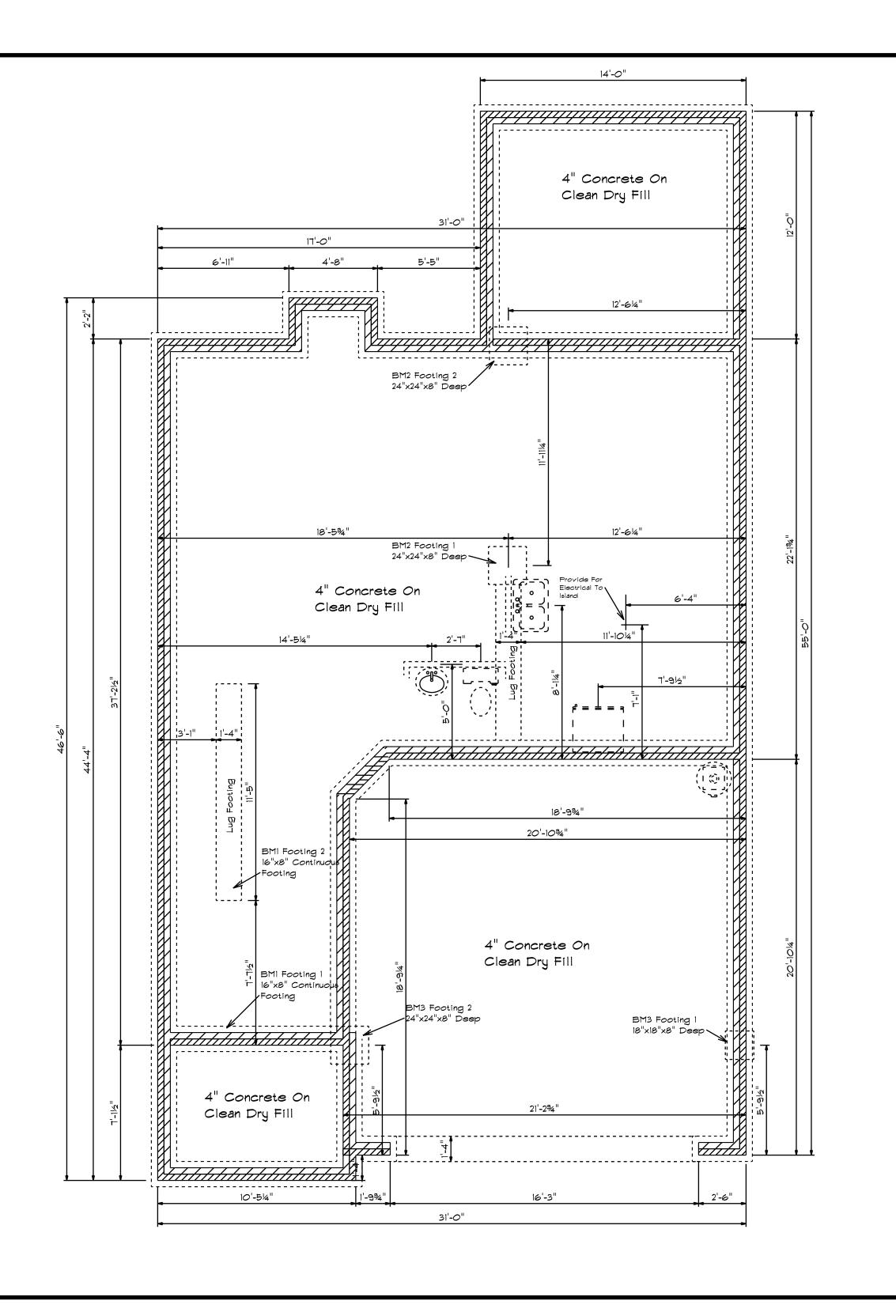


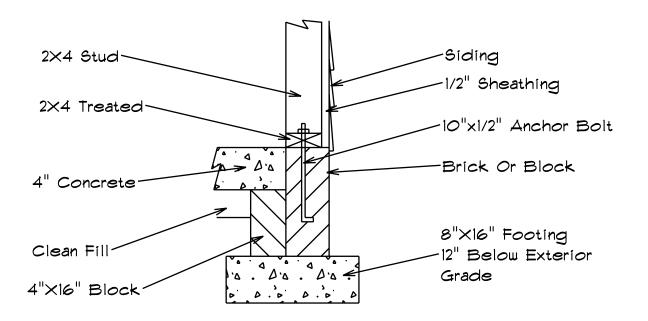
SCALE: 1/4"
DRAWN BY
APPROVED

Plan #10

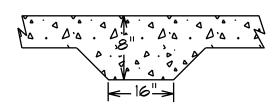




Foundation Detail Siding



Lug Footing Detail



Foundation Plan
Scale: 1/4"= 1'-0"





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

Phone #:919-775-1450



Model: GLH 132 Hidden Lakes - Plan 10



THE PLACEMENT PLAN NOTES:

- 1. The Placement Plan is a diagram for truss installation. It is not an engineered drawing and has not been reviewed by an engineer. The Owner/Building Designer is responsible for obtaining an engineer's review if one is required by the local jurisdiction.
- 2. The responsibilities of the Owner, Contractor, Building Designer, Component Designer and Component Manufacturer shall be as set forth in ANSI/TPI 1. Capitalized terms shall be as defined in ANSI/TP 1 unless otherwise indicated.
- 3. Each Component is designed as an individual component utilizing information provided by others. The Owner/Building Designer is responsible for reviewing all Component Submittal Packages and individual Component Design Drawings for compliance with the Construction Documents and compatibility with the overall Building design.
- 4. Contractor will not proceed with component installation until the Owner/Building Designer has reviewed the Component Submittal Package. Questions on the suitability of any Component will be resolved by the Building Designer.
- 5. The Building Designer and Contractor are responsible for all temporary and permanent bracing.
- 6. The Placement Plan assumes the building is dimensionally correct, structurally sound, and in a suitable condition to support each Component during installation and thereafter, including but not limited to installation of all bearing points. Proper design and construction of all structural components, including foundations, headers, beams, walls and columns are the responsibility of the Owner, Building Designer and Contractor.
- 7. Do not cut, drill, or modify any Component without first consulting the Component Manufacturer or Building Designer. Damaged Components shall not be installed unless directed by the Building Designer or approved by the Component Manufacturer.
- 8. Components must be handled and installed following all applicable safety standards and best practices, including but not limited to BCSI, OSHA, TPI and local codes. Failure to properly handle, brace or otherwise install Component can result in serious injury or death.
- 9. All uplift connectors shown within these documents are recommendations only. Per ANSI/TPI 1, all uplift connectors are the responsibility of the building designer and or contractor.

Approved By:	Date:
--------------	-------

Aaron Rogers

Project Number: 1/10/2025

132 Hidden Lakes North-Roof-Plan 10 GLH

ROOF PLACEMENT PLAN



specification of the building designer. See Individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor systems and for the overall structure. The disign of the tuss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding the bracing, consult "Bracing of Wood Truss" available from the Truss Plate Institute, 583 D'Onifrio Drive: Madison, WI 53179

	Revisions	sions
,	00/00/00	Name
	00/00/00	Name



Customer: Street 1: City:

Customer Ph.

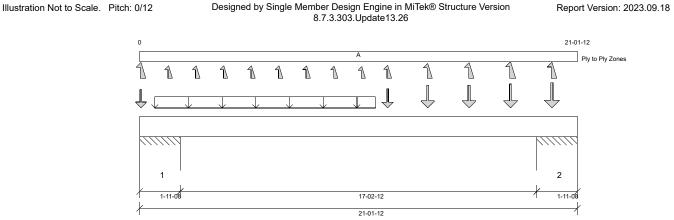
Job Name: 01

Level: 1st FLOOR Label: DB1-2 - i52 Type: Beam

2 Ply Member 2.1 RigidLam SP LVL 1-3/4

Status: Design **Passed**

x 11-7/8 01/10/2025 12:25



DESIGN INFORMATION a

IRC 2021 **Building Code:** Design Methodology: ASD

Risk Category: II (General Construction)

Residential

Service Condition: Dry System Spacing:

LL Deflection Limit: L/360, 0.75" (absolute) L/240, 1.00" (absolute) TL Deflection Limit:

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 1'- 10 1/2" Bottom: 20'- 6 3/4"

Bearing Stress of Support Material:

- 725 psi Wall @ 0'- 1 1/2"
- 725 psi Wall @ 1'- 10"
- 725 psi Wall @ 19'- 3 3/4"
- 725 psi Wall @ 21'- 1/4"

ANALYSIS RESULTS						
Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Max Pos. Moment:	10'- 8 3/4"	D + S	1.15	2378 lb ft	24315 lb ft	Passed - 10%
Max Neg. Moment:	19'- 3 3/4"	D + S	1.15	3973 lb ft	17567 lb ft	Passed - 23%
Max Shear:	18'- 2 3/8"	D + S	1.15	1380 lb	9241 lb	Passed - 15%
Live Load (LL) Pos. Defl.:	10'- 6 7/8"	S		0.051"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	10'- 6 13/16"	D + S		0.090"	L/240	Passed - L/999

SUF	PORT AND	REACTION INFORM	IATION					
ID	Input Bearing Length	Controlling Load Combination	LDF	Downward Reaction	Uplift Reaction	Resistance of Member	Resistance of Support	Result
1	8-04	0.6D + 0.6W	1.60	436 lb		30130 lb	20934 lb	Passed - 2%
1	8-04	D + Lr	1.15		-2049 lb	-	-	
1	1-03-04	D + S	1.15	3872 lb		40031 lb	38697 lb	Passed - 10%
1	1-03-04	0.6D + 0.6W	1.60		-978 lb	-	-	
2	1-03-04	D + S	1.15	3967 lb		40031 lb	38697 lb	Passed - 10%
2	1-03-04	0.6D + 0.6W	1.60		-960 lb	-	-	
2	8-04	0.6D + 0.6W	1.60	536 lb		30130 lb	20934 lb	Passed - 3%
2	8-04	D + S	1.15		-2183 lb	-	-	

LOADI	NG								
Туре	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Roof Live (Lr)	Wind (W)
Self Weight	0'	21'- 1 3/4"	Self Weight	Тор	11 lb/ft	-	-	-	-
Uniform	0'- 8 3/4"	11'- 4 3/4"	Smoothed Load	Top	66 lb/ft	-	54 lb/ft	78 lb/ft	23 lb/ft
Point	0'- 3/4"	0'- 3/4"	T01(c01)	Top	87 lb	-	84 lb	121 lb	36/-261 lb
Point	1'- 4 3/4"	1'- 4 3/4"	T02(c07)	Top	-	-	-	-	-171 lb
Point	2'- 8 3/4"	2'- 8 3/4"	T02(c04)	Top	-	-	-	-	-171 lb
Point	4'- 3/4"	4'- 3/4"	T02(c03)	Top	-	-	-	-	-171 lb
Point	5'- 4 3/4"	5'- 4 3/4"	T02(c05)	Top	-	-	-	-	-171 lb
Point	6'- 8 3/4"	6'- 8 3/4"	T02(c08)	Top	-	-	-	-	-171 lb
Point	8'- 3/4"	8'- 3/4"	T02(c01)	Top	-	-	-	-	-170 lb
Point	9'- 4 3/4"	9'- 4 3/4"	T02(c02)	Top	-	-	-	-	-157 lb
Point	10'- 8 3/4"	10'- 8 3/4"	T02(c06)	Top	-	-	-	-	-150 lb
Point	11'- 11 3/4"	11'- 11 3/4"	T03(c01)	Top	98 lb	-	85 lb	122 lb	36/-183 lb
Point	13'- 11"	13'- 11"	T04(c03)	Top	132 lb	-	107 lb	155 lb	46/-233 lb
Point	15'- 11"	15'- 11"	T04(c01)	Тор	133 lb	-	108 lb	156 lb	46/-255 lb
Point	17'- 11"	17'- 11"	T04(c02)	Top	137 lb	-	114 lb	165 lb	49/-280 lb
Point	19'- 11"	19'- 11"	T04(c04)	Тор	147 lb	-	126 lb	182 lb	54/-265 lb

UNFAC	CTORED RI	EACTIONS						
ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Roof Live (Lr)	Wind (W)
1	0'	1'- 11 1/2"	E13(i23)	1804/-952 lb	-	1267/-650 lb	1986/-1095 lb	436 lb/ -1755 lb
==>	0'- 1 1/2"	0'- 1 1/2"	E13(i23)	-952 lb	-	-650 lb	157/-1095 lb	-
==>	1'- 10"	1'- 10"	E13(i23)	1804 lb	-	1267 lb	1829 lb	-
2	19'- 2 1/4"	21'- 1 3/4"	E5(i4)	1836/-1019 lb	-	1300/-719 lb	1938/-1098 lb	436 lb/ -1755 lb
==>	19'- 3 3/4"	19'- 3 3/4"	E5(i4)	1836 lb	-	1300 lb	1877 lb	-
==>	21'- 1/4"	21'- 1/4"	E5(i4)	-1019 lb	-	-719 lb	61/-1098 lb	-

DESIGN NOTES

- · CAUTION: The maximum net analysis reaction exceeds the user-defined maximum uplift value at one or more supports.
- · The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.



Customer: Street 1: City: Customer Ph... Job Name: 01

Level: 1st FLOOR Label: DB1-2 - i52 Type: Beam 2 Ply Member 2.1 RigidLam SP LVL 1-3/4 x 11-7/8 Status:

Design
Passed

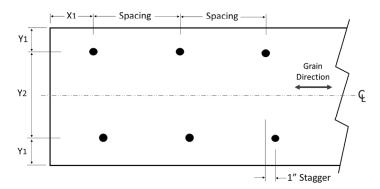
DESIGN NOTES

- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already
 specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if
 required) as per manufacturer's instruction.
- Beam Stability Factor used in the calculation for Allowable Max Pos Moment (CL) = 0.99

PLY TO PLY CONNECTION

- Zone A: Factored load = 0 plf. Use 12d (0.148"x3.25") nails. LDF = 1.00. Qty = 44. Row = 2, Spacing = 12"
 12d (0.148"x3.25") nails properties: D = 0.148", L = 3.25". Fastener capacity = 128 lbs. X1 = 2.25", Y1 = 0.75", Y2 = 1.5"
 Install fasteners from one face.
 - X1 = Minimum end distance, X2 = Minimum edge distance, Y2 = Minimum row spacing.

FASTENER INSTALLATION - 2 ROWS (FROM ONE FACE)





Trenco 818 Soundside Rd Edenton, NC 27932

Re: 25010029-01

132 Hidden Lakes North-Roof-Plan 10 GRH

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

Pages or sheets covered by this seal: I70703713 thru I70703736

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

North Carolina COA: C-0844



January 13,2025

Gilbert, Eric

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

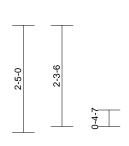
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25010029-01	PB07	Piggyback	2	1	Job Reference (optional)

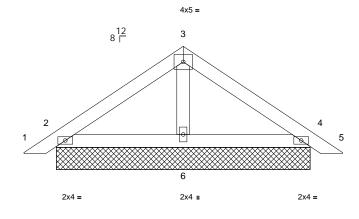
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Page: 1

-0-8-12







5-8-11

Scale = 1:26

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 24 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 2=5-8-11, 4=5-8-11, 6=5-8-11

Max Horiz 2=-51 (LC 12)

Max Uplift 2=-30 (LC 14), 4=-36 (LC 15)

Max Grav 2=218 (LC 21), 4=218 (LC 22),

6=200 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/24, 2-3=-114/74, 3-4=-114/74, 4-5=0/24 11) n/a TOP CHORD

2-6=-13/48, 4-6=-3/48 BOT CHORD

WEBS 3-6=-87/18

NOTES

- 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; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Exterior(2R) 3-3-5 to 3-11-10, Exterior(2E) 3-11-10 to 6-11-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live 6) load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



January 13,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

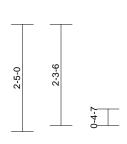


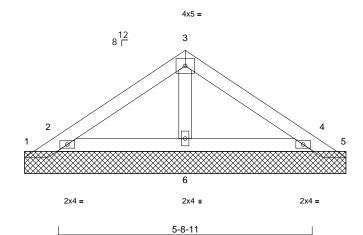
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25010029-01	PB07A	Piggyback	15	1	Job Reference (optional)

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0-8-12				
	2-10-6	5-8-11	6-5-7	
0-8-12	2-10-6	2-10-6	0-8-12	





Scale = 1:26

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 24 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=7-2-15, 2=7-2-15, 4=7-2-15, 5=7-2-15, 6=7-2-15

Max Horiz 1=-52 (LC 10)

Max Uplift 1=-144 (LC 21), 2=-94 (LC 14),

4=-86 (LC 15), 5=-141 (LC 22) 1=66 (LC 14), 2=413 (LC 21),

Max Grav

4=401 (LC 22), 5=46 (LC 15),

6=175 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-69/123, 2-3=-110/67, 3-4=-110/67,

4-5=-44/110

BOT CHORD 2-6=-44/41, 4-6=-44/41

WFBS 3-6=-91/21

NOTES

- 1) 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; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Exterior(2R) 3-3-5 to 3-11-10, Exterior(2E) 3-11-10 to 6-11-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this 5) design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 144 lb uplift at joint 1 and 141 lb uplift at joint 5.
- 11) n/a
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



January 13,2025

Page: 1

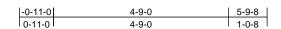
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

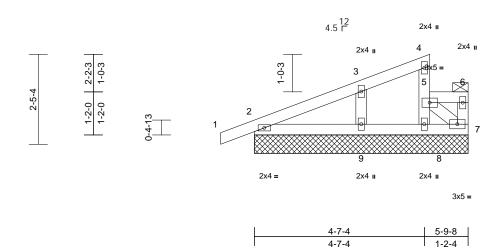
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-Roof-Plan 10 GRH
25010029-01	T01	Half Hip Supported Gable	1	1	Job Reference (optional)

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Scale = 1:31.2

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 25 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WFBS OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-9-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 5-8, 5-6.

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

bracing.

REACTIONS 2=5-9-8, 7=5-9-8, 8=5-9-8, 9=5-9-8 (size)

Max Horiz 2=62 (LC 14)

Max Uplift 2=-23 (LC 10), 7=-11 (LC 11),

9=-37 (LC 14)

Max Grav 2=146 (LC 38), 7=43 (LC 37),

8=163 (LC 37), 9=197 (LC 38)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/18, 2-3=-65/41, 3-4=-32/9, 5-8=-151/0,

4-5=-151/0. 5-6=-7/14. 6-7=-30/27 BOT CHORD

2-9=-14/44, 8-9=-14/33, 7-8=-11/37 **WEBS** 3-9=-159/148, 5-7=-34/9

NOTES

- 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; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 5-7-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 10) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 2, 37 lb uplift at joint 9, 11 lb uplift at joint 7 and 23 lb uplift at joint 2.
- 13) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 120 lb down at 4-7-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-4=-40, 5-6=-40, 7-10=-13

Concentrated Loads (lb) Vert: 4=-120 (F)



Page: 1

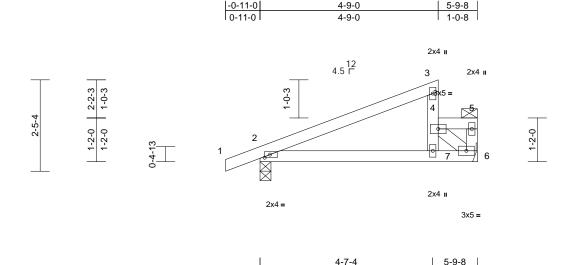
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job		Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-Roof-Plan 10 GRH
250	10029-01	T02	Half Hip	8	1	I70703716 Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 16:02:11 ID:mhHo83hBNiyJ8Nt4KGVsk2zwnKV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:30.7

Plate Offsets	(X, '	Y):	[2:0-1-11,0-1-0]
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Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.02	7-10	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.04	7-10	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.08	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 24 lb	FT = 20%

4-7-4

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-9-8 oc purlins, except end verticals, and

2-0-0 oc purlins: 4-7, 4-5.

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

bracing

REACTIONS (size) 2=0-3-8, 6= Mechanical Max Horiz 2=62 (LC 14)

> Max Uplift 2=-16 (LC 10) Max Grav 2=271 (LC 38), 6=257 (LC 38)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/18, 2-3=-203/0, 4-7=-18/98,

3-4=-58/69, 4-5=-7/11, 5-6=-30/18

BOT CHORD 2-7=-8/174, 6-7=0/344

WEBS 4-6=-442/0

NOTES

- 1) 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; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 5-7-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this

- 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 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 11) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.
- 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-3=-40, 4-5=-40, 6-8=-13 Concentrated Loads (lb)

Vert: 4=-120 (F)



January 13,2025

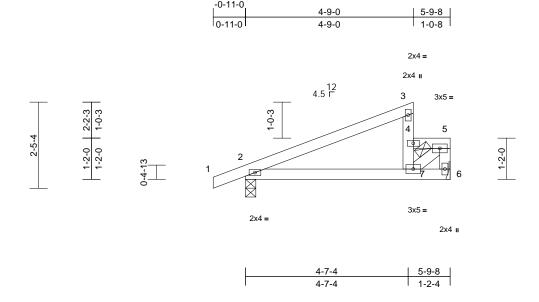
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-Roof-Plan 10 GRH
25010029-01	T03	Half Hip	1	2	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 16:02:11 ID:MfeWfg3d4EsvM8k1eHY8UbzwnK0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:32.6

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.01	7-10	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	7-10	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0			1							Weight: 48 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

5-9-8 oc purlins, except end verticals, and

2-0-0 oc purlins: 4-7, 4-5.

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

bracing

REACTIONS (size) 2=0-3-8, 6= Mechanical Max Horiz 2=62 (LC 14)

Max Uplift 2=-7 (LC 10)

Max Grav 2=281 (LC 38), 6=352 (LC 38)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/18, 2-3=-225/0, 4-7=-120/43,

3-4=-51/77, 4-5=-375/0, 5-6=-388/0

BOT CHORD 2-7=0/194, 6-7=-7/11

WEBS 5-7=0/497

NOTES

- 1) 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
 - Bottom chords connected as follows: 2x4 1 row at 0-9-0 oc.
- Web connected as follows: 2x4 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD
- CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated. Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 5-7-12 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

DOL=1.60

- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Refer to girder(s) for truss to truss connections.
- 12) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 13) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-3=-40, 4-5=-140 (F=-100), 6-8=-13 Concentrated Loads (lb)

Vert: 7=-120 (F)



January 13,2025

this design.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

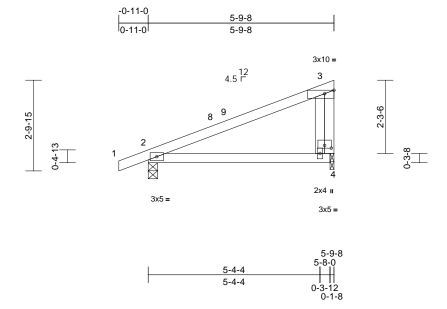
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-Roof-Plan 10 GRH
25010029-01	T04	Monopitch	4	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 16:02:12 ID:bOhwYkAHy??dxWwmggCFMUzwnJt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:35.9

Plate Offsets (X, Y): [3:Edge,0-1-5], [4:0-2-8,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.07	4-7	>959	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.12	4-7	>540	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 25 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-9-8 oc purlins, except end verticals.

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

REACTIONS (size) 2=0-3-8, 4=0-1-8

Max Horiz 2=92 (LC 13)

Max Uplift 2=-57 (LC 10), 4=-41 (LC 14) Max Grav 2=395 (LC 21), 4=298 (LC 21)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/29, 2-3=-83/75, 3-4=-214/113

BOT CHORD 2-4=-28/114

NOTES

FORCES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 2-6-0, Exterior(2E) 2-6-0 to 5-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



January 13,2025

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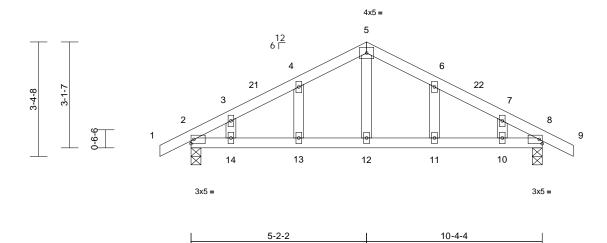
Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-Roof-Plan 10 GRH
25010029-01	T06	Common Structural Gable	1	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 16:02:12 ID:wW?YzW8yGGstrA9rWd6in9zwnG2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

5-2-2

Page: 1





Scale = 1:34

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.05	10-11	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.07	10-11	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 46 lb	FT = 20%

5-2-2

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WFBS OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing

REACTIONS (size) 2=0-3-8, 8=0-3-8

Max Horiz 2=-48 (LC 15) Max Uplift 2=-58 (LC 14), 8=-58 (LC 15)

Max Grav 2=572 (LC 21), 8=572 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/25, 2-3=-576/188, 3-4=-552/221,

4-5=-533/276, 5-6=-533/276, 6-7=-552/221,

7-8=-576/188, 8-9=0/25

BOT CHORD 2-14=-106/460, 13-14=-106/460,

12-13=-106/460, 11-12=-106/460, 10-11=-106/460, 8-10=-106/460

WEBS 5-12=-97/243, 4-13=-110/96, 3-14=-62/53,

6-11=-110/96, 7-10=-62/53

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Exterior(2R) 2-1-0 to 8-3-4, Exterior(2E) 8-3-4 to 11-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 2 and 58 lb uplift at joint 8.

LOAD CASE(S) Standard



January 13,2025



Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-Roof-Plan 10 GRH
25010029-01	T07	Common	3	1	Job Reference (optional)

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries. Inc. Sun. Jan. 12.16:02:12 ID:CtwBRvDLcQltAFBBRbkLZdzwnFx-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



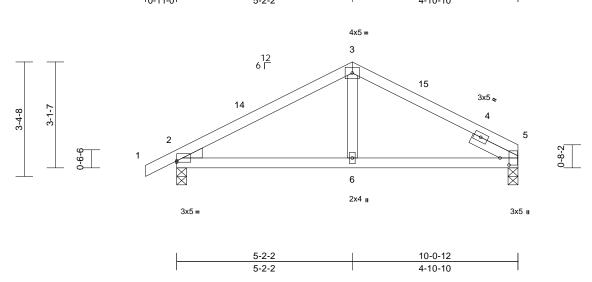


Plate Offsets (X, Y): [2:Edge,0-0-8], [5:0-2-8,0-3-3]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.03	6-13	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.05	6-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 40 lb	FT = 20%

LUMBER

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

Right 2x4 SP No.3 -- 1-6-0 **SLIDER** BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

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

Max Horiz 2=58 (LC 14) Max Uplift 2=-57 (LC 14), 5=-37 (LC 15)

Max Grav 2=563 (LC 21), 5=495 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/25, 2-3=-592/227, 3-5=-499/234

BOT CHORD 2-6=-159/428, 5-6=-157/428

WEBS 3-6=0/213

NOTES

- 1) 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; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Exterior(2R) 2-1-0 to 7-0-12, Exterior(2E) 7-0-12 to 10-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



January 13,2025

Page: 1

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

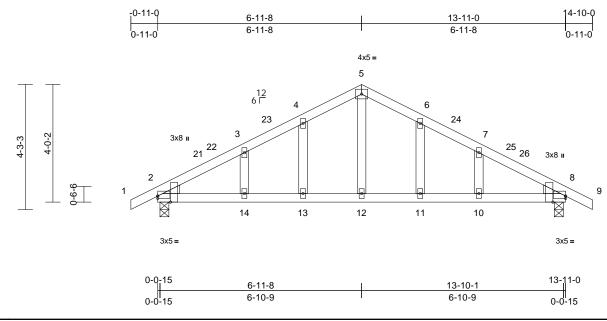
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-Roof-Plan 10 GRH
25010029-01	T08	Common Structural Gable	1	1	I70703721 Job Reference (optional)

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries. Inc. Sun. Jan 12.16:02:12 ID:Zqj4UdHURyNAH049D8KWGhzwnFs-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:39.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.16	13-14	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.22	13-14	>769	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.02	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 66 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SP No.3 **OTHERS** 2x4 SP No.3 Left: 2x4 SP No.3 WEDGE Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 2=0-3-11, 8=0-3-11

Max Horiz 2=62 (LC 14)

Max Uplift 2=-71 (LC 14), 8=-71 (LC 15) Max Grav 2=695 (LC 21), 8=695 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/25, 2-3=-778/204, 3-4=-728/239, 4-5=-722/289, 5-6=-722/289, 6-7=-728/239,

7-8=-778/204, 8-9=0/25

BOT CHORD 2-14=-100/639, 13-14=-100/639,

12-13=-100/639, 11-12=-100/639,

10-11=-100/639, 8-10=-100/639

5-12=-118/369, 4-13=-125/85, 3-14=-76/54,

6-11=-125/85, 7-10=-76/54

WEBS 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; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 3-11-8, Exterior(2R) 3-11-8 to 9-11-8, Interior (1) 9-11-8 to 11-10-0, Exterior(2E) 11-10-0 to 14-10-0 zone; cantilever left and right exposed; end vertical left and right exposed C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



January 13,2025

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

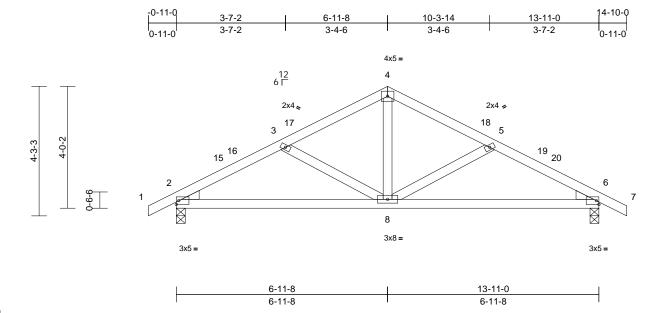
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-Roof-Plan 10 GRH
25010029-01	T09	Common	6	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries. Inc. Sun Jan 12 16:02:12

Page: 1



Scal	le	=	1	:37	7.0

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.04	8-14	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.08	8-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.02	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 65 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WFBS WEDGE Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-8-1 oc purlins.

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

bracing.

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

Max Horiz 2=62 (LC 14)

Max Uplift 2=-71 (LC 14), 6=-71 (LC 15) Max Grav 2=695 (LC 21), 6=695 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/25, 2-3=-1021/292, 3-4=-710/226,

4-5=-710/226, 5-6=-1021/292, 6-7=0/25

BOT CHORD 2-8=-178/864, 6-8=-178/864

WEBS 4-8=-50/374, 3-8=-343/150, 5-8=-343/150

NOTES

- 1) 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; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 3-11-8, Exterior(2R) 3-11-8 to 9-11-8, Interior (1) 9-11-8 to 11-10-0, Exterior(2E) 11-10-0 to 14-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI =1 60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 2 and 71 lb uplift at joint 6.

LOAD CASE(S) Standard



January 13,2025

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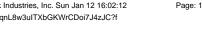


Job Truss Truss Type Qtv Ply 132 Hidden Lakes North-Roof-Plan 10 GRH 170703723 25010029-01 T10 Common Girder 2 Job Reference (optional)

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 16:02:12 ID:hu8G0u__FZlkKtf20oBp55zwn22-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

11-9-12



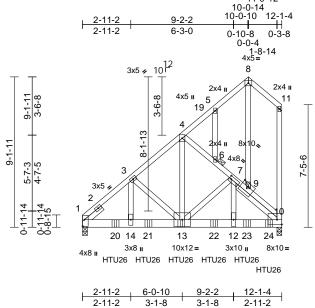


Plate Offsets (X, Y): [1:Edge,0-1-5], [7:0-1-8,0-2-0], [9:0-5-0,0-2-8], [10:Edge,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.05	13-14	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.09	13-14	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.01	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 242 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x6 SP 2400F 2.0E BOT CHORD

WEBS 2x4 SP No.3 *Except* 4-13:2x4 SP No.2

OTHERS 2x4 SP No.3

SLIDER Left 2x4 SP No.3 -- 1-3-11

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-7-3 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

JOINTS 1 Brace at Jt(s): 6,

REACTIONS (size) 1=0-3-8, 10=0-3-8

Max Horiz 1=282 (LC 11)

Max Uplift 1=-90 (LC 12), 10=-203 (LC 12) Max Grav 1=5064 (LC 22), 10=6663 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-5817/119, 3-4=-4469/116, 4-5=-229/130,

5-8=-196/121, 8-11=-223/108, 4-6=-4413/204, 6-7=-4489/253 7-9=-6315/270, 9-10=-6320/224,

10-11=-236/79

BOT CHORD 1-14=-214/4424, 13-14=-214/4424,

12-13=-190/4809, 10-12=-194/5008

WEBS 5-6=-144/76, 8-9=-148/210, 4-13=-106/5318,

3-13=-1254/119, 3-14=-25/1756,

7-12=-52/2524, 7-13=-1768/41

NOTES

1) 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 - 3 rows staggered at 0-7-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 4-13 2x4 - 1 row at 0-6-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 1 and 10. This connection is for uplift only and does not consider lateral forces.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-0 from the left end to 11-4-0 to connect truss(es) to back face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-4=-60, 4-8=-60, 8-11=-60, 10-15=-20

Concentrated Loads (lb)

Vert: 13=-1710 (B), 20=-1710 (B), 21=-1710 (B), 22=-1710 (B), 23=-1710 (B), 24=-1714 (B)



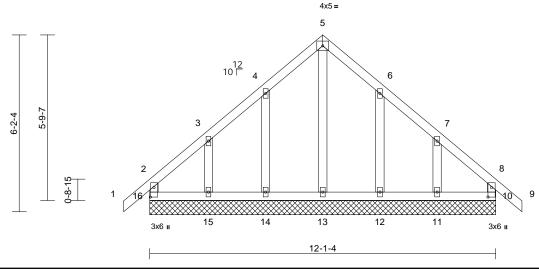
January 13,2025



Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-Roof-Plan 10 GRH
25010029-01	T11	Common Supported Gable	1	1	Job Reference (optional)

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Scale = 1:40.3

Plate Offsets (X	, Y):	[10:0-4-0,0-1-8], [16:0-4-0,0-1-8]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 71 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

REACTIONS (size) 10=12-1-4, 11=12-1-4, 12=12-1-4, 13=12-1-4, 14=12-1-4, 15=12-1-4,

16=12-1-4

Max Horiz 16=-155 (LC 12)

Max Uplift 10=-23 (LC 11), 11=-103 (LC 15),

12=-72 (LC 15), 14=-71 (LC 14), 15=-106 (LC 14), 16=-42 (LC 10)

Max Grav 10=148 (LC 37), 11=188 (LC 22), 12=277 (LC 22), 13=175 (LC 28), 14=277 (LC 21), 15=188 (LC 21),

16=161 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-16=-134/111, 1-2=0/41, 2-3=-101/90, 3-4=-74/121, 4-5=-118/225, 5-6=-118/224,

6-7=-72/122, 7-8=-81/66, 8-9=0/41,

8-10=-130/108

15-16=-66/139, 14-15=-66/139,

13-14=-66/139, 12-13=-66/139, 11-12=-66/139, 10-11=-66/139

WEBS 5-13=-205/50, 4-14=-236/137,

3-15=-163/156, 6-12=-236/136,

7-11=-160/160

NOTES

BOT CHORD

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; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 2-0-10, Exterior(2N) 2-0-10 to 3-0-10, Corner(3R) 3-0-10 to 9-0-10, Exterior (2N) 9-0-10 to 10-0-4. Corner(3E) 10-0-4 to 13-0-4 zone: cantilever left and right exposed; end vertical left and right exposed C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live 6) load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 16, 23 lb uplift at joint 10, 71 lb uplift at joint 14, 106 lb uplift at joint 15, 72 lb uplift at joint 12 and 103 lb uplift at ioint 11.

Page: 1

LOAD CASE(S) Standard



January 13,2025

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Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-Roof-Plan 10 GRH
25010029-01	T12	Piggyback Base Supported Gable	1	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 16:02:13 ID:bpWnkZYnOQxeDlt5gwAML7zwnCx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

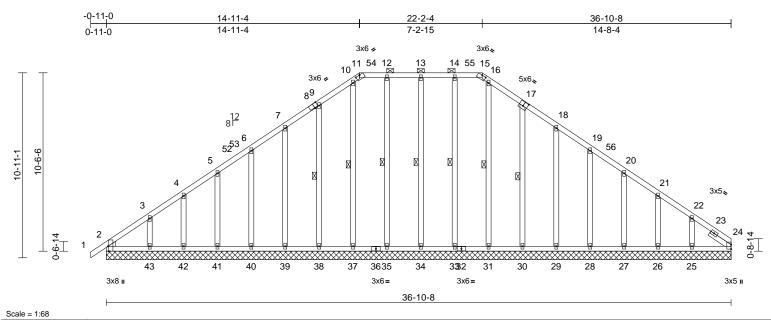


Plate Offsets (X, Y): [2:0-3-8,Edge], [8:0-2-9,Edge], [11:0-3-0,0-0-2], [15:0-3-0,0-0-2], [17:0-3-0,0-3-0]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	24	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 287 lb	FT = 20%

LL	JM	В	E	R

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3 WEDGE Left: 2x4 SP No.3 Right 2x4 SP No.3 -- 1-6-0 **SLIDER**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 11-15.

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

bracing.

WEBS 1 Row at midpt 13-34, 12-35, 10-37,

9-38, 14-33, 16-31, 17-30

REACTIONS (size) 2=36-10-8, 24=36-10-8, 25=36-10-8, 26=36-10-8, 27=36-10-8, 28=36-10-8, 29=36-10-8, 30=36-10-8,

31=36-10-8, 33=36-10-8, 34=36-10-8, 35=36-10-8, 37=36-10-8, 38=36-10-8, 39=36-10-8, 40=36-10-8,

41=36-10-8, 42=36-10-8, 43=36-10-8 Max Horiz 2=236 (LC 11)

Max Uplift 2=-62 (LC 10), 24=-13 (LC 13), 25=-115 (LC 15), 26=-40 (LC 15), 27=-60 (LC 15), 28=-56 (LC 15),

29=-51 (LC 15), 30=-70 (LC 15), 33=-23 (LC 11), 34=-32 (LC 10), 35=-22 (LC 11), 37=-6 (LC 11), 38=-67 (LC 14), 39=-55 (LC 14),

42=-41 (LC 14), 43=-105 (LC 14)

40=-55 (LC 14), 41=-60 (LC 14),

Max Grav 2=200 (LC 26), 24=134 (LC 28), 25=216 (LC 53), 26=149 (LC 26), 27=169 (LC 53), 28=210 (LC 41), 29=211 (LC 41), 30=226 (LC 41), 31=173 (LC 45), 33=216 (LC 40), 34=222 (LC 40), 35=216 (LC 40), 37=181 (LC 57), 38=226 (LC 41), 39=219 (LC 41), 40=212 (LC 41),

41=172 (LC 51), 42=145 (LC 25), 43=222 (LC 51)

(lb) - Maximum Compression/Maximum

FORCES Tension TOP CHORD 1-2=0/30, 2-3=-229/188, 3-4=-169/154,

4-5=-146/138, 5-6=-132/131, 6-7=-130/147, 7-9=-129/179, 9-10=-159/216, 10-11=-135/184, 11-12=-129/201,

12-13=-129/201, 13-14=-129/201, 14-15=-129/201, 15-16=-135/185, 16-18=-160/213, 18-19=-110/104,

19-20=-75/55, 20-21=-78/46, 21-22=-105/63, 22-24=-169/98

2-43=-109/159, 42-43=-75/159, 41-42=-75/159, 40-41=-75/159, 39-40=-75/159, 38-39=-75/159,

37-38=-75/159, 35-37=-75/159, 34-35=-75/159, 33-34=-75/159, 31-33=-75/159, 30-31=-75/159,

29-30=-74/158, 28-29=-74/158, 27-28=-74/158, 26-27=-74/158, 25-26=-74/158, 24-25=-74/158

13-34=-183/60, 12-35=-178/45, 10-37=-142/29, 9-38=-198/90, 7-39=-186/78, 6-40=-182/79, 5-41=-145/81, 4-42=-131/73,

3-43=-165/102, 14-33=-177/46, 16-31=-134/0, 17-30=-197/93, 18-29=-178/74, 19-28=-181/80, 20-27=-142/81, 21-26=-132/71.

22-25=-166/114

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 2-6-12, Exterior(2N) 2-6-12 to 11-3-0, Corner(3R) 11-3-0 to 25-10-8, Exterior (2N) 25-10-8 to 33-2-4, Corner(3E) 33-2-4 to 36-10-8 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
- 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10



January 13,2025

Continued on page 2

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE

BOT CHORD

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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-Roof-Plan 10 GRH
25010029-01	T12	Piggyback Base Supported Gable	1	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 16:02:13 ID: bpWnkZYnOQxeDlt5gwAML7zwnCx-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff

Page: 2

- 5) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 13) n/a
- 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

818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply 132 Hidden Lakes North-Roof-Plan 10 GRH 170703726 25010029-01 T13 6 Piggyback Base Job Reference (optional)

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 16:02:13 ID:u9RQCydAlZqeYqvRbuo?8bzwnCq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

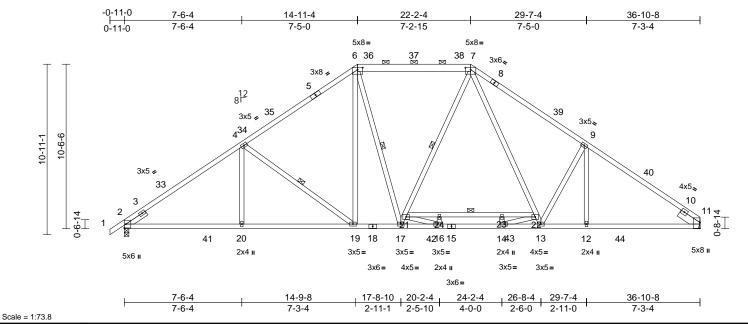


Plate Offsets (X, Y): [6:0-4-0,0-1-9], [7:0-4-0,0-1-9], [11:0-4-6,0-0-1]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.13	19-20	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.26	19-20	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.10	11	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 251 lb	FT = 20%

LUMBER

2x4 SP 2400F 2.0E *Except* 6-7:2x6 SP TOP CHORD

No.2, 7-8:2x4 SP No.1

BOT CHORD 2x4 SP 2400F 2.0E

WEBS 2x4 SP No.3 *Except* 17-7,7-13,17-6:2x4 SP

No.2

SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (4-9-15 max.): 6-7. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing

WEBS 1 Row at midpt 4-19, 7-17, 21-22, 6-17

REACTIONS

BOT CHORD

2=0-3-8, 11= Mechanical (size)

Max Horiz 2=242 (LC 11) Max Uplift 2=-79 (LC 14), 11=-17 (LC 15)

Max Grav 2=1838 (LC 51), 11=1819 (LC 47)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/35, 2-4=-2904/86, 4-6=-2336/111,

6-7=-1863/122, 7-9=-2730/112,

9-11=-2917/31

2-20=-124/2320, 19-20=-124/2320,

17-19=0/1722, 16-17=0/1734, 14-16=0/2227,

13-14=0/1785, 12-13=0/2330,

11-12=-92/2330

WFBS 4-20=0/315, 4-19=-741/232, 6-19=-66/629,

9-12=-11/191, 17-21=-207/153, 7-21=-78/303, 7-22=-41/916,

13-22=-149/728, 21-24=-609/0. 23-24=-609/0, 22-23=-609/0, 14-23=0/13, 16-24=0/9, 16-21=0/583, 14-22=0/550,

6-17=-52/294, 9-13=-584/261

- 1) 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; Cat. II: Exp B: Enclosed: MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 2-9-4, Interior (1) 2-9-4 to 9-8-11, Exterior(2R) 9-8-11 to 27-4-13, Interior (1) 27-4-13 to 33-2-4. Exterior(2E) 33-2-4 to 36-10-8 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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 20.0 psf on overhangs non-concurrent with other live loads.
- 200.0lb AC unit load placed on the bottom chord, 22-2-4 from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding.
- All plates are 3x5 MT20 unless otherwise indicated.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint

- 13) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 2. This connection is for uplift only and does not consider lateral forces.
- 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



NOTES

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Ply Job Truss Truss Type Qty 132 Hidden Lakes North-Roof-Plan 10 GRH 170703727 25010029-01 T14 5 Piggyback Base Job Reference (optional)

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 16:02:13 ID:8QQo8oYTTPFF3pzWbURDtczwmy9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



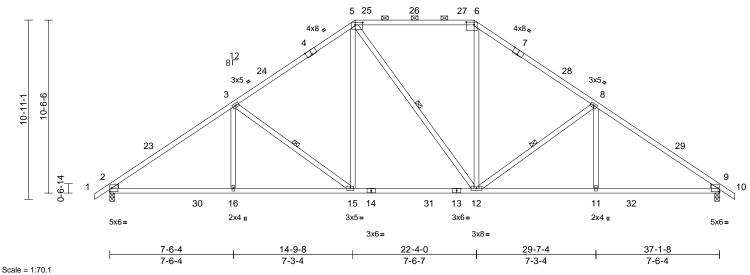


Plate Offsets (X, Y): [4:0-4-0,Edge], [5:0-5-8,0-1-12], [6:0-5-12,0-2-0], [7:0-4-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.20	12-15	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.31	12-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.12	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 213 lb	FT = 20%

LUMBER

WEBS

2x4 SP 2400F 2.0E TOP CHORD 2x4 SP No.2 BOT CHORD

WEBS 2x4 SP No.3 *Except* 12-5:2x4 SP No.2

WEDGE Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-4-9 oc purlins, except

2-0-0 oc purlins (5-5-7 max.): 5-6. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

1 Row at midpt 3-15, 5-12, 8-12

REACTIONS (size) 2=0-3-8, 9=0-3-8

Max Horiz 2=-249 (LC 12)

Max Uplift 2=-158 (LC 14), 9=-158 (LC 15)

Max Grav 2=1805 (LC 51), 9=1799 (LC 53)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-3=-2923/224, 3-5=-2315/248,

5-6=-1790/266, 6-8=-2306/248, 8-9=-2914/225, 9-10=0/31

BOT CHORD 2-16=-227/2340, 15-16=-227/2340,

12-15=-37/1696, 11-12=-60/2332,

9-11=-60/2332

WEBS 3-16=0/309, 3-15=-792/234, 5-15=-45/781,

5-12=-208/210, 6-12=-28/759, 8-12=-793/234, 8-11=0/311

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; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 2-9-9, Interior (1) 2-9-9 to 9-8-4, Exterior(2R) 9-8-4 to 27-5-4, Interior (1) 27-5-4 to 34-3-15, Exterior(2E) 34-3-15 to 38-0-8 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
- 10) 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



January 13,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job Truss Truss Type Qty Ply 132 Hidden Lakes North-Roof-Plan 10 GRH 170703728 25010029-01 T14-B 2 Piggyback Base Job Reference (optional)

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

Run: 8.73 E Nov 16 2023 Print: 8.730 E Nov 16 2023 MiTek Industries, Inc. Mon Jan 13 15:33:46 ID:AI1MRIs5Zoo7wT5WXhZrnBzwn7N-d8c4aFu7j6IRZLXG8G5FS8pCo?VpXHkKW?ctOrzvknK

Page: 1

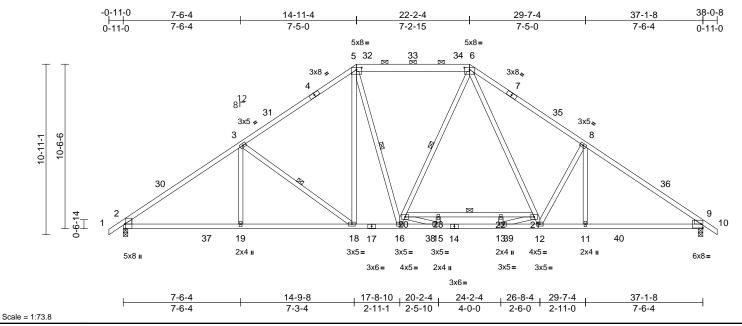


Plate Offsets (X, Y): [2:0-3-8,Edge], [5:0-4-0,0-1-9], [6:0-4-0,0-1-9]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.15	18-19	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.29	18-19	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.12	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 249 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E *Except* 5-6:2x6 SP

No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 6-12,16-6,16-5:2x4 SP

Left: 2x4 SP No.3

WEDGE Right: 2x4 SP No.3

BRACING

BOT CHORD

BOT CHORD

Structural wood sheathing directly applied or TOP CHORD

3-11-4 oc purlins, except

2-0-0 oc purlins (4-9-8 max.): 5-6. Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

2-2-0 oc bracing: 2-19,9-11. 3-18, 20-21, 6-16, 5-16 1 Row at midpt

WEBS REACTIONS (lb/size) 2=1620/0-3-8 9=1660/0-3-8

Max Horiz 2=-248 (LC 12)

Max Uplift 2=-77 (LC 14), 9=-38 (LC 15) Max Grav 2=1848 (LC 51), 9=1887 (LC 53)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown TOP CHORD

2-30=-3000/54, 3-30=-2825/86, 3-31=-2382/65, 4-31=-2218/87,

4-5=-2187/109, 5-32=-1900/121

32-33=-1900/121, 33-34=-1900/121,

6-34=-1900/121, 6-7=-2612/114,

7-35=-2643/93, 8-35=-2807/70,

8-36=-2876/26, 9-36=-3051/0 2-37=-137/2400, 19-37=-112/2400,

18-19=-112/2400, 17-18=0/1760,

16-17=0/1760. 16-38=0/1763. 15-38=0/1763.

14-15=0/2280. 13-14=0/2280. 13-39=0/1818.

12-39=0/1818, 11-12=0/2444, 11-40=0/2444,

9-40=0/2444

WEBS

3-19=0/332, 3-18=-789/234, 5-18=-67/652,

6-21=-43/965, 12-21=-154/770,

20-23=-623/0, 22-23=-623/0, 21-22=-623/0, 15-20=0/608, 13-21=0/573, 8-12=-677/255,

6-20=-85/305, 5-16=-56/302

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 2-9-9, Interior (1) 2-9-9 to 9-8-4. Exterior(2R) 9-8-4 to 27-5-4. Interior (1) 27-5-4 to 34-3-15, Exterior(2E) 34-3-15 to 38-0-8 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 200.0lb AC unit load placed on the bottom chord, 22-2-4 from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- 10) One RT15 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider
- 11) 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



January 13,2025

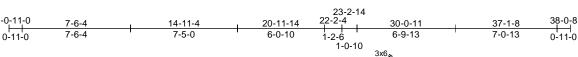
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-Roof-Plan 10 GRH
25010029-01	T15	Piggyback Base	2	1	Job Reference (optional)

Run: 8,73 E Nov 16 2023 Print: 8,730 E Nov 16 2023 MiTek Industries, Inc. Mon Jan 13 15:35:15 ID:QOlmBn4C6eyMxqFrVl9WoizwnQS-XGUjFhzymSWpk0rNsTB6Zv?OPtvxtR_Q_Lg5?Bzvklx



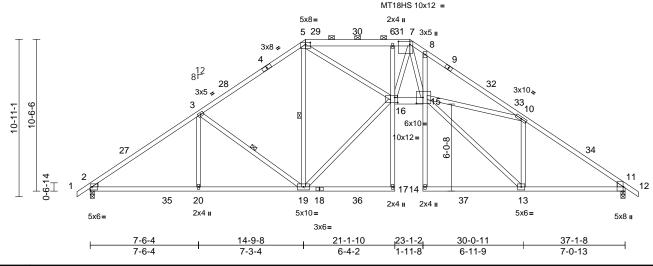


Plate Offsets (X, Y): [5:0-4-0,0-1-9], [7:0-9-8,0-2-8], [11:0-3-8,Edge], [15:0-5-8,0-5-0], [16:0-2-8,0-4-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.37	13-14	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.64	13-14	>697	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.53	11	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0			1							Weight: 260 lb	FT = 20%

LUMBER

Scale = 1:80

TOP CHORD 2x4 SP 2400F 2.0E *Except* 5-7:2x6 SP

No.2

BOT CHORD 2x4 SP No.2 *Except* 17-6,8-14:2x4 SP No.3, 16-15:2x6 SP No.2

WEBS 2x4 SP No.3 *Except*

16-5,15-7,13-15,15-10:2x4 SP No.2

WEDGE Left: 2x4 SPF Stud Right: 2x4 SPF Stud

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-6-11 oc purlins, except

2-0-0 oc purlins (3-4-6 max.): 5-7. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing. **WEBS**

3-19, 5-19 1 Row at midpt

REACTIONS (lb/size) 2=1540/0-3-8 11=1540/0-3-8

Max Horiz 2=248 (LC 13)

Max Uplift 2=-158 (LC 14), 11=-158 (LC 15) Max Grav 2=1791 (LC 51), 11=1782 (LC 53)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 2-27=-2899/193, 3-27=-2725/224

3-28=-2290/204, 4-28=-2127/226, 4-5=-2095/249, 5-29=-4323/225,

29-30=-4324/225, 6-30=-4324/225, 6-31=-4331/225, 7-31=-4329/225, 7-8=-5992/330, 8-9=-5954/222,

9-32=-6023/201, 32-33=-6059/194, 10-33=-6159/181, 10-34=-2746/220,

11-34=-2909/191

BOT CHORD 2-35=-226/2318, 20-35=-226/2318, 19-20=-226/2318, 6-16=-534/187,

15-16=0/4139, 8-15=-372/231,

11-13=-60/2324

WEBS 3-20=0/319, 3-19=-780/231, 5-19=-949/63,

16-19=-57/2376, 5-16=0/3037, 7-16=-176/606, 7-15=-183/2981, 13-15=-86/3083, 10-15=0/2654,

10-13=-1814/134

NOTES

- 1) 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; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 2-9-9, Interior (1) 2-9-9 to 9-8-4, Exterior(2R) 9-8-4 to 27-5-4, Interior (1) 27-5-4 to 34-3-15, Exterior(2E) 34-3-15 to 38-0-8 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this 4) desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-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 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

10) One RT15 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.

Page: 1

11) 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



January 13,2025

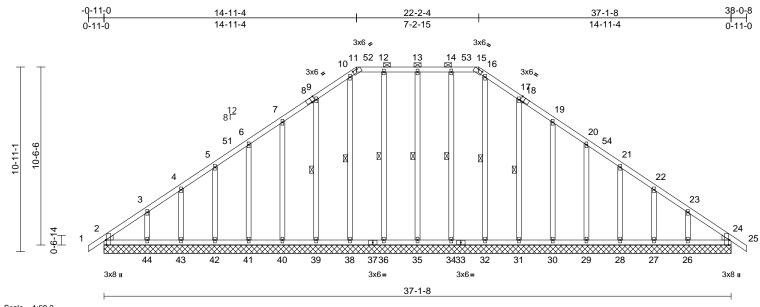
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Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-Roof-Plan 10 GRH
25010029-01	T16	Piggyback Base Supported Gable	1	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 16:02:14 ID:1TBkY_oeWsuG414YKOK8E1zwmxq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:68.2

Plate Offsets (X, Y): [2:0-3-8,Edge], [8:0-2-9,Edge], [11:0-3-0,0-0-2], [15:0-3-0,0-0-2], [18:0-2-9,Edge], [24:0-3-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	24	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 288 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 **OTHERS** 2x4 SP No.3 WEDGE Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING

REACTIONS (size)

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 11-15. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt 13-35, 12-36, 10-38,

9-39, 14-34, 16-32, 17-31 2=37-1-8, 24=37-1-8, 26=37-1-8,

27=37-1-8, 28=37-1-8, 29=37-1-8, 30=37-1-8, 31=37-1-8, 32=37-1-8, 34=37-1-8, 35=37-1-8, 36=37-1-8,

38=37-1-8, 39=37-1-8, 40=37-1-8, 41=37-1-8, 42=37-1-8, 43=37-1-8,

44=37-1-8 Max Horiz 2=-249 (LC 12)

Max Uplift 2=-65 (LC 10), 24=-5 (LC 11),

26=-99 (LC 15), 27=-45 (LC 15), 28=-61 (LC 15), 29=-57 (LC 15), 30=-57 (LC 15), 31=-72 (LC 15), 34=-23 (LC 11), 35=-34 (LC 10), 36=-22 (LC 11), 38=-5 (LC 11), 39=-70 (LC 14), 40=-57 (LC 14), 41=-57 (LC 14), 42=-62 (LC 14),

43=-42 (LC 14), 44=-108 (LC 14)

Max Grav 2=206 (LC 26), 24=170 (LC 22), 26=220 (LC 53), 27=153 (LC 26), 28=175 (LC 53), 29=215 (LC 41), 30=226 (LC 41), 31=234 (LC 41), 32=172 (LC 45), 34=223 (LC 40), 35=229 (LC 40), 36=223 (LC 40), 38=189 (LC 57), 39=234 (LC 41), 40=226 (LC 41), 41=215 (LC 41),

42=176 (LC 51), 43=150 (LC 25), 44=230 (LC 51)

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/31, 2-3=-233/197, 3-4=-171/161,

4-5=-151/145, 5-6=-135/137, 6-7=-133/157, 7-9=-129/190, 9-10=-160/232, 10-11=-137/197, 11-12=-130/215,

12-13=-130/215, 13-14=-130/215, 14-15=-130/215, 15-16=-137/197. 16-17=-160/232, 17-19=-129/170,

19-20=-105/115, 20-21=-71/60, 21-22=-76/51, 22-23=-104/67, 23-24=-167/100, 24-25=0/31

2-44=-118/185, 43-44=-85/185 42-43=-85/185, 41-42=-85/185, 40-41=-85/185, 39-40=-85/185, 38-39=-85/185, 36-38=-85/185,

35-36=-85/185, 34-35=-85/185, 32-34=-85/185, 31-32=-85/185, 30-31=-85/185, 29-30=-85/185,

28-29=-85/185, 27-28=-85/185, 26-27=-85/185, 24-26=-85/185

WEBS 13-35=-189/62, 12-36=-183/46,

10-38=-149/29, 9-39=-204/94, 7-40=-193/81, 6-41=-185/82, 5-42=-147/84, 4-43=-135/75, 3-44=-170/105, 14-34=-183/47,

16-32=-132/0. 17-31=-204/96. 19-30=-193/81, 20-29=-185/82,

21-28=-147/83, 22-27=-135/76, 23-26=-170/101

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 2-6-12, Exterior(2N) 2-6-12 to 11-2-12, Corner(3R) 11-2-12 to 25-10-12 Exterior(2N) 25-10-12 to 34-3-15, Corner(3E) 34-3-15 to 38-0-8 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



January 13,2025

Continued on page 2

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

BOT CHORD

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Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-Roof-Plan 10 GRH
25010029-01	T16	Piggyback Base Supported Gable	1	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries. Inc. Sun Jan 12 16:02:14 ID:1TBkY_oeWsuG414YKOK8E1zwmxq-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2

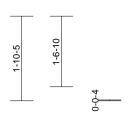
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable. or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 2, 5 lb uplift at joint 24, 34 lb uplift at joint 35, 22 lb uplift at joint 36, 5 lb uplift at joint 38, 70 lb uplift at joint 39, 57 Ib uplift at joint 40, 57 lb uplift at joint 41, 62 lb uplift at joint 42, 42 lb uplift at joint 43, 108 lb uplift at joint 44, 23 lb uplift at joint 34, 72 lb uplift at joint 31, 57 lb uplift at joint 30, 57 lb uplift at joint 29, 61 lb uplift at joint 28, 45 Ib uplift at joint 27, 99 lb uplift at joint 26, 65 lb uplift at joint 2 and 5 lb uplift at joint 24.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

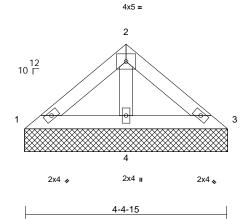
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-Roof-Plan 10 GRH
25010029-01	V04	Valley	1	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 16:02:14 ID:o7uIAWxTBLFIrFLHnz6txFzwn26-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:25.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 16 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-4-15 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=4-5-9, 3=4-5-9, 4=4-5-9

Max Horiz 1=-39 (LC 10)

Max Uplift 3=-7 (LC 15), 4=-28 (LC 14) Max Grav 1=83 (LC 20), 3=83 (LC 21), 4=264

(LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-76/89, 2-3=-76/89 **BOT CHORD**

1-4=-73/77, 3-4=-73/77

WEBS 2-4=-181/80

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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
- 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- Unbalanced snow loads have been considered for this 5) design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 7 lb uplift at joint 3 and 28 lb uplift at joint 4.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard



Page: 1

January 13,2025

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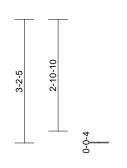
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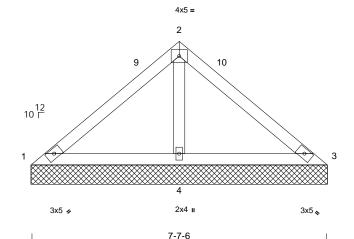


Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-Roof-Plan 10 GRH
25010029-01	V07	Valley	1	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 16:02:14 ID:o7uIAWxTBLFIrFLHnz6txFzwn26-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:29.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 28 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

7-7-6 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=7-7-15, 3=7-7-15, 4=7-7-15

Max Horiz 1=-71 (LC 10)

Max Uplift 1=-29 (LC 21), 3=-29 (LC 20),

4=-83 (LC 14)

Max Grav 1=102 (LC 20), 3=102 (LC 21),

4=588 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-104/263, 2-3=-104/263

BOT CHORD 1-4=-205/165, 3-4=-205/165

WEBS 2-4=-472/222

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 4-7-15, Exterior(2É) 4-7-15 to 7-7-15 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
- 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

 * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 29 lb uplift at joint 1, 29 lb uplift at joint 3 and 83 lb uplift at joint 4.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard



Page: 1

January 13,2025

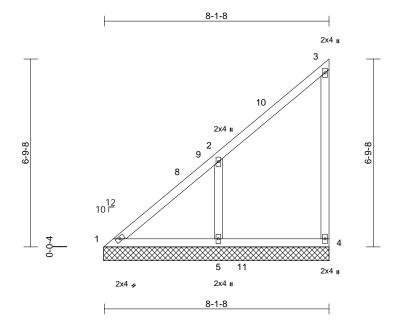
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-Roof-Plan 10 GRH
25010029-01	V08	Valley	1	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 16:02:14 ID:Dvvc1cqq1BXPh9x7QGXNimzwn7P-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:41.6

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 41 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WFBS OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing.

BOT CHORD REACTIONS (size)

1=8-1-13, 4=8-1-13, 5=8-1-13

Max Horiz 1=223 (LC 11)

Max Uplift 1=-18 (LC 10), 4=-56 (LC 11),

5=-157 (LC 14)

Max Grav 1=185 (LC 25), 4=196 (LC 5),

5=524 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-246/266, 2-3=-163/151, 3-4=-160/73

BOT CHORD 1-5=-78/212, 4-5=-78/113 **WEBS**

2-5=-402/309

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 3-9-2, Exterior(2R) 3-9-2 to 8-0-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

 * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 56 lb uplift at joint 4, 18 lb uplift at joint 1 and 157 lb uplift at joint 5.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-Roof-Plan 10 GRH
25010029-01	V10	Valley	1	1	Job Reference (optional)

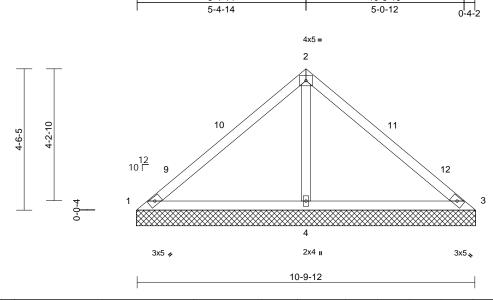
5-4-14

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 16:02:14 ID:Dvvc1cqq1BXPh9x7QGXNimzwn7P-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

10-5-10

Page: 1



Scale = 1:36.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.51	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.27	Horiz(TL)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 41 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

10-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=10-10-6, 3=10-10-6, 4=10-10-6 Max Horiz 1=-102 (LC 12)

Max Unlift 1=-81 (LC 21), 3=-81 (LC 20),

4=-139 (LC 14)

1=67 (LC 20), 3=67 (LC 21), 4=919 Max Grav

(LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-149/465, 2-3=-149/465

BOT CHORD 1-4=-316/202, 3-4=-316/202

WFBS 2-4=-788/320

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 7-10-6, Exterior(2É) 7-10-6 to 10-10-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.

 * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 81 lb uplift at joint 1, 81 lb uplift at joint 3 and 139 lb uplift at joint 4.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard



January 13,2025

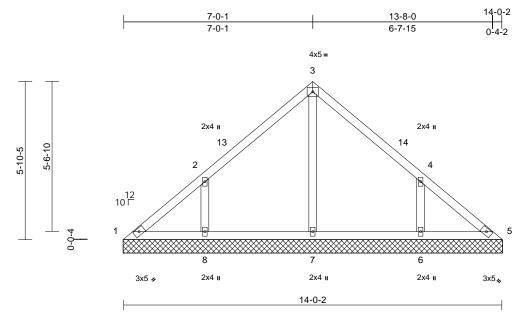
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Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-Roof-Plan 10 GRH
25010029-01	V14	Valley	1	1	I70703735 Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 16:02:14 ID:Dvvc1cqq1BXPh9x7QGXNimzwn7P-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:42.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 60 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=14-0-12, 5=14-0-12, 6=14-0-12, 7=14-0-12, 8=14-0-12

Max Horiz 1=-133 (LC 10)

Max Uplift 1=-25 (LC 10), 6=-150 (LC 15),

8=-153 (LC 14)

Max Grav 1=116 (LC 25), 5=92 (LC 24), 6=449 (LC 21), 7=296 (LC 20),

8=449 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-146/126, 2-3=-183/117, 3-4=-183/114,

4-5=-115/92

BOT CHORD 1-8=-54/117, 7-8=-54/94, 6-7=-54/94,

5-6=-54/94

WEBS 3-7=-215/0, 2-8=-374/194, 4-6=-374/192

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-6, Interior (1) 3-0-6 to 4-0-6, Exterior(2R) 4-0-6 to 10-0-6, Interior (1) 10-0-6 to 11-0-6, Exterior(2E) 11-0-6 to 14-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this 5) design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 25 lb uplift at joint 1, 153 lb uplift at joint 8 and 150 lb uplift at joint 6.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.

LOAD CASE(S) Standard



January 13,2025

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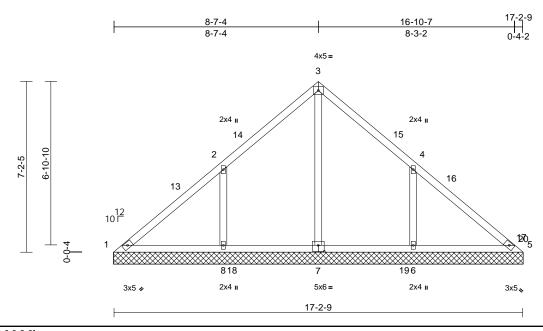
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Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-Roof-Plan 10 GRH
25010029-01	V17	Valley	1	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 16:02:15 ID:TamHZwblSeR3hNAsvmFlWzzwnCt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:48.5

Plate Offsets (X, Y): [7:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.30	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 77 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=17-3-2, 5=17-3-2, 6=17-3-2,

7=17-3-2, 8=17-3-2

1=164 (LC 11) Max Horiz

Max Uplift 1=-21 (LC 10), 6=-186 (LC 15),

8=-190 (LC 14)

Max Grav 1=118 (LC 25), 5=82 (LC 21),

6=533 (LC 25), 7=517 (LC 24),

8=537 (LC 24)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-149/276, 2-3=-93/205, 3-4=-94/185,

4-5=-111/243

1-8=-149/135, 6-8=-149/135, 5-6=-149/135 BOT CHORD WEBS 3-7=-334/0, 2-8=-400/224, 4-6=-400/222

NOTES

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 5-7-9, Exterior(2R) 5-7-9 to 11-7-9, Interior (1) 11-7-9 to 13-10-5, Exterior(2E) 13-10-5 to 16-10-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 21 lb uplift at joint 1, 190 lb uplift at joint 8 and 186 lb uplift at joint 6.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.

LOAD CASE(S) Standard



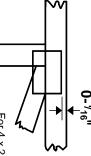
January 13,2025

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

₹

This symbol indicates the required direction of slots in connector plates.

*Plate location details available in MiTek software or upon request.

PLATE SIZE

4 × 4

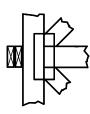
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



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

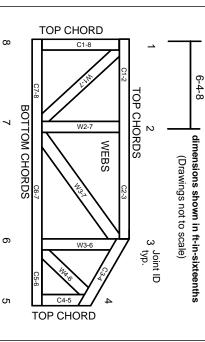
Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-22:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.

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Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

'n

- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

œ

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



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

Phone #:919-775-1450



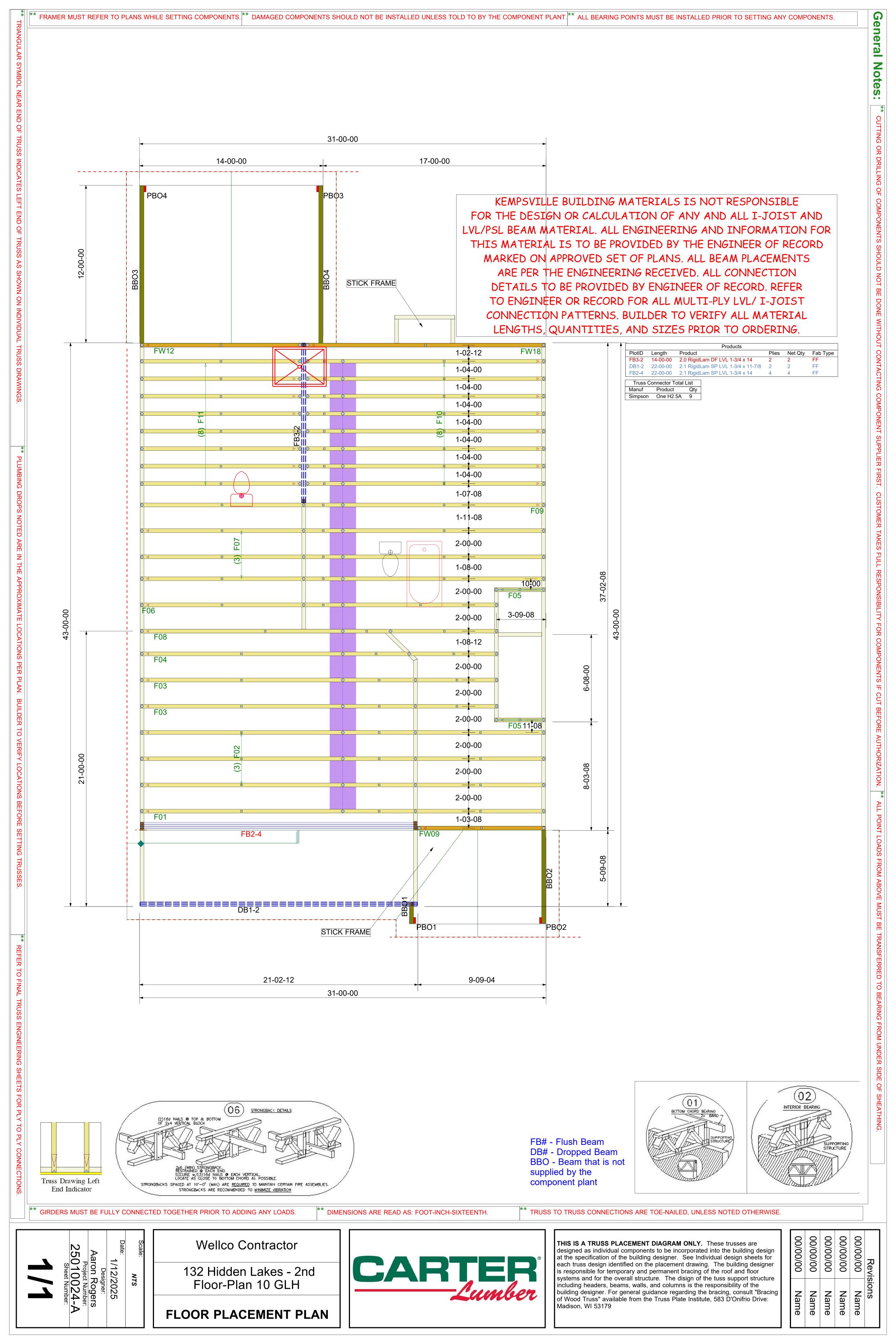
Model: GLH 132 Hidden Lakes - Plan 10



THE PLACEMENT PLAN NOTES:

- 1. The Placement Plan is a diagram for truss installation. It is not an engineered drawing and has not been reviewed by an engineer. The Owner/Building Designer is responsible for obtaining an engineer's review if one is required by the local jurisdiction.
- 2. The responsibilities of the Owner, Contractor, Building Designer, Component Designer and Component Manufacturer shall be as set forth in ANSI/TPI 1. Capitalized terms shall be as defined in ANSI/TP 1 unless otherwise indicated.
- 3. Each Component is designed as an individual component utilizing information provided by others. The Owner/Building Designer is responsible for reviewing all Component Submittal Packages and individual Component Design Drawings for compliance with the Construction Documents and compatibility with the overall Building design.
- 4. Contractor will not proceed with component installation until the Owner/Building Designer has reviewed the Component Submittal Package. Questions on the suitability of any Component will be resolved by the Building Designer.
- 5. The Building Designer and Contractor are responsible for all temporary and permanent bracing.
- 6. The Placement Plan assumes the building is dimensionally correct, structurally sound, and in a suitable condition to support each Component during installation and thereafter, including but not limited to installation of all bearing points. Proper design and construction of all structural components, including foundations, headers, beams, walls and columns are the responsibility of the Owner, Building Designer and Contractor.
- 7. Do not cut, drill, or modify any Component without first consulting the Component Manufacturer or Building Designer. Damaged Components shall not be installed unless directed by the Building Designer or approved by the Component Manufacturer.
- 8. Components must be handled and installed following all applicable safety standards and best practices, including but not limited to BCSI, OSHA, TPI and local codes. Failure to properly handle, brace or otherwise install Component can result in serious injury or death.
- 9. All uplift connectors shown within these documents are recommendations only. Per ANSI/TPI 1, all uplift connectors are the responsibility of the building designer and or contractor.

Approved By:	Date:
--------------	-------





Client: Project: Address: Date: 1/10/2025

Input by:

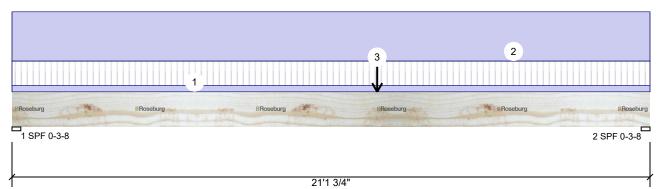
Job Name: 25010024 - A

Project #:

2.1E RigidLam LVL SP FB2-4

1.750" X 14.000" 4-Ply - PASSED

Level: Level





Const

Page 1 of 2

Wind

Member Information

Type: Plies: 4 Moisture Condition: Dry Deflection LL: 480 Deflection TL: 240 Importance: Normal - II Temperature: Temp <= 100°F

Application: Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: Yes Deck: Not Checked

Reactions UNPATTERNED Ib (Uplift) Brg Direction Snow Live Dead

423 4236 0 Vertical O 0 2 Vertical 423 5272 0 0 0

Bearings

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1-SPF 3.500" 4236 / 423 D+L Vert 45% 4659 L 2 - SPF 3.500" Vert 55% 5272 / 423 5695 L D+I

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	41614 ft-lb	12'1 1/4"	53613 ft-lb	78%	D	Uniform
Unbraced	43707 ft-lb	12'1 1/4"	43947 ft-lb	99%	D+L	L
Shear	5111 lb	19'8 1/4"	17052 lb	30%	D	Uniform
LL Defl inch	0.051 (L/4826)	10'6 15/16"	0.517 (L/480)	10%	L	L
TL Defl inch	0.884 (L/281)	11'1 1/8"	1.034 (L/240)	85%	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 4'3 7/8" o.c.
- 6 Bottom must be laterally braced at end bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform		1-0-0	Near Face	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	standard
2	Uniform			Тор	80 PLF	0 PLF	0 PLF	0 PLF	0 PLF	wall
3	Point	12-1-4		Тор	7000 lb	0 lb	0 lb	0 lb	0 lb	girder above
	Bearing Length	0-3-8								
	Self Weight				29 PLF					

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code

approvals

Damaged Beams must not be used Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
lateral displacement and rotation 6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info Roseburg Forest Products 3661 Gateway Street Springfield, OR 97477 (541) 679-3311 www.roseburg.com APA: PR-L289, ICC-ES: ESR-1210

This design is valid until 2/14/2027

isDesign

Client: Project: Address: 1/10/2025

Input by:

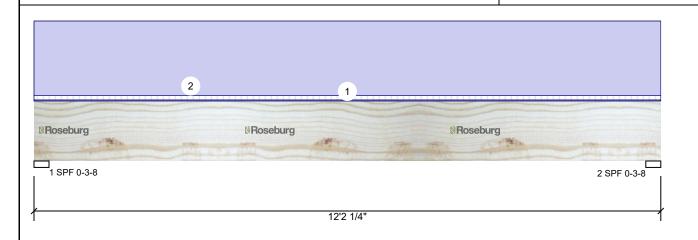
Job Name: 25010024 - A

Project #:

FB3-2 2.1E RigidLam LVL SP

1.750" X 14.000" 2-Ply - PASSED

Level: Level





Page 2 of 2

Member Information

Туре:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	240
Importance:	Normal - II
Temperature:	Temp <= 100°F

Application: Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: No Deck: Not Checked

Reactions UNPATTERNED Ib (Uplift) Brg Direction Live Snow Wind Const Dead 244 4414 0 Vertical O 0 1 2 Vertical 244 4414 0 0 0

Bearings

Bearing	Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	89%	4414 / 244	4657	L	D+L
2 - SPF	3.500"	Vert	89%	4414 / 244	4657	L	D+L

Analysis Results

		Allowed	Capacity	Comb.	Case
12455 ft-lb	6'1 1/8"	25775 ft-lb	48%	D	Uniform
13143 ft-lb	6'1 1/8"	13160 ft-lb	100%	D+L	L
3357 lb	10'8 3/4"	8526 lb	39%	D	Uniform
).012 L/12056)	6'1 1/8"	0.293 (L/480)	4%	L	L
).223 (L/631)	6'1 1/8"	0.586 (L/240)	38%	D+L	L
3	3143 ft-lb 357 lb .012 _/12056)	3143 ft-lb 6'1 1/8" 357 lb 10'8 3/4" .012 6'1 1/8" _/12056)	3143 ft-lb 6'1 1/8" 13160 ft-lb 357 lb 10'8 3/4" 8526 lb .012 6'1 1/8" 0.293 (L/480) _/12056)	3143 ft-lb 6'1 1/8" 13160 ft-lb 100% 357 lb 10'8 3/4" 8526 lb 39% .012 6'1 1/8" 0.293 (L/480) 4% _/12056)	3143 ft-lb 6'1 1/8" 13160 ft-lb 100% D+L 357 lb 10'8 3/4" 8526 lb 39% D .012 6'1 1/8" 0.293 (L/480) 4% L ./12056)

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 7'9 3/4" o.c.
- 6 Bottom must be laterally braced at end bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform		1-0-0	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
2	Uniform			Тор	700 PLF	0 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				14 PLF					

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 2 Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- For flat roofs provide proper drainage to prevent ponding

Manufacturer Info Roseburg Forest Products 3661 Gateway Street Springfield, OR 97477 (541) 679-3311 www.roseburg.com APA: PR-L289, ICC-ES: ESR-1210

This design is valid until 2/14/2027



Trenco 818 Soundside Rd Edenton, NC 27932

Re: 25010029-A

132 Hidden Lakes North-2nd Floor-Plan 10 GRH

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

Pages or sheets covered by this seal: I70703737 thru I70703750

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

North Carolina COA: C-0844



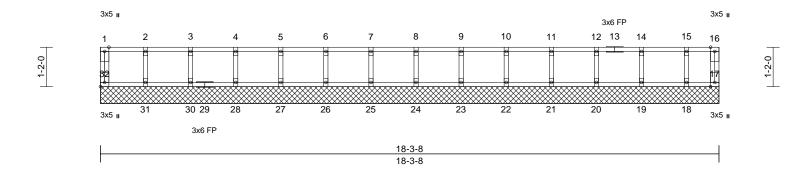
January 13,2025

Johnson, Andrew

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

Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-2nd Floor-Plan 10 GRH
25010029-A	FW18	Floor Supported Gable	1	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 16:05:45 ID:CWoH92gzU9aM?IXbRwCL7azwhrK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:34.1

Plate Offsets (X	(, Y):	[32:Edge,0-1-8]	
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	17	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MR							Weight: 78 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (size)

17=18-3-8, 18=18-3-8, 19=18-3-8, 20=18-3-8, 21=18-3-8, 22=18-3-8, 23=18-3-8, 24=18-3-8, 25=18-3-8, 26=18-3-8, 27=18-3-8, 28=18-3-8, 30=18-3-8, 31=18-3-8, 32=18-3-8

Max Grav

17=40 (LC 1), 18=120 (LC 1), 19=152 (LC 1), 20=145 (LC 1), 21=147 (LC 1), 22=147 (LC 1), 23=147 (LC 1), 24=147 (LC 1), 25=147 (LC 1), 26=147 (LC 1), 27=147 (LC 1), 28=147 (LC 1), 30=147 (LC 1), 31=147 (LC 1), 32=59 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-32=-55/0, 16-17=-34/0, 1-2=-7/0, 2-3=-7/0, 3-4=-7/0, 4-5=-7/0, 5-6=-7/0, 6-7=-7/0, 7-8=-7/0. 8-9=-7/0. 9-10=-7/0. 10-11=-7/0. 11-12=-7/0, 12-14=-7/0, 14-15=-7/0,

15-16=-7/0

BOT CHORD 31-32=0/7, 30-31=0/7, 28-30=0/7, 27-28=0/7,

26-27=0/7, 25-26=0/7, 24-25=0/7, 23-24=0/7, 22-23=0/7, 21-22=0/7, 20-21=0/7, 19-20=0/7,

18-19=0/7, 17-18=0/7

WFBS

2-31=-132/0, 3-30=-134/0, 4-28=-133/0, 5-27=-133/0, 6-26=-133/0, 7-25=-133/0, 8-24=-133/0, 9-23=-133/0, 10-22=-133/0, 11-21=-134/0, 12-20=-132/0, 14-19=-138/0, 15-18=-112/0

NOTES

1)

- All plates are 1.5x3 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing. 2)
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- Recommend 2x6 strongbacks, on edge, spaced at 5) 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

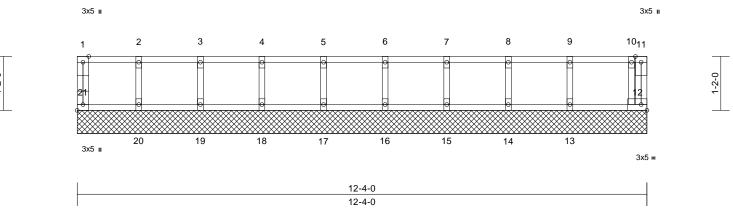
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-2nd Floor-Plan 10 GRH
25010029-A	FW12	Floor Supported Gable	1	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries. Inc. Sun Jan 12 16:05:45 ID:JIZmJgdSQw3xWhEqC48OzkzwhrO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:24.9

Plate Offsets	(X,	Y):	[21:Edge,0)-1-8]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MR							Weight: 54 lb	FT = 20%F, 11%E

(0.131" X 3") nails. Strongbacks to be attached to walls

Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d

at their outer ends or restrained by other means.

LOAD CASE(S) Standard

LUMBER

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

BRACING

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

bracing.

REACTIONS (size)

12=12-4-0, 13=12-4-0, 14=12-4-0, 15=12-4-0, 16=12-4-0, 17=12-4-0, 18=12-4-0, 19=12-4-0, 20=12-4-0,

21=12-4-0

Max Grav

12=86 (LC 1), 13=159 (LC 1), 14=143 (LC 1), 15=148 (LC 1), 16=146 (LC 1), 17=147 (LC 1), 18=146 (LC 1), 19=149 (LC 1),

20=136 (LC 1), 21=68 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-21=-59/0, 11-12=0/13, 1-2=-15/0,

2-3=-15/0, 3-4=-15/0, 4-5=-15/0, 5-6=-15/0, 6-7=-15/0, 7-8=-15/0, 8-9=-15/0, 9-10=-15/0,

10-11=-3/0

BOT CHORD 20-21=0/15, 19-20=0/15, 18-19=0/15,

17-18=0/15, 16-17=0/15, 15-16=0/15, 14-15=0/15, 13-14=0/15, 12-13=0/15

WEBS 2-20=-127/0, 3-19=-135/0, 4-18=-133/0,

5-17=-133/0, 6-16=-133/0, 7-15=-134/0, 8-14=-131/0, 9-13=-142/0, 10-12=-94/0

NOTES

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.



January 13,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

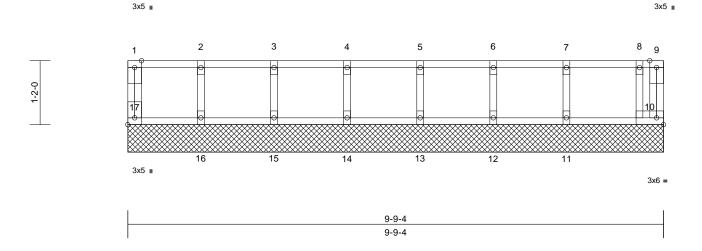
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-2nd Floor-Plan 10 GRH
25010029-A	FW09	Floor Supported Gable	1	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 16:05:44 ID:vAtehfba7?hMfDVFXyahL5zwhrR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:21

Plate Offsets	(X,	Y):	[17:Edge,0-1-	8]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MR							Weight: 44 lb	FT = 20%F, 11%E

LOAD CASE(S) Standard

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

BRACING

LUMBER

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (size)

10=9-9-4, 11=9-9-4, 12=9-9-4, 13=9-9-4, 14=9-9-4, 15=9-9-4,

16=9-9-4, 17=9-9-4

10=95 (LC 1), 11=161 (LC 1), Max Grav

12=143 (LC 1), 13=148 (LC 1), 14=146 (LC 1), 15=150 (LC 1), 16=134 (LC 1), 17=70 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-17=-60/0, 9-10=0/4, 1-2=-17/0, 2-3=-17/0,

3-4=-17/0, 4-5=-17/0, 5-6=-17/0, 6-7=-17/0,

7-8=-17/0, 8-9=0/0

BOT CHORD 16-17=0/17, 15-16=0/17, 14-15=0/17,

13-14=0/17, 12-13=0/17, 11-12=0/17,

10-11=0/17

WEBS 2-16=-126/0, 3-15=-135/0, 4-14=-133/0,

5-13=-134/0, 6-12=-131/0, 7-11=-143/0,

8-10=-96/0

NOTES

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



January 13,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

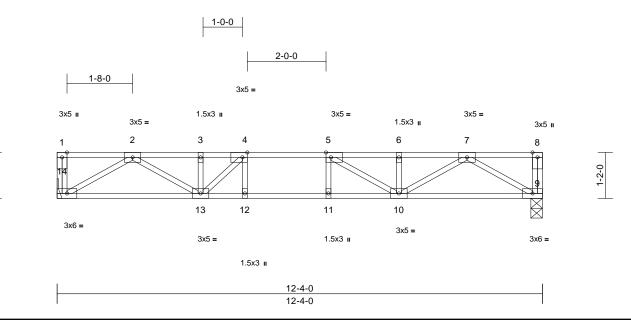
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-2nd Floor-Plan 10 GRH
25010029-A	F11	Floor	8	1	Job Reference (optional)

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries. Inc. Sun. Jan. 12.16:05:44



Scale = 1:29.3

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	тс	0.34	Vert(LL)	-0.07	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.10	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 64 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. **BOT CHORD**

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 9=0-3-8, 14= Mechanical Max Grav 9=443 (LC 1), 14=443 (LC 1)

(lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-14=-48/0, 8-9=-50/0, 1-2=0/0, 2-3=-1065/0,

3-4=-1065/0, 4-5=-1258/0, 5-6=-1081/0,

6-7=-1081/0, 7-8=0/0

BOT CHORD 13-14=0/662, 12-13=0/1258, 11-12=0/1258,

10-11=0/1258, 9-10=0/661

WEBS 7-9=-764/0, 2-14=-765/0, 7-10=0/491,

2-13=0/471, 6-10=-140/7, 3-13=-100/54, 5-10=-330/0, 4-13=-380/0, 4-12=-36/83,

5-11=-51/41

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x5 MT20 unless otherwise indicated. Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



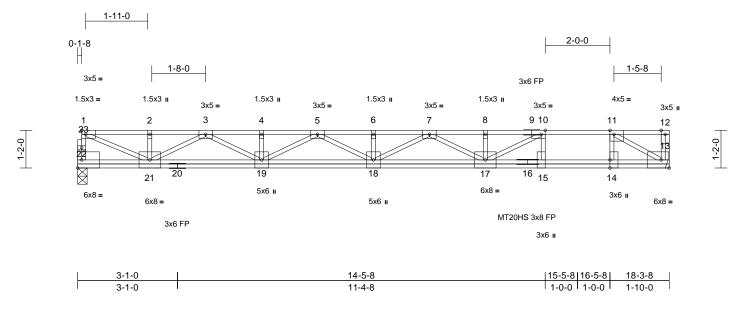
Page: 1



Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-2nd Floor-Plan 10 GRH
25010029-A	F10	Floor	8	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 16:05:44

Page: 1



Scale = 1:35.6

Plate Offsets (X, Y): [10:0-1-8,Edge], [11:0-1-8,Edge], [14:0-3-0,Edge]

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.66	Vert(LL)	-0.28	17-18	>774	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.38	17-18	>562	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.03	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 118 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

2x4 SP No.2(flat) *Except* 20-13,16-13:2x4 BOT CHORD SP No.1(flat)

WFBS 2x4 SP No.3(flat) OTHERS 2x4 SP No.3(flat)

BRACING

FORCES

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing.

REACTIONS (size) 13= Mechanical, 22=0-3-8 Max Grav 13=662 (LC 1), 22=657 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-22=-644/0, 12-13=-24/45, 1-2=-1260/0, 2-3=-1260/0, 3-4=-2588/0, 4-5=-2588/0,

5-6=-3009/0, 6-7=-3009/0, 7-8=-2660/0, 8-10=-2660/0, 10-11=-1523/0, 11-12=0/0

21-22=0/41, 19-21=0/2026, 18-19=0/2911,

17-18=0/2933, 15-17=0/1523, 14-15=0/1523,

13-14=0/1523

WEBS 10-15=-644/0, 11-14=0/659, 10-17=0/1313,

8-17=-170/0. 7-17=-321/0. 7-18=-14/95. 6-18=-105/0, 5-18=0/113, 5-19=-371/0, 4-19=-105/0. 3-19=0/645. 3-21=-881/0. 2-21=-139/0, 1-21=0/1352, 11-13=-1772/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



January 13,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

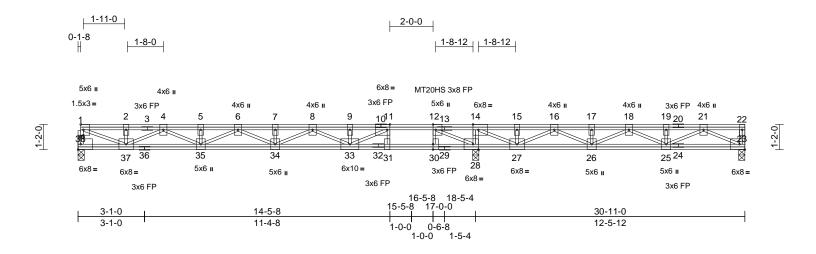
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-2nd Floor-Plan 10 GRH
25010029-A	F09	Floor	1	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 16:05:44 ID:twYWtv7cAK_JAtv1a6ws44zwhud-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:53.4

Plate Offsets (X, Y): [1:0-1-8,0-0-8], [11:0-1-8,Edge], [12:0-3-0,Edge], [14:0-3-0,Edge], [28:0-3-0,Edge], [30:0-3-0,Edge]

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
-		-						(/			_	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.80	Vert(LL)		33-34	>999		MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.27	33-34	>827	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.02	28	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 242 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 23=0-3-8, 28=0-3-8, 38=0-3-8

Max Grav 23=384 (LC 4), 28=1367 (LC 1),

38=593 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-38=-581/0, 22-23=-52/0, 1-2=-1184/0, 2-4=-1184/0, 4-5=-2350/0, 5-6=-2350/0,

6-7=-2557/0, 7-8=-2557/0, 8-9=-1948/0, 9-11=-1948/0, 11-12=-479/289,

12-14=0/1936, 14-15=-27/1069, 15-16=-27/1069, 16-17=-979/457, 17-18=-979/457, 18-19=-981/93, 19-21=-981/93, 21-22=0/0

BOT CHORD 37-38=0/0, 35-37=0/1874, 34-35=0/2562,

33-34=0/2315, 31-33=-289/479, 30-31=-289/479, 28-30=-289/479, 27-28=-1936/0, 26-27=-742/615, 25-26=-252/1093, 23-25=-22/625

WEBS 11-31=-450/0, 12-30=0/440, 14-28=-532/0,

12-28=-2311/0, 21-23=-702/24,

21-25=-81/403, 19-25=-107/0,

18-25=-126/179, 18-26=-289/0, 17-26=-111/0, 16-26=0/572, 16-27=-818/0, 15-27=-138/0, 14-27=0/1249, 11-33=0/1738, 9-33=-357/0, 8-33=-456/0, 8-34=0/320, 7-34=-123/0, 6-34=-53/0, 6-35=-240/0, 5-35=-112/0,

4-35=0/539, 4-37=-781/0, 2-37=-126/0, 1-37=0/1286

NOTES

- Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x6 MT20 unless otherwise indicated.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



January 13,2025

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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

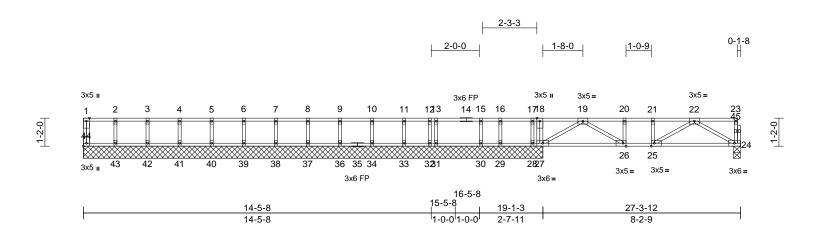
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-2nd Floor-Plan 10 GRH
25010029-A	F08	Floor	1	1	Job Reference (optional)

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries. Inc. Sun. Jan. 12.16:05:44 ID:tNVfkGjHBti75fJVbzJuivzwhv9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:47.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.17	Vert(LL)	-0.02	25-26	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.25	Vert(CT)	-0.04	24-25	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	24	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 123 lb	FT = 20%F, 11%E

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

REACTIONS (size) 24=0-3-8, 27=19-1-3, 28=19-1-3, 29=19-1-3, 30=19-1-3, 31=19-1-3, 32=19-1-3, 33=19-1-3, 34=19-1-3, 36=19-1-3, 37=19-1-3, 38=19-1-3, 39=19-1-3, 40=19-1-3, 41=19-1-3, 42=19-1-3, 43=19-1-3, 44=19-1-3

Max Uplift 28=-141 (LC 4), 32=-16 (LC 1) Max Grav 24=439 (LC 4), 27=627 (LC 4), 28=70 (LC 3), 29=100 (LC 1), 30=161 (LC 3), 31=202 (LC 1), 32=-6 (LC 4), 33=137 (LC 1), 34=149 (LC 3), 36=146 (LC 1), 37=147 (LC 3), 38=147 (LC 1),

39=147 (LC 1), 40=147 (LC 1), 41=147 (LC 1), 42=145 (LC 1), 43=156 (LC 1), 44=52 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-44=-47/0. 23-24=-68/0. 1-2=0/0. 2-3=0/0. 3-4=0/0, 4-5=0/0, 5-6=0/0, 6-7=0/0, 7-8=0/0, 8-9=0/0, 9-10=0/0, 10-11=0/0, 11-12=0/0, 12-13=0/0, 13-15=0/0, 15-16=0/0, 16-17=0/0, 17-18=0/0, 18-19=0/0, 19-20=-865/0, 20-21=-865/0, 21-22=-865/0, 22-23=-4/0

BOT CHORD 43-44=0/0, 42-43=0/0, 41-42=0/0, 40-41=0/0, 39-40=0/0, 38-39=0/0, 37-38=0/0, 36-37=0/0,

34-36=0/0, 33-34=0/0, 32-33=0/0, 31-32=0/0, 30-31=0/0, 29-30=0/0, 28-29=0/0, 27-28=0/0, 26-27=0/585, 25-26=0/865, 24-25=0/615 12-32=0/12, 15-30=-147/0, 18-27=-205/0, 19-27=-677/0, 22-24=-707/0, 19-26=0/327, 22-25=0/292, 20-26=-152/0, 21-25=-123/0, 2-43=-142/0, 3-42=-131/0, 4-41=-134/0, 5-40=-133/0, 6-39=-133/0, 7-38=-133/0, 8-37=-134/0, 9-36=-133/0, 10-34=-136/0, 11-33=-124/0, 13-31=-181/0, 16-29=-89/0, 17-28=-103/89

NOTES

WEBS

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 32 and 28. This connection is for uplift only and does not consider lateral forces.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



January 13,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

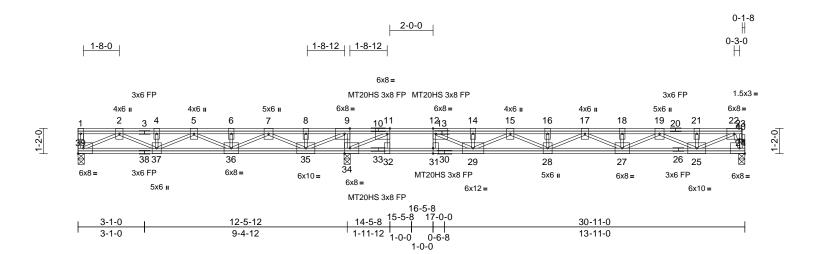
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-2nd Floor-Plan 10 GRH
25010029-A	F07	Floor	3	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 16:05:44 ID:ZPPSs?OvrOzbXuTYiasKnwzwhws-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:53.4

Plate Offsets (X, Y): [9:0-3-0,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge], [31:0-3-0,Edge], [34:0-3-0,Edge], [40:0-1-8,0-0-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.28	28-29	>789	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.38	28-29	>582	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.03	24	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 242 lb	FT = 20%F, 11%E

LUMBER 2x4 SP No.2(flat) *Except* 10-20,3-13:2x4 SP TOP CHORD

No.1(flat)

BOT CHORD 2x4 SP No.2(flat)

2x4 SP No.3(flat) *Except* 29-12:2x4 SP **WEBS**

No.2(flat) 2x4 SP No.3(flat) **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS 24=0-3-8, 34=0-3-8, 39=0-3-8 (size)

24=888 (LC 4), 34=2045 (LC 1), Max Grav

39=576 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-39=-78/0, 23-24=0/83, 1-2=0/0,

2-4=-1473/133, 4-5=-1473/133,

5-6=-1471/670, 6-7=-1471/670, 7-8=-42/1583, 8-9=-42/1583, 9-11=0/2874,

11-12=-727/435, 12-14=-2926/0,

14-15=-2926/0, 15-16=-3821/0,

16-17=-3821/0, 17-18=-3491/0,

18-19=-3491/0, 19-21=-1722/0,

21-22=-1722/0, 22-23=0/0

37-39=-29/938, 36-37=-366/1639, 35-36=-1094/923, 34-35=-2874/0,

32-34=-435/727, 31-32=-435/727,

29-31=-435/727, 28-29=0/3458, 27-28=0/3815, 25-27=0/2773, 24-25=0/326 **WEBS**

9-34=-794/0, 11-32=0/616, 12-31=-633/0,

2-39=-1054/32, 2-37=-118/605, 4-37=-162/0,

5-37=-188/263, 5-36=-429/0, 6-36=-167/0, 7-36=0/855, 7-35=-1227/0, 8-35=-205/0,

9-35=0/1860, 11-34=-3441/0, 12-29=0/2604,

14-29=-560/0, 15-29=-664/0, 15-28=0/480,

16-28=-190/0, 17-28=-67/7, 17-27=-367/0, 18-27=-169/0, 19-27=0/813, 19-25=-1190/0

21-25=-159/0, 22-25=0/1580, 22-24=-1010/0

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x6 MT20 unless otherwise indicated.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



Page: 1

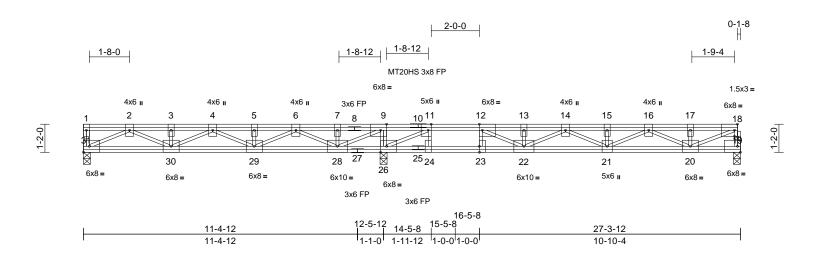
January 13,2025

BOT CHORD



Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-2nd Floor-Plan 10 GRH
25010029-A	F06	Floor	1	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 16:05:44 ID: FisgYYHCW6NfUmRtJFCl2Wzwhyl-RfC? PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC? full filter for the property of Page: 1



Scale = 1:47.9

Plate Offsets (X, Y): [9:0-3-0,Edge], [11:0-3-0,Edge], [12:0-1-8,Edge], [18:0-1-8,Edge], [18:0-1-8,0-0-8], [23:0-3-0,Edge], [26:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	-0.17	22-23	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.24	22-23	>741	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.02	19	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 214 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS 19=0-3-8, 26=0-3-8, 31=0-3-8 (size)

19=734 (LC 4), 26=1739 (LC 1), Max Grav

31=595 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-31=-78/0, 18-19=-721/0, 1-2=0/0,

2-3=-1543/0, 3-4=-1543/0, 4-5=-1608/49, 5-6=-1608/49, 6-7=-248/658, 7-9=-248/658,

9-11=0/1795, 11-12=-1077/354, 12-13=-2487/0, 13-14=-2487/0, 14-15=-2562/0, 15-16=-2562/0,

16-17=-1350/0, 17-18=-1351/0 **BOT CHORD** 30-31=0/974. 29-30=0/1744.

28-29=-320/1096, 26-28=-1795/0, 24-26=-354/1077, 23-24=-354/1077, 22-23=-354/1077 21-22=0/2640

20-21=0/2114, 19-20=0/0

9-26=-792/0, 11-24=0/481, 12-23=-487/0, WEBS

2-31=-1094/0, 2-30=0/644, 3-30=-161/0, 4-30=-228/90, 4-29=-262/0, 5-29=-166/0, 6-29=0/687, 6-28=-1063/0, 7-28=-196/0, 9-28=0/1650, 11-26=-2620/0, 12-22=0/1759, 13-22=-434/0, 14-22=-256/0, 14-21=-88/96,

15-21=-181/0, 16-21=0/507, 16-20=-865/0, 17-20=-186/0, 18-20=0/1484

NOTES

Unbalanced floor live loads have been considered for this design.

- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x6 MT20 unless otherwise indicated.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

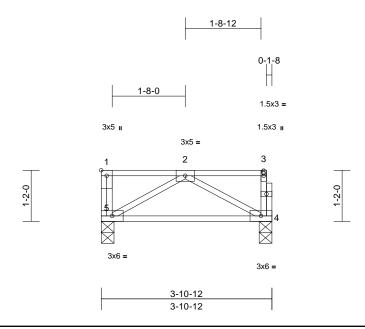
LOAD CASE(S) Standard



January 13,2025

Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-2nd Floor-Plan 10 GRH
25010029-A	F05	Floor	2	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries. Inc. Sun Jan 12 16:05:44 ID:NPZJaYqMTRb2wwXZ4GXrWWzwhyu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:26.3

Plate Offsets (X, Y): [1:Edge,0-1-8]

				1	-		-				i	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.55	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.27	Vert(CT)	-0.03	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MP							Weight: 22 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals.

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

bracing. REACTIONS

4=0-3-8, 5=0-3-8 (size)

Max Grav 4=458 (LC 1), 5=474 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-5=-171/0, 3-4=-171/0, 1-2=0/0, 2-3=-10/0

BOT CHORD 4-5=0/490

WFBS 2-5=-567/0, 2-4=-550/0

NOTES

- 1) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.
- 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

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 4-5=-10, 1-3=-250 (F=-150)

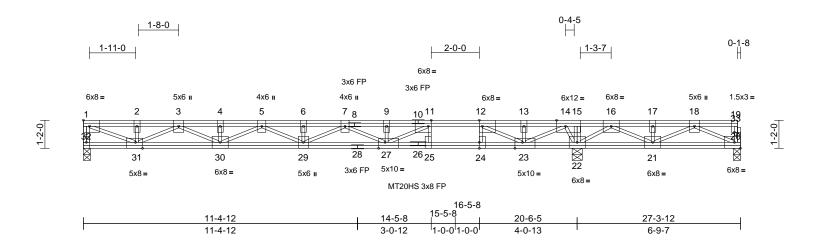




Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-2nd Floor-Plan 10 GRH
25010029-A	F04	Floor	1	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 16:05:44 ID:JW9eQQey?qiAdcuhidIJPLzwhz7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:47.9

Plate Offsets (X, Y): [11:0-1-8,Edge], [12:0-1-8,Edge], [15:0-4-8,Edge], [23:0-3-12,Edge], [24:0-3-0,Edge], [27:0-3-4,Edge], [31:0-3-8,Edge], [33:0-1-8,0-0-8]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.33	27-29	>739	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.45	27-29	>538	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.03	22	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 214 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

BOT CHORD 2x4 SP No.2(flat) *Except* 28-20,26-20:2x4

SP No.1(flat)

WEBS 2x4 SP No.3(flat) *Except* 27-11,23-14:2x4 SP No.2(flat)

OTHERS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

bracing, Except:

6-0-0 oc bracing: 22-23,21-22,20-21.

REACTIONS (size) 20=0-3-8, 22=0-5-1, 32=0-3-8

Max Uplift 20=-428 (LC 3)
Max Grav 20=200 (LC 4), 22=22

Max Grav 20=200 (LC 4), 22=2201 (LC 1),

32=952 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-32=-932/0, 19-20=-72/0, 1-2=-1913/0,

2-3=-1913/0, 3-4=-3893/0, 4-5=-3893/0, 5-6=-4432/0, 6-7=-4432/0, 7-9=-3729/0,

9-11=-3729/0, 11-12=-1752/0, 12-13=0/1328, 13-14=0/1328, 14-15=0/3690, 15-16=0/3690, 16-17=-59/1775, 17-18=-59/1775, 18-19=0/0

BOT CHORD 31-32=0/0, 30-31=0/3064, 29-30=0/4327, 27-29=0/4185, 25-27=0/1752, 24-25=0/1752,

23-24=0/1752, 22-23=-3081/0, 21-22=-2802/0, 20-21=-854/211

WEBS 11-25=-642/0, 12-24=0/686, 15-22=-182/0,

11-27=0/2291, 9-27=-473/0, 7-27=-550/0, 7-29=0/316, 6-29=-181/0, 5-29=0/119, 5-30=-491/0, 4-30=-167/0, 3-30=0/938, 3-31=-1303/0, 2-31=-205/0, 1-31=0/2086,

12-23=-3217/0, 13-23=-58/301, 14-23=0/2139, 14-22=-1341/0, 18-20=-238/967, 18-21=-1043/0,

17-21=-176/0, 16-21=0/1357, 16-22=-1357/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x6 MT20 unless otherwise indicated.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 428 lb uplift at joint 20.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



January 13,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

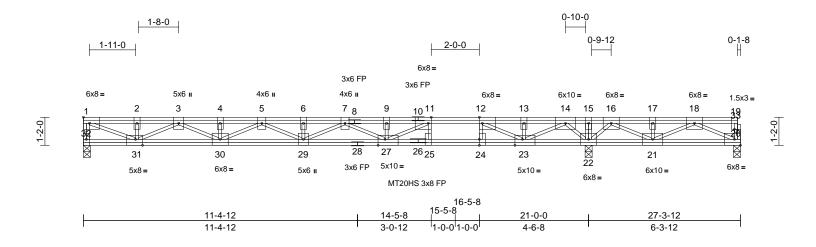
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-2nd Floor-Plan 10 GRH
25010029-A	F03	Floor	2	1	Job Reference (optional)

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries. Inc. Sun Jan 12.16:05:43 ID:BkLI79H83cwQ1?bwyKDHB0zwhzb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:47.9

Plate Offsets (X, Y): [11:0-1-8,Edge], [12:0-1-8,Edge], [23:0-3-12,Edge], [24:0-3-0,Edge], [27:0-3-8,Edge], [31:0-3-8,Edge], [33:0-1-8,0-0-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.35	27-29	>725	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.47	27-29	>528	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.04	22	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 214 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

2x4 SP No.2(flat) *Except* 28-20,26-20:2x4 BOT CHORD

SP No.1(flat)

WFBS 2x4 SP No.3(flat) *Except*

27-11,31-1,23-14:2x4 SP No.2(flat)

OTHERS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

bracing, Except:

6-0-0 oc bracing: 22-23,21-22,20-21.

REACTIONS (size) 20=0-3-8, 22=0-3-8, 32=0-3-8

Max Uplift 20=-522 (LC 3) 20=152 (LC 4), 22=2296 (LC 1), Max Grav

32=968 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-32=-949/0, 19-20=-71/0, 1-2=-1953/0,

2-3=-1953/0, 3-4=-3990/0, 4-5=-3990/0, 5-6=-4590/0, 6-7=-4590/0, 7-9=-3944/0,

9-11=-3944/0, 11-12=-2019/0, 12-13=0/1038, 13-14=0/1038, 14-15=0/3997, 15-16=0/3997,

16-17=0/2128, 17-18=0/2128, 18-19=0/0 BOT CHORD 31-32=0/0 30-31=0/3132 29-30=0/4454

27-29=0/4374, 25-27=0/2019, 24-25=0/2019,

23-24=0/2019, 22-23=-2754/0 21-22=-3305/0, 20-21=-1029/121

WFBS 11-25=-630/0, 12-24=0/669, 15-22=-163/0,

11-27=0/2239, 9-27=-468/0, 7-27=-523/0, 7-29=-3/287, 6-29=-181/0, 5-29=0/154, 5-30=-525/0, 4-30=-167/0, 3-30=0/972 3-31=-1334/0, 2-31=-207/0, 1-31=0/2131,

12-23=-3142/0, 13-23=-69/286, 14-23=0/2163, 14-22=-1730/0,

18-20=-137/1165, 18-21=-1244/0, 17-21=-166/0, 16-21=0/1562, 16-22=-1183/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x6 MT20 unless otherwise indicated.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 522 lb uplift at joint 20.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



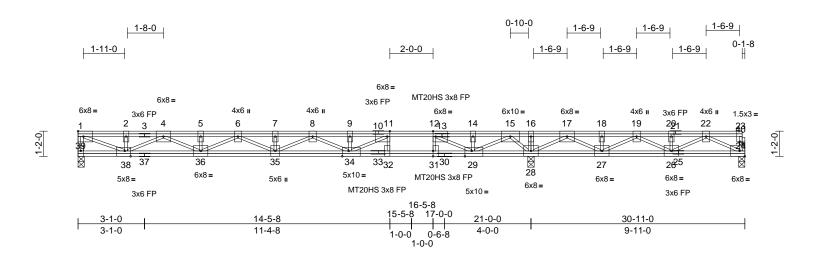
January 13,2025

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-2nd Floor-Plan 10 GRH
25010029-A	F02	Floor	3	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 16:05:43 ID:7JtmrPhPcZINfTLVaXroihzwi_M-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:53.4

Plate Offsets (X, Y): [11:0-1-8,Edge], [12:0-1-8,Edge], [29:0-3-12,Edge], [31:0-3-0,Edge], [34:0-3-8,Edge], [38:0-3-4,Edge], [40:0-1-8,0-0-8]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.35	34-35	>710	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.48	34-35	>520	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.04	28	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 242 lb	FT = 20%F, 11%E

LUMBER

2x4 SP No.2(flat) TOP CHORD

2x4 SP No.2(flat) *Except* 37-30,33-25:2x4 **BOT CHORD**

SP No.1(flat)

2x4 SP No.3(flat) *Except* **WEBS**

34-11,38-1,29-15:2x4 SP No.2(flat)

2x4 SP No.3(flat) **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing

REACTIONS 24=0-3-8, 28=0-3-8, 39=0-3-8 (size)

Max Uplift 24=-210 (LC 3)

24=402 (LC 4), 28=2246 (LC 1), Max Grav

39=982 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-39=-963/0, 23-24=-68/0, 1-2=-1985/0,

2-4=-1985/0, 4-5=-4074/0, 5-6=-4074/0, 6-7=-4727/0, 7-8=-4727/0, 8-9=-4135/0,

9-11=-4135/0, 11-12=-2256/0, 12-14=0/975, 14-15=0/975, 15-16=0/3867, 16-17=0/3867,

17-18=-347/2119, 18-19=-347/2119, 19-20=-802/878, 20-22=-802/878, 22-23=0/0

BOT CHORD 38-39=0/0, 36-38=0/3192, 35-36=0/4570,

34-35=0/4542, 32-34=0/2256, 31-32=0/2256,

29-31=0/2256, 28-29=-2644/0,

27-28=-2859/0, 26-27=-1472/721

24-26=-407/560

WEBS 11-32=-627/0, 12-31=0/663, 16-28=-219/0,

11-34=0/2230, 9-34=-466/0, 8-34=-518/0,

8-35=0/274, 7-35=-176/0, 6-35=0/178, 6-36=-561/0, 5-36=-163/0, 4-36=0/998

4-38=-1366/0, 2-38=-206/0, 1-38=0/2165, 12-29=-3120/0, 14-29=-69/285,

15-29=0/2158, 15-28=-1724/0,

17-28=-1550/0, 17-27=0/1279, 18-27=-170/0,

19-27=-930/0, 19-26=0/683, 20-26=-151/0,

22-26=-542/279, 22-24=-644/468

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated. 2) All plates are 3x6 MT20 unless otherwise indicated. 3)
- n/a
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



Page: 1

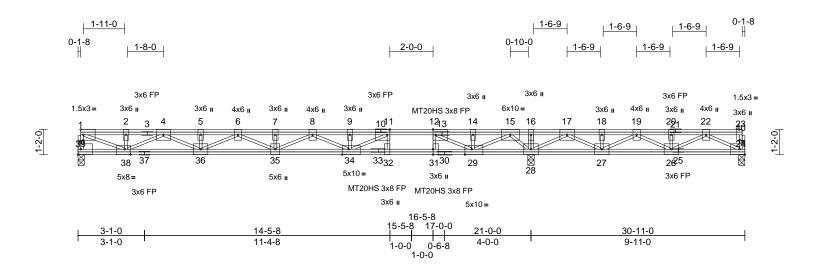
January 13,2025



Job	Truss	Truss Type	Qty	Ply	132 Hidden Lakes North-2nd Floor-Plan 10 GRH
25010029-A	F01	Floor	1	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 16:05:42 ID:LzpTTEzOVRJI4PL9deHypFzwi?H-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:53.4

Plate Offsets (X, Y): [1:0-1-8,0-0-8], [11:0-1-8,Edge], [12:0-1-8,Edge], [29:0-3-12,Edge], [31:0-3-0,Edge], [34:0-3-8,Edge], [38:0-3-4,Edge], [40:0-1-8,0-0-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.35	34-35	>711	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.48	34-35	>520	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.04	28	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 242 lb	FT = 20%F, 11%E

LUMBER

2x4 SP No.2(flat) TOP CHORD

2x4 SP No.2(flat) *Except* 37-30,33-25:2x4 **BOT CHORD**

SP No.1(flat)

WFBS 2x4 SP No.3(flat) *Except*

34-11,38-1,29-15:2x4 SP No.2(flat)

2x4 SP No.3(flat) **OTHERS**

BRACING TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or

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

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing

REACTIONS 24=0-3-8, 28=0-3-8, 39=0-3-8 (size)

Max Uplift 24=-210 (LC 3)

24=402 (LC 4), 28=2246 (LC 1), Max Grav

39=982 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-39=-964/0, 23-24=-68/0, 1-2=-1987/0,

2-4=-1986/0, 4-5=-4074/0, 5-6=-4074/0, 6-7=-4727/0, 7-8=-4727/0, 8-9=-4135/0,

9-11=-4135/0, 11-12=-2256/0, 12-14=0/974, 14-15=0/974, 15-16=0/3866, 16-17=0/3866,

17-18=-347/2119, 18-19=-347/2119, 19-20=-802/878, 20-22=-802/878, 22-23=0/0

38-39=0/0, 36-38=0/3192, 35-36=0/4570,

34-35=0/4542, 32-34=0/2256, 31-32=0/2256,

29-31=0/2256, 28-29=-2644/0,

27-28=-2858/0, 26-27=-1471/721

24-26=-407/560

WEBS 11-32=-627/0, 12-31=0/663, 16-28=-219/0,

11-34=0/2230, 9-34=-466/0, 8-34=-518/0,

8-35=0/274, 7-35=-176/0, 6-35=0/178, 6-36=-561/0, 5-36=-163/0, 4-36=0/998

4-38=-1365/0, 2-38=-188/0, 1-38=0/2159,

12-29=-3120/0, 14-29=-69/285, 15-29=0/2158, 15-28=-1724/0,

17-28=-1550/0, 17-27=0/1279, 18-27=-170/0,

19-27=-930/0, 19-26=0/683, 20-26=-151/0,

22-26=-542/279, 22-24=-644/468

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated. 2) All plates are 3x6 MT20 unless otherwise indicated.
- 3) 4) n/a
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls
- at their outer ends or restrained by other means. CAUTION, Do not erect truss backwards.

LOAD CASE(S)

Standard

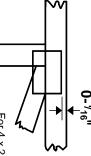


Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

₹

This symbol indicates the required direction of slots in connector plates.

*Plate location details available in MiTek software or upon request.

PLATE SIZE

4 × 4

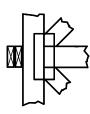
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



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

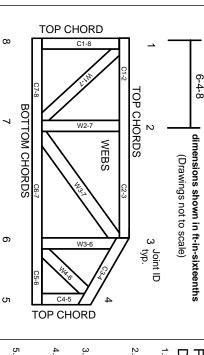
Industry Standards: ANSI/TPI1: National I

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

DSB-22:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

9

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