

RE: 24-4363-A RVF-LOT #30 ROOF Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: 24-4363-A Lot/Block: Address: City:

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 40 individual, dated Truss Design Drawings and 0 Additional Drawings.

No. 1 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11 12 12 3 4 5 6 7 8 9 10 11 12 10 11 12 10 10 10 10 10 10 10 10 10 10 10 10 10	Seal# 166955425 166955426 166955427 166955428 166955429 166955430 166955431 166955432 166955433 166955433 166955435 166955435 166955437 166955438 166955438 166955439 166955441 166955441	Truss Name CJ01 HG01 J02 J01 J02 M01 M01A M01GE M02 M02GE M03 M03A M04 M04G M05 M06 PB01	Date 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024	No. 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 22	Seal# 166955445 166955446 166955447 166955448 166955450 166955450 166955452 166955453 166955453 166955455 166955455 166955456 166955458 166955458 166955459 166955459 166955460 166955461 166955461	Truss Name SD04 SD05 SD06 SD07 SM01G T01 T01A T01GE T02GE T03 T03A T03SGE T04 T04GE T04S T06 T07 T07	Date 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024
17 18 19 20	I66955440 I66955441 I66955442 I66955443 I66955444	PB01 SD01 SD02 SD03	7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024	37 38 39 40	166955461 166955462 166955463 166955464	T07 T07GE V01 V02	7/22/2024 7/22/2024 7/22/2024 7/22/2024 7/22/2024

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: Gilbert, Eric

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

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.



Gilbert, Eric



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)



LOWIDER		DIVAGING	
TOP CHORD	2x4 SP No.2 *Except* 4-5: 2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 5-9-10 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-7 max.): 5-7.
BOT CHORD	2x6 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
	10-13: 2x6 SP 2400F 2.0E	WEBS	1 Row at midpt 5-15
WEBS	2x4 SP No.3		•
REACTIONS.	(size) 18=0-3-8, 10=0-3-8 Max Horz 18=181(LC 11) Max Uplift 18=-215(LC 12), 10=-434(LC 12) Max Grav 18=2062(LC 2), 10=2909(LC 2)		

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

 TOP CHORD
 2-3=-3045/316, 3-4=-2844/369, 4-5=-2860/357, 5-6=-6767/904, 6-7=-6767/904, 7-8=-4348/654, 2-18=-1967/246, 8-10=-2824/458

 BOT CHORD
 17-18=-96/604, 15-17=-161/2543, 14-15=-683/6829, 12-14=-680/6842, 11-12=-467/3680, 10-11=-75/554

 WEBS
 3-15=-332/143, 4-15=-229/2346, 5-15=-4908/641, 5-14=-0/413, 5-12=-781/487, 6-12=-566/127, 7-12=-357/3534, 7-11=-181/321, 2-17=-100/2038, 8-11=-392/3172

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
- Webs connected as follows: 2x4 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) 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); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 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) 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.

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	RVF-LOT #30 ROOF	
					166	;955426
24-4363-A	HG01	ROOF SPECIAL GIRDER	1	2		
				-	Job Reference (optional)	
Riverside Roof Truss, LLC,	Danville, Va - 24541,			8.730 s Ju	n 13 2024 MiTek Industries, Inc. Thu Jul 18 10:06:24 2024 Pag	ge 2
		ID:BxI2Mw)	au NHkb	raGCmHlo	vOvst-MU2mz3PTouxziBmHxDoOupJQWIXaG9DE7Z1Wtdyws	sqD

NOTES-

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=215, 10=434.
- 12) 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.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Use Simpson Strong-Tie LUS26-2 (4-10d Girder, 4-10d Truss) or equivalent at 25-1-8 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg. to the right, sloping 0.0 deg. down.
- 15) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 32-11-10 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg. to the right, sloping 0.0 deg. down.
- 16) Fill all nail holes where hanger is in contact with lumber.
- 17) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-2=-43, 2-4=-43, 4-5=-43, 5-7=-53, 7-8=-43, 8-9=-43, 10-18=-20 Concentrated Loads (lb)
 - Vert: 12=-185(F) 11=-437(F) 27=-812(F) 28=-185(F) 29=-185(F)

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

Job	Truss	Truss Type	Qty	Ply	RVF-LOT #30 ROOF	
04 4000 4	11000					166955427
24-4363-A	HG02		1	2	Job Reference (optional)	
Riverside Roof Truss, LLC.	Danville, Va - 24541.	•		8.730 s Ju	n 13 2024 MiTek Industries. Inc. Thu Jul 18 10:06:25 2024	Page 2

ID:Bxl2MwYau_NHkbraGCmHloyOvst-rgc8BPQ6ZC3qKLLTVxJdQ0slbiyX?lzNMDn3Q3ywsgC

NOTES-

14) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-43, 4-6=-53, 6-9=-43, 14-18=-20 Concentrated Loads (lb)

Vert: 13=-109(B) 10=-109(B) 24=-157(B) 25=-109(B) 26=-109(B) 27=-109(B) 28=-109(B) 29=-109(B) 30=-157(B)

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			2-11-11 2-11-11						
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.12 BC 0.08 WB 0.04 Matrix-MP	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.01 -0.00	(loc) 5-6 5-6 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 16 lb	GRIP 244/190 FT = 20%

LUMBER-

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

BRACING-TOP CHORD

 TOP CHORD
 Structural wood sheathing directly applied or 2-11-11 oc purlins, except end verticals.

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

REACTIONS. (size) 6=0-3-8, 3=Mechanical, 5=Mechanical Max Horz 6=91(LC 16) Max Uplift 6=-13(LC 16), 3=-27(LC 16), 5=-6(LC 16) Max Grav 6=187(LC 21), 3=82(LC 21), 5=59(LC 7)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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=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 2-10-15 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
- 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) 6, 3, 5.
- 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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TCLL (roof) 20.0 Dirac Grip DOL 2.000 Dirac Grip DOL 1.15 TC 0.08 Vert(LL) -0.00 6 >999 240 MT20 244/190 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 BC 0.01 Vert(LL) -0.00 6 >999 240 MT20 244/190 TCDL 10.0 Rep Stress Incr YES WB 0.03 Horz(CT) -0.00 3 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-MP Weight: 7 lb FT = 20%
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LUMBER-

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

BRACING-TOP CHORD

 TOP CHORD
 Structural wood sheathing directly applied or 0-11-11 oc purlins, except end verticals.

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

REACTIONS. (size) 6=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 6=33(LC 15) Max Uplift 6=-33(LC 16), 3=-22(LC 20), 4=-25(LC 16)

Max Grav 6=138(LC 2), 3=21(LC 16), 4=18(LC 14)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 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) 6, 3, 4.
- 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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TOP CHORD2-4=-706/189BOT CHORD2-7=-275/712, 6-7=-275/712

WEBS 4-6=-735/237

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=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 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
- 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) 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.



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- 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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 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
- 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.
- 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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		2-8-0	<u> </u>		+	3-8-0		
		2-8-0			·	1-0-0		
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 16.5/15.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCodeIRC2018/TPI2014	CSI. TC 0.21 BC 0.07 WB 0.05 Matrix-MP	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.00 10 -0.00 10 0.00 2	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 20 lb	GRIP 244/190 FT = 20%
LUMBER-		BR	ACING-					

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No 2 2x6 SP No.2 BOT CHORD WEBS 2x4 SP No.3 WEDGE Left: 2x4 SP No.3

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

Max Horz 2=44(LC 13) Max Uplift 2=-2(LC 16)

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

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=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.
- * 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 8) 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. 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Continued on page 2

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818 Soundside Road

Edenton, NC 27932

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.

Job	Truss	Truss Type	Qty	Ply	RVF-LOT #30 ROOF	
						66955433
24-4363-A	M02	HALF HIP	7	1		
					Job Reference (optional)	
Riverside Roof Truss, LLC.	Danville, Va - 24541,			8.730 s Ju	n 13 2024 MiTek Industries, Inc. Thu Jul 18 10:06:28 2024 F	Page 2

ID:Bxl2MwYau_NHkbraGCmHloyOvst-FFHHpQT_s7RPBp42A3tK2fTlkv3XB9nq2A?k0Oywsg9 LOAD CASE(S) Standard 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-43, 4-5=-83(F=-30), 6-8=-20 Concentrated Loads (lb) Vert: 12=-160 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: 12=-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(F=-89), 6-8=-20 Concentrated Loads (lb) Vert: 12=-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(F=-89), 6-8=-20 Concentrated Loads (lb) Vert: 12=-160 5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-42, 4-5=-114(F=-89), 6-8=-20 Concentrated Loads (lb) Vert: 12=-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=-135(F=-89), 6-8=-20 Concentrated Loads (lb) Vert: 12=-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 Concentrated Loads (lb) Vert: 12=-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=60, 2-11=50, 3-11=34, 4-5=16(F=-18), 6-8=-12 Horz: 1-2=-72, 2-11=-62, 3-11=-46, 3-4=10, 5-6=38 Concentrated Loads (lb) Vert: 12=-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=45, 2-3=50, 4-5=32(F=-18), 6-8=-12 Horz: 1-2=-57, 2-3=-62, 3-4=-51, 5-6=-24 Concentrated Loads (lb) Vert: 12=-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=1, 2-3=-46, 4-5=-64(F=-18), 6-8=-20 Horz: 1-2=-21, 2-3=26, 3-4=-30, 5-6=-35 Concentrated Loads (lb) Vert: 12=-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=-41, 2-3=-46, 4-5=-64(F=-18), 6-8=-20 Horz: 1-2=21, 2-3=26, 3-4=31, 5-6=27 Concentrated Loads (lb) Vert: 12=-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(F=-18), 6-8=-12 Horz: 1-2=-40, 2-3=-25, 3-4=-11, 5-6=18 Concentrated Loads (lb) Vert: 12=-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(F=-18), 6-8=-12 Horz: 1-2=-15, 2-3=-20, 3-4=-26, 5-6=-15 Concentrated Loads (lb) Vert: 12=-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(F=-18), 6-8=-20 Horz: 1-2=-4, 2-3=1, 3-4=31, 5-6=7

Continued on page 3

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Job	Truss	Truss Type	Qty	Ply	RVF-LOT #30 ROOF						
24 4262 4	MO2		7	1		166955433					
24-4303-A			'		Job Reference (optional)						
Riverside Roof Truss, LLC,	Danville, Va - 24541,	ID:B>	l2MwYau_N	8.730 s Ju IHkbraGCr	in 13 2024 MiTek Industries nHloyOvst-FFHHpQT_s7RI	, Inc. Thu Jul 18 10:06:28 2024 Page 3 PBp42A3tK2fTlkv3XB9nq2A?k0Oywsg9					
LOAD CASE(S) Standard Concentrated Loads (It	l b)										
15) Dead + 0.6 MWFRS W Uniform Loads (plf)	/ind (Neg. Internal) Right: Lur	nber Increase=1.60, Plate Increase=1.60									
Vert: 1-2=-5, 2 Horz: 1-2=-15	2-3=-10, 4-5=-39(F=-18), 6-8= , 2-3=-10, 3-4=-4, 5-6=-25	20									
Concentrated Loads (II Vert: 12=-160	0) /ind (Pos. Internal) 1st Parall/	al: Lumbar Increase-1.60. Plate Increase-1.6	0								
Uniform Loads (plf) Vert: 1-2=32, 2	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 Concentrate Loads (lb)											
Vert: 12=-160 17) Dead + 0.6 MWFRS W Uniform Loads (plf)	/ind (Pos. Internal) 2nd Parall	el: Lumber Increase=1.60, Plate Increase=1.	60								
Vert: 1-2=21, 2 Horz: 1-2=-33	2-3=6, 4-5=-12(F=-18), 6-8=- , 2-3=-18, 3-4=-24, 5-6=23	12									
Concentrated Loads (II Vert: 12=-160											
Uniform Loads (plf)	2-3=-21 4-5=-39(F=-18) 6-8	el: Lumber Increase=1.60, Plate Increase=1.	50								
Horz: 1-2=-4, 2 Concentrated Loads (II	2-3=1, 3-4=6, 5-6=12 b)										
Vert: 12=-160 19) Dead + 0.6 MWFRS W	/ind (Neg. Internal) 2nd Paral	lel: Lumber Increase=1.60, Plate Increase=1	60								
Vert: 1-2=-16, Horz: 1-2=-4	2-3=-21, 4-5=-39(F=-18), 6-8 2-3=1_3-4=6_5-6=12	3=-20									
Concentrated Loads (II Vert: 12=-160	b)										
20) Dead + Snow on Overl Uniform Loads (plf)	hangs: Lumber Increase=1.1	5, Plate Increase=1.15									
Vert: 1-2=-43, Concentrated Loads (It Vert: 12=-160	2-3=-20, 4-5=-50(F=-30), 6-8 5)	3=-20									
21) Dead + Snow (Unbal. I Uniform Loads (plf)	_eft): Lumber Increase=1.15,	Plate Increase=1.15									
Vert: 1-3=-49, Concentrated Loads (It	4-5=-57(F=-30), 6-8=-20 b)										
Vert: 12=-160 22) Dead + Snow (Unbal. F Uniform Loads (plf)	Right): Lumber Increase=1.15	5, Plate Increase=1.15									
Vert: 1-3=-27, Concentrated Loads (II	4-5=-85(F=-30), 6-8=-20										
Vert: 12=-160 23) Dead: Lumber Increase	e=0.90, Plate Increase=0.90	Plt. metal=0.90									
Uniform Loads (pif) Vert: 1-3=-20, Concentrated Loads (II	4-5=-50(F=-30), 6-8=-20										
Vert: 12=-160 24) Dead + 0.75 Snow (ba	s, l.) + 0.75 Attic Floor + 0.75(0.	.6 MWFRS Wind (Neg. Int) Left): Lumber Inc	ease=1.60,	Plate Inc	rease=1.60						
Uniform Loads (plf) Vert: 1-2=-34,	2-3=-38, 4-5=-124(F=-79), 6-	-8=-20									
Horz: 1-2=-3, Concentrated Loads (Il Vert: 12=-160	2-3=1, 3-4=23, 5-6=5 o)										
25) Dead + 0.75 Snow (ba Uniform Loads (plf)	I.) + 0.75 Attic Floor + 0.75(0.	.6 MWFRS Wind (Neg. Int) Right): Lumber In	crease=1.6	0, Plate In	crease=1.60						
Vert: 1-2=-26, Horz: 1-2=-11	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										
Vert: 12=-160 26) Dead + 0.75 Snow (ba	o) L) + 0 75 Attic Floor + 0 75(0	6 MWERS Wind (Neg. Int) 1st Parallel): Lum	ber Increas	e=1.60 P	late						
Increase=1.60 Uniform Loads (plf)	.)										
Vert: 1-2=-34, Horz: 1-2=-3,	2-3=-38, 4-5=-124(F=-79), 6- 2-3=1, 3-4=5, 5-6=9	-8=-20									
Concentrated Loads (II Vert: 12=-160 27) Dead ± 0.75 Spow (bo	0)	6 MWERS Wind (Neg. Int) 2nd Parallel's Lur	her Increas	se=1.60 E	Plate						
Increase=1.60	,,			55– 1.00, F							

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Job	Truss	Truss Type	Qty	Ply	RVF-LOT #30 ROOF			
24-4363-A	M02	HALF HIP	7	1		166955433		
Riverside Roof Truss, LLC,	Danville, Va - 24541,			8.730 s Ju	Job Reference (optional) In 13 2024 MiTek Industries, Inc. T	Thu Jul 18 10:06:28 2024 Page 4		
LOAD CASE(S) Standard Uniform Loads (plf) Vert: 1-2=-34, Horz: 1-2=-3, Concentrated Loads (II Vert: 12=-160 28) Dead + 0.75 Roof Live Uniform Loads (plf) Vert: 1-2=-47, Horz: 1-2=-3,	l 2-3=-38, 4-5=-124(F=-79), 6 2-3=1, 3-4=5, 5-6=9 o) (bal.) + 0.75 Attic Floor + 0.7 2-3=-51, 4-5=-129(F=-79), 6 2-3=1, 3-4=23, 5-6=5	IE -8=-20 75(0.6 MWFRS Wind (Neg. Int) Left): Lum -8=-20	:Bxl2MwYau_N per Increase=1	HkbraGCn .60, Plate	nHloyOvst-FFHHpQT_s7RPBp42A • Increase=1.60	\3tK2fTIkv3XB9nq2A?k0Oywsg9		
Vert: 12=-160 29) Dead + 0.75 Roof Live Uniform Loads (plf) Vert: 1-2=-39, Horz: 1-2=-11 Concentrated Loads (II Vert: 12=-160 20) Dead + 0.75 Roof Live	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, 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: 12=-160							
Uniform Loads (plf) Vert: 1-2=-47, Horz: 1-2=-3, Concentrated Loads (II Vert: 12=-160	(bal.) + 0.75 Attic Floor + 0.7 2-3=-51, 4-5=-129(F=-79), 6 2-3=1, 3-4=5, 5-6=9 p)	-8=-20	i): Lumber incr	ease=1.0	0, Plate increase=1.00			
 31) Dead + 0.75 Roof Live Uniform Loads (plf) Vert: 1-2=-47, Horz: 1-2=-3, Concentrated Loads (II Vert: 12=-160 32) Dead + Minimum Snov Uniform Loads (plf) Vert: 1-3=-20, 	Vert: 12=-100 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 (pf) 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: 12=-160 32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (pf) Vert: 1-3=-20, 4-5=-80(F=-30), 6-8=-20							
Concentrated Loads (II Vert: 12=-160 33) Dead + 0.6 C-C Wind I Uniform Loads (plf) Vert: 1-2=4, 2: Horz: 1-2=-16 Concentrated Loads (II Vert: 12=-160	9) Min. Down: Lumber Increase -3=-28, 4-5=-46(F=-18), 6-8= , 2-3=16, 3-4=-16, 5-6=-16 p)	=1.60, Plate Increase=1.60 -12						
 34) Dead + 0.6 C-C Wind I Uniform Loads (plf) Vert: 1-3=4, 4 Horz: 1-3=-16 Concentrated Loads (II Vert: 12=-160 35) 3rd Unbal.Dead + Sno Uniform Loads (plf) 	Min. Upward: Lumber Increas -5=-14(F=-18), 6-8=-12 , 3-4=16, 5-6=16 b) w (balanced) + Parallel: Lum	se=1.60, Plate Increase=1.60 ber Increase=1.15, Plate Increase=1.15						
Vert: 1-3=-27, Concentrated Loads (II Vert: 12=-160 36) 4th Unbal Dead + Sno Uniform Loads (II)	4-5=-100(F=-30), 6-8=-20 b) w (balanced) + Parallel: Lum	ber Increase=1.15, Plate Increase=1.15						
Vert: 1-3=-70, Concentrated Loads (II Vert: 12=-160 37) 5th Unbal.Dead + 0.75	4-5=-57(F=-30), 6-8=-20 b) Snow (balanced) + 0.75 Atti	c Floor + Parallel: Lumber Increase=1.15,	Plate Increase	=1.15				
Uniform Loads (plf) Vert: 1-3=-25, Concentrated Loads (II Vert: 12=-160 28) 6th Unbal Doad + 0.75	Uniform Loads (plf) Vert: 1-3=-25, 4-5=-146(F=-89), 6-8=-20 Concentrated Loads (lb) Vert: 12=-160							
Uniform Loads (plf) Vert: 1-3=-57, Concentrated Loads (I Vert: 12=-160	4-5=-114(F=-89), 6-8=-20 p)			-1.10				
39) 7th Unbal.Dead + 0.75 Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-22, Horz: 1-2=-3, Concentrated Loads (II)	Snow (unbal.) + 0.75 Attic F 2-3=-26, 4-5=-137(F=-79), 6 2-3=1, 3-4=23, 5-6=5 o)	loor + 0.75(0.6 MWFRS Wind (Neg. Int) L -8=-20	eft) + Parallel:	Lumber In	acrease=1.60,			
Vert: 12=-160								

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Job	Truss	Truss Type	Qty	Ply	RVF-LOT #30 ROOF				
24-4363-A	M02	HALF HIP	7	1	166955433				
Diverside Deef Truce 11.0				9 720 a hu	Job Reference (optional)				
Riverside Roof Truss, LLC,	Danville, va - 24541,	ID:BxI2	MwYau_N	HkbraGCm	nH3 2024 Millek Industries, Inc. Thu Jul 18 10.06.28 2024 Page 5 nHloyOvst-FFHHpQT_s7RPBp42A3tK2fTlkv3XB9nq2A?k0Oywsg9				
LOAD CASE(S) Standard 40) 8th Unbal.Dead + 0.75 Uniform Loads (plf) Vert: 1-2=-54, Horz: 1-2=-3, 2 Concentrated Loads (II	LOAD CASE(S) Standard 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 (Ib)								
Vert: 12=-160 41) 9th Unbal.Dead + 0.75 Uniform Loads (plf) Vert: 1-2=-14, Horz: 1-2=-11, Concentrated Loads (lk Vert: 12=-160	Vert: 12=-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: 12=-160								
42) 10th Unbal.Dead + 0.75 Uniform Loads (plf) Vert: 1-2=-46, Horz: 1-2=-11, Concentrated Loads (lk	 Velt. 12=-100 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: 12=-160 43) 11th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-22, Horz: 1-2=-3, 2 Concentrated Loads (lk	5 Snow (unbal.) + 0.75 Attic I 2-3=-26, 4-5=-137(F=-79), 6- 2-3=1, 3-4=5, 5-6=9	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st F -8=-20	arallel): Lu	imber Incr	rease=1.60, Plate Increase=1.60				
Vert: 12=-160 44) 12th Unbal.Dead + 0.79 Uniform Loads (plf) Vert: 1-2=-54, Horz: 1-2=-3, 2 Concentrated Loads (lt Vert: 12=-160	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 (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)								
45) 13th Unbal.Dead + 0.75 Uniform Loads (plf) Vert: 1-2=-22, Horz: 1-2=-3, 2 Concentrated Loads (lk Vert: 12=-160	5 Snow (unbal.) + 0.75 Attic l 2-3=-26, 4-5=-137(F=-79), 6- 2-3=1, 3-4=5, 5-6=9 >)	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd I -8=-20	Parallel): Li	umber Inc	prease=1.60, Plate Increase=1.60				
46) 14th Unbal.Dead + 0.75 Uniform Loads (plf) Vert: 1-2=-54, Horz: 1-2=-3, 2 Concentrated Loads (lt Vert: 12=-160	5 Snow (unbal.) + 0.75 Attic I 2-3=-58, 4-5=-105(F=-79), 6 2-3=1, 3-4=5, 5-6=9))	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd I -8=-20	Parallel): L	umber Inc	rrease=1.60, Plate Increase=1.60				
47) 15th Unbal.Dead + Min Uniform Loads (plf) Vert: 1-3=-27, Concentrated Loads (lt Vert: 12=-160	imum Snow + Parallel: Lumb 4-5=-100(F=-30), 6-8=-20))	per Increase=1.15, Plate Increase=1.15							
48) 16th Unbal.Dead + Min Uniform Loads (plf) Vert: 1-3=-70, Concentrated Loads (lk Vert: 12=-160	imum Snow + Parallel: Lumb 4-5=-57(F=-30), 6-8=-20))	per Increase=1.15, Plate Increase=1.15							
49) 1st Dead + Roof Live (r Uniform Loads (plf) Vert: 1-3=-60, Concentrated Loads (lt Vert: 12=-160	unbalanced): Lumber Increas 4-5=-50(F=-30), 6-8=-20))	se=1.15, Plate Increase=1.15							
50) 2nd Dead + Roof Live (Uniform Loads (plf) Vert: 1-3=-20, Concentrated Loads (lk Vert: 12=-160	(unbalanced): Lumber Increa 4-5=-90(F=-30), 6-8=-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: 12=-160	Live (unbalanced) + 0.75 Attion 4-5=-109(F=-89), 6-8=-20 b)	c Floor: Lumber Increase=1.15, Plate Increase	=1.15						
52) 4th Dead + 0.75 Roof L Uniform Loads (plf) Vert: 1-3=-20, Concentrated Loads (lk Vert: 12=-160	ive (unbalanced) + 0.75 Attio 4-5=-139(F=-89), 6-8=-20 >)	c Floor: Lumber Increase=1.15, Plate Increase	=1.15						

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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.

- Provide adequate drainage to prevent water ponding.
- 7) Gable requires continuous bottom chord bearing.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 12) 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.
- 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.

LOAD CASE(S) Standard Continued on page 2

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A MiTek A 818 Soundside Road

	T	Tauna Tuma	05	DI				
JOD	Truss	Truss Type	Qty	Piy	RVF-LOT #30 ROOF	166955434		
24-4363-A	M02GE	HALF HIP	1	1	Job Reference (optional			
Riverside Roof Truss, LLC,	Danville, Va - 24541,			8.730 s Ju	n 13 2024 MiTek Industrie	2 es, Inc. Thu Jul 18 10:06:28 2024 Page 2		
Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Jun 13 2024 MiTek Industries, Inc. Thu Jul 18 10:06:28 2024 Page 2 ID:Bxl2MwYau_NHkbraGCmHloyOvst-FFHHpQT_s7RPBp42A3tK2fTJyv4FB9Lq2A?k0Oywsg9								
 b) Dead + 0.75 bits of low (on both of the construction of the construction) and the construction of the construction	 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, 4-5=-194, 2-6=-20 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=-215, 2-6=-20 7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 							
Vert: 1-3=-20, 4 8) Dead + 0.6 C-C Wind (F Uniform Loads (plf) Vert: 1-2=108, 1 Horz: 1-2=120	-5=-130, 2-6=-40 Pos. Internal) Case 1: Lumber 2-3=81, 4-5=-17, 2-6=-12 2-3=-93 3-4=10 5-6=46	Increase=1.60, Plate Increase=1.60						
9) Dead + 0.6 C-C Wind (F Uniform Loads (plf) Vert: 1-2=76, 2- Horz: 1-2=88, 2	Cos. Internal) Case 2: Lumber 3=81, 4-5=-17, 2-6=-12 -3=-93, 3-4=-11, 5-6=-24	Increase=1.60, Plate Increase=1.60						
Uniform Loads (plf) Vert: 1-2=1, 2- Horz: 1-2=21, 11) Dead + 0.6 C-C Wind (Uniform Loads (plf)	-3=-46, 4-5=-144, 2-6=-20 2-3=26, 3-4=11, 5-6=-35 Neg. Internal) Case 2: Lumb	er Increase=1.60, Plate Increase=1.60						
Vert: 1-2=-41, Horz: 1-2=-21 12) Dead + 0.6 MWFRS W Uniform Loads (plf)	2-3=-46, 4-5=-144, 2-6=-20 , 2-3=26, 3-4=31, 5-6=36 /ind (Pos. Internal) Left: Lumb	per Increase=1.60, Plate Increase=1.60						
Vert: 1-2=28, i Horz: 1-2=40, 13) Dead + 0.6 MWFRS W Uniform Loads (plf) Vert: 1-2=3, 2 Horz: 1-2=15.	2-3=13, 4-5=-72, 2-6=-12 2-3=-25, 3-4=-11, 5-6=18 (ind (Pos. Internal) Right: Lur -3=8, 4-5=-72, 2-6=-12 2-3=-20, 3-4=-26, 5-6=-15	nber Increase=1.60, Plate Increase=1.60						
14) Dead + 0.6 MWFRS W Uniform Loads (plf) Vert: 1-2=-16, Horz: 1-2=4, 2	/ind (Neg. Internal) Left: Luml 2-3=-21, 4-5=-119, 2-6=-20 -3=1, 3-4=31, 5-6=7	per Increase=1.60, Plate Increase=1.60						
15) Dead + 0.6 MWFRS W Uniform Loads (plf) Vert: 1-2=-5, 2 Horz: 1-2=15,	/ind (Neg. Internal) Right: Lur 2-3=-10, 4-5=-119, 2-6=-20 2-3=-10, 3-4=-4, 5-6=-25	nber Increase=1.60, Plate Increase=1.60						
16) Dead + 0.6 MWFRS W Uniform Loads (plf) Vert: 1-2=32, 1 Horz: 1-2=44,	/ind (Pos. Internal) 1st Paralle 2-3=17, 4-5=-81, 2-6=-12 2-3=-29, 3-4=-34, 5-6=23	al: Lumber Increase=1.60, Plate Increase=1	.60					
17) Dead + 0.6 MWFRS W Uniform Loads (plf) Vert: 1-2=21, Horz: 1-2=33,	′ind (Pos. Internal) 2nd Parall 2-3=6, 4-5=-92, 2-6=-12 2-3=-18, 3-4=-24, 5-6=23	el: Lumber Increase=1.60, Plate Increase=	.60					
18) Dead + 0.6 MWFRS W Uniform Loads (plf) Vert: 1-2=-16, Horz: 1-2=4, 2	'ind (Neg. Internal) 1st Parall 2-3=-21, 4-5=-119, 2-6=-20 -3=1, 3-4=6, 5-6=12	el: Lumber Increase=1.60, Plate Increase=1	.60					
19) Dead + 0.6 MWFRS W Uniform Loads (plf) Vert: 1-2=-16, Horz: 1-2=4, 2	/ind (Neg. Internal) 2nd Paral 2-3=-21, 4-5=-119, 2-6=-20 i-3=1, 3-4=6, 5-6=12	lel: Lumber Increase=1.60, Plate Increase=	1.60					
20) Dead + Snow on Overl Uniform Loads (plf) Vert: 1-2=-43, 21) Dead + Snow (Unbal. I	nangs: Lumber Increase=1.1 2-3=-20, 4-5=-130, 2-6=-20 Left): Lumber Increase=1.15.	5, Plate Increase=1.15 Plate Increase=1.15						
Uniform Loads (plf) Vert: 1-3=-49,	4-5=-137, 2-6=-20							

Continued on page 3

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Job	Truss	Truss Type	Qty	Ply	RVF-LOT #30 ROOF	10005542
24-4363-A	M02GE	HALF HIP	1	1		100955434
Piverside Poof Truss LLC	Dapville, Va - 24541			8 730 c li	Job Reference (optional)	28 2024 Page 3
Riverside Roor Huss, LLC,	Dariville, va - 24541,	ID:B	d2MwYau_N	HkbraGCn	nHoyOvst-FFHHpQT_s7RPBp42A3tK2fTJyv4FB9Lo	2024 Page 3 2A?k0Oywsg9
LOAD CASE(S) Standard 22) Dead + Snow (Unbal. I Uniform Loads (plf) Vert: 1-3=-27	Right): Lumber Increase=1.15	5, Plate Increase=1.15				
23) Dead: Lumber Increase Uniform Loads (plf)	e=0.90, Plate Increase=0.90	Plt. metal=0.90				
Vert: 1-3=-20, 24) Dead + 0.75 Snow (ba	4-5=-130, 2-6=-20 l.) + 0.75 Attic Floor + 0.75(0.	6 MWFRS Wind (Neg. Int) Left): Lumber In	rease=1.60	, Plate Inc	rease=1.60	
Uniform Loads (plf) Vert: 1-2=-34,	2-3=-38, 4-5=-204, 2-6=-20					
Horz: 1-2=3, 2 25) Dead + 0.75 Snow (ba	-3=1, 3-4=23, 5-6=5 l.) + 0.75 Attic Floor + 0.75(0.	6 MWFRS Wind (Neg. Int) Right): Lumber I	ncrease=1.6	0, Plate Ir	crease=1.60	
Uniform Loads (plf)						
Vert: 1-2=-26, Horz: 1-2=11,	2-3=-30, 4-5=-204, 2-6=-20 2-3=-7, 3-4=-3, 5-6=-19					
26) Dead + 0.75 Snow (ba Uniform Loads (plf)	I.) + 0.75 Attic Floor + 0.75(0.	6 MWFRS Wind (Neg. Int) 1st Parallel): Lui	nber Increas	e=1.60, F	late Increase=1.60	
Vert: 1-2=-34, Horz: 1-2=3. 2	2-3=-38, 4-5=-204, 2-6=-20 -3=1, 3-4=5, 5-6=9					
27) Dead + 0.75 Snow (ba Uniform Loads (plf)	l.) + 0.75 Attic Floor + 0.75(0.	6 MWFRS Wind (Neg. Int) 2nd Parallel): Lu	mber Increa	se=1.60, I	Plate Increase=1.60	
Vert: 1-2=-34,	2-3=-38, 4-5=-204, 2-6=-20					
28) Dead + 0.75 Roof Live Uniform Loads (plf)	(bal.) + 0.75 Attic Floor + 0.7	5(0.6 MWFRS Wind (Neg. Int) Left): Lumbe	r Increase=1	.60, Plate	Increase=1.60	
Vert: 1-2=-47, Horz: 1-2=3, 2	2-3=-51, 4-5=-209, 2-6=-20 -3=1, 3-4=23, 5-6=5					
29) Dead + 0.75 Roof Live Uniform Loads (plf)	(bal.) + 0.75 Attic Floor + 0.7	5(0.6 MWFRS Wind (Neg. Int) Right): Lumb	er Increase:	=1.60, Pla	te Increase=1.60	
Vert: 1-2=-39, Horz: 1-2=11	2-3=-43, 4-5=-209, 2-6=-20 2-3=-7 3-4=-3 5-6=-19					
30) Dead + 0.75 Roof Live	(bal.) + 0.75 Attic Floor + 0.7	5(0.6 MWFRS Wind (Neg. Int) 1st Parallel)	Lumber Inc	rease=1.6	0, Plate Increase=1.60	
Vert: 1-2=-47,	2-3=-51, 4-5=-209, 2-6=-20					
Horz: 1-2=3, 2 31) Dead + 0.75 Roof Live	-3=1, 3-4=5, 5-6=9 (bal.) + 0.75 Attic Floor + 0.7	5(0.6 MWFRS Wind (Neg. Int) 2nd Parallel)	Lumber Ind	crease=1.0	60, Plate Increase=1.60	
Uniform Loads (plf) Vert: 1-2=-47,	2-3=-51, 4-5=-209, 2-6=-20					
Horz: 1-2=3, 2 32) Dead + Minimum Snov	-3=1, 3-4=5, 5-6=9 v: Lumber Increase=1 15, Pla	te Increase=1 15				
Uniform Loads (plf)						
Vert: 1-3=-20, 33) Dead + 0.6 C-C Wind I	4-5=-160, 2-6=-20 ∕lin. Down: Lumber Increase⊧	=1.60. Plate Increase=1.60				
Uniform Loads (plf)	2 20 4 5 420 2 6 42					
Horz: 1-3=16,	3-4=-16, 5-6=-16					
34) Dead + 0.6 C-C Wind I Uniform Loads (plf)	Min. Upward: Lumber Increas	e=1.60, Plate Increase=1.60				
Vert: 1-3=4, 4	-5=-94, 2-6=-12					
Horz: 1-2=16, 35) 3rd Unbal.Dead + Sno	2-3=-16, 3-4=16, 5-6=16 w (balanced) + Parallel: Luml	per Increase=1.15, Plate Increase=1.15				
Uniform Loads (plf)	4 5 400 0 0 00					
36) 4th Unbal.Dead + Sno	w (balanced) + Parallel: Lumb	per Increase=1.15, Plate Increase=1.15				
Uniform Loads (plf) Vert: 1-3=-70	4-5=-137 2-6=-20					
37) 5th Unbal.Dead + 0.75	Snow (balanced) + 0.75 Attic	Floor + Parallel: Lumber Increase=1.15, P	ate Increase	=1.15		
Uniform Loads (plf) Vert: 1-3=-25,	4-5=-226, 2-6=-20					
38) 6th Unbal.Dead + 0.75	Snow (balanced) + 0.75 Attic	c Floor + Parallel: Lumber Increase=1.15, P	ate Increase	e=1.15		
Vert: 1-3=-57,	4-5=-194, 2-6=-20					
39) 7th Unbal.Dead + 0.75 Plate Increase=1.60	Snow (unbal.) + 0.75 Attic Fl	oor + 0.75(0.6 MWFRS Wind (Neg. Int) Lef) + Parallel:	Lumber Ir	ncrease=1.60,	
Uniform Loads (plf) Vert: 1-2=-22.	2-3=-26, 4-5=-217. 2-6=-20					
Horz: 1-2=3, 2	-3=1, 3-4=23, 5-6=5		. Devellate			
40) 8th Unbal.Dead + 0.75 Plate Increase=1.60	Snow (unbal.) + 0.75 Attic Fl	oor + 0.75(0.6 MWFRS Wind (Neg. Int) Lef) + Parallel:	Lumber Ir	icrease=1.60,	
Uniform Loads (plf)						
vert: 1-2=-54, Horz: 1-2=3, 2	∠-ɔ=-ɔø, 4-ɔ=-1øɔ, 2-b=-20 2-3=1, 3-4=23, 5-6=5					
41) 9th Unbal.Dead + 0.75 Increase=1.60, Plate In	Snow (unbal.) + 0.75 Attic Fl hcrease=1.60	oor + 0.75(0.6 MWFRS Wind (Neg. Int) Rig	nt) + Paralle	l: Lumber		

Continued on page 4

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Job	Truss	Truss Type	Qty	Ply	RVF-LOT #30 ROOF
24-4363-0	MOOGE		1	1	166955434
24-4303-A			1		Job Reference (optional)
Riverside Roof Truss, LLC,	Danville, Va - 24541,		_	8.730 s Ju	n 13 2024 MiTek Industries, Inc. Thu Jul 18 10:06:28 2024 Page 4
		ID:Bxl2	MwYau_N	HkbraGCm	HloyOvst-FFHHpQT_s7RPBp42A3tK2fTJyv4FB9Lq2A?k0Oywsg9
LOAD CASE(S) Standard					
Vort: 1 2- 14	2 2 1 1 1 5 217 2 6 20				
Horz: 1-2=-14,	2-37 3-43 5-619				
42) 10th Unbal Dead + 0.7	5 Snow (unbal) + 0.75 Attic	Floor + 0 75(0.6 MWERS Wind (Neg. Int) Righ	t) + Parall	el· Lumber	Increase=1.60 Plate Increase=1.60
Liniform Loads (nlf)			y i i aiai		
Vert: 1-2=-46	2-3=-50 4-5=-185 2-6=-20				
Horz: 1-2=11.	2-3=-7. 3-4=-3. 5-6=-19				
43) 11th Unbal.Dead + 0.7	5 Snow (unbal.) + 0.75 Attic	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st F	arallel): L	umber Incr	rease=1.60, Plate Increase=1.60
Uniform Loads (plf)			,		
Vert: 1-2=-22,	2-3=-26, 4-5=-217, 2-6=-20				
Horz: 1-2=3, 2	-3=1, 3-4=5, 5-6=9				
44) 12th Unbal.Dead + 0.7	5 Snow (unbal.) + 0.75 Attic	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st F	Parallel): L	umber Incr	rease=1.60, Plate Increase=1.60
Uniform Loads (plf)					
Vert: 1-2=-54,	2-3=-58, 4-5=-185, 2-6=-20				
Horz: 1-2=3, 2	-3=1, 3-4=5, 5-6=9				
45) 13th Unbal.Dead + 0.7	5 Snow (unbal.) + 0.75 Attic	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd	Parallel): I	_umber Inc	crease=1.60, Plate Increase=1.60
Uniform Loads (plf)					
Vert: 1-2=-22,	2-3=-26, 4-5=-217, 2-6=-20				
Horz: 1-2=3, 2	-3=1, 3-4=5, 5-6=9		D II - I) - I		
46) 14th Unbal.Dead + 0.7	5 Snow (unbal.) + 0.75 Attic	FIGOR + 0.75(0.6 MIVVERS WIND (Neg. Int) 2nd	Parallel): I	_umber inc	crease=1.60, Plate increase=1.60
Vort: 1 2- 54	2 2 - 59 4 5 - 195 2 6 - 20				
Vent. 1-2=-34,	2-3=-30, 4-3=-103, 2-0=-20				
47) 15th Unbal Dead + Mir	-5=1, 5-4=5, 5-6=9 himum Snow + Parallel: Lumb	per Increase-1 15 Plate Increase-1 15			
Uniform Loads (plf)					
Vert: 1-3=-27.	4-5=-180, 2-6=-20				
48) 16th Unbal.Dead + Mir	nimum Snow + Parallel: Lumb	per Increase=1.15. Plate Increase=1.15			
Uniform Loads (plf)					
Vert: 1-3=-70,	4-5=-137, 2-6=-20				
49) 1st Dead + Roof Live (unbalanced): Lumber Increas	se=1.15, Plate Increase=1.15			
Uniform Loads (plf)					
Vert: 1-3=-60,	4-5=-130, 2-6=-20				
50) 2nd Dead + Roof Live	(unbalanced): Lumber Increa	ase=1.15, Plate Increase=1.15			
Uniform Loads (plf)					
Vert: 1-3=-20,	4-5=-170, 2-6=-20				
51) 3rd Dead + 0.75 Root	Live (unbalanced) + 0.75 Atti-	c Floor: Lumber Increase=1.15, Plate Increase	=1.15		
Uniform Loads (plf)	1 5 100 0 0 00				
Vert: 1-3=-50,	4-5=-189, 2-6=-20	- Fleen Lumber Jacrose 4.45 Dist- la	4 45		
32 4(1) Dead + 0.75 R001 I	Live (unbalanced) + 0.75 Attle	C FIOOL LUMDER INCREASE=1.15, Plate INCREASE	=1.15		
Vert: 1-320	4-5219 2-620				
ven. 1-3=-20,	- 5- 213, 2-020				

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LUMBER-

BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins, BOT CHORD 2x4 SP No.2 except end verticals. WEBS 2x4 SP No.3 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. SLIDER Left 2x4 SP No.3 2-6-0

REACTIONS. (size) 5=Mechanical, 2=0-3-8 Max Horz 2=57(LC 15) Max Uplift 5=-7(LC 16), 2=-39(LC 16) Max Grav 5=137(LC 21), 2=208(LC 21)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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) 5, 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.



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BOT CHORD

except end verticals.

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

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x4 SP No.3

 SLIDER
 Left 2x4 SP No.3 2-6-0

REACTIONS. (size) 1=0-3-8, 4=Mechanical Max Horz 1=53(LC 15)

Max Uplift 1=-7(LC 16), 4=-10(LC 16) Max Grav 1=141(LC 2), 4=141(LC 2)

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=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.
- 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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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 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)



a trust system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria 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	RVF-LOT #30 ROOF	
						166955438
24-4363-A	M04G	Monopitch Girder	1	2		
				_	Job Reference (optional)	
Riverside Roof Truss, LLC,	Danville, Va - 24541,			8.730 s Ju	n 13 2024 MiTek Industries, Inc. Thu Jul 18 10:06:3	30 2024 Page 2

ID:Bxl2MwYau_NHkbraGCmHloyOvst-BeP1E6UEOkh7Q6DQIUvo74ZdBjXuf3n7VUUq5Hywsg7

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 6=-770(B) 7=-769(B)

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			3-3-4					
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.17 BC 0.11 WB 0.06 Matrix-MP	DEFL. in Vert(LL) -0.01 Vert(CT) -0.01 Horz(CT) -0.00	(loc) 4-5 4-5 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 22 lb	GRIP 244/190 FT = 20%

LUMBER-

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

BRACING-

 TOP CHORD
 Structural wood sheathing directly applied or 3-5-4 oc purlins, except end verticals.

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

REACTIONS. (size) 5=0-3-8, 4=Mechanical Max Horz 5=98(LC 15) Max Unit 5 = 27(1 C 16) 4 = 22(1 C

Max Uplift 5=-37(LC 16), 4=-32(LC 13) Max Grav 5=200(LC 2), 4=129(LC 21)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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=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 3-3-8 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) 5, 4.
- 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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			3-2-9	
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 0.12 BC 0.10 WB 0.04 Matrix-MP	DEFL. in (loc) I/defl L/d F Vert(LL) -0.00 4-5 >999 240 M Vert(CT) -0.01 4-5 >999 180 Horz(CT) -0.00 4 n/a n/a	PLATES GRIP VT20 244/190 Veight: 18 lb FT = 20%

LUMBER-

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

BRACING-

 TOP CHORD
 Structural wood sheathing directly applied or 3-2-9 oc purlins, except end verticals.

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

REACTIONS. (size) 4=Mechanical, 5=0-3-8 Max Horz 5=69(LC 13) Max Uplift 4=-15(LC 13), 5=-41(LC 16) Max Grav 4=109(LC 21), 5=200(LC 21)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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=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 3-0-13 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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, 5.
- 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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	_ugoj								
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYES	CSI. TC 0.02 BC 0.06 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 4 4 4	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 244/190
BCDL 0.0 "	Code IRC2018/TPI2014	Matrix-P						Weight: 10 lb	FT = 20%
LUMBER-		BR	ACING-						

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 2=2-3-11, 4=2-3-11 Max Horz 2=19(LC 15) Max Uplift 2=-21(LC 16), 4=-21(LC 16) Max Grav 2=122(LC 2), 4=122(LC 2)

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=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 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) 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.

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

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.

11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Structural wood sheathing directly applied or 4-0-0 oc purlins.

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

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		8-7-12	17-0-0		22-10-0	28-8-0	1	38-0-0		
	I	8-7-12	8-4-4	1	5-10-0	5-10-0	1	9-4-0		
Plate Offsets (X,Y) [2:0-2-0,0-1-1	2]								
LOADING (ps TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	sf) 20.0 16.5/15.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI2	2-0-0 CSI. 1.15 TC 1.15 BC YES WB 2014 Matri	0.89 0.81 0.71 x-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.81 17-19 -1.30 17-19 0.10 13	l/defl >556 >347 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 259 lb	GRIP 244/190 FT = 20%
LUMBER-					BRACING-					
TOP CHORD	2x4 SP No.2 *Excep 4-6,7-9: 2x4 SP DSS	*			TOP CHORD	Structural wood 2-0-0 oc purlins	sheathing (3-11-6 m	directly applie ax.): 6-7.	ed, except end vertic	als, and
BOT CHORD	2x4 SP DSS				BOT CHORD	Rigid ceiling dire	ectly applie	ed or 9-7-6 oc	bracing. Except:	
WEBS	2x4 SP No.3					6-0-0 oc bracing	g: 16-19			
					WEBS	1 Row at midpt	-	5-20, 7-19, 3	3-23, 10-13	

REACTIONS. (size) 23=0-3-8, 13=0-3-8 Max Horz 23=233(LC 15) Max Uplift 23=-73(LC 16), 13=-47(LC 16) Max Grav 23=1984(LC 28), 13=2067(LC 29)

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

 TOP CHORD
 2-3=-624/98, 3-5=-2823/122, 5-6=-2353/128, 6-7=-1953/138, 7-8=-3178/180, 8-10=-3035/36, 10-11=-429/75, 2-23=-511/120, 11-13=-394/101

 BOT CHORD
 22-23=0/2508, 20-22=0/2392, 18-20=0/1978, 14-18=0/1978, 13-14=0/2361

WEBS 5-22=-14/334, 5-20=-579/149, 6-20=0/951, 7-19=-84/353, 7-16=-54/1329,

14-16=-110/1154, 8-14=-557/196, 10-14=0/310, 3-23=-2376/2, 10-13=-2623/0

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 17-0-0, Exterior(2E) 17-0-0 to 21-0-0, Exterior(2R) 21-0-0 to 26-4-8, Interior(1) 26-4-8 to 38-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 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.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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	7	-7-12	17-0-0			23-0-0		28-8-0		:	38-0-0	
Plate Offsets (X	/ (,Y) [10:0-2-8/	,0-1-12]	9-4-4			0-0-0		3-0-0			9-4-0	
LOADING (psf TCLL (roof) Snow (Pf/Pg) TCDL BCLL	i) 20.0 16.5/15.0 10.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code_IRC2018/TP	2-0-0 1.15 1.15 YES 12014	CSI. TC BC WB Matri	0.96 0.99 0.88 x-MS	DEFL. Vert(L) Vert(C) Horz(C)	in -) -0.81 T) -1.30 CT) 0.09	(loc) 16 16 12	l/defl >560 >346 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 257 lb	GRIP 244/190 FT = 20%
BCDL	10.0		12014	Math	× 100						Weight: 207 lb	11 = 2070
LUMBER- TOP CHORD BOT CHORD WEBS	2x4 SP DSS *E) 5-7: 2x4 SP No. 2x4 SP DSS *E) 20-22: 2x4 SP N 2x4 SP No.3 *E) 2-22: 2x6 SP No	ccept* 2, 1-4,8-11: 2x4 SP No.1 ccept* lo.2, 15-18: 2x4 SP No.1 ccept* 0.2				BRACING- TOP CHORD BOT CHORD WEBS	Structur 2-0-0 oc Rigid ce 5-3-0 oc 1 Row a 2 Rows	al wood c purlins eiling dir c bracing at midpt at 1/3 p	l sheathir (3-1-11) ectly app g: 15-18 ts	ng directly app max.): 5-7. lied or 9-2-13 6-19, 7-19 9-12	blied, except end vertic oc bracing. Except:	als, and
REACTIONS.	(size) 22=0 Max Horz 22=- Max Uplift 22=- Max Grav 22=1	-3-8, 12=0-3-8 211(LC 14) 76(LC 16), 12=-47(LC 16) 985(LC 28), 12=2071(LC	29)									
FORCES. (Ib) TOP CHORD BOT CHORD WEBS) - Max. Comp./M 2-3=-2836/87, 9-10=-705/178 21-22=-104/62 3-21=-534/208 7-15=0/1087,	ax. Ten All forces 250 (3-5=-2906/232, 5-6=-214 3, 2-22=-1861/117, 10-12= 20, 19-21=0/2078, 17-19= 3, 5-21=-158/726, 5-19=0/ 13-15=-38/907, 9-13=-327	b) or less exce 7/120, 6-7=-21 584/168 D/2064, 13-17= 903, 6-19=-455 /203, 2-21=0/1	pt when sh 46/121, 7-9 0/2064, 12- 5/87, 18-19= 983, 9-12=	own.)=-3018/1 -13=0/252 =-50/273, -2557/0	19, 21 7-18=0/449,						
NOTES- 1) Unbalanced 2) Wind: ASCE II; Exp B; En to 20-4-8, Int exposed; en grip DOL=1.4 3) TCLL: ASCE DOL=1.15); surcharge ap 4) Unbalanced 5) This truss ha non-concurre 6) Provide aded 7) This truss ha 8) * This truss ha 8) * This truss ha 10) This truss in will fit betwee 9) Provide mec 10) This truss in referenced 11) Graphical p	roof live loads ha 7-16; Vult=130m closed; MWFRS terior(1) 20-4-8 tc d vertical left and 60 7-16; Pr=20.0 p Is=1.0; Rough Ca opplied to all expos snow loads have as been designed has been designed has been designed the bottom chi chanical connection s designed in acc standard ANSI/T burlin representat	ave been considered for the ph (3-second gust) Vasda (directional) and C-C Exter 23-0-0, Exterior(2R) 23-0 d right exposed;C-C for m sf (roof LL: Lum DOL=1.1 at B; Partially Exp.; Ce=1.) sed surfaces with slopes I been considered for this for greater of min roof live loads. a prevent water ponding. I for a live load of 20.0ps or d and any other member bon (by others) of truss to be cordance with the 2018 International content of the size of the	is design. =103mph; TCD erior(2E) -0-11-)-0 to 28-4-8, Ir embers and for 5 Plate DOL=1 0; Cs=1.00; Ct= ses than 0.500, design. e load of 12.0 p rd live load nor f on the bottom rs, with BCDL = earing plate ca ernational Res	L=6.0psf; E 0 to 2-10-11 nterior(1) 28 ces & MWF css & MWF css & MWF c1.10, Lu=5 (12 in accord) osf or 1.00 t nconcurrent a chord in al = 10.0psf. pable of wi idential Coord ation of the	CDL=6.0 0, Interior 3-4-8 to 34 RS for re 5.0 psf; Pf 50-0-0; Mi dance wi imes flat t t with any II areas w thstanding de sectior purlin alo	psf; h=25ft; B=45 (1) 2-10-10 to 15 3-11-0 zone; cant actions shown; L =16.5 psf (Lum D n. flat roof snow l th IBC 1608.3.4. roof load of 11.6 p other live loads. here a rectangle g 100 lb uplift at j is R502.11.1 and ng the top and/or	ft; L=38ft; e 0-0, Exterio lever left ar umber DOL OL=1.15 P bad govern 0sf on overf 3-6-0 tall by bint(s) 22, 1 R802.10.2 bottom cho	ave=5ft pr(2R) 1 nd right =1.60 p late s. Rain nangs y 2-0-0 y 2. and prd.	; Cat. 5-0-0 late <i>v</i> ide	The second secon	SEAL 036322	024

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	6-7-1	2 13-0-0	17-0-0	22-10-0	28-8-0	3	38-0-0	
	<u> </u>		4-0-0	5-10-0	5-10-0		9-4-0	
Plate Olisets (X,	<u>Y) [2:0-2-0,0</u>	-1-12], [10:0-2-8,0-1-12]						
LOADING (psf)	20.0	SPACING- 2-0-0	CSI.	DEFL.	in (loc) l/de	fl L/d	PLATES	GRIP
Spow (Pf/Pg) 16	20.0	Plate Grip DOL 1.15	TC 0.99	Vert(LL)	-0.70 15-16 >64	2 240	MT20	244/190
	10.0	Lumber DOL 1.15	BC 0.81	Vert(CT) -1.18 15-16 >38	4 180		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.86	Horz(CT	⁻) 0.09 12 n/	a n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MS				Weight: 252 lb	FT = 20%
LUMBER-				BRACING-			•	
TOP CHORD 2	2x4 SP No.2 *Ex	ccept*		TOP CHORD	Structural wood sheat	hing directly app	lied, except end verti	cals, and
5	5-7: 2x4 SP DSS	8			2-0-0 oc purlins (3-6-1	4 max.): 5-7.	,	
BOT CHORD 2	2x4 SP DSS *Ex	cept*		BOT CHORD	Rigid ceiling directly a	pplied or 10-0-0	oc bracing. Except:	
2	20-23: 2x4 SP N	0.2			6-0-0 oc bracing: 15-1	8		
WEBS 2	2x4 SP No.3			WEBS	1 Row at midpt	6-19, 9-12		
REACTIONS.	(size) 23=0 Max Horz 23=-1 Max Uplift 23=-7 Max Grav 23=1	-3-8, 12=0-3-8 186(LC 14) 75(LC 16), 12=-48(LC 16) 915(LC 28), 12=2035(LC 29)						
FORCES. (lb) -	Max. Comp./Ma	ax. Ten All forces 250 (lb) or less exc	ept when shown.					
TOP CHORD	2-3=-2734/84,	3-5=-2405/123, 5-6=-2357/111, 6-7=-2	356/111, 7-9=-2871/7	78,				
	9-10=-604/136	, 2-23=-1808/108, 10-12=-515/141		7				
BOICHORD	22-23=-88/490	, 21-22=0/2398, 19-21=0/2083, 17-19=	0/2187, 13-17=0/218	7,				
WEBS	3-21=-470/100	5-21=-39/314 5-19=0/969 6-19=-629	/118 18-19=-65/383	7-18=-4/543				
	7-15=0/923, 1	3-15=0/708, 9-13=-256/168, 2-22=0/19	27, 9-12=-2445/0	,				
NOTES- 1) Unbalanced rc 2) Wind: ASCE 7 II; Exp B; Encl to 18-4-8, Inte exposed ; end grip DOL=1.60 3) TCLL: ASCE 7 DOL=1.15); IS surcharge app 4) Unbalanced st 5) This truss has non-concurrer 6) Provide adequ 7) This truss has 8) * This truss has will fit between 9) Provide mecha 10) This truss is referenced si 11) Graphical pu	bof live loads ha 7-16; Vult=130m losed; MWFRS i vrior(1) 18-4-8 to vertical left and 0 7-16; Pr=20.0 ps ==1.0; Rough Ca blied to all expos now loads have been designed at with other live tate drainage to been designed as been designed anical connection designed in acc tandard ANSI/TI irlin representati	ve been considered for this design. ph (3-second gust) Vasd=103mph; TCI (directional) and C-C Exterior(2E) -0-11 25-0-0, Exterior(2R) 25-0-0 to 30-4-8, a right exposed; C-C for members and for sf (roof LL: Lum DOL=1.15 Plate DOL= t B; Partially Exp.; Ce=1.0; Cs=1.00; C sed surfaces with slopes less than 0.500 been considered for this design. for greater of min roof live load of 12.0 loads. prevent water ponding. for a 10.0 psf bottom chord live load no cd for a live load of 20.0psf on the bottoo ord and any other members, with BCDL on (by others) of truss to bearing plate co ordance with the 2018 International Re PI 1. on does not depict the size or the orien	DL=6.0psf; BCDL=6.0 -0 to 2-10-10, Interio Interior(1) 30-4-8 to 3 irces & MWFRS for re 1.15); Pg=15.0 psf; P i=1.10, Lu=50-0-0; M D/12 in accordance w psf or 1.00 times flat onconcurrent with any n chord in all areas w = 10.0psf. apable of withstandir sidential Code sectio tation of the purlin alc	Dpsf; h=25ft; B=45ft; r(1) 2-10-10 to 13-0 8-11-0 zone; cantile eactions shown; Lur ff=16.5 psf (Lum DC in. flat roof snow loa ith IBC 1608.3.4. roof load of 11.6 ps y other live loads. where a rectangle 3- ng 100 lb uplift at join ns R502.11.1 and R ong the top and/or b	: L=38ft; eave=5ft; Cat. -0, Exterior(2R) 13-0-0 ever left and right mber DOL=1.60 plate VL=1.15 Plate ad governs. Rain f on overhangs 6-0 tall by 2-0-0 wide nt(s) 23, 12. 802.10.2 and ottom chord.	and a state of the	SEAL 036322	
	- Verify design param	neters and READ NOTES ON THIS AND INCLUDE	D MITEK REFERENCE PAG	GE MII-7473 rev. 1/2/2023	BEFORE USE.		ENGINEERING BY	_

WARNING - Verity design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-4/3 fev. 1/2/2023 BEFORE USE. Design valid for use only with MiTeR's 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)



	6-3-14	12-7-12	20-7-12	27-0-0	38	1	
	6-3-14	6-3-14	8-0-0	6-4-4	11 [,]	-0-0	
Plate Offsets	(X,Y) [2:0-2-4,0	-1-12], [11:Edge,0-1-12]					
LOADING (p: TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	sf) 20.0 16.5/15.0 10.0 0.0 * 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.79 BC 0.97 WB 0.79 Matrix-MS	DEFL. in (loc) Vert(LL) -0.32 11-12 Vert(CT) -0.65 11-12 Horz(CT) 0.09 11	l/defl L/d >999 240 >692 180 n/a n/a	PLATES MT20 MT20HS Weight: 238 lb	GRIP 244/190 187/143 FT = 20%
LUMBER- TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.1 *Ex	cent*	BRAC TOP C	ING- CHORD Structural woo	d sheathing directly app ticals, and 2-0-0 oc pur	blied or 3-1-15 oc purlin	IS,
WEBS	15-18: 2x4 SP No.3	p.2	BOT C	CHORD Rigid ceiling di 2-2-0 oc bracir	rectly applied or 10-0-0 g: 14-16.	oc bracing, Except:	

WEBS

1 Row at midpt

REACTIONS. (size) 18=0-3-8, 11=0-3-8 Max Horz 18=-184(LC 14) Max Uplift 18=-125(LC 16), 11=-125(LC 16) Max Grav 18=1753(LC 28), 11=1761(LC 29)

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

TOP CHORD 2-3=-2453/203, 3-4=-2151/237, 4-5=-2117/267, 5-6=-2301/269, 6-7=-2301/269,

7-8=-2289/225. 8-9=-625/52. 2-18=-1644/168. 9-11=-487/90

 BOT CHORD
 17-18=-84/454, 16-17=-114/2159, 14-16=-70/2190, 12-14=-35/1915, 11-12=-132/1938

 WEBS
 3-16=-362/107, 4-16=-159/1915, 5-16=-1538/194, 5-14=-37/429, 6-14=-611/134, 7-14=-65/697, 7-12=0/479, 2-17=-43/1724, 8-11=-1858/211

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 12-7-12, Exterior(2E) 12-7-12 to 14-3-8, Interior(1) 14-3-8 to 27-0-0, Exterior(2R) 27-0-0 to 30-9-10, Interior(1) 30-9-10 to 38-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60
- 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) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=125, 11=125.
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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5-16, 8-11





	8-3-8	1	16-3-8	1	2	2-7-12	29-	0-0	1		38-0-0	1
	8-3-8	1	8-0-0	6-4-4		6-4-4		1		9-0-0	_	
Plate Offsets (X,Y) [2:0-2-0,0-1	-12], [15:0-3-0,0)-2-0]									
LOADING (ps TCLL (roof) Snow (Pf/Pg) TCDL BCLL	f) 20.0 16.5/15.0 10.0 0.0 *	SPACING- Plate Grip D Lumber DO Rep Stress	2-0-0 DOL 1.15 L 1.15 Incr YES	CSI. TC BC WB Matrix	0.84 0.95 0.94	DEFL. Vert(LL) Vert(CT Horz(CT	in (-0.27 15 -0.45 15) 0.12	(loc) 5-17 5-17 11	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCDL	10.0	Code IRC2	018/19/2014	Matrix	-1015						weight: 233 lb	F1 = 20%
LUMBER-					1	BRACING-						
TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.1 *Exce	ept*			-	TOP CHORD	Structural except end	wood s d vertic	heathing als. and	g directly app 2-0-0 oc pur	lied or 2-2-0 oc purlins lins (2-6-14 max.): 5-7.	,
WEBS	16-18: 2x4 SP No.2	2			I	BOT CHORD	Rigid ceilir	ng direo	tly appli	ied or 10-0-0	oc bracing, Except:	
WLD0	244 01 110.0				,	WEBS	1 Row at n	nidpt	17-10.	5-15, 5-14	. 3-18. 8-11	

REACTIONS. (size) 18=0-3-8, 11=0-3-8 Max Horz 18=184(LC 15) Max Uplift 18=-125(LC 16), 11=-125(LC 16) Max Grav 18=1773(LC 28), 11=1766(LC 29)

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

TOP CHORD 2-3=-572/132, 3-4=-2427/274, 4-5=-3170/351, 5-6=-2690/278, 6-7=-2690/278,

7-8=-2378/220, 8-9=-479/61, 2-18=-488/136, 9-11=-443/91

 BOT CHORD
 17-18=-123/2165, 15-17=-34/1843, 14-15=-112/2781, 12-14=-59/2005, 11-12=-125/1925

 WEBS
 4-17=-49/538, 4-15=-179/2322, 5-15=-1809/251, 6-14=-617/134, 7-14=-84/997, 7-12=0/350, 3-18=-2019/87, 8-11=-2006/186

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 12-7-12, Exterior(2E) 12-7-12 to 16-3-8, Interior(1) 16-3-8 to 29-0-0, Exterior(2R) 29-0-0 to 32-9-10, Interior(1) 32-9-10 to 38-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60

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, with BCDL = 10.0psf.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=125, 11=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.

11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Place Offsets (X/)- 12 02 000-1121 [5 07-0.0-2:0] (B0-38 Edga]. PLA		000	1000	24112		0100		2000	
Prime Orders (X-1): [22:20:01-12], [52:70:02-00], [83:3-84:600], [10:elag.0-14]. OADMNG (FP) PACING: SPACING: CSL In (col) Iso (col) PACING: SRIPP Obstitution Pace (col)		9-3-8	9-0-0	6-4-4		6-4-4		7-0-0	
LANDNG (pfb) TOLL (root) SPACE GE DOL 20.0 SPACE GE DOL 115 Col. Col. DEFL In (dot Lub) Vert(CT) DEFL In (dot Lub) Vert(CT) PLATE GE DOL 10.0 CRP 187/143 COLL Show (Pfb) ECLL 0.00 0.00 Res Strass for Code IRC2018/TPL2014 BC 0.02 Vert(CT) 0.01 10 n/a N/a <t< td=""><td>Plate Offsets (X,Y) [2:0-2-0,0</td><td>0-1-12], [5:0-7-0,0-2-0], [8:0-3-8,Edge],</td><td>[10:Edge,0-1-8]</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Plate Offsets (X,Y) [2:0-2-0,0	0-1-12], [5:0-7-0,0-2-0], [8:0-3-8,Edge],	[10:Edge,0-1-8]						
TCLL (reg) 20.0 SPACING- plate Grp DOL 1.15 CSL DEFL (TO L) Incols Ideal (Fred DOL 1.15) CSL Other DOL 1.15 CSL	LOADING (psf)								
 Same (mpr) 16,315.0 Pitte Grip DOL 1.15 TC 0.99 Vert(LL) 0.07 Pitte Grip DOL 1.15 BC 0.02 Vert(L) 0.07 Pitte Grip DOL 1.15 BC 0.02 Vert(L) 0.07 Pitte Grip DOL 1.15 BC 0.02 Pitte Grip DOL 1.15 Pitte Grip DOL 1.15 BC 0.02 BC 0.02 Pitte Grip DOL 1.15 BC 0.02 BC 0.02 Pitte Grip DOL 1.15 Pitte Grip DOL 1	TCLL (roof) 20.0	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCOL. 100 Lumber DOL 11.5 BC 0.62 Vert(CT) 0.03 14.16 >715 180 MT20HS 187/143 BCDL 10.0 Rep Stress Incr YES Vert (CT) 0.03 14.16 >715 180 MT20HS 187/143 Weight: 221 ib FT = 20% Matrix-MS BACIMO Structural wood sheathing directly applied, except end verticals, and 2-0-0 or puriting (2-00 max): 57. 57. 180 MT20HS 187/143 WEISS 2x4 SP No.3 FKocpet BOT CHORD Structural wood sheathing directly applied or 10-0-0 cb tracing. WEISS 2x4 SP No.3 FKocpet BOT CHORD Nex Hort TT -1940.C 110 Max dort TT -1940.C 120 Max dort TT -1940.C 120 <td< td=""><td>Snow (Pf/Pg) 16 5/15 0</td><td>Plate Grip DOL 1.15</td><td>TC 0.99</td><td>Vert(LL)</td><td>-0.37 14-16</td><td>>999</td><td>240</td><td>MT20</td><td>244/190</td></td<>	Snow (Pf/Pg) 16 5/15 0	Plate Grip DOL 1.15	TC 0.99	Vert(LL)	-0.37 14-16	>999	240	MT20	244/190
Statule Top Rep Stress herr YES WB 0.0.5 Horz(CT) 0.10 10 n/a Weight: 221 Ib FT = 20% LUMBER: TOP CHORD 24.5 P No.1 Structural wood sheathing directly applied, except end verticals, and 2.00 purplies (2-20 max), 5.7 Structural wood sheathing directly applied, except end verticals, and 2.00 purplies (2-20 max), 5.7 BOT CHORD 24.4 SP No.1 BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing. WEBS 24.4 SP No.3 "Except" BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing. WEBS 24.4 SP No.3 "Except" BOT CHORD 3-17 Kac Toro, Nac. Toro, Maker Tra-184UC 14, 0 WEBS Not best Tra-184UC 14, 0 Structural wood sheathing directly applied or 10-0-0 oc bracing. WEBS Horo Max Coron, Maker Tra-184UC 14, 0 Nac Nor, Maker Tra-184UC 14, 0 Structural wood sheathing directly applied or 10-0-0 oc bracing. TOP CHORD 2-3-e367128, 3-4-23242058, 5-1-308/280, 7-8-3108/280, 7-8-3108/280, 7-8-3108/280, 7-3108/280, 7-7-3108/	TCDI 10.0	Lumber DOL 1.15	BC 0.82	Vert(CT)	-0.63 14-16	>715	180	MT20HS	187/143
ECDL TOP Code IRC201 Matrix-MS Weight: 221 Ib FT = 20% LUMBER TOP CHORD 2x4 SP No.1 BTACING- TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2x4 SP No.1 Do punins (2x-0 max); 5-7. BOT CHORD 2x4 SP No.1 BOT CHORD Structural wood sheathing directly applied, except end verticals, and 2x4 SP No.1 WEBS 2x4 SP No.1 BOT CHORD BOT CHORD Structural wood sheathing directly applied, except end verticals, and 2x4 SP No.1 WEBS 2x4 SP No.2 BOT CHORD Nor a triangle Structural wood sheathing directly applied, except end verticals, and 2x4 SP No.2 Mark Horz 171474/101 201 501 - 152(LC 16) Mark Grav 17-1474/1476(LC 28), 10-125(LC 16) Mark Grav 17-1474/1476(LC 28), 10-125(LC 16) Mark Grav 17-1474/1470, 241-10-1086 Structural wood sheathing directly applied, except end verticals, and 2x4 SP No.2 PORCES (b) - Max Comp./Max. Ten All forces 250 (b) or less except when shown. FOP CHORD Structural wood sheathing directly applied, except end were structural wood sheathing directly applied, except end were structural word were structural word were structural word were structural word were structural word were structural word were structural word were structural word were structural word were structural word were structural word were structural word were structural word were structural word were structural word were structural word we	BCLL 0.0 *	Rep Stress Incr YES	WB 0.95	Horz(CT) 0.10 10	n/a	n/a		
LUMBER. BRACING- TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 or purifies (2-2-0 max), 5-7. BOT CHORD 2x4 SP No.1 BOT CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 or purifies (2-2-0 max), 5-7. REACTIONS (grap) 17-0-3.8, 10-0-3.8 BOT CHORD BOT CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 or purifies (2-2-0 max), 5-7. REACTIONS (grap) 17-0-3.8, 10-0-3.8 BOT CHORD BOT CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 or purifies (2-2-0 max), 5-7. REACTIONS (grap) 17-0-3.8, 10-0-3.8 BOT CHORD BOT CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 or purifies (2-2-0 max), 5-7. FORCES. (b) - Max. Comp./Max. Ten All torces 220 (b) tor less except when shown. TOT CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 or purifies (2-2-0 max), 5-7. FORCES. (b) - Max. Comp./Max. Ten All torces 220 (b) tor less except when shown. TOT CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 or purifies (2-2-0 max), 5-7. FORCES. (b) - Max. Comp./Max. Ten All torces 220 (b) tor less except when shown. Total - CASC +	BCDI 10.0	Code IRC2018/TPI2014	Matrix-MS					Weight: 221 lb	FT = 20%
LUMBER- TOP CHORD 2x SP No.1 "Except" TOP CHORD Structural wood sheathing directly applied, except and verticals, and 2x-40 exp <i>ko</i> .1 "Kxept" TOP CHORD Rigid celling directly applied or 10-0-0 co bracing. WEBS 2x SP No.1 "Kxept" BOT CHORD VERS PN 0.2 " REACTIONS. (size) 17-0-3-8, 100-0-3-8, Max Hor 17-1-494(LC 14). Max Kyet 17-1-25(LC 16). Max Grav 17-1-494(LC 14). Max Grav 17-1-494(LC 14). Max Grav 17-1-494(LC 14). Max Grav 17-1-494(LC 14). Max Grav 17-1-494(LC 16). Max Grav 17-1-494(LC 17). Max Grav 17-1-494(LC 18). Max Grav 16-1-400(LC 10). Max Grav 17-1-494(LC 18). Max Grav 17-1-194(LC 18). Max Grav 17-1	10.0	I	1	1					
TOP CHORD 24.45 Pt No.2*Except* TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 cc putilins (22-0 max): 5-7. BOT CHORD 24.45 Pt No.3 *Except* BOT CHORD Rigid ceiling directly applied, except end verticals, and 2-0-0 cc putilins (22-0 max): 5-7. REACTIONS. (size) 17=0-3.8, 10=0-3.8, the -0-3.8 WEBS 18 ow at midpt 3.17 REACTIONS. (size) 17=0-3.8, 10=0-3.8, the -0-3.8 Max Horz, 17=1641L0:14), Max Grav 17=17441C2 (20) 18 ow at midpt 3.17 FORCESS. (li) - Max, Comp. Max, Ten All forces 250 (li) or less except when shown. 100 2-3:e599173.4 3.43 3.41 FORCES. (li) - Max, Comp. Max, Ten All forces 250 (li) or less except when shown. 100 16-11 1.41 3.41 1.41 3.41 1.41 3.41 1.41 4.41 3.41 1.41 4.41 3.41 1.41 4.41<	LUMBER-		В	RACING-					
 45: 244 SP No.1 24: 45 PN 0.3 "Except 24: 5P No.3 "Except 25: 5P No.3 "Except 24: 5P No.3 "Except 24: 5P No.3 "Except 25: 5P No.3 "Except 24: 5P No.3 "Except 24: 5P No.3 "Except 25: 5P No.3 "Except 26: 5P No.3 "Except 27: 12: 16: 5-6, Intenor(1) 16: 5-6 10: 5P No.3 "Except(2R) 10: 50: 5P No.3 "Except(2R) 10: 50: 5P No.3 "Except(2R) 10: 5P No.3 "Except(2R) 10: 5P No.3 "Except(2R) 10: 5P No.3 "Except 2R) 10: 5P No.3 "Except 2R: 5P No.3 "Except 2R) 10: 5P No.3 "Except 2R: 5P No.3 "Except 2R) 10: 5P No.3 "Except 2R: 5P No.3 "Except 2R: 5P No.3 "Except 2R) 10: 5P No.3 "Except 2R: 5P No.3 "Except 2R: 5P No.3 "Except 2R) 10: 5P No.3 "Except 2R: 5P No.3 "Except	TOP CHORD 2x4 SP No.2 *E	xcept*	Т	OP CHORD	Structural wood	d sheathing	g directly ap	oplied, except end vertic	als, and
BOT CHORD 244 SP No.1 BOT CHORD Rigid celling directly applied or 10-0-0 cc bracing. WEBS 244 SP No.3 *Except 4-14,2+17,8+10: 2x4 SP No.2 1 Row at midpt 3-17 REACTIONS. (size) 17=0-3-8, 10=0-3-8 Max Horz 17=148/LC 14) Max Upit 17=-128/LC 16), 10=-125/LC 16) Max Grav 17=1746/LC 28), 10=1728/LC 28) 1 Row at midpt 3-17 FORCES. (b) - Max. Comp./Max. Ten All forces 250 (b) or less except when shown. TOP CHORD 2-3=599/125, 3-4=2334/251, 4-5=-3328/407, 5-6=3166/2200, 67=-3106/2200, 7-84=2324/189, 217=500/133, 61-0=-534/189, 11-31=-462/200, 7-10-11==110/514 VEBS 4-16=-33667, 41-0=-632/289, 7-3106/2200, 7-3106/220, 7-31-302/127, 7-13=-100/1397, 3-17=-1944/117, 8-11=0/1689 5-16	4-5: 2x4 SP No.	1			2-0-0 oc purlins	s (2-2-0 ma	ax.): 5-7.		
WEBS 2x4 SP No.3 "Except" WEBS 1 Row at midpt 3-17 REACTIONS. (stz) 17-0-3.8, 10-0-3.8 Max Hor: 17184(LC 14) Max Uplit 17-125(LC 16), 10-125(LC 29) FORCES. (b) - Max. Comp./Max. Ten All forces 250 (b) or less except when shown. TOP CHORD Max. Ten All forces 250 (b) or less except when shown. TOP CHORD 16-172-162(LT 13), 44-16-3-4478(M7, 56-3108/290, 67-3106/290, 77-3106/290, 77-3-106/290, 77-3-2424/198, 217-2001/33, 8-10=-1615/189 State 14-16-1746(A) BOT CHORD 16-172-162(LT 13), 44-16-3-4478(M7, 56-3108/290, 71-0-11-110/514 Yes Yes Yes 4-16-13/567, 4-14-24/22859, 5-14-2000/292, 5-13-400/15, 6-13-621/127, 7-13-100/1397, 3-17-1944/117, 8-11-001689 Yes Notalanced rool live loads have been considered for this design. Yes Yes Yes 10. Unbalanced rool live loads have been considered for this design. Yes Yes Yes 10. Unbalanced rool live loads have been considered for this design. Yes Yes Yes Yes 10. Unbalanced rool live loads have been considered for this design. Yes Yes Yes Yes 11. Chalanced rool live loads have been considered for this design. Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes <td>BOT CHORD 2x4 SP No.1</td> <td></td> <td>В</td> <td>OT CHORD</td> <td>Rigid ceiling dir</td> <td>ectly appli</td> <td>ed or 10-0-</td> <td>0 oc bracing.</td> <td></td>	BOT CHORD 2x4 SP No.1		В	OT CHORD	Rigid ceiling dir	ectly appli	ed or 10-0-	0 oc bracing.	
 4-14.2-17.8-10: 2x4 SP No.2 REACTIONS. (gize) 174-0-38, 10-0-38. (Mar Hoz, 177-184(LC 14) Max Uplit 177-125(LC 16), 100-125(LC 16) Max Grav 17-125(LC 16), 100-125(LC 29) FORCES. (b) - Max. Comp.Max. Ten All forces 250 (b) or less except when shown. TOP CHORD 2-38-956/125, 34-2334/251, 45-3392407, 56-3106/290, 673106/290, 7-8-2424/180, 217-500138, 310-91615/189 BOT CHORD 16-177-1262(LT 13), 141-6-34/1801, 13-14-174/3418, 11-13-86/2007, 10-11=-110/514 WEBS 4-16-1367C, 144-2422285, 514-2002, 513-40/915, 6-13-66/21/27, 7-13-100/1397, 3-17-1944/117, 8-11-0/1689 NOTES 1) Unbalanced rool live loads have been considered for this design. 2) Wint ASCE 7-16; Vula-130mph (3-second gust) Vasc1-103mph; TODL-6-0pst; BCDL-6-0pst; BCDL-6-0pst; BCDL-6-0pst; Cat. II; Exp. Enclosed; MWFRS (directional) and CC ExtrainCig2; 513-40917, 10-11-21/21, 2. Exterior(2R) 12/7-12 to 16-56, Interior(1) 16-56 a31-00, Exterior(2R) 51-0-10 to 12-17-12, Exterior(2R) 12/7-12 to 16-56, Unterior(1) 15-56 a31-00, Exterior(2R) 51-0-10 to 2-16-10, Interior(1) 2-16-10 to 12-17-12, Exterior(2R) 12/7-12 to 16-56, Interior(1) 15-56 a31-00, Exterior(2R) 51-0, 10-21-01 to 12-17-12, Exterior(2R) 12/7-12 to 16-56, Interior(1) 15-56 a31-00, Exterior(2R) 51-0, 10-21-01 to 12-17-12, Exterior(2R) 13/0L-16/19, 16-10, Rough of B-17 Results (B-16, Cot. Toti 10, 12-16-10 to 12-17-12, Exterior(2R) 13/0L-16/19, 16-10, Rough of B-16, Rough USE, Cot. Toti 11, 12-16-10 to 23-16-10, Exterior(2R) 51-0, 10-0, 12-11-19, 12-0-10 to 23-16-10, 12-0, 10-0, 12-11, 12-0, 10-0, 12-15, 12-0, 10-0, 12-11, 12-0, 10-0, 12-11, 12-0, 10-0, 12-11, 12-0, 10-0, 12-11, 12-0, 10-0, 12-11, 12-0, 10-0, 12-11, 12-0, 10-0, 12-11, 12-0, 10-0, 12-11, 12-0, 10-0, 12-0,	WEBS 2x4 SP No.3 *E	xcept*	W	VEBS	1 Row at midpt		3-17	-	
 REACTIONS. (size) 17-0-3-8, 10-0-3-8 Max Horz 17-2184(LC 14) Max Uplit 17-2185(LC 16), 10-128(LC 28). FORCES. (l) - Max. Comp.Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 12-33-6967(25, 34-233425), 14-5-3328(240), 5-6-3-3106/290, 6-7-3106/290, 7-82424/198, 2-17-2500(133, 8-101615/198 DOT CHORD 16-177-1285(25, 34-233425), 14-6-3328(240), 5-6-3-3106/290, 6-7-3106/290, 10-11-110/514 WESS 4-16-313567, 4-14-242/2859, 5-14-2-302(252, 5-13-4-09/15, 6-13-621/127, 7-13-2100(1397, 3-17194/117, 8-11-0)/688 NOTES 1) Unbalanced roof live loads have been considered for this design. 1) Unbalanced roof live loads have been considered for this design. 1) Unbalanced roof live loads have been considered for this design. 1) Unbalanced roof live loads have been considered for this design. 1) Unbalanced roof live loads have been considered for this design. 1) Unbalanced roof live loads have been considered for this design. 1) This truss have been considered for this design. 1) This truss have been considered for this design. 1) This truss have been considered for this design. 1) This truss has been designed for graves design. 1) This truss has been designed for graves design. 1) This truss has been designed for this design. 1) This truss has been designed for this design. 1) This truss has been designed for this design. 1) This truss has been designed for this design. 1) This truss has been designed for this design. 1) This truss has been designed for this design. 1) This truss has been designed for this design. 1) This truss has been designed for a live load of 12.0 psf or 1.00 times flat roof load 3.4 1) This truss has been designed for a live load of 12.0 psf or 1.00 times flat roof load 3.4 1) This truss has been designed for a live load of 2.0 psf or the botto	4-14,2-17,8-10:	2x4 SP No.2							
REACTIONS. (size) 17-0-3-8, 10-0-3-8 Max Horz 17-1248(LC 16), 10-125(LC 16) Max Grav 17-1745(LC 28), 10=1726(LC 29) FORCES. (g). Max Carv 17-1745(LC 28), 10=174(3418), 11-13-68/2007, 10-11=110/514 WEBS 4-116=13/667, 1410-23/2059, 5-14=2060/292, 5-13=-409/15, 6-13=-62/1/27, 7-13=-100/1397, 5-174=1944/117, 8-11=0/1689 FORCES. 1) Unbalanced for live loads have been considered for this design. 2) Wind. ASCE 7-16; Vult=150mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=38ft; eave=5ft; Cat. 1); Ep B; Enclosed, MWPRS (intercional) and C-C Exterior(28) (1-01-01 0-11-01 to 127-12); Exterior(28) 12-712 to 16-56, Interior(1) fire-100, 5-10 0-13-0-10 3-11-10 to 13-10-10 to 39-11-10 to 127-12; Exterior(28) 12-712 to 16-56, Interior(1) fire-100, 5-10 0-13-0-10 0-10 10 to 157, 7-12, Exterior(28) 12-712 to 16-56, Interior(1) fire-100, 5-10 0-10-0, Exterior(28) (1-00 to 12-71-12) to 10 to 39-11-0 to 39-10 to 39									
Max Horz 17-142KLC 14) Max Uptil T-125KLC 16) Max Grav 17-125KLC 16) Max Grav 17-125KLC 28). 10=1726(LC 29) FORCES. ((b) - Max Comp. Max. Ten All forces 250 (b) or less except when shown. TOP CHORD 2.3-e59/126.3.4-2334/251, 45-33928/407, 5-e-3106/290, 6-73106/290, -7-e-2424/198, 2-17500/138, 8-101615/198 BOT CHORD 10: 17-1202113, 14-16=-34/1801, 13-14=-174/2418, 11-13=-68/2007, 10-11=-110/514 WEBS 4-16=-13667, 4-14=-242/2805, 5-14-=-200/2282, 5-13=-400/15, 6-13=-621/127, -7-3=-100/1397, 3-171944/117, 8-11=0/1689 NOTES 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vul=130mph (3-second gual) Vaad-103mph; TCDL=6.0psf; hc25f; B=45ft; L=38ft; eav=5ft; Cat. I; Exps E: Foldsect, MWFR (directional) and C-C Extend(2F) -0-11-0 to 2-10-10, Interior(1) 2-10-10 to 12-7-12, Extend(2R) 12-7-12 to 16-56, Interior(1) 16-56 to 31-0-0, Extend(2R) 31-0-0 to 34-0-10, Interior(1) 34-0-10 to 31-0-20, cantilever left and right exposed - ind vertical left and right exposed-C-C for members and forces & MWFRS for reactions shown; Muber DOL=1.60 plate grip DOL=1.60 2) TCLL: ASCE 7-16; PC=20.0 pdf (rod LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pl=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=10; Rough Cat B; Partially Exp; Ce=1.0; Cs=1.0; Lu=50-0; Min. flat roof snow load governs. Rain surcharge applied to al exposed surfaces with shops less than 0.500/12 in accordance with BC 1608.3.4. 4) Unbalanced for governet unders ponding. 3) This truss has been designed for rai two 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. 4) This truss has been designed for rai two love load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live load dat. 4) This truss has been designed for rai two love load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live load dat. 4) This truss has been designed for rai two love load rai dat	REACTIONS. (size) 17=0)-3-8, 10=0-3-8							
Max Grav 17=125(LC 16), 10=125(LC 28), Max Grav 17=7125(JC 28), 10=125(LC 28), DORCES. (b) - Max. Comp. Max. Ten All forces 250 (b) or less except when shown. TOP CHORD. 2-3-e-295/125, 3-4-233/251, 4-5=-33028/407, 5-6=-3106/290, 7-8-2424/4188, 8-17-500/133, 8-10-151199 BOT CHORD. 16-7-1262/133, 14-16=-34/1801, 13-14=-174/3418, 11-13=-86/2007, 10-11=-110/514 WEBS. 4-16=-13/567, 4-14=-242/2859, 5-14=-2060/292, 5-13=-409/15, 6-13=-621/127, 7-13=-100/1397, 3-17=-194/117, 8-11=01/689	Max Horz 17=-	184(LC 14)							
Max Grav 17=174GLC 28), 10=1726(LC 28) FORCES. ((b) - Max. Comp. Max. Ten All forces 250 (b) or less except when shown. TOP CHORD 2-3s=595/125, 3-4s=2334/251, 45=-3928/407, 5-6s=3106/290, 6-7s=3106/290, 7-8s=2424/198, 2-17=500/138, 5-10s=1615/189 BOT CHORD 16-17=1262/13, 14-16=-34/1801, 13-14=-174/3418, 11-13=86/2007, 10-11=-110/514 WEBS 4-16s=13667, 414=-2422695, 5-144=-2002/292, 5-13=-400/15, 6-13=-621/127, 7-13=-100/1397, 3-17=-194/117, 8-11=0/1689 DI Unblanced rool live loads have been considered for this design. 10 Unblanced rool live loads have been considered for this design. 21 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. I; Exp B; Enclosed; WMFRS (directional) and C-C Exterior(28) 31-0-0 to 21-0-10, Interior(1): 21-0-10 to 12-7:12, Exterior(28) 12-7-12 to 16-56, Interior(1): 16-56 to 31-0-0. Exterior(28) 31-0-0 to 34-9-10, Interior(1): 34-9-10 to 381-10 zone; cantilover left and right exposed: end vertical left and right exposed; C-C for members and force as MWFRS for reactions shown; Lumber DOL=1.05 plate grip DOL=1.60. 20 TCLL: ASCE 7-16, Pre-20.0 pdf (root IL: Lum DOL=1.15); Pg=15.0 pd; Pl=16.5 pd; (Lum DOL=1.15 Plate DOL=1.15); Is=10, Rough Cat B; Partially Exp; Ce=10; Cs=1.00; Cl=1.00, tenedos with IBC 1608.3.4. 4) Unbalanced snow hads have been considered for this design. 5) This truss has been designed for rait or pd mix root live load on concourcent with any other live loads. 4) Unbalanced for parter of mix root live load of 20.0 pdf or 1.00 times flat root load of 11.6 pdf on overhangs non-concurrent with other live loads. 5) This truss has been designed for rait or pd battom: chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide lift between the bottom chord and any other members, with BCDL = 10.0pdf. 1) This truss is designed for rait or pd battom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide lift between the bottom chord in the 2018 International Residential Code	Max Uplift 17=-	125(LC 16), 10=-125(LC 16)							
 FORCES. (b) - Max. Comp. Nax. Ten All forces 250 (b) or lass except when shown. TOP CHORD. 23a-693/125, 34a-233/4251, 45-5-3928/407, 5-6=3106/290, 6-7=3106/290, 7-8=2424/198, 2-172-500/133, 8-10=-1615/189 BOT CHORD. 16-17z-1262/2113, 14-16=34/1601, 1314-174/3418, 11-13=-86/2007, 10-11=-110/514 WEBS 4-16=13/567, 4-14a-242/2869, 5-14a-2009/292, 5-13a-409/15, 6-13a=621/127, 7-13a-100/1397, 3-17a-194/117, 8-11a-0/1689 MOTESE 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vill-130mph (3-second gust) Vasa-103mph; TCDL=6.0psf; B-25ft; B=45ft; L=38ft; eave-5ft; Cat. I); Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) - 0-110 to 2-10-10 to 12-712, Exterior(2R) 12-712 to 15-65, Interior(11) 15-6-61 to 12-70-10, Distribution of the 10 to 12-10-10 to 12-712, Exterior(2R) 12-712 to 15-65, Interior(11) 15-66 to 15-76, Interior(12) 1-00, Distribution of now load governs. Rain surcharge applied to all exposed surfaces than 0.500/12 in accordance with BC 1000-3.4. Orbalanced snow loads have been considered for this design. This truss has been designed for a live load of 12.0 psf or 1.00 times flat rool load of 11.6 psf on overhangs non-concurrent with other live loads. Provide actequate drainage to prevent water ponding. All plates are MT20 plates unless to therwise indicated. 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 fill between the bottom chord live load on 10.0 pd. Provide actequate drainage to prevent water ponding. This truss has been designed for a live load of 20.0psf on the bottom chord in any other members,	Max Grav 17=1	745(LC 28), 10=1726(LC 29)							
 FORCES. (b) - Max. Comp. /Max. Ton All forces 250 (b) or less except when shown. TOP CHORD 2.3-695/125, 3-4-2334/251, 4-5-3928/407, 5-6-3106/290, 6-7-3106/290, 7-8-224/198, 2-17-500/133, 8-101615/189 BOT CHORD 16-17-126/2113, 14-16-34/1801, 13-14-174/3418, 11-13-86/2007, 10-11-110/514 WEES 110 Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-16; Vult-130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; B-25ft; B-45ft; L-38ft; eave=5ft; Cat. II; trys 9; Enclosed; MWFRS (directional) and C-C Exterior(2R) 51-0-0 to 12-7-12, Exterior(2R) 12-7-12 to 16-5-6, Interror(1) 16-5-6 to 31-0-0, Exterior(2R) 51-0-0 to 34-9-10, Interior(1) 2-10-10 to 12-7-12, Exterior(2R) 12-7-12 to 16-5-6, Interror(1) 16-5-6 to 31-0-0, Exterior(2R) 51-0-0 to 34-9-10, Interior(1) 2-10-10 to 12-7-12, Exterior(2R) 12-7-12 to 16-5-6, Interror(1) 16-5-6 to 31-0-0, Exterior(2R) 51-0-0 to 12-7-12, Exterior(2R) 12-7-12 to 16-5-6, Interror(1) 16-5-6 to 31-0-0, Exterior(2R) 51-0-0 to 12-15-15 patk DOL=-1.61, IS-10, Rough Cat B; Parallay Exp; Ca=1-0, CS=1-0, CI=1-10, Lu=50-0-0; Min. flat roof snow loads overns. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4. Unbalance disnow loads have been considered for this design. Provide adequate drainage to prevent water ponding. Provide adequate draina									
 TOP CHORD 2-3-505/125, 3-4-233/251, 45-3028/407, 5-6-3106/290, 6-7-3106/290, 7-8-3106/290, 7-8-3242(1)88, 2-17-500(1)33, 8-101615/189 BOT CHORD 16-17#-128/2113, 14-16-34/1801, 13-14=-74/3418, 11-13=-86/2007, 10-11=-110/514 WEBS 4-16=-13/67, 4-14=-242/2595, 5-14=-2000/292, 5-13=-409/15, 6-13=-621/127, 7-13=-100/1397, 3-17=-1944/117, 8-11=0/1689 NOTES- Winci: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TODL=6.0psf; BCDL=6.0psf; h=25f; B=45f; L=38f; eav=5f; Cat. I; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-10-10 to 12-7-12, Exterior(2R) 12-77:12 to 16-5-6, Interior(1) 16-5-6 to 13-00. Exterior(2R) 10-10 to 2-9-10 to 10: 01-27-12, Exterior(2R) 12-77:12 to 16-5-6, Interior(1) 16-5-6 to 13-00. Exterior(2R) 10-10 to 2-9-10 to 10: 01-27-12, Exterior(2R) 12-77:12 to 16-5-6, Interior(1) 16-5-6 to 13-00. Exterior(2R) 10-10 to 2-9-10 to 10: 01-27-12, Exterior(2R) 12-77:12 to 16-5-6, Interior(1) 16-5-6 to 13-00. Exterior(2R) 10-00 to 49-9-10, Interior(1) 3-4-10 to 38:41-00 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 TO:L: ASCE 7-16; VH=20.0 psf (roof L: Lum DOL=1.15) Fig=15.0 psf; P1-16 5.0 psf (Lim DOL=1.15) Fig=160 psf; P1-16 5.0 psf (Lim DOL=1.15) Fig=150 psf; P1-16 5.0 psf (Lim DOL=1.15) Fig=160 psf (Lim DOL=1.15) Fig=160 psf (Lim DOL=1.16) Fig=160 psf (Lim DOL=1.16) Fig=160 psf (Lim DOL=1.00 psf (Lim DOL=0.000) This truss has been designed for raive point ondi live load nonconcurrent with any other live loads. Provide adequate drainaged to prevent water ponding. Nis truss has been designed for a live load of 20.0 psf 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 in all areas where a r	FORCES. (lb) - Max. Comp /M	lax. Ten All forces 250 (lb) or less ex	cept when shown.						
 The Trade-242/198, 2-17-=500/133, 8-10=-1615/189 BOT CHORD 16-17=-126/2113, 14-16=-34/1801, 13-14=174/3418, 11-13=-86/2007, 10-11=-110/514 4+16=-13567, 4+14=-242/289, 5+14=-2400/289, 5+15=-200/282, 5+15=-450/127, 7-13=-100/1397, 3-17=-1944/117, 8-11=0/1689 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; bc25f; b=45f; L=38f; cave=5f; Cat. II; Exp B; Enclosed; MWRFS (directional) and C-C Exterior(22) -0-11 to 10 ± 2-1-10 to 12-7-12; Exterior(2R) 12-7-12 to 16-5-6, Interior(1) 16-5-6 to 31-0-0, Exterior(22) -0-10 to 12-7-10 to 12-7-12; Exterior(2R) 12-7-12 to 16-5-6, Interior(1) 16-5-6 to 21-0-0, Cs=1-10; LisFor reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) ToLL: 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=1.60; Is=1-0; Rough Cat B; Partially Exp; Ce=-10; Cs=1-00; Ct=1.10, Lu=50-0; Min. flat root 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 tike design. 5) This truss has been designed for a 10.0 gsf bottom chord live load nonconcurrent with other live loads. 6) Trois truss has been designed for a 10.0 gsf bottom chord live load nonconcurrent with any other live loads. 6) Trois truss has been designed for a 10.0 gsf bottom chord live load nonconcurrent with any other merkers, with BCDL= 10.0psf. 10) This truss has been designed for a 10.0 gsf bottom chord live load nonconcurrent with any other merkers, with BCDL= 10.0psf. 11) This truss is designed in a coordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and reference distandrad ANSI/FT1 i. 12) Graphic	TOP CHORD 2-3=-595/125	3-4=-2334/251, 4-5=-3928/407, 5-6=-3	106/290, 6-7=-3106/290.						
BOT CHORD 16-17=-126/2113, 14-16=-34/1801, 13-14=174/3418, 11-13=-86/2007, 10-11=-110/514 WEBS 4-16=-13/567, 4-14=242/2809, 5-14==2000/282, 5-13==409/15, 6-13=-621/127, 7-13=-100/1397, 3-17=-1944/117, 8-11=0/1689 NOTES 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; VIL-13/0mph (3-second gust) Vasc4-03mph; TCDL=6.0psf; BCDL=6.0psf; h=25f; B=45f; L=38f; eave=5f; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-110 to 2-10-10, Interior(1) 2-10-10 to 12-7-12, Exterior(2R) 12-7-12 to 16-56, Interior(1) 15-56 to 31-00, Exterior(2R) 31-0-0 to 34-9-10, Interior(1) 34-9-10 to 34-9-10, Interior(1) 2-10-10 to 12-7-12, Exterior(2R) 12-7-12 to 16-56, Interior(1) Bit 5-56 to 31-00, Exterior(2R) 31-0-0 to 34-9-10, Interior(1) 34-9-10 to 34-9-10, Interior(1) 34-9-10, Interior(1) 34-9-10, Interior(1) 34-9-10, Interior(1) 34-9-10 to 34-9-10, Interior(1) 34-9-10, Int	7-8=-2424/198	3. 2-17=-500/133. 8-10=-1615/189							
 WEBS 4-16=-13/567, 4-14=-242/2859, 5-14=-2060/292, 5-13=-409/15, 6-13=-621/127, 7-13=-100/1397, 3-17=-1944/117, 8-11=0/1689 MOTES Unbalanced roof live loads have been considered for this design. 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; Inclosed; MWVFRS (directional) and C-C Exterior(2E) -0.11-0 to 2-10-10 to 12-7-12. Exterior(2R) 12-7-12 to 16-5-6 to 31-0-0. Exterior(2E) -0.11-0 to 2-10-10 to 12-7-12. Exterior(2R) 12-7-12 to 16-5-6, Inteior(1) 16-5-6 to 31-0-0. Exterior(2E) -0.10, Interior(1) 3-41-10 to 20ne; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.15 Plate DOL=-1.15; Is=10; Rough Cat B; Partially Exp; Ce=1.0; Cs=1.00, Ct=1.0, Lu=50-0-0; Min. flat roof snow load governs. Rais surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4. Unbalanced snow loads have been considered for this design. This truss has been designed for a 10.0 psf bottom chord live load on concurrent with other live loads. Provide adequate drainage to prevent water ponding. All plates are MT20 plates unless otherwise indicated. This truss has been designed for a 10.0 psf bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will it between the bottom chord and any other members, with BCDL = 10.0pst. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 th uplit at joint(s) except (II=Ib) 1.71-152, 10=-125. This truss is designed for a loc opt bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will its bearding any other members, with BCDL = 10.0pst. Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.	BOT CHORD 16-17=-126/21	13. 14-16=-34/1801. 13-14=-174/3418	. 11-13=-86/2007. 10-11=	=-110/514					
 T-13=-100/1397, 3-17=-1944/117, 8-11=0/1699 NOTES 1) Unbalanced rool live loads have been considered for this design. 2) Wind: ASCE 7-16; Vital 200mb (3-second gust) Vasd=103mbh; TCDL=6.0psf; h=25f; B=45f; L=38f; eave=5f; Cat. I; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-10-10, Interior(1) 2-10-10 to 12-7-12, Exterior(2R) 12-7-12 to 16-5-6, Interior(1) 16-5-6 to 31-0-0, Exterior(2E) -0-11-0 to 2-10-10, Interior(1) 2-10-10 to 12-7-12, Exterior(2R) 12-7-12 to 16-5-6, Interior(1) 16-5-6 to 31-0-0, Exterior(2E) -0-11-0 to 2-10-10, Interior(1) 24-9-10 to 38-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.0, Dister 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; Pl=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Ps=10; Pse 20; Pse 20;	WEBS 4-16=-13/567	4-14=-242/2859 5-14=-2060/292 5-1	3=-409/15 6-13=-621/127	7					
 Notes that the function of the bit of the bit	7-13=-100/130	7 3-17=-1944/117 8-11=0/1689		,					
 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) 1-0-11-0 to 21-0-10, Interior(1) 21-0-10 to 23-0-10; 23-0-10 to 23-0-10; 12-0-10; 23-0-10 to 23-0-10; 12-0-10; 23-0-10 to 23-0-10; 12-0-10 to 23-0-10; 12-0-10 to 23-0-10; 12-0-10; 23-0-0; 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. 3) ToLL: ASCE 7-16; Pr=20.0 psf (root LL: Lum DOL=1.15); Pg=15.0 psf; PI=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; Cl=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 annov loads have been considered for this design. 5) This truss has been designed for a 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 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 filt Ediveren the bottom chord and any other members, with BCDL = 10.0psf. 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (li=b) 1.7=125, 10-125. 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/TP1 1. 12) Graphical purific regrep	7 10-100/138	,, , , , , = 13+7,117, 0 11=0,1003							
 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; B=25ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Enclosed; WWFRS (directional) and C-C Exterior(2R) 12-7-12 to 16-5.6, Interior(1) 16-5.6 to 31-0-0, Exterior(2R) 31-0-10 a 34-9-10, Interior(1) 2-10-10 to 12-7-12, Exterior(2R) 12-7-12 to 16-5.6, Interior(1) 16-5.6 to 31-0-0, Exterior(2R) 31-0-10 a 34-9-10, Interior(1) 34-9-10 to 38-11-0 zone; cantilever left and right exposed; c-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15) Pate DOL=1.15); Pg=15.0 psf; Pt=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=-10; Rough Cat B; Partially Exp.; Ce=1.0; Ce=-1.0, Cu=-1.00, Lu=50-0-0; Min. flat roof isol wold 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) This truss has been designed for a live load of 20.0 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 10.0 psf. 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=125, 10=125. 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANS/TP1 1. 22) Graphical purfin representation does not depict the size or the orientation of the purfin along the top and/or bottom chord. 23) This truss is designed in accordance with the 2018 International Resident	NOTES-								
 Wind: ASCE 7-16; Vull=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp E; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 210-10, Interior(1) 2-10-10 to 12-7-12, Exterior(2R) 12-7-12 to 16-56, Interior(1) 13-6-56 to 31-0.0; Exterior(2E) 1-0-10 to 32-10-10 to 32-10 to 38-11-0 to 20ne; 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 piate 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; PI=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Rumon and the probability of the set of t	1) Unbalanced roof live loads ha	ave been considered for this design							
 1) Exp (E) Enclosed: 1WFRS (directional) and C-C Exterior(2R) 31-0-10 52-10-00, Interior(1) 2-10-10 to 12?-7.12, Exterior(2R) 12	2) Wind: ASCE 7-16: Vult-130m	nh (3-second qust) Vasd-103mpb TC	DI =6 Opsf: BCDI -6 Opsf	f h=25ft R-45ft	1=38ft: eave-5ft	· Cat			
 The provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 pst 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 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 bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. Graphical pullin to prevent water bottom chord in 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 section (by others) of truss to bearing plate capable of with Standard ANSI/TPI 1. Graphical pullin to prevent water 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 section (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1/7=125, 10-125. 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. Graphical pullin representation does not depict the size or the orientation of the purini along the top and/or bottom chord. 	II: Fxp B: Enclosed: MW/FRS	(directional) and C-C Exterior(2E) -0-1	1-0 to 2-10-10 Interior(1)	2-10-10 to 12-7-	12 Exterior/2R1	., out.			
 In the two set of interact (16 to of 16 to 16 t	12-7-12 to 16-5-6 Interior(1)	16-5-6 to 31-0-0 Exterior(2R) 31-0-0 to	34-9-10 Interior(1) 34-9	-10 to 38-11-0 7	one: cantilever le	ft and		ANTITUS -	
 By the problement of the lange of the problement of t	right exposed · end vertical le	thand right exposed C-C for members	and forces & MWFRS for	reactions shown	1: Lumber DOI –1	60		IN CAP	1,
 a) TCLL: ASCE 7-16; PT=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); Rough Cat B; Partially Exp; Cg=1.0; Cs=1.0; 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) All plates are MT20 plates unless otherwise indicated. 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. 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1/7-125, 10-125. 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANS//TP1 1. 12) Graphical purine representation does not depict the size or the orientation of the purin along the top and/or bottom chord. All plates and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/22023 BEFORE USE. Design valid for use only with Mitted® connectors. This design is based only upon parameters and properly incorporate this design into the overall building design. Tarcing indicated is to prevent building designer must verify the applicability of design parameters only conductant transing and permanent bracing 	$r_{\rm n}$	and fight exposed, o o for members						"TH UARO	111
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 Section, technologie out of the field of the section of the field of the section of the field of the section of t	DOI = 1.15): Is=1.0: Rough C:	at B: Partially Exp : Ce=1 0: Cs=1 00: C	t=1.10, $t=0.0$ ps, $t=0.0t=1.10$ Lu=50-0-0. Min f	lat roof snow loa	d aoverns Rain		122	CHES HON	Y
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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)



WEBS 4-12=0/252, 5-10=0/252, 3-13=-1107/194, 6-9=-1106/195

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 8-0-2, Exterior(2R) 8-0-2 to 12-3-1, Interior(1) 12-3-1 to 13-7-6, Exterior(2R) 13-7-6 to 17-8-7, Interior(1) 17-8-7 to 22-6-8 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 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.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Plate Olisets (X,Y) [2:Edge,	0-1-12], [3:0-2-8,0-2-1]							
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 16.5/15.0 TCDL 10.0 PCUL 0.0 t	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.12 BC 0.11 WB 0.01	DEFL. Vert(LL) -0 Vert(CT) -0 Horz(CT) -0	in (loc) 0.00 5-6 0.00 5-6 0.00 5-6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP					Weight: 24 lb	FT = 20%
LUMBER-		BF	ACING-					

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 6=71(LC 9) Max Uplift 5=-47(LC 9), 6=-51(LC 12)

Max Grav 5=177(LC 31), 6=274(LC 32)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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); cantilever left and right exposed ; end vertical left and right exposed; 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=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.
- 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) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6.
- 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.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-43, 2-3=-43, 3-4=-53, 5-6=-20 Concentrated Loads (lb)

Vert: 7=-89(F)



Structural wood sheathing directly applied or 3-5-9 oc purlins,

except end verticals, and 2-0-0 oc purlins: 3-4.

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

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referenced standard ANSI/TPI 1.



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LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.13 BC 0.06 WB 0.05 Matrix-MP	DEFL. Vert(LL) -0. Vert(CT) -0. Horz(CT) -0.	in (loc) 00 5-6 00 5-6 00 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 32 lb	GRIP 244/190 FT = 20%
BCDL 10.0							3	

LUMBER-

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

BRACING-TOP CHORD

BOT CHORD

 Structural wood sheathing directly applied or 5-7-0 oc purlins, except end verticals.
 Bigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (size) 6=0-3-8, 4=0-3-8 Max Horz 6=-69(LC 14) Max Uplift 6=-13(LC 16), 4=-13(LC 16) Max Grav 6=212(LC 2), 4=212(LC 2)

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=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
- 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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	0-4-8' 3	3-1-8	3	3-1-8	0-4-8		
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 0.19 BC 0.12 WB 0.07 Matrix-MP	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.00 7-8 -0.01 7-8 0.00 6	l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20 Weight: 46 lb	GRIP 244/190 FT = 20%
LUMBER-		в	RACING-				

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except*
	2-8,4-6: 2x6 SP No.2
OTHERS	2x4 SP No 3

REACTIONS. (size) 8=0-3-0, 6=0-3-0 Max Horz 8=78(LC 15)

Max Uplift 8=-52(LC 16), 6=-52(LC 16) Max Grav 8=330(LC 2), 6=330(LC 2)

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 3-6-0, Exterior(2R) 3-6-0 to 6-9-4 , Interior(1) 6-9-4 to 7-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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.

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 4) 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) 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.

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

ORTH CHIMAN CONTRACT MULLIUM, SEAL 036322 G mm July 22,2024

Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

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	<u>8-6-5</u> 8-6-5	16-9-3 8-2-13	<u>25-3-8</u> 8-6-5	
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. DEF TC 0.55 Vert BC 0.81 Vert WB 0.37 Horz Matrix-MS Horz Horz	L. in (loc) l/defl L/d (LL) -0.16 9-11 >999 240 (CT) -0.24 11-12 >999 180 (CT) 0.04 8 n/a n/a	PLATES GRIP MT20 244/190 Weight: 148 lb FT = 20%
LUMBER-		BRACING-		

TOP CHORD

BOT CHORD

WEBS

LUM	RF	:R-	
TOD	~	105	

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

REACTIONS. (size) 12=0-3-8, 8=0-3-8 Max Horz 12=-183(LC 14) Max Uplift 12=-94(LC 16), 8=-94(LC 16) Max Grav 12=1181(LC 28), 8=1181(LC 29)

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

TOP CHORD 2-3=-496/126, 3-4=-1405/196, 4-5=-1405/196, 5-6=-496/126, 2-12=-443/133,

6-8=-443/133

BOT CHORD 11-12=-60/1329, 9-11=0/926, 8-9=-50/1216

WEBS 4-9=-45/636, 5-9=-282/162, 4-11=-45/635, 3-11=-282/162, 3-12=-1108/45, 5-8=-1108/44

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=25ft; 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 12-7-12, Exterior(2R) 12-7-12 to 15-7-12, Interior(1) 15-7-12 to 26-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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) 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.



Structural wood sheathing directly applied or 4-6-10 oc purlins,

3-12, 5-8

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

except end verticals.

1 Row at midpt

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- 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, 7.
- 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.



SEAL

036322

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ENGINEERING BY A MITEK Affiliate

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			38-0-	0					
Plate Offsets (2	X,Y) [6:0-2-3,E	dge], [12:0-2-8,0-2-1], [14:0-2-8,0-2-1]], [20:0-2-3,Edge]						
LOADING (ps TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	f) 20.0 16.5/15.0 10.0 0.0 * 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.08 BC 0.04 WB 0.15 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (lo -0.00 -0.00 0.01	oc) l/defl 25 n/r 25 n/r 26 n/a	L/d 120 120 n/a	PLATES MT20 Weight: 297 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS OTHERS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3		BF TC BC	ACING- P CHORD S T CHORD F EBS 1	Structural w except end Rigid ceiling 6-0-0 oc bra 1 Row at mi	vood sheathir verticals, and g directly app acing: 47-48,2 idpt	ng directly a 1 2-0-0 oc p lied or 10-0 26-27. 14-36, 1	pplied or 6-0-0 oc purlins urlins (6-0-0 max.): 12-14 -0 oc bracing, Except: 13-37, 12-38, 11-39, 10-4	, ł. 1, 15-35,

REACTIONS. All bearings 38-0-0.

(Ib) - Max Horz 48=-235(LC 14) Max Uplift All uplift 100 lb or less at joint(s) 26, 37, 39, 41, 42, 43, 44, 45, 46, 35, 33, 32, 31, 30, 29, 28,

27 except 48=-159(LC 14), 47=-113(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 48, 26, 36, 37, 38, 39, 41, 42, 43, 44, 45, 46, 47, 35, 33, 32, 31, 30, 29, 28, 27

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

TOP CHORD 11-12=-163/268, 14-15=-163/268

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 3-0-0, Exterior(2N) 3-0-0 to 17-0-0, Corner(3E) 17-0-0 to 21-0-0, Corner(3R) 21-0-0 to 25-0-0, Exterior(2N) 25-0-0 to 38-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) 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.

- 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) Provide adequate drainage to prevent water ponding.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable requires continuous bottom chord bearing.
- 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) * 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.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26, 37, 39, 41, 42, 43, 44, 45, 46, 35, 33, 32, 31, 30, 29, 28, 27 except (jt=lb) 48=159, 47=113.

Continued on page 2

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16-33



Job	Truss	Truss Type	Qty	Ply	RVF-LOT #30 ROOF	
04 4000 4	T040F					166955458
24-4363-A	104GE	PIGGYBACK BASE SUPPO	1	1	lob Reference (optional)	
Riverside Roof Truss, LLC,	Danville, Va - 24541,		8	3.730 s Ju	n 13 2024 MiTek Industries, Inc. Thu Jul 18 10:06:44 2024	Page 2
		ID:B>	kl2MwYau	NHkbraG	CmHloyOvst-nKFKAuf051S86GI76Q94i183nMYixM4Ajgtaa	Tywsfv

NOTES-

15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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	1	3-7-12	17-0)-0	22-10-0	1	28-8-0	1	38-0-0	1	
	I	3-7-12	8-4	-4	5-10-0	I	5-10-0	1	9-4-0		
Plate Offsets (X,Y	Y) [2:0-2-0,0-1-1	2], [6:0-2-8,0-2-1],	7:0-3-0,0-2-0], [1	11:0-2-0,0-1-12]							
LOADING (psf) TCLL (roof) Snow (Pf/Pg) 16 TCDL BCLL BCDL	20.0 5.5/15.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.9 BC 0.8 WB 0.7 Matrix-MS	1 Ve 1 Ve 1 Ve	E FL. ert(LL) ert(CT) orz(CT)	in (loc) -0.82 17-19 -1.31 17-19 0.10 13	l/defl >554 >346 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 260 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2: BOT CHORD 2: WEBS 2:	x4 SP No.2 *Except -6,7-9: 2x4 SP DSS x4 SP DSS x4 SP No.3	*			BRACING- TOP CHOR BOT CHOR WEBS	:D 9 :D F	Structural wood 2-0-0 oc purlins Rigid ceiling dii 6-0-0 oc bracin 1 Row at midpt	d sheathin s (3-11-8 r rectly appl g: 16-19	g directly appli nax.): 6-7. ied or 9-6-15 c 5-20, 7-19,	ied, except end vertic oc bracing. Except: 3-23, 10-13	als, and

REACTIONS. (size) 23=0-3-8, 13=0-3-8 Max Horz 23=235(LC 15) Max Uplift 23=-73(LC 16), 13=-47(LC 16) Max Grav 23=1984(LC 28), 13=2067(LC 29)

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

 TOP CHORD
 2-3=-624/99, 3-5=-2823/122, 5-6=-2353/129, 6-7=-1937/139, 7-8=-3196/182, 8-10=-3031/38, 10-11=-468/90, 2-23=-512/120, 11-13=-423/113

 BOT CHORD
 22-23=0/2510, 20-22=0/2393, 18-20=0/1959, 14-18=0/1959, 13-14=0/2392

WEBS 5-22=-13/334, 5-20=-608/151, 6-20=0/975, 7-19=-84/353, 7-16=-56/1364, 14-16=-113/1191, 8-14=-579/195, 10-14=0/280, 3-23=-2377/2, 10-13=-2614/0

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 17-0-0, Exterior(2E) 17-0-0 to 21-0-0, Exterior(2R) 21-0-0 to 26-4-8, Interior(1) 26-4-8 to 38-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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, with BCDL = 10.0psf.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 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.

11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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E RENCO A MITek Affiliate 818 Soundside Road



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July 22,2024



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2x4 💋

except end verticals.

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

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.09 BC 0.06 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (lo n/a n/a 0.00	oc) l/defl - n/a - n/a 3 n/a	L/d 999 999 n/a	PLATES MT20 Weight: 10 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2		B T	RACING- OP CHORD	Structural w	vood sheath	ing directly ap	oplied or 2-11-8 oc purl	lins,

BOT CHORD

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

REACTIONS. 1=2-11-1, 3=2-11-1 (size) Max Horz 1=46(LC 13) Max Uplift 1=-3(LC 16), 3=-9(LC 13)

Max Grav 1=92(LC 20), 3=93(LC 27)

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) 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) Gable requires continuous bottom chord bearing.

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

* 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 6) will fit between the bottom chord and any other members.

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

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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2x4 ⋍

Plate Offsets (X,Y) [2:1-0-14	,0-1-13]								
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.04 BC 0.02 WB 0.00	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	GRIP 244/190
BCDL 10.0	Code IRC2018/1PI2014	Matrix-P						Weight: 7 lb	FI = 20%
LUMBER-		BR	ACING-	Structural	wood	abaathia	a directly on	plied or 2.0.0 op pur	ino

LOWIDER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-9-0 oc purlins,
BOT CHORD	2x4 SP No.2		except end verticals.
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=2-8-2, 3=2-8-2 Max Horz 1=16(LC 13) Max Liplift 1=-3((C 16) 3=-4

Max Uplift 1=-3(LC 16), 3=-4(LC 16) Max Grav 1=61(LC 2), 3=61(LC 2)

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) 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

Unbalanced snow loads have been considered for this design.

4) Gable requires continuous bottom chord bearing.

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

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

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

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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