 1-2=-3, 2 Concentrated Loads (lt	77 5 Snow (unbal.) + 0.75 Attic 2-3=-26, 4-5=-137, 6-13=-2( 2-3=1, 3-4=5, 5-6=9 5)	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st	Parallel): L	umber Inc	crease=1.60, Plate Increase=1.60	ı					
Vert: 19=-160 44) 12th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-54, Horz: 1-2=-3, Concentrated Loads (IL Vert: 19=-160	5 Snow (unbal.) + 0.75 Attic 2-3=-58, 4-5=-105, 6-13=-20 2-3=1, 3-4=5, 5-6=9 ))	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st	Parallel): Li	umber Inc	crease=1.60, Plate Increase=1.60	I					
45) 13th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-22, Horz: 1-2=-3, : Concentrated Loads (lt	5 Snow (unbal.) + 0.75 Attic 2-3=-26, 4-5=-137, 6-13=-20 2-3=1, 3-4=5, 5-6=9 b)	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd	Parallel): L	₋umber In	crease=1.60, Plate Increase=1.60	)					
46) 14th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-54, Horz: 1-2=-3, ( Concentrated Loads (lt	5 Snow (unbal.) + 0.75 Attic 2-3=-58, 4-5=-105, 6-13=-20 2-3=1, 3-4=5, 5-6=9 ))	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd	Parallel): L	₋umber In	crease=1.60, Plate Increase=1.60	J					
Vert: 19=-160 47) 15th Unbal.Dead + Mir Uniform Loads (plf) Vert: 1-3=-27, Concentrated Loads (lk Vert: 19160	, imum Snow + Parallel: Luml 4-5=-100, 6-13=-20 ))	per Increase=1.15, Plate Increase=1.15									
48) 16th Unbal.Dead + Mir Uniform Loads (plf) Vert: 1-3=-70, Concentrated Loads (lt	imum Snow + Parallel: Luml 4-5=-57, 6-13=-20 ɔ)	er Increase=1.15, Plate Increase=1.15									
49) 1st Dead + Roof Live ( Uniform Loads (plf) Vert: 1-3=-60, Concentrated Loads (lt Vert: 19=-160	unbalanced): Lumber Increa: 4-5=-50, 6-13=-20 o)	e=1.15, Plate Increase=1.15									
50) 2nd Dead + Roof Live Uniform Loads (plf) Vert: 1-3=-20, Concentrated Loads (lt Vert: 19=-160	(unbalanced): Lumber Increa 4-5=-90, 6-13=-20 ))	se=1.15, Plate Increase=1.15									
51) 3rd Dead + 0.75 Roof I Uniform Loads (plf) Vert: 1-3=-50, Concentrated Loads (lk Vert: 19=-160	∟ive (unbalanced) + 0.75 Atti 4-5=-109, 6-13=-20 ⊳)	c Floor: Lumber Increase=1.15, Plate Increas	e=1.15								
52) 4th Dead + 0.75 Roof I Uniform Loads (plf) Vert: 1-3=-20, Concentrated Loads (lk Vert: 19=-160	Live (unbalanced) + 0.75 Atti 4-5=-139, 6-13=-20 p)	c Floor: Lumber Increase=1.15, Plate Increas	e=1.15								

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TCLL: ASCE 7-16; PT=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); ls=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.

- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 8.
- 9) 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.

# SEAL 45844 March 25,2025

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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcaccomponents.com)

A MiTek Affilia 818 Soundside Road



Job	Truss	Truss Type	Qty	Ply	SGR-LOT 75 ROOF	
						172240648
25-3701-A	T02G	COMMON GIRDER	1	2		
				J	Job Reference (optional)	
Riverside Roof Truss, LLC,	Danville, Va - 24541,		8.	730 s Feb	19 2025 MiTek Industries, Inc. Mon Mar 24 11:26:02 2025	Page 2
		ID:Bxl2N	1wYau N	HkbraGCm	HlovOvst-Oe1aoBaUWN88blPheXthaptndHD5CE9HBz2Bl	xzXkZZ

### NOTES-

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=528, 9=479.
- 13) 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.
- 14) Use Simpson Strong-Tie HUS28 (22-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 20-10-0 oc max. starting at 1-11-4 from the left end to 23-11-4 to connect truss(es) to front face of bottom chord.
- 15) Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent spaced at 2-0-0 oc max. starting at 3-11-4 from the left end to 20-9-4 to connect truss(es) to front face of bottom chord.
- 16) 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 (plf) Vert: 1-2=-43, 2-5=-43, 5-8=-43, 9-16=-20
  - Concentrated Loads (lb)
    - Vert: 10=-1258(F) 17=-1170(F) 18=-1170(F) 19=-1170(F) 20=-1258(F) 21=-1258(F) 22=-1258(F) 23=-1258(F) 24=-1258(F) 25=-1258(F) 26=-1258(F) 27=-1258(F) 28=-1170(F)

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818 Soundside Road Edenton, NC 27932





9-8-12		19-2-0		28-7-4			
9.	·8-12	9-5-4	I	9-5-4			
Plate Offsets (X,Y) [2:0-2-8,	0-1-12], [10:0-2-8,0-1-12]						
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0 Plate Grip DOL 1. Lumber DOL 1. Rep Stress Incr Y Code IRC2018/TPI201	0-0 <b>CSI.</b> .15 TC 0.79 .15 BC 0.89 ES WB 0.77 14 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT	in (loc) l/defl -0.29 13-15 >999 -0.52 13-15 >885 ) 0.13 12 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 215 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.1 WEBS 2x4 SP No.3			BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathi except end verticals. Rigid ceiling directly app 1 Row at midpt	ng directly applie lied or 10-0-0 o 7-15, 5-15, 5	ed or 3-1-4 oc purlins c bracing. 3-18, 9-12	,

REACTIONS. (size) 18=0-3-8, 12=0-3-8 Max Horz 18=159(LC 15) Max Uplift 18=-126(LC 16), 12=-126(LC 16) Max Grav 18=1739(LC 28), 12=1739(LC 29)

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

 TOP CHORD
 2-3=-616/102, 3-5=-2860/257, 5-6=-2123/272, 6-7=-2123/272, 7-9=-2860/257, 9-10=-616/102, 2-18=-455/144, 10-12=-454/145

- BOT CHORD 17-18=-189/2716, 15-17=-129/2441, 13-15=-114/2383, 12-13=-179/2622
- WEBS 6-15=-66/1294, 7-15=-723/136, 7-13=0/483, 5-15=-723/136, 5-17=0/483, 3-18=-2425/184, 9-12=-2425/183

### NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-11-0, Interior(1) 2-11-0 to 19-2-0, Exterior(2R) 19-2-0 to 23-0-0, Interior(1) 23-0-0 to 39-3-0 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

TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.

- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=126, 12=126.

 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.



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9-8-12		19-2-0		1	28-7-4		I		
9-		9-5-4		9-5-4		1			
Plate Offsets (X,Y) [2:0-2-8,	0-1-12]								
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018,	2-0-0 1.15 1.15 YES TPI2014	<b>CSI.</b> TC 0.78 BC 0.89 WB 0.76 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT	in (loc) -0.29 12-14 -0.51 12-14 ) 0.13 11	l/defl >999 >883 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 212 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.1 WEBS 2x4 SP No.3				BRACING- TOP CHORD BOT CHORD WEBS	Structural wood except end ver Rigid ceiling dir 1 Row at midpt	l sheathir icals. ectly app	ng directly app lied or 10-0-0 5-14, 7-14	blied or 3-1-9 oc purlins oc bracing. 4, 3-17, 9-11	'n
	0.0.11 Machaniaal								

REACTIONS. (size) 17=0-3-8, 11=Mechanical Max Horz 17=161(LC 15) Max Uplift 17=-125(LC 16), 11=-91(LC 16) Max Grav 17=1728(LC 28), 11=1673(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-614/102, 3-5=-2835/255, 5-6=-2097/269, 6-7=-2097/271, 7-9=-2787/259,

9-10=-408/64, 2-17=-454/144, 10-11=-295/75

 BOT CHORD
 16-17=-218/2690, 14-16=-159/2413, 12-14=-143/2334, 11-12=-210/2518

 WEBS
 5-16=0/484, 5-14=-723/136, 6-14=-66/1273, 7-14=-688/134, 7-12=0/441, 3-17=-2403/182, 9-11=-2536/222

### NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-10-10, Interior(1) 2-10-10 to 19-2-0, Exterior(2R) 19-2-0 to 22-11-10, Interior(1) 22-11-10 to 37-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 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) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 17=125.
- 10) 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.



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818 Soundside Road Edenton, NC 27932



L		37-11-0		
		37-11-0		
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI.         DE           TC         0.09         Ver           BC         0.06         Ver           WB         0.17         Hor           Matrix-S         Hor         Hor	FL.         in         (loc)         l/defl         L/d           t(LL)         -0.00         1         n/r         120           t(CT)         -0.00         1         n/r         120           z(CT)         0.00         25         n/a         n/a	PLATES         GRIP           MT20         244/190           Weight: 249 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 CHORI BOT CHORI WERS	<ol> <li>Structural wood sheathing directly except end verticals.</li> <li>Rigid ceiling directly applied or 10 6-0-0 oc bracing: 46-47.</li> <li>Row at midut</li> </ol>	/ applied or 6-0-0 oc purlins, I-0-0 oc bracing, Except:

### REACTIONS. All bearings 37-11-0.

(lb) - Max Horz 47=162(LC 15)

Max Uplift All uplift 100 lb or less at joint(s) 47, 25, 37, 38, 39, 41, 42, 43, 44, 45, 46, 35, 34, 33, 31, 30, 29, 28, 27, 26

Max Grav All reactions 250 lb or less at joint(s) 47, 25, 36, 37, 38, 39, 41, 42, 43, 44, 45, 46, 35, 34, 33, 31, 30, 29, 28, 27, 26

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

TOP CHORD 12-13=-113/279, 13-14=-113/279

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=38ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 3-2-0, Exterior(2N) 3-2-0 to 19-2-0, Corner(3R) 19-2-0 to 23-2-0, Exterior(2N) 23-2-0 to 37-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) 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.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) \* 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.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 47, 25, 37, 38, 39, 41, 42, 43, 44, 45, 46, 35, 34, 33, 31, 30, 29, 28, 27, 26.
- 14) 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.

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818 Soundside Road





						38-4-0 38-4-0							
LOADING (psf) TCLL (roof) Snow (Pf/Pg) 11.6 TCDL BCLL BCDL	20.0 6/15.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP	2-0-0 1.15 1.15 YES I2014	<b>CSI.</b> TC BC WB Matrix	0.13 0.06 0.17 x-S		DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 0.00	(loc) 25 25 26	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 252 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x4	4 SP No.2					BRACIN TOP CH	<b>IG-</b> IORD S	Structura	al wood	sheathing	g directly ap	oplied or 6-0-0 oc purlins	,

LOWIDER-		DIVACING-				
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc pur			
BOT CHORD	2x4 SP No.2		except end verticals.			
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.			
OTHERS	2x4 SP No.3	WEBS	1 Row at midpt	13-37		

**REACTIONS.** All bearings 38-4-0.

(lb) - Max Horz 48=-159(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 48, 38, 39, 40, 42, 43, 44, 45, 46, 47, 36, 35, 34, 32, 31, 30, 29, 28, 27

Max Grav All reactions 250 lb or less at joint(s) 48, 26, 37, 38, 39, 40, 42, 43, 44, 45, 46, 47, 36, 35, 34, 32, 31, 30, 29, 28, 27

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

TOP CHORD 12-13=-106/276, 13-14=-106/276

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=38ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 3-2-0, Exterior(2N) 3-2-0 to 19-2-0, Corner(3R) 19-2-0 to 23-2-0, Exterior(2N) 23-2-0 to 39-3-0 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
- 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) 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.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) \* 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.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 48, 38, 39, 40, 42, 43, 44, 45, 46, 47, 36, 35, 34, 32, 31, 30, 29, 28, 27.
- 14) 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.

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818 Soundside Road



- 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) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 11.
- 10) 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.

March 25,2025



Edenton, NC 27932

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### NOTES-

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-7, Interior(1) 3-6-7 to 11-6-7, Exterior(2R) 11-6-7 to 14-6-7, Interior(1) 14-6-7 to 22-6-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 13, 9, 8.
   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.



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<sup>1)</sup> Unbalanced roof live loads have been considered for this design.



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- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 12, 13, 9, 8.
   10) 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.



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

WEBS 2-9=-290/134, 4-6=-290/134

### NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 8-8-3, Exterior(2R) 8-8-3 to 11-8-3, Interior(1) 11-8-3 to 16-9-14 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

5) Gable requires continuous bottom chord bearing.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 6.

9) 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.



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Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=272(LC 2), 8=320(LC 33), 6=320(LC 34)

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

### NOTES-

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- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-3-1, Interior(1) 3-3-1 to 7-3-1, Exterior(2R) 7-3-1 to 10-3-1, Interior(1) 10-3-1 to 13-11-9 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
- 9) 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.



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

### NOTES-

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- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 4-4-12, Exterior(2R) 4-4-12 to 7-4-12, Interior(1) 7-4-12 to 8-3-0 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 9) 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.



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- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
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2x4 💋

2x4 📎

Plate Offsets (X Y) [2:0-2-0	0- <u>0-7</u> 0-0-7 Edgel	<u>3-0-1</u> 3-0-8	53						
LOADING         (psf)           TCLL (roof)         20.0           Snow (Pf/Pg)         11.6/15.0           TCDL         10.0           BCLL         0.0 *           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.02 BC 0.05 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	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: 8 lb	<b>GRIP</b> 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

REACTIONS. (size) 1=3-0-1, 3=3-0-1 Max Horz 1=12(LC 15) Max Uplift 1=-5(LC 16), 3=-5(LC 16)

Max Grav 1=80(LC 2), 3=80(LC 2)

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

### NOTES-

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Structural wood sheathing directly applied or 3-0-15 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

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