

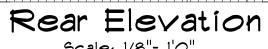


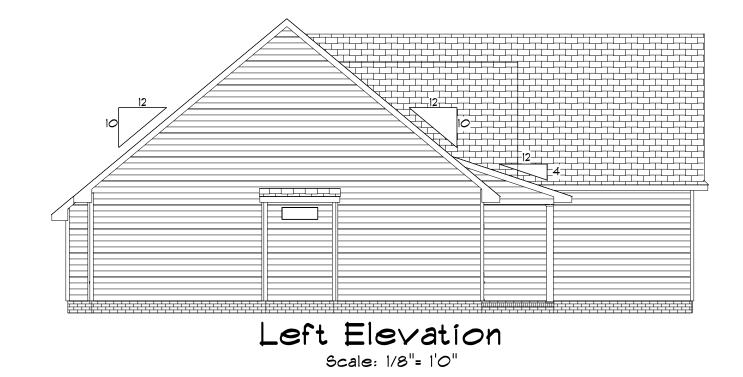
SCALE: 1/4" DRAWN BY APPROYED

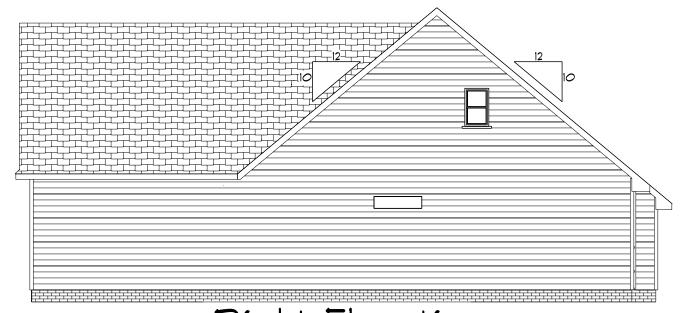
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 $\frac{\sigma}{\omega}$

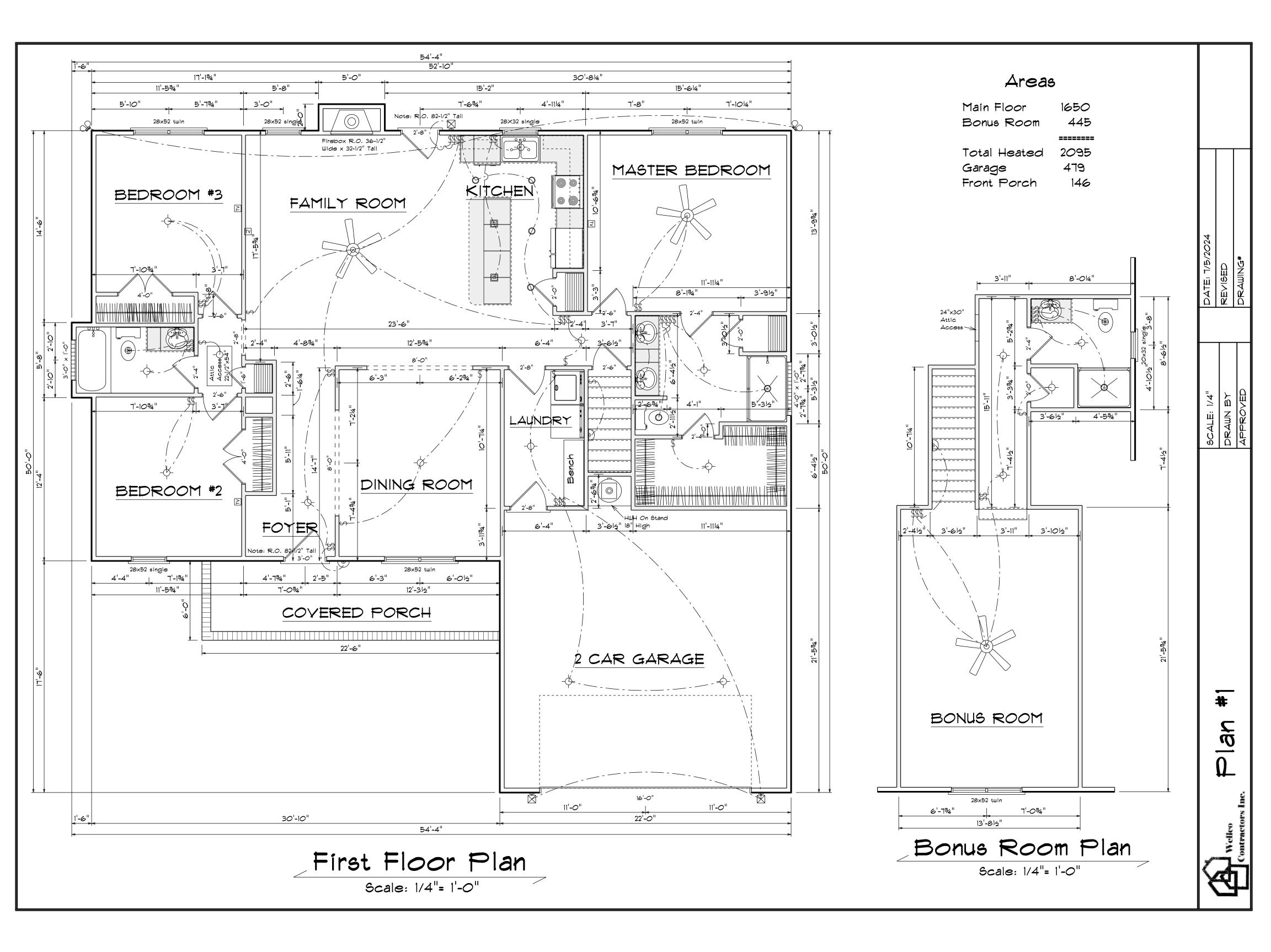


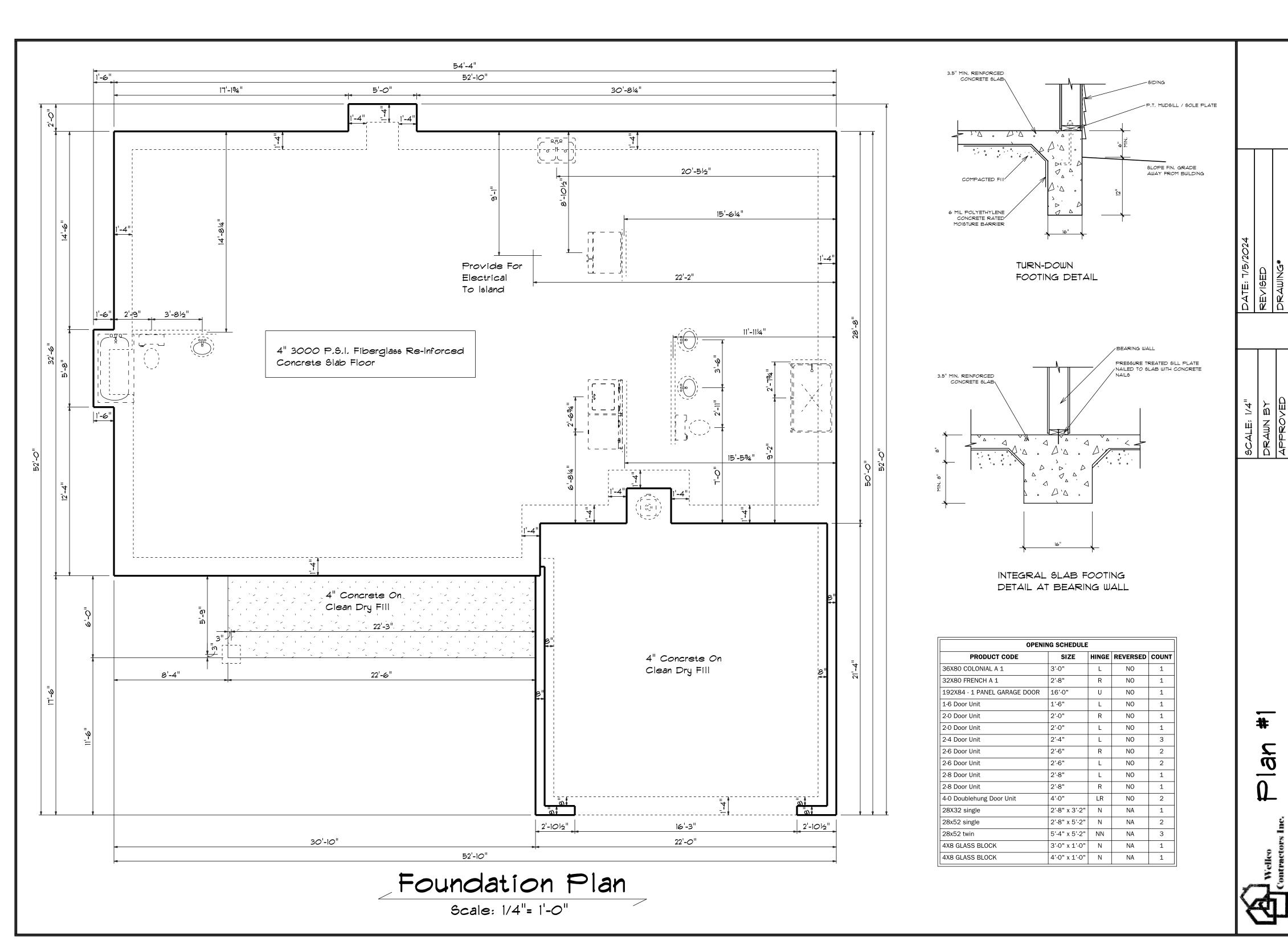


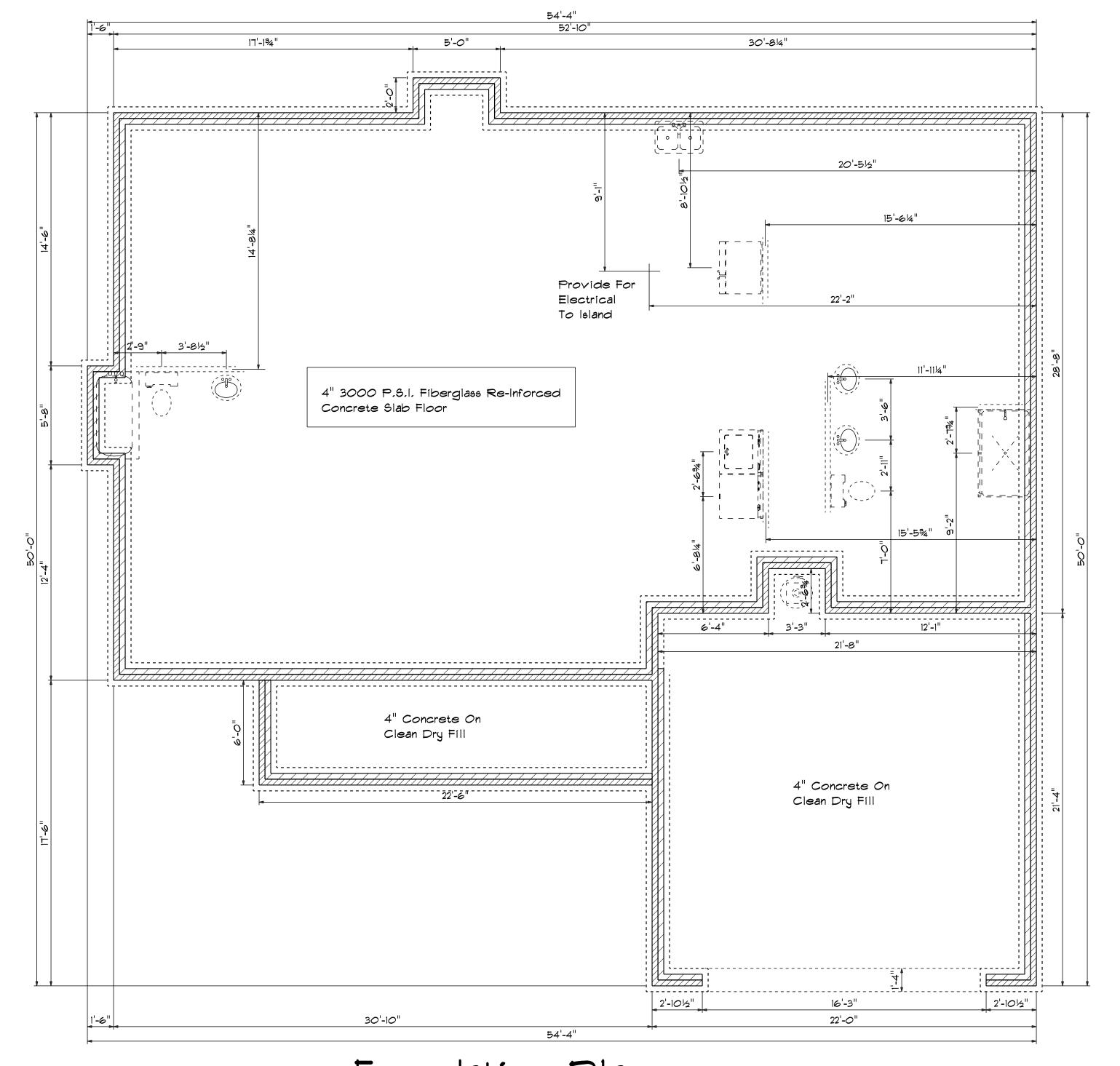


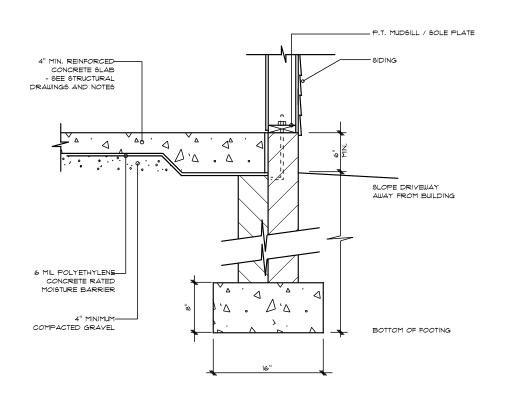


Right Elevation Scale: 1/8"= 1'0"







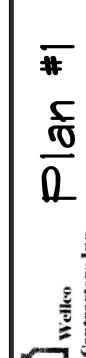


STEM WALL FOOTING DETAIL

OPENING SCHEDULE											
PRODUCT CODE	SIZE	HINGE	REVERSED	COUNT							
36X80 COLONIAL A 1	3'-0"	L	NO	1							
32X80 FRENCH A 1	2'-8"	R	NO	1							
192X84 - 1 PANEL GARAGE DOOR	16'-0"	U	NO	1							
1-6 Door Unit	1'-6"	L	NO	1							
2-0 Door Unit	2'-0"	R	NO	1							
2-0 Door Unit	2'-0"	L	NO	1							
2-4 Door Unit	2'-4"	L	NO	3							
2-6 Door Unit	2'-6"	R	NO	2							
2-6 Door Unit	2'-6"	L	NO	2							
2-8 Door Unit	2'-8"	L	NO	1							
2-8 Door Unit	2'-8"	R	NO	1							
4-0 Doublehung Door Unit	4'-0"	LR	NO	2							
28X32 single	2'-8" x 3'-2"	N	NA	1							
28x52 single	2'-8" x 5'-2"	N	NA	2							
28x52 twin	5'-4" x 5'-2"	NN	NA	3							
4X8 GLASS BLOCK	3'-0" x 1'-0"	N	NA	1							
4X8 GLASS BLOCK	4'-0" x 1'-0"	N	NA	1							

Foundation Plan

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





Client: Project: Address: Date: 10/16/2024

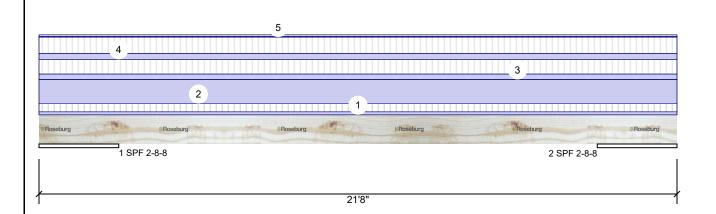
Input by:

Job Name: Garage Beam

Project #:

2.1E RigidLam LVL SP 1.750" X 11.875" 2-Ply - PASSED **B1**

Level: Level



11 7/8" 3 1/2"

Const

Wind

Page 1 of 1

Mem	ber l	Info	rma	tion
	. .			

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

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

Reactions UNPATTERNED Ib (Uplift) Brg Direction Live Snow

1	Vertical	2188	2233	0	0	0
2	Vertical	2188	2233	0	0	0
l						

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb
1 - SPF	32.500"	Vert	9%	2233 / 2188	4421	L	D+L
2 - SPF	32.500"	Vert	9%	2233 / 2188	4421	L	D+L

Analysis Results

/	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
ı	Moment	13679 ft-lb	10'10"	21295 ft-lb	64%	D+L	L
Į	Jnbraced	13679 ft-lb	10'10"	13694 ft-lb	100%	D+L	L
,	Shear	2912 lb	3'8 3/8"	8035 lb	36%	D+L	L
I	L Defl inch	0.336 (L/584)	10'10 1/16"	0.409 (L/480)	82%	L	L
•	ΓL Defl inch	0.680 (L/289)	10'10 1/16"	0.819 (L/240)	83%	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 6' 15/16" 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	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
2	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
3	Uniform			Тор	27 PLF	73 PLF	0 PLF	0 PLF	0 PLF	ROOF
4	Uniform			Тор	29 PLF	81 PLF	0 PLF	0 PLF	0 PLF	FLOOR
5	Uniform			Тор	3 PLF	8 PLF	0 PLF	0 PLF	0 PLF	TRUSS
	Self Weight				12 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

- Ianding & 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

- 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



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

Phone #:919-775-1450

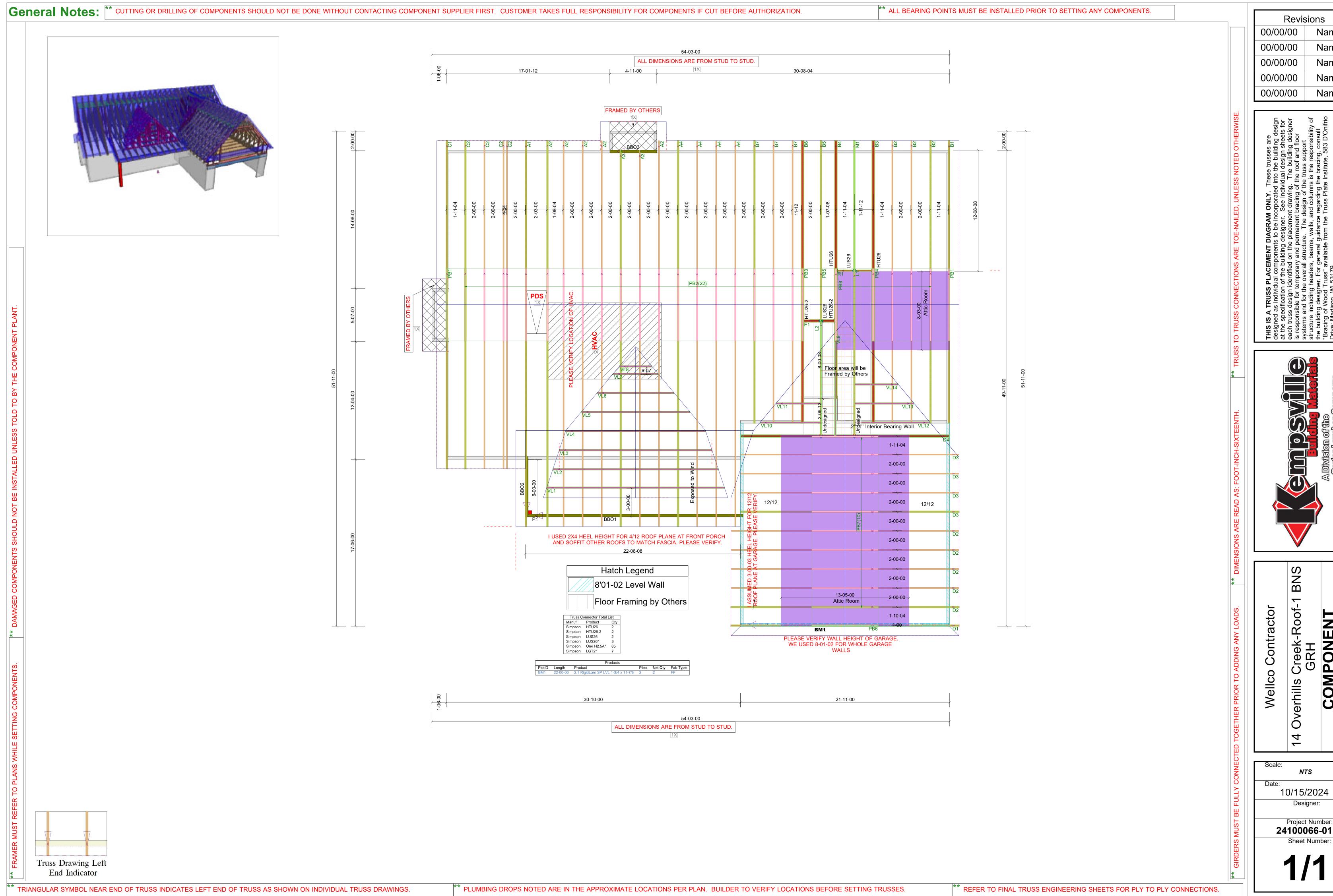
Builder: Wellco Const. Model: Plan 1 BNS GRH



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.

Apprved by:	Date:
-------------	-------



Revisions Name Name

Name

Name Name

Sheet Number:



Trenco 818 Soundside Rd Edenton, NC 27932

Re: 24100066-01

14 Overhills Creek-Roof-1 BNS 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: I68913518 thru I68913561

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

North Carolina COA: C-0844



October 15,2024

Gilbert, Eric

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

Job Truss Truss Type Qty Ply 14 Overhills Creek-Roof-1 BNS GRH 168913518 24100066-01 A1 Piggyback Base Structural Gable Job Reference (optional)

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

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:51 ID:v28o_B5VsOnzjXVnQPrKPoyV?V1-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

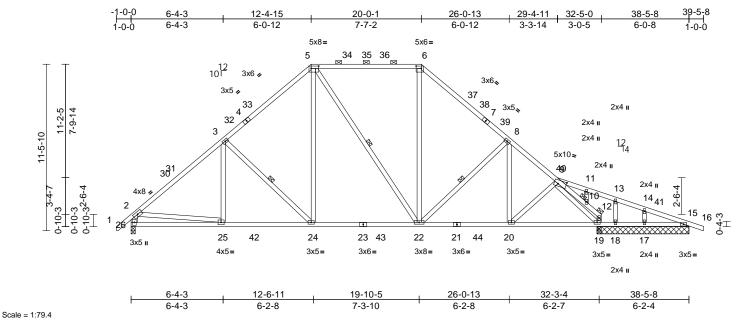


Plate Offsets (X, Y): [5:0-6-4,0-2-0], [6:0-4-4,0-2-0], [9:0-6-12,0-3-0]

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	0.72	Vert(LL)	-0.13	22-24	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.21	22-24	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.05	19	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 253 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 5-6,6-7,7-12:2x4 SP

2400F 2.0E

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 26-2:2x6 SP No.2,

24-5,22-5,22-6,9-19:2x4 SP No.2

OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-6-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6, 9-12. Rigid ceiling directly applied or 6-0-0 oc

BOT CHORD bracing.

WEBS 1 Row at midpt 5-22, 3-24, 8-22 JOINTS 1 Brace at Jt(s): 12,

REACTIONS (size)

TOP CHORD

15=6-4-0, 17=6-4-0, 18=6-4-0,

19=6-4-0, 26=0-3-8, 27=6-4-0

Max Horiz 26=-218 (LC 13)

Max Uplift 15=-129 (LC 62), 17=-4 (LC 16), 18=-59 (LC 12), 27=-129 (LC 62)

15=69 (LC 52), 17=288 (LC 44),

18=100 (LC 52), 19=1834 (LC 54),

26=1517 (LC 60), 27=69 (LC 52)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/55, 2-3=-2010/288, 3-5=-1658/358,

5-6=-1146/343, 6-8=-1610/351,

8-9=-1749/286, 9-10=-11/35, 10-12=-60/19, 9-11=-33/652, 11-13=-53/674, 13-14=-80/690,

14-15=-106/702, 15-16=0/23,

2-26=-1575/300

BOT CHORD 25-26=-146/470, 24-25=-97/1447,

22-24=0/1071, 20-22=-68/1289, 19-20=-74/917, 18-19=-657/134, 17-18=-657/134, 15-17=-657/134 **WEBS**

2-25=0/1119, 5-24=-53/653, 5-22=-153/88, 6-22=-43/566, 12-19=-94/29, 3-25=0/187, 3-24=-529/193, 8-20=-148/68,

8-22=-358/173, 9-20=0/479, 9-19=-2303/305,

10-11=-149/44. 13-18=-171/62.

14-17=-175/59

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) and C-C Exterior(2E) -0-11-6 to 2-10-13, Interior (1) 2-10-13 to 12-4-15, Exterior(2R) 12-4-15 to 16-3-2, Interior (1) 16-3-2 to 20-0-1, Exterior(2R) 20-0-1 to 23-10-3, Interior (1) 23-10-3 to 39-5-3 zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- 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 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- Gable studs spaced at 2-0-0 oc.

- 9) * 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) All bearings are assumed to be SP No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 15, 59 lb uplift at joint 18, 4 lb uplift at joint 17 and 129 lb uplift at joint 15.
- 12) 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



October 15,2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	A2	Piggyback Base	5	1	Job Reference (optional)	l68913519

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:52 ID:3rkE64K5AqwjinLRc91GqhyV?J6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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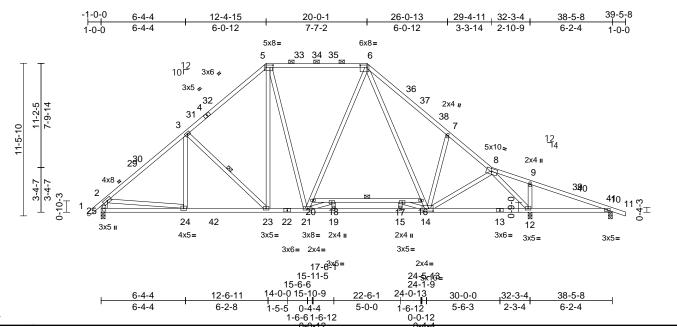


Plate Offsets (X, Y): [5:0-6-4,0-2-0], [6:0-6-4,0-2-0], [14:0-4-0,0-2-8]

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	0.76	Vert(LL)	0.05	12-28	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.21	15-19	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.06	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 270 lb	FT = 20%

LUMBER TOP CHORD BOT CHORD

Scale = 1:86.7

TOP CHORD 2x4 SP 2400F 2.0E

2x4 SP No.2 *Except* 20-16,13-22:2x4 SP

2400F 2.0E 2x4 SP No.3 *Except*

2X4 SP No.3 *Except*

23-5,6-21,6-14,5-21:2x4 SP No.2, 25-2:2x6

SP No.2

BRACING TOP CHORD

BOT CHORD

WEBS

OP CHORD Structural wood sheathing directly applied or 5-2-2 oc purlins, except end verticals, and

2-0-0 oc purlins, except end verticals, at 2-0-0 oc purlins (5-3-13 max.): 5-6. Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 10-12,17-18,16-17.

WEBS 1 Row at midpt 3-23

REACTIONS (size) 10=0-3-8, 12=0-3-8, 25=0-3-8

Max Horiz 25=-226 (LC 13) Max Uplift 10=-160 (LC 62)

Max Grav 10=168 (LC 52), 12=2384 (LC 54),

25=1758 (LC 60)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/57, 2-3=-2343/144, 3-5=-1978/210,

5-6=-1497/192, 6-7=-2348/192,

7-8=-2296/54, 8-9=0/771, 9-10=-8/826,

10-11=0/23, 2-25=-1822/199 BOT CHORD 24-25=-138/495, 23-24=0/1700,

21-23=0/1308, 19-21=0/2299, 15-19=0/2299,

14-15=0/2299, 12-14=0/1180, 10-12=-763/4,

18-20=0/30, 17-18=-1194/0, 16-17=-86/8 3-24=-1/199, 3-23=-548/206, 5-23=-91/523,

2-24=0/1345, 20-21=0/353, 6-20=0/358, 6-16=-12/816, 14-16=-9/784, 7-14=-493/252, 9-12=-457/175, 8-12=-2837/0, 8-14=0/639,

15-17=0/213, 14-17=-1222/0, 18-19=0/256, 18-21=-1304/0, 5-21=0/361

- 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) and C-C Exterior(2E) -0-11-6 to 2-10-13, Interior (1) 2-10-13 to 12-4-15, Exterior(2R) 12-4-15 to 16-3-2, Interior (1) 16-3-2 to 20-0-1, Exterior(2R) 20-0-1 to 23-10-3, Interior (1) 23-10-3 to 39-5-3 zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- 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 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 200.0lb AC unit load placed on the bottom chord, 20-0-1 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 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.
- 9) All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 160 lb uplift at joint
- 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

WFBS

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

Design valid for use only with Mil 1ex® connectors. Inis 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)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply 14 Overhills Creek-Roof-1 BNS GRH 168913520 24100066-01 **A3** 2 Piggyback Base Job Reference (optional)

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

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:52 ID:I1gD1y0g?Hllnzz4cX5kA0yVHkl-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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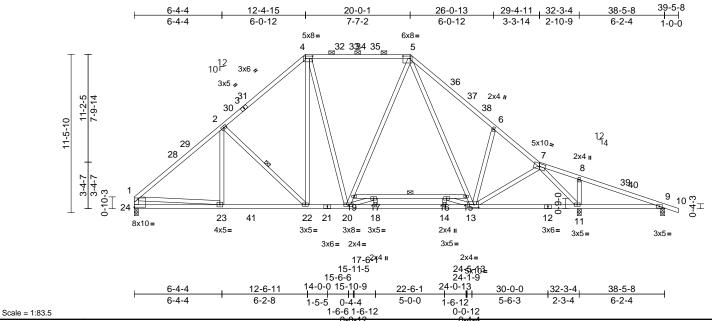


Plate Offsets (X, Y): [4:0-6-4,0-2-0], [5:0-6-4,0-2-0], [13:0-4-0,0-2-8], [24:Edge,0-7-4]

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	0.76	Vert(LL)	0.05	11-27	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.21	14-18	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.06	11	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH		1						
BCDL	10.0										Weight: 267 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2 0F

2x4 SP No.2 *Except* 12-21,19-15:2x4 SP **BOT CHORD**

2400F 2.0E **WEBS** 2x4 SP No.3 *Except*

22-4,5-20,5-13,4-20:2x4 SP No.2

BRACING

FORCES

WEBS

NOTES

TOP CHORD Structural wood sheathing directly applied or 5-2-1 oc purlins, except end verticals, and

2-0-0 oc purlins (5-3-4 max.): 4-5

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

bracing, Except:

6-0-0 oc bracing: 9-11,16-17,15-16.

WFBS 1 Row at midpt 2-22

REACTIONS (size) 9=0-3-8, 11=0-3-8, 24=0-3-8

Max Horiz 24=-219 (LC 13) Max Uplift 9=-163 (LC 62)

Max Grav 9=154 (LC 52), 11=2392 (LC 54),

24=1706 (LC 60)

(lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-2369/150, 2-4=-1993/220,

4-5=-1505/195, 5-6=-2353/195

6-7=-2301/57, 7-8=0/779, 8-9=0/836,

9-10=0/23, 1-24=-1765/144

BOT CHORD 23-24=-101/446, 22-23=0/1729,

20-22=0/1317, 18-20=0/2304, 14-18=0/2304, 13-14=0/2304, 11-13=0/1179, 9-11=-773/0,

17-19=0/30, 16-17=-1193/0, 15-16=-85/8

2-23=0/210, 4-22=-97/541, 1-23=0/1433, 19-20=0/358, 5-19=0/363, 5-15=-13/813,

13-15=-9/781, 8-11=-452/175, 7-11=-2850/0,

6-13=-493/255, 2-22=-575/213, 7-13=0/644, 14-16=0/213. 13-16=-1222/0. 17-18=0/255.

17-20=-1303/0, 4-20=0/357

- 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) and C-C Exterior(2E) 0-1-12 to 4-2-5, Interior (1) 4-2-5 to 12-4-15, Exterior(2R) 12-4-15 to 16-5-8, Interior (1) 16-5-8 to 20-0-1. Exterior(2R) 20-0-1 to 24-0-10. Interior (1) 24-0-10 to 39-5-3 zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 200.0lb AC unit load placed on the bottom chord, 20-0-1 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 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.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint
- 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



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)



Ply Job Truss Truss Type Qty 14 Overhills Creek-Roof-1 BNS GRH 168913521 24100066-01 **A4** Piggyback Base Job Reference (optional)

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

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:53 ID:Fvn5lIFq04XKwxDPmMJx9pyV?BT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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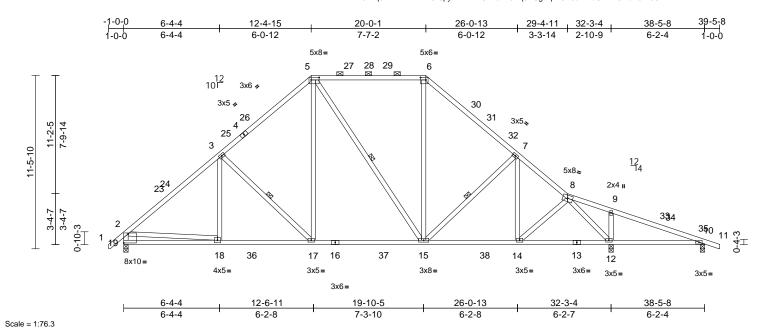


Plate Offsets (X, Y): [5:0-6-4,0-2-0], [6:0-4-4,0-2-0], [19:Edge,0-7-4]

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	0.73	Vert(LL)	0.05	12-22	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.21	15-17	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.05	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0			1							Weight: 245 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3 *Except* 17-5,15-5,15-6:2x4 SP No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

5-7-13 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.

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

bracing, Except:

6-0-0 oc bracing: 10-12

WEBS 1 Row at midpt 3-17, 5-15, 7-15 10=0-3-8, 12=0-3-8, 19=0-3-8 REACTIONS (size)

Max Horiz 19=-224 (LC 13)

Max Uplift 10=-115 (LC 12)

10=205 (LC 52), 12=1978 (LC 54),

19=1566 (LC 60)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/53, 2-3=-2102/297, 3-5=-1722/369,

5-6=-1188/353, 6-7=-1668/361,

7-8=-1793/284, 8-9=0/607, 9-10=-47/666,

10-11=0/23, 2-19=-1624/305 18-19=-144/511, 17-18=-103/1515,

BOT CHORD 15-17=0/1114, 14-15=-62/1334,

12-14=-66/980, 10-12=-612/82

3-18=0/207, 3-17=-564/203, 5-17=-56/686,

5-15=-162/84, 6-15=-43/587, 2-18=0/1140,

7-14=-167/84, 8-14=0/483, 9-12=-454/177,

8-12=-2323/216, 7-15=-369/170

NOTES

WEBS

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) and C-C Exterior(2E) -0-11-6 to 2-10-13, Interior (1) 2-10-13 to 12-4-15, Exterior(2R) 12-4-15 to 16-3-2, Interior (1) 16-3-2 to 20-0-1, Exterior(2R) 20-0-1 to 23-10-3, Interior (1) 23-10-3 to 39-5-3 zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- 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 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- * 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or

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.

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Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	B1	Attic Supported Gable	1	1	Job Reference (optional)	l68913522

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Tue Oct 15 11:28:53 ID:euN5eeBIDqVcSLeF_LY?3RyV??x-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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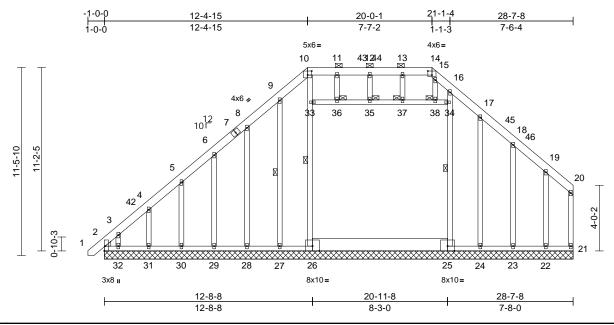


Plate Offsets (X, Y): [2:Edge,0-0-9], [10:0-3-0,0-3-0], [14:0-3-0,0-3-0]

Loading	(psf)	Spacing	1-11-4	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	21	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 276 lb	FT = 20%

LUMBER		
TOP CHORD	2x6 SP No.2	

BOT CHORD 2x4 SP No.2 *Except* 26-25:2x10 SP 2400F 2.0E

2x4 SP No.2 *Except* 16-25,21-20:2x4 SP

No.3 **OTHERS** 2x4 SP No.3 Left: 2x4 SP No.3 WEDGE

BRACING

WEBS

Scale = 1:70.3

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 10-14.

Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

WEBS 1 Row at midpt

26-33, 25-34, 9-27

JOINTS 1 Brace at Jt(s): 35,

36, 37, 38

REACTIONS (size) 2=28-7-8, 21=28-7-8, 22=28-7-8, 23=28-7-8, 24=28-7-8, 25=28-7-8,

26=28-7-8, 27=28-7-8, 28=28-7-8, 29=28-7-8, 30=28-7-8, 31=28-7-8,

32=28-7-8, 39=28-7-8

Max Horiz 2=239 (LC 12), 39=239 (LC 12) Max Uplift 2=-202 (LC 9), 21=-11 (LC 9),

22=-51 (LC 14), 23=-41 (LC 14), 24=-136 (LC 36), 27=-61 (LC 37), 28=-47 (LC 13), 29=-37 (LC 13), 30=-37 (LC 13), 31=-35 (LC 13),

32=-115 (LC 10), 39=-202 (LC 9) Max Grav 2=272 (LC 12), 21=112 (LC 31),

22=160 (LC 31), 23=205 (LC 31), 24=60 (LC 12), 25=783 (LC 39), 26=711 (LC 33), 27=57 (LC 11), 28=189 (LC 30), 29=194 (LC 30), 30=195 (LC 30), 31=189 (LC 30),

32=187 (LC 30), 39=272 (LC 12)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/38, 2-3=-293/242, 3-4=-246/209,

4-5=-235/206, 5-6=-219/204, 6-8=-205/228, 8-9=-187/287. 9-10=-154/322.

10-11=-159/269, 11-12=-159/269, 12-13=-159/269, 13-14=-159/269,

14-15=-242/197. 15-16=-341/230. 16-17=-135/311, 17-18=-170/209

18-19=-140/148, 19-20=-121/107,

20-21=-116/76

BOT CHORD 2-32=-137/109, 31-32=-54/74, 30-31=-54/74, 29-30=-54/74, 28-29=-54/74, 27-28=-54/74,

24-27=-58/74, 23-24=-55/73, 22-23=-55/72,

21-22=-55/72

WEBS 26-33=-487/46, 10-33=-444/52,

25-34=-589/0, 16-34=-620/0, 33-36=-7/2, 35-36=-7/2, 35-37=-7/2, 37-38=-7/2, 34-38=-8/2, 12-35=-6/32, 11-36=-4/37,

13-37=-11/29, 15-38=-19/131, 17-24=-38/155, 18-23=-129/72 19-22=-119/78, 9-27=-36/82, 8-28=-118/91,

6-29=-138/59, 5-30=-132/60, 4-31=-131/60, 3-32=-100/78

NOTES

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

Wind: ASCE 7-16: Vult=130mph (3-second aust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-13 to 2-2-3. Interior (1) 2-2-3 to 12-4-15, Exterior(2R) 12-4-15 to 16-7-14, Interior (1) 16-7-14 to 20-0-1, Exterior(2R) 20-0-1 to 24-2-15, Interior (1) 24-2-15 to 28-5-12 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=1.33

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.: Ce=0.9: Cs=1.00: Ct=1.10. Lu=50-0-0
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding. All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) Ceiling dead load (10.0 psf) on member(s). 33-36, 35-36, 35-37, 37-38, 34-38
- 12) All bearings are assumed to be \$PINo.2



October 15,2024

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

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Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	B1	Attic Supported Gable	1	1	Job Reference (optional)	168913522

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:53 ID:euN5eeBIDqVcSLeF_LY?3RyV??x-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 202 lb uplift at joint 2, 11 lb uplift at joint 21, 136 lb uplift at joint 24, 41 lb uplift at joint 23, 51 lb uplift at joint 22, 61 lb uplift at joint 27, 47 lb uplift at joint 28, 37 lb uplift at joint 29, 37 lb uplift at joint 30, 35 lb uplift at joint 31, 115 lb uplift at joint 32 and 202 lb uplift at joint 2.

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

15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	B2	Attic	3	1	Job Reference (optional)	l68913523

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:53 ID:7i61FsRMyTU?JA02XUu9kAyV?_K-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

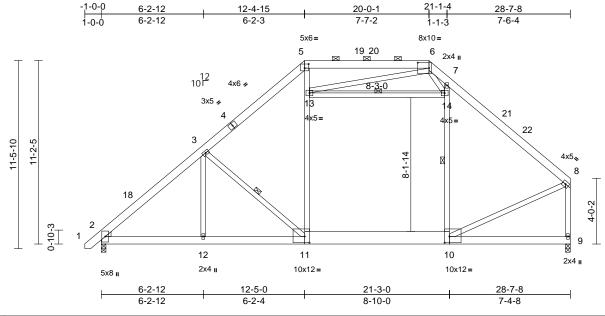


Plate Offsets (X, Y): [5:0-3-0,0-3-0], [6:0-8-4,0-4-0], [10:0-3-8,0-4-8], [11:0-3-8,0-4-8]

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	0.45	Vert(LL)	-0.18	11-12	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.28	11-12	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.02	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH		Attic	-0.14	10-11	>773	360		
BCDL	10.0										Weight: 257 lb	FT = 20%

LUMBER

Scale = 1:70.3

TOP CHORD 2x6 SP No 2

2x6 SP No.2 *Except* 11-10:2x10 SP 2400F **BOT CHORD**

2.0E

WEBS 2x4 SP No.3 *Except* 13-14:2x4 SP No.2

WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-2-12 oc purlins, except end verticals, and

2-0-0 oc purlins (5-11-4 max.): 5-6.

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

bracing, Except: 6-0-0 oc bracing: 9-10

WEBS 1 Row at midpt 10-14, 13-14, 3-11

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

Max Horiz 2=245 (LC 12)

Max Grav 2=1375 (LC 30), 9=1461 (LC 3)

FORCES Tension

TOP CHORD

(lb) - Maximum Compression/Maximum

1-2=0/39, 2-3=-1944/14, 3-5=-1621/107,

5-6=-1303/99, 6-7=-1627/224, 7-8=-1526/26,

8-9=-1609/19

2-12=-152/1495, 9-12=-114/1495

BOT CHORD 3-12=0/212, 11-13=0/674, 5-13=0/604,

10-14=-118/256, 7-14=-614/265,

13-14=-520/67, 6-13=-52/687,

6-14=-126/886, 8-10=0/1206, 3-11=-475/138

NOTES

WEBS

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) and C-C Exterior(2E) -0-9-13 to 2-2-3, Interior (1) 2-2-3 to 12-4-15, Exterior(2R) 12-4-15 to 16-7-14, Interior (1) 16-7-14 to 20-0-1, Exterior(2R) 20-0-1 to 24-2-15, Interior (1) 24-2-15 to 28-5-12 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- * 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.
- Ceiling dead load (10.0 psf) on member(s). 13-14
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 10-11
- All bearings are assumed to be SP No.2.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord
- 11) Attic room checked for L/360 deflection.

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.

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Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	B3	Attic Girder	1	2	Job Reference (optional)	I68913524

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Tue Oct 15 11:28:53 ID:cjFhAe3ziS1dZA_2aPqLr7yV_zW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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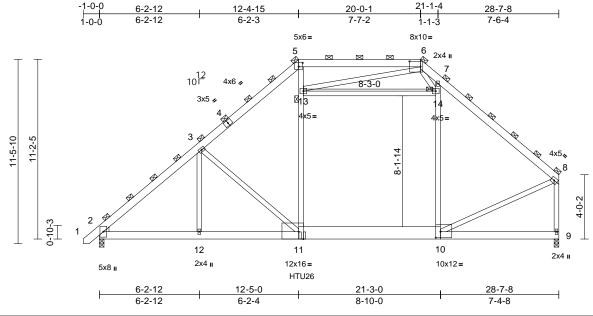


Plate Offsets (X, Y): [5:0-3-0,0-3-0], [6:0-8-4,0-4-0], [10:0-3-8,0-4-8], [11:0-3-8,Edge]

Loading	(psf)	Spacing	3-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.22	11-12	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.38	11-12	>895	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.01	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH		Attic	-0.17	10-11	>642	360		
BCDL	10.0										Weight: 515 lb	FT = 20%

LUMBER

Scale = 1:71.8

TOP CHORD 2x6 SP No 2

2x6 SP 2400F 2.0E *Except* 11-10:2x10 SP **BOT CHORD**

2400F 2.0E

WEBS 2x4 SP No.3 *Except* 13-14:2x4 SP No.2

WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end

verticals (Switched from sheeted: Spacing > 2-8-0).

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

bracing, Except: 6-0-0 oc bracing: 9-10.

JOINTS 1 Brace at Jt(s): 5,

6, 13, 14, 8

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

Max Horiz 2=367 (LC 8)

Max Grav 2=2719 (LC 22), 9=2653 (LC 23)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/59, 2-3=-3667/69, 3-5=-2976/109, 5-6=-2493/156, 6-7=-2906/262,

7-8=-2699/51, 8-9=-2847/0

BOT CHORD 2-12=-288/2892, 9-12=-203/2892

WEBS

10-14=-57/458, 7-14=-1175/428, 13-14=-1255/171, 3-12=-59/551, 11-13=-114/1752, 5-13=-5/1513,

6-13=-203/1758, 6-14=-251/1861,

3-11=-926/260, 8-10=-39/2376

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x10 - 2 rows staggered at 0-7-0

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

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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33

TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.: Ce=0.9: Cs=1.00: Ct=1.10. Lu=50-0-0

This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

Provide adequate drainage to prevent water ponding.

- * 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.
- Ceiling dead load (10.0 psf) on member(s). 13-14
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 10-11
- 11) All bearings are assumed to be SP 2400F 2.0E.

- 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 at 12-7-12 from the left end to connect truss(es) to front face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber. 15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-5=-72, 5-6=-87, 6-8=-72, 11-15=-30,

10-11=-45, 9-10=-30, 13-14=-30

Concentrated Loads (lb)

Vert: 11=-923 (F)



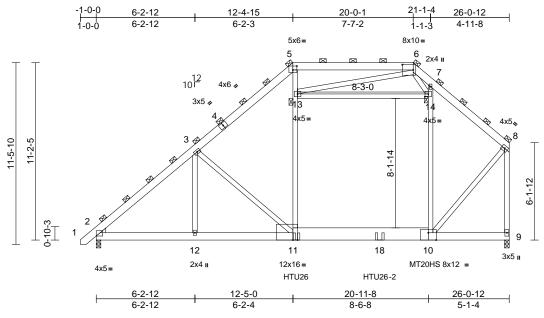




Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	B4	Attic Girder	1	2	Job Reference (optional)	l68913525

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Tue Oct 15 11:28:53 ID:vKimCrL13q3DRsqf_RGzpByV_z8-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:72.7 Plate Offsets (X, Y): [2:Edge,0-0-0], [5:0-3-0,0-3-0], [6:0-8-4,0-4-0], [10:0-6-0,Edge], [11:0-3-8,Edge]

Loading	(psf)	Spacing	2-10-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.23	11-12	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.45	11-12	>691	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.01	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH		Attic	-0.15	10-11	>676	360		
BCDL	10.0										Weight: 491 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No 2

2x6 SP 2400F 2.0E *Except* 11-10:2x10 SP **BOT CHORD**

2400F 2.0E

WEBS 2x4 SP No.3 *Except* 13-14:2x4 SP No.2

WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end

verticals

(Switched from sheeted: Spacing > 2-8-0). **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing, Except: 6-0-0 oc bracing: 9-10.

JOINTS 1 Brace at Jt(s): 5,

6, 13, 14, 8

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

Max Horiz 2=378 (LC 8)

Max Uplift 2=-142 (LC 9), 9=-191 (LC 9)

Max Grav 2=2746 (LC 22), 9=3385 (LC 22)

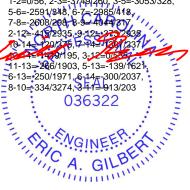
FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/56, 2-3=-3749/260, 3-5=-3053/328,

BOT CHORD

WEBS

NOTES



- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc. 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0
- 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 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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.: Ce=0.9: Cs=1.00: Ct=1.10. Lu=50-0-0
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- * 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) Ceiling dead load (10.0 psf) on member(s). 13-14
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 10-11
- 12) All bearings are assumed to be SP 2400F 2.0E.

- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 142 lb uplift at joint 2 and 191 lb uplift at joint 9.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord
- 15) Use Simpson Strong-Tie HTU26-2 (20-10d Girder, 14-10d Truss) or equivalent at 17-10-12 from the left end to connect truss(es) to front face of bottom chord.
- 16) Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent at 12-7-12 from the left end to connect truss(es) to back face of bottom
- 17) Fill all nail holes where hanger is in contact with lumber.
- 18) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-5=-68, 5-6=-82, 6-8=-68, 11-15=-28, 10-11=-42, 9-10=-28, 13-14=-28

Concentrated Loads (lb)

October 15.2024

Continued on page 2

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

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

Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	B4	Attic Girder	1	2	Job Reference (optional)	l68913525

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:53 $ID: vKimCrL13q3DRsqf_RGzpByV_z8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f$

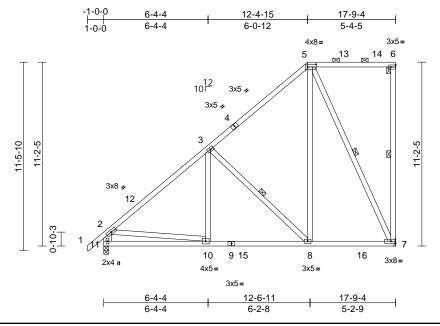
Vert: 11=-945 (B), 18=-998 (F)



Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	B5	Piggyback Base	1	1	Job Reference (optional)	I68913526

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Tue Oct 15 11:28:54 ID:eaqjpHKjbeRrE6aSReLJXvyV?gM-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:70.2

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

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	0.84	Vert(LL)	0.04	7-8	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.07	8-10	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 140 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.2 *Except* 3-10,8-3,10-2:2x4 SP

No.3, 11-2:2x6 SP No.2

BRACING TOP CHORD

WEBS

Structural wood sheathing directly applied or

5-7-15 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6

BOT CHORD Rigid ceiling directly applied or 7-7-1 oc

bracing.

1 Row at midpt 6-7, 3-8, 5-7

REACTIONS 7= Mechanical, 11=0-3-8 (size)

> Max Horiz 11=328 (LC 10) Max Uplift 7=-80 (LC 10)

Max Grav 7=819 (LC 29), 11=850 (LC 29)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/57, 2-3=-1011/117, 3-5=-623/199,

5-6=-174/188, 6-7=-168/81, 2-11=-875/139

BOT CHORD 10-11=-604/601, 8-10=-350/836,

7-8=-222/461

WEBS 3-10=0/264, 3-8=-524/177, 5-8=-66/633,

5-7=-828/247, 2-10=-39/404

NOTES

- 1) 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) and C-C Exterior(2E) -0-11-6 to 2-0-10, Interior (1) 2-0-10 to 12-4-15, Exterior(2R) 12-4-15 to 16-7-14, Interior (1) 16-7-14 to 17-7-8 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=1.33

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- * 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.
- Bearings are assumed to be: Joint 11 SP No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint
- 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



October 15,2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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)

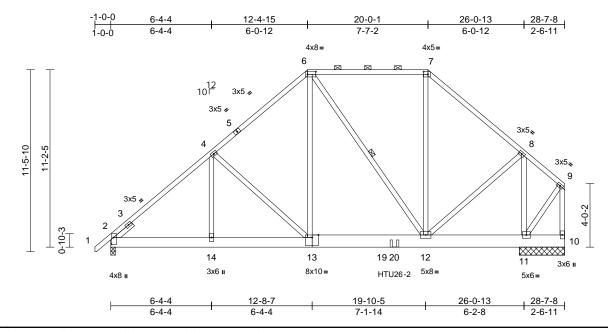


Job Truss Truss Type Qty Ply 14 Overhills Creek-Roof-1 BNS GRH 168913527 24100066-01 **B6** Piggyback Base Girder 2 Job Reference (optional)

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

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Page: 1



Scale = 1:72.7

Plate Offsets (X, Y): [2:0-5-1,0-1-7], [6:0-6-4,0-2-0], [7:0-3-4,0-2-0], [13:0-4-12,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	0.23	Vert(LL)	-0.02	12-13	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.04	12-13	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.01	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0	1		1							Weight: 513 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2 0F

2x8 SP 2400F 2.0E *Except* 13-10:2x10 SP **BOT CHORD**

2400F 2.0E

WEBS 2x4 SP No.3 *Except* 13-6,12-6,12-7:2x4 SP

No 2

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7. Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt

REACTIONS 2=0-3-8, 10=2-10-4, 11=2-10-4 (size)

Max Horiz 2=245 (LC 8)

Max Uplift 2=-100 (LC 9), 10=-61 (LC 6),

11=-195 (LC 10)

Max Grav 2=1539 (LC 21), 10=227 (LC 28),

11=1827 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/53, 2-4=-1791/166, 4-6=-1529/253,

6-7=-998/250, 7-8=-1375/290, 8-9=-174/49,

9-10=-276/45

BOT CHORD 2-14=-228/1435, 12-14=-228/1435,

11-12=-46/125, 10-11=-41/33 6-13=-86/834, 6-12=-285/133,

7-12=-148/543, 4-14=-25/149,

4-13=-359/183, 8-11=-1765/312,

8-12=-216/1199, 9-11=-42/204

NOTES

WEBS

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: 2x8 - 2 rows staggered at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0

- 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 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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.: Ce=0.9: Cs=1.00: Ct=1.10. Lu=50-0-0
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- * 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.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E, Joint 11 SP 2400F 2.0E
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 2, 61 lb uplift at joint 10 and 195 lb uplift at joint 11.

- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Use Simpson Strong-Tie HTU26-2 (20-10d Girder, 14-10d Truss) or equivalent at 17-10-12 from the left end to connect truss(es) to back face of bottom chord.
- 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: 1-6=-48, 6-7=-58, 7-9=-48, 10-15=-20

Concentrated Loads (lb)

Vert: 20=-802 (B)



October 15,2024



Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	B7	Piggyback Base	3	1	Job Reference (optional)	I68913528

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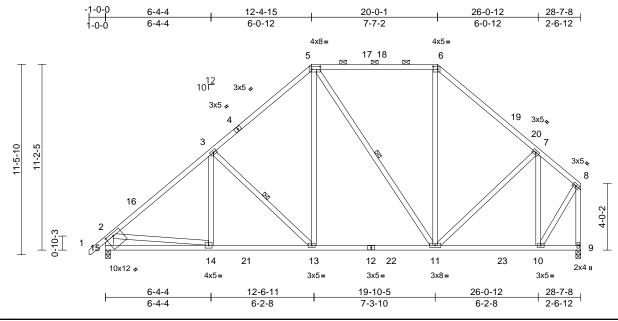


Plate Offsets (X, Y): [5:0-6-4,0-2-0], [6:0-3-4,0-2-0], [15:0-5-8,0-2-0]

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	0.99	Vert(LL)	-0.12	11-13	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.19	11-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.03	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 210 lb	FT = 20%

LUMBER

Scale = 1:69.4

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

WEBS 2x4 SP No.3 *Except* 13-5,11-5,11-6:2x4 SP

No.2, 15-2:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-3-7 oc purlins, except end verticals, and

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

bracing.

WEBS 1 Row at midpt 3-13, 5-11 REACTIONS 9=0-3-8, 15=0-3-8 (size)

Max Horiz 15=255 (LC 12)

Max Grav 9=1272 (LC 3), 15=1336 (LC 29)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/57, 2-3=-1708/109, 3-5=-1370/188, TOP CHORD

5-6=-876/195, 6-7=-1202/172, 7-8=-807/105,

2-15=-1381/130, 8-9=-1409/77 **BOT CHORD** 14-15=-259/471, 13-14=-183/1310,

11-13=-92/994, 10-11=-92/636, 9-10=-66/75

WEBS 3-14=0/205, 3-13=-443/124, 5-13=-3/603,

5-11=-278/76, 6-11=0/317, 7-11=-48/306

2-14=0/866, 7-10=-755/139, 8-10=-86/1110

NOTES

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) and C-C Exterior(2E) -0-11-6 to 2-0-10, Interior (1) 2-0-10 to 12-4-15, Exterior(2R) 12-4-15 to 16-7-14, Interior (1) 16-7-14 to 20-0-1, Exterior(2R) 20-0-1 to 24-2-15, Interior (1) 24-2-15 to 28-5-12 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- * 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.
- All bearings are assumed to be SP No.2
- 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



October 15,2024

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

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

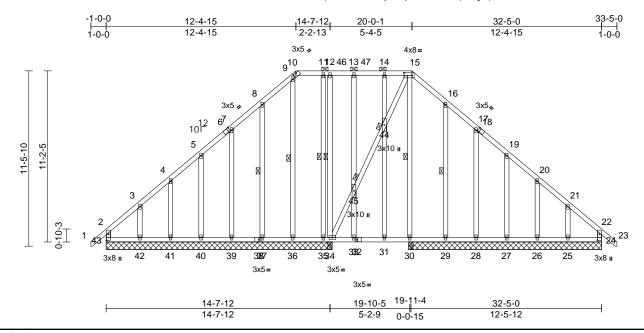


Job Truss Truss Type Qty Ply 14 Overhills Creek-Roof-1 BNS GRH 168913529 24100066-01 C1 Piggyback Base Structural Gable Job Reference (optional)

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

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:54 ID:00Cl97cLqcHQTdc9i48UwsyV?Wy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:75.4

Plate Offsets (X, Y): [6:0-1-9,Edge], [10:0-2-8,0-0-3], [15:0-6-4,0-2-0], [18:0-1-9,Edge], [24:0-4-12,0-1-8], [32:0-1-8,0-1-8], [38:0-1-8,0-1-8], [43:0-4-12,0-1-8]

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)	-0.02	31-33	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.03	31-33	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	24	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 306 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.2 *Except* 43-2,24-22:2x4 SP

OTHERS 2x4 SP No.3 *Except* 35-11,36-9:2x4 SP

BRACING TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 10-15.

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

bracing.

WEBS 1 Row at midpt 15-30, 12-34, 11-35, 9-36, 8-37, 16-29

JOINTS 1 Brace at Jt(s): 44,

45

REACTIONS (size) 24=12-7-8, 25=12-7-8, 26=12-7-8, 27=12-7-8, 28=12-7-8, 29=12-7-8

30=0-3-8, 34=14-9-8, 35=14-9-8, 36=14-9-8, 37=14-9-8, 39=14-9-8 40=14-9-8, 41=14-9-8, 42=14-9-8,

43=14-9-8 Max Horiz 43=-220 (LC 11)

Max Uplift 24=-31 (LC 10), 25=-83 (LC 14), 26=-25 (LC 14), 27=-40 (LC 14), 28=-36 (LC 14), 29=-48 (LC 14), 30=-21 (LC 10), 34=-74 (LC 9),

35=-207 (LC 37), 37=-46 (LC 13), 39=-36 (LC 13), 40=-40 (LC 13), 41=-25 (LC 13), 42=-85 (LC 13),

43=-73 (LC 9)

Max Grav 24=198 (LC 29), 25=215 (LC 30), 26=188 (LC 30), 27=192 (LC 30), 28=201 (LC 30), 29=179 (LC 30),

30=312 (LC 32), 34=637 (LC 3), 35=26 (LC 10), 36=199 (LC 32), 37=198 (LC 29), 39=192 (LC 29), 40=196 (LC 29), 41=179 (LC 29),

42=244 (LC 29), 43=188 (LC 30) (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/51, 2-3=-150/148, 3-4=-98/113,

4-5=-89/103, 5-7=-77/145, 7-8=-111/196, 8-9=-150/249, 9-10=-106/171, 10-11=-122/207, 11-12=-122/207, 12-13=-122/207, 13-14=-122/207, 14-15=-122/207, 15-16=-159/240,

16-17=-139/180, 17-19=-114/128,

19-20=-92/78 20-21=-95/58 21-22=-121/85 22-23=0/51, 2-43=-146/69, 22-24=-157/33

BOT CHORD 42-43=-117/131, 41-42=-117/131,

40-41=-117/131, 39-40=-117/131, 37-39=-117/131, 36-37=-117/131, 35-36=-117/131, 34-35=-117/131, 33-34=-76/106, 31-33=-76/106,

30-31=-76/106, 29-30=-77/108, 28-29=-77/108, 27-28=-77/108, 26-27=-77/108, 25-26=-77/108,

24-25=-77/108

15-30=-113/59, 12-34=-179/32, 34-45=-135/68, 44-45=-134/70,

15-44=-112/63, 14-44=-71/29, 31-44=-48/30, 13-45=-55/39, 33-45=-54/38, 11-35=-42/8, 9-36=-121/36, 8-37=-140/104, 7-39=-131/76, 5-40=-132/62. 4-41=-130/54. 3-42=-148/88.

16-29=-125/100, 17-28=-135/78, 19-27=-131/62, 20-26=-132/54,

21-25=-135/87

NOTES

WEBS

FORCES

- 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) and C-C Exterior(2E) -0-11-6 to 2-2-8, Interior (1) 2-2-8 to 12-4-15, Exterior(2R) 12-4-15 to 16-11-15, Interior (1) 16-11-15 to 20-0-1, Exterior(2R) 20-0-1 to 24-7-1, Interior (1) 24-7-1 to 33-4-6 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=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0



October 15,2024

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

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	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	C1	Piggyback Base Structural Gable	1	1	Job Reference (optional)	l68913529

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:54 ID:00Cl97cLqcHQTdc9i48UwsyV?Wy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 2

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 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 2-0-0 oc.
- 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.
- 11) All bearings are assumed to be SP No.2.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 43, 31 lb uplift at joint 24, 74 lb uplift at joint 34, 207 lb uplift at joint 35, 46 lb uplift at joint 37, 36 lb uplift at joint 39, 40 lb uplift at joint 40, 25 lb uplift at joint 41, 85 lb uplift at joint 42, 48 lb uplift at joint 29, 36 lb uplift at joint 28, 40 lb uplift at joint 27, 25 lb uplift at joint 26, 83 lb uplift at joint 25 and 21 lb uplift at joint 30.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	C2	Piggyback Base	4	1	Job Reference (optional)	I68913530

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:54 ID:aNnJQnjUZgeZlfgAaJLvbyyV?ZO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

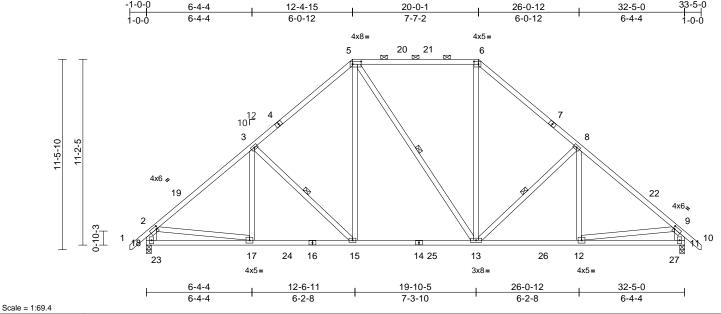


Plate Offsets (X, Y): [2:0-1-0,0-2-0], [5:0-6-4,0-2-0], [6:0-3-4,0-2-0], [9:0-1-0,0-2-0]

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	0.79	Vert(LL)	-0.13	13-15	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.22	13-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.04	11	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 224 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 5-6:2x4 SP No.1

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 15-5,13-6,5-13:2x4 SP

No.2, 18-2,11-9:2x8 SP 2400F 2.0E BRACING

TOP CHORD

TOP CHORD

WEBS

Structural wood sheathing directly applied or

4-0-3 oc purlins, except end verticals, and 2-0-0 oc purlins (4-3-4 max.): 5-6.

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

bracing.

1 Row at midpt 3-15, 8-13, 5-13

REACTIONS 11=0-3-8, 18=0-3-8 (size) Max Horiz 18=-231 (LC 11)

Max Grav 11=1483 (LC 30), 18=1489 (LC 29)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/60, 2-3=-1929/115, 3-5=-1620/194 5-6=-1189/202, 6-8=-1611/194,

8-9=-1922/114, 9-10=0/60, 2-18=-1560/138,

9-11=-1554/138

BOT CHORD 17-18=-217/455, 15-17=-21/1390,

13-15=0/1098, 12-13=0/1381, 11-12=-52/329

WEBS 3-17=0/178, 3-15=-414/122, 5-15=-1/585, 6-13=-1/566, 8-13=-415/122, 8-12=0/181,

2-17=0/1069, 9-12=0/1064, 5-13=-116/117

NOTES

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) and C-C Exterior(2E) -0-11-6 to 2-3-9, Interior (1) 2-3-9 to 12-4-15, Exterior(2R) 12-4-15 to 16-11-15, Interior (1) 16-11-15 to 20-0-1, Exterior(2R) 20-0-1 to 24-7-1, Interior (1) 24-7-1 to 33-4-6 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 3x5 MT20 unless otherwise indicated.
- * 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.
- All bearings are assumed to be SP No.2
- 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



October 15,2024



Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	D1	Attic Supported Gable	1	1	Job Reference (optional)	l68913531

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Tue Oct 15 11:28:55 ID:G8CEeYFKR9u5p?ZYFph0jCyV?3k-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

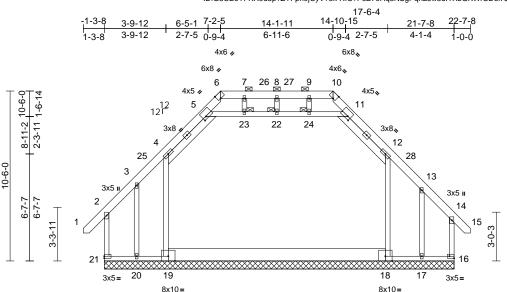


Plate Offsets (X, Y): [5:0-2-10,0-1-11], [6:0-2-2,Edge], [10:0-2-2,Edge], [11:0-2-7,0-2-0], [16:Edge,0-1-8]

3-11-8

3-11-8

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	0.60	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.00	16	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 214 lb	FT = 20%

17-4-8

13-5-0

LUMBER

TOP CHORD 2x6 SP No 2

BOT CHORD 2x4 SP No.2 *Except* 19-18:2x10 SP 2400F

2.0E

WEBS 2x4 SP No.3 *Except* 5-11:2x4 SP No.2

OTHERS 2x4 SP No.3

BRACING TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-10.

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

bracing.

JOINTS 1 Brace at Jt(s): 22, 23, 24

REACTIONS (size)

16=21-7-8, 17=21-7-8, 18=21-7-8, 19=21-7-8, 20=21-7-8, 21=21-7-8

Max Horiz 21=-229 (LC 11)

Max Uplift 16=-186 (LC 10), 17=-369 (LC 30),

20=-431 (LC 31), 21=-148 (LC 9) Max Grav 16=441 (LC 30), 17=106 (LC 12),

18=1162 (LC 32), 19=1208 (LC 33), 20=68 (LC 9), 21=429 (LC 31)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

2-21=-279/158, 1-2=0/65, 2-3=-221/131, 3-4=-53/229, 4-5=-431/171, 5-6=-853/0, 6-7=-914/0, 7-8=-914/0, 8-9=-914/0, 9-10=-914/0, 10-11=-853/0, 11-12=-430/180, 12-13=-98/238, 13-14=-253/165, 14-15=0/50,

14-16=-294/142

BOT CHORD 20-21=-119/134, 17-20=-123/134,

16-17=-113/128

WEBS 4-19=-783/0, 12-18=-764/0, 5-23=0/885, 22-23=0/885, 22-24=0/885, 11-24=0/885,

8-22=-40/33, 7-23=-6/83, 9-24=-7/82, 3-20=-9/238, 13-17=-31/215

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) and C-C Exterior(2E) -0-9-14 to 2-3-5. Interior (1) 2-3-5 to 7-5-13. Exterior(2R) 7-5-13 to 11-8-12, Interior (1) 11-8-12 to 14-5-3. Exterior(2R) 14-5-3 to 18-8-2. Interior (1) 18-8-2 to 22-8-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- 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 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.
- 12) Ceiling dead load (10.0 psf) on member(s). 4-5, 11-12, 5-23, 22-23, 22-24, 11-24
- 13) All bearings are assumed to be SP No.2.

14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 21, 186 lb uplift at joint 16, 431 lb uplift at joint 20 and 369 lb uplift at joint 17.

Page: 1

- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

21-7-8

4-3-0



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

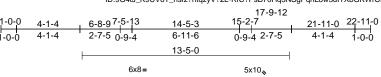
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	D2	Attic	5	1	Job Reference (optional)	l68913532

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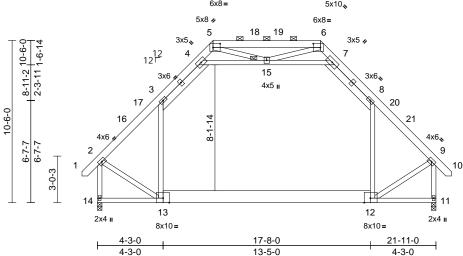


Plate Offsets (X, Y): [5:0-5-8,0-3-0], [6:0-5-8,0-3-0], [12:0-4-12,Edge], [13:0-4-12,Edge]

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	0.66	Vert(LL)	-0.31	12-13	>840	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.42	12-13	>611	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.00	11	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH		Attic	-0.26	12-13	>615	360		
BCDL	10.0										Weight: 221 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No 2

BOT CHORD 2x4 SP No.2 *Except* 13-12:2x10 SP 2400F

2.0E

WEBS 2x4 SP No.3 *Except* 4-7:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6

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

bracing.

JOINTS 1 Brace at Jt(s): 15

REACTIONS 11=0-3-8, 14=0-3-8 (size)

Max Horiz 14=231 (LC 12)

Max Grav 11=1412 (LC 3), 14=1412 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/52, 2-3=-1257/11, 3-4=-970/123,

> 4-5=-466/144, 5-6=-427/158, 6-7=-466/144, 7-8=-970/123, 8-9=-1257/11, 9-10=0/52,

2-14=-1554/14, 9-11=-1554/14

BOT CHORD 11-14=-237/820

WEBS 3-13=-92/434, 8-12=-92/434,

4-15=-1019/176, 7-15=-1019/176,

2-13=0/925, 9-12=0/926, 5-15=-53/348,

6-15=-53/348

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) and C-C Exterior(2E) -0-9-14 to 2-2-2, Interior (1) 2-2-2 to 7-5-13, Exterior(2R) 7-5-13 to 11-8-12, Interior (1) 11-8-12 to 14-5-3, Exterior(2R) 14-5-3 to 18-8-2, Interior (1) 18-8-2 to 22-8-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- * 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.
- Ceiling dead load (10.0 psf) on member(s). 3-4, 7-8, 4-15, 7-15
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-13
- All bearings are assumed to be SP No.2
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Attic room checked for L/360 deflection.

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.

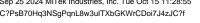
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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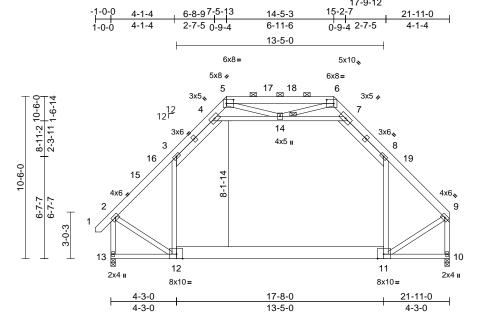


	Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
l	24100066-01	D3	Attic	4	1	Job Reference (optional)	l68913533

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Tue Oct 15 11:28:55 ID:StXyLBcCqt73sNiGN2DWo1yV?1z-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Page: 1



Scale = 1:74.6

Plate Offsets (X, Y): [5:0-5-8,0-3-0], [6:0-5-8,0-3-0], [11:0-4-12,Edge], [12:0-4-12,Edge]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.31	11-12	>840	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.42	11-12	>611	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH		Attic	-0.26	11-12	>615	360		
BCDL	10.0										Weight: 218 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No 2

BOT CHORD 2x4 SP No.2 *Except* 12-11:2x10 SP 2400F

2.0E

WEBS 2x4 SP No.3 *Except* 4-7:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-15 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.

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

bracing.

JOINTS 1 Brace at Jt(s): 14

REACTIONS 10=0-3-8, 13=0-3-8 (size)

Max Horiz 13=225 (LC 10)

Max Grav 10=1363 (LC 3), 13=1413 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/52, 2-3=-1258/9, 3-4=-973/120,

> 4-5=-465/147, 5-6=-425/161, 6-7=-463/144, 7-8=-971/122, 8-9=-1257/0, 2-13=-1557/11,

9-10=-1497/0

BOT CHORD 10-13=-231/828

WEBS 3-12=-92/434, 8-11=-95/432

4-14=-1027/168, 7-14=-1023/178,

2-12=0/929, 9-11=0/935, 5-14=-50/348,

6-14=-55/345

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) and C-C Exterior(2E) -0-9-14 to 2-2-2, Interior (1) 2-2-2 to 7-5-13, Exterior(2R) 7-5-13 to 11-8-12, Interior (1) 11-8-12 to 14-5-3, Exterior(2R) 14-5-3 to 18-8-2, Interior (1) 18-8-2 to 21-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- * 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.
- Ceiling dead load (10.0 psf) on member(s). 3-4, 7-8, 4-14, 7-14
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 11-12
- All bearings are assumed to be SP No.2
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Attic room checked for L/360 deflection.

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.

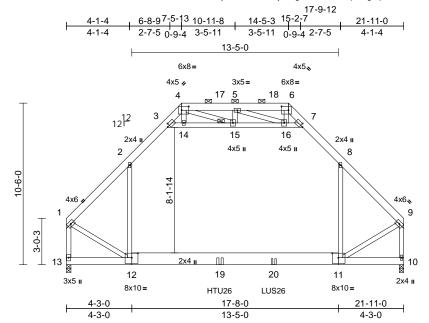
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	D4	Attic Girder	1	2	Job Reference (optional)	I68913534

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:55 ID:OXA8Lhr7MjWMelfw_X3z31yV?1g-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:74.9

Plate Offsets (X, Y): [3:0-1-13,0-2-0], [4:0-5-8,0-3-0], [6:0-5-8,0-3-0], [7:0-1-13,0-2-0], [11:0-4-12,0-3-8], [12:0-4-12,0-3-8]

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	0.50	Vert(LL)	-0.20	11-12	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.34	11-12	>770	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.01	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH		Attic	-0.18	11-12	>914	360		
BCDL	10.0										Weight: 408 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No 2

BOT CHORD 2x6 SP No.2 *Except* 12-11:2x10 SP 2400F

2.0E

WEBS 2x4 SP No.3 *Except* 3-7:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.

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

bracing.

JOINTS 1 Brace at Jt(s): 15

REACTIONS 10=0-3-8, 13=0-3-8 (size)

> Max Horiz 13=211 (LC 8) Max Grav 10=3285 (LC 17), 13=3120 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-2941/0, 2-3=-2610/2, 3-4=-2089/192

4-5=-3808/261, 5-6=-1862/333,

6-7=-2489/204. 7-8=-2767/3. 8-9=-3022/0.

1-13=-3444/0, 9-10=-3525/0

BOT CHORD 10-13=-220/2086

WEBS 3-14=-1018/91, 14-15=-986/94

15-16=-486/1914, 7-16=-651/88, 2-12=-2/393, 8-11=-32/350, 1-12=0/2426,

9-11=0/2462, 4-14=0/229, 4-15=-112/2674, 5-15=-917/81, 5-16=-2171/103, 6-16=-3/898

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- * 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.
- Ceiling dead load (10.0 psf) on member(s). 2-3, 7-8, 3-14, 14-15, 15-16, 7-16
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 11-12
- 10) All bearings are assumed to be SP No.2
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent at 9-11-12 from the left end to connect truss(es) to front face of bottom
- 13) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 13-5-12 from the left end to connect truss(es) to front face of bottom
- 14) Fill all nail holes where hanger is in contact with lumber.

- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1617 Ib down and 17 lb up at 9-11-12, and 1139 lb down and 12 lb up at 13-5-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-48, 2-3=-68, 3-4=-48, 4-6=-58, 6-7=-48, 7-8=-68, 8-9=-48, 12-13=-20, 11-12=-30, 10-11=-20, 3-14=-20, 14-15=-20, 15-16=-20, 7-16=-20

Concentrated Loads (lb)

Vert: 17=-859 (B), 18=-605 (B), 19=-839 (F), 20=-585



October 15,2024

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

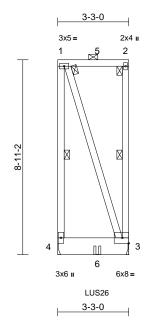
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Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	E1	Flat Girder	1	2	Job Reference (optional)	I68913535

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Page: 1



Scale = 1:52.8

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	0.79	Vert(LL)	0.00	3-4	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	3-4	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 107 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x10 SP 2400F 2.0E

2x4 SP No.3 WFBS

BRACING

TOP CHORD 2-0-0 oc purlins: 1-2. except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

WFRS 1 Row at midpt 1-4, 2-3

REACTIONS (size) 3= Mechanical, 4= Mechanical

Max Horiz 4=-229 (LC 7) Max Uplift 3=-392 (LC 6), 4=-378 (LC 5)

Max Grav 3=1322 (LC 20), 4=1062 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-4=-688/355, 1-2=-91/68, 2-3=-652/33 TOP CHORD

BOT CHORD 3-4=-206/182 WEBS 1-3=-345/345

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: 2x10 2 rows staggered 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.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding. * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 378 lb uplift at joint 4 and 392 lb uplift at joint 3.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or
- 10) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 1-9-12 from the left end to connect truss(es) to back face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1000 lb down and 23 lb up at 1-9-12 on top chord. 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: 1-2=-58. 3-4=-20

Concentrated Loads (lb)

Vert: 5=-987, 6=-611 (B)



October 15,2024

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Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	L1	Roof Special	1	1	Job Reference (optional)	l68913536

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:55 ID: vVTT4LmQ4i6qTaqPMsYJLYyTVmh-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ffraction and the property of the

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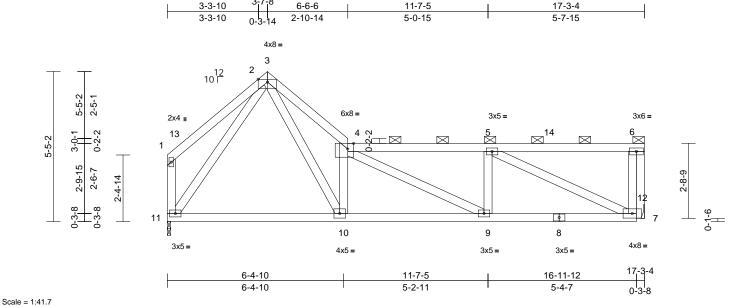


Plate Offsets (X, Y): [4:0-2-9,Edge]

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	0.59	Vert(LL)	-0.07	9-10	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.13	9-10	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.03	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 104 lb	FT = 20%

LUMBER

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

BRACING

FORCES

TOP CHORD Structural wood sheathing directly applied or

4-7-11 oc purlins, except end verticals, and 2-0-0 oc purlins (4-3-9 max.): 4-6.

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

REACTIONS (size) 11=0-1-8, 12= Mechanical

Max Horiz 11=-100 (LC 13) Max Uplift 12=-7 (LC 16)

Max Grav 11=682 (LC 2), 12=859 (LC 43) (lb) - Maximum Compression/Maximum

TOP CHORD

Tension

1-2=-153/127, 2-3=-643/99, 3-4=-1630/187,

4-5=-1397/99, 5-6=-177/10, 6-7=-15/644,

1-11=-166/108

BOT CHORD 10-11=-49/395, 9-10=-109/1270, 7-9=-99/1394

WEBS

2-11=-660/51, 4-10=-1357/166,

3-10=-104/1674, 5-9=0/170, 4-9=-130/195,

5-7=-1359/98, 6-12=-870/54

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) and C-C Exterior(2E) 2-0-3 to 8-4-14, Interior (1) 8-4-14 to 18-8-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- * 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.
- Bearings are assumed to be: Joint 11 SP No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

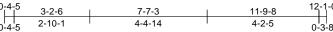
LOAD CASE(S) Standard



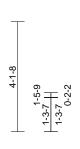
October 15,2024

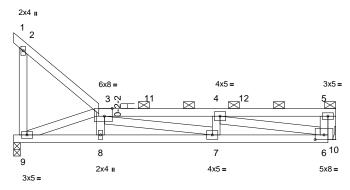
Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	L2	Roof Special	1	1	Job Reference (optional)	I68913537

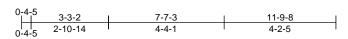
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12 110







Scale = 1:43.2

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

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	0.53	Vert(LL)	-0.09	7-8	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.14	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.03	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 62 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except 2-0-0 oc purlins (3-7-9 max.): 3-5.

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

bracing

REACTIONS (size) 9=0-3-0, 10= Mechanical

Max Horiz 9=-70 (LC 16)

Max Uplift 9=-26 (LC 16) Max Grav 9=521 (LC 22), 10=605 (LC 39)

(lb) - Maximum Compression/Maximum FORCES

Tension

TOP CHORD 1-2=-22/0, 2-3=-98/74, 3-4=-1838/99,

4-5=-293/28

BOT CHORD 8-9=0/1242, 7-8=0/1248, 6-7=-98/1835

2-9=-163/91, 3-8=0/87, 3-9=-1323/82,

5-6=0/424, 4-7=-56/92, 3-7=-138/603,

4-6=-1591/72, 5-10=-669/48

NOTES

WEBS

- 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) and C-C Exterior(2E) 0-0-0 to 3-2-6, Interior (1) 3-2-6 to 11-7-12 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0

- 4) Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding
- * 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.
- Bearings are assumed to be: Joint 9 SP No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint
- 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

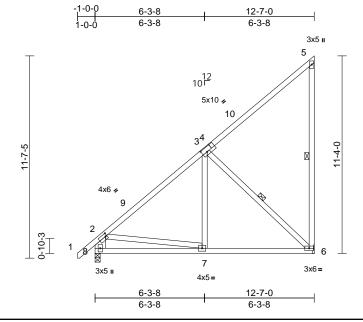


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October 15,2024

Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	M1	Jack-Closed	1	1	Job Reference (optional)	l68913538

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Scale = 1:66.1

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

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	0.86	Vert(LL)	0.05	6-7	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.08	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0			1							Weight: 92 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3 *Except* 8-2:2x8 SP 2400F

2.0E, 5-6:2x4 SP No.2 BRACING

TOP CHORD Structural wood sheathing directly applied or

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

BOT CHORD Rigid ceiling directly applied or 7-1-12 oc

bracing. WFBS

1 Row at midpt 5-6, 3-6 REACTIONS 6= Mechanical, 8=0-3-8 (size)

Max Horiz 8=328 (LC 10)

Max Uplift 6=-105 (LC 10)

Max Grav 6=536 (LC 29), 8=564 (LC 2) **FORCES** (lb) - Maximum Compression/Maximum

Tension TOP CHORD

2-8=-587/157, 1-2=0/60, 2-3=-586/109, 3-5=-276/220, 5-6=-243/226

7-8=-662/584, 6-7=-294/464

BOT CHORD 3-7=0/167, 3-6=-491/240, 2-7=-169/371

WEBS NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) 1) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-6 to 2-0-10, Interior (1) 2-0-10 to 12-5-4 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

- 4) * 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.
- Bearings are assumed to be: Joint 8 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 105 lb uplift at joint

LOAD CASE(S) Standard



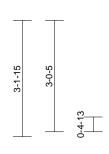


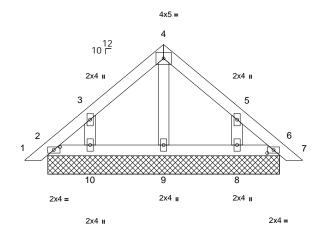
Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	PB1	Piggyback	2	1	Job Reference (optional)	I68913539

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Page: 1







6-3-11

Scale = 1:31.4

Plate Offsets (X, Y): [2:0-2-1,0-1-0], [6:0-2-1,0-1-0]

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	15	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 30 lb	FT = 20%

LUMBER

2x4 SP No.2 TOP CHORD **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 10-0-0 oc

bracing.

2=6-3-11, 6=6-3-11, 8=6-3-11, **REACTIONS** (size)

9=6-3-11, 10=6-3-11, 11=6-3-11,

15=6-3-11

Max Horiz 2=54 (LC 12), 11=54 (LC 12)

Max Uplift 2=-9 (LC 9), 8=-43 (LC 14), 10=-43 (LC 13), 11=-9 (LC 9)

Max Grav 2=67 (LC 30), 6=65 (LC 2), 8=159

(LC 30), 9=109 (LC 2), 10=159 (LC

29), 11=67 (LC 30), 15=65 (LC 2)

(lb) - Maximum Compression/Maximum **FORCES**

Tension TOP CHORD

1-2=0/19, 2-3=-59/42, 3-4=-85/79, 4-5=-85/78, 5-6=-58/35, 6-7=0/19

BOT CHORD 2-10=-29/73, 9-10=-29/73, 8-9=-29/73,

6-8=-29/73

4-9=-67/0, 3-10=-177/177, 5-8=-177/176

WEBS 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) and C-C Exterior(2E) 0-2-14 to 3-2-14, Interior (1) 3-2-14 to 3-9-9, Exterior(2R) 3-9-9 to 6-7-8, Interior (1) 6-7-8 to 7-4-4 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=1.33

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing
- Gable studs spaced at 2-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 2, 43 lb uplift at joint 10, 43 lb uplift at joint 8 and 9 lb uplift at joint 2.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



October 15,2024

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

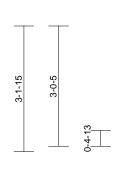
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

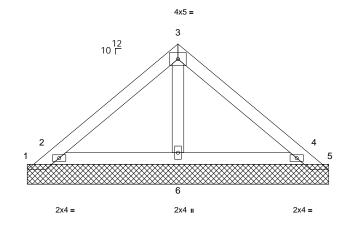


Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	PB2	Piggyback	22	1	Job Reference (optional)	168913540

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6-3-11

Scale = 1:29

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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	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: 28 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

6-0-0 oc purlins.

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

bracing.

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

6=7-7-2, 7=7-7-2, 10=7-7-2

Max Horiz 1=-56 (LC 9)

Max Uplift 1=-202 (LC 29), 2=-78 (LC 13), 4=-69 (LC 14), 5=-169 (LC 30),

7=-78 (LC 13), 10=-69 (LC 14)

Max Grav 1=73 (LC 13), 2=397 (LC 29),

4=363 (LC 30), 5=55 (LC 14), 6=169 (LC 2), 7=397 (LC 29),

10=363 (LC 30)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-132/181, 2-3=-125/96, 3-4=-125/95,

4-5=-115/159 BOT CHORD 2-6=-68/67, 4-6=-68/72

WFBS 3-6=-84/8

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) and C-C Exterior(2E) 0-2-14 to 3-2-14, Interior (1) 3-2-14 to 3-9-9, Exterior(2R) 3-9-9 to 6-7-8, Interior (1) 6-7-8 to 7-4-4 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=1.33

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 2, 69 lb uplift at joint 4, 202 lb uplift at joint 1, 169 lb uplift at joint 5, 78 lb uplift at joint 2 and 69 lb uplift at joint 4.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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October 15,2024

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

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

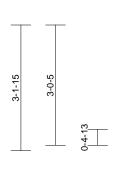


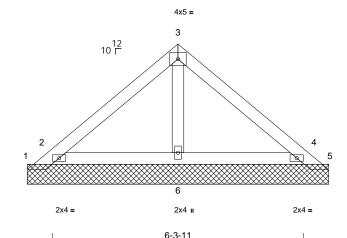
Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	PB3	Piggyback	1	2	Job Reference (optional)	l68913541

Run: 8,73 S Sep 25 2024 Print: 8,730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:56

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Scale = 1:29

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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 55 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

6-0-0 oc purlins.

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

bracing.

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

6=7-7-2, 7=7-7-2, 10=7-7-2

Max Horiz 1=-56 (LC 11)

Max Uplift 1=-192 (LC 29), 2=-76 (LC 13), 4=-67 (LC 14), 5=-160 (LC 30),

7=-76 (LC 13), 10=-67 (LC 14)

Max Grav 1=71 (LC 13), 2=385 (LC 29),

4=352 (LC 30), 5=52 (LC 14), 6=174 (LC 2), 7=385 (LC 29),

10=352 (LC 30)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-126/175, 2-3=-122/90, 3-4=-123/89,

4-5=-110/152 BOT CHORD

2-6=-71/74, 4-6=-71/80

WFBS 3-6=-87/9

NOTES

- 2-ply truss to be connected together as follows: Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected with 10d (0.131"x3") nails 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 3) 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) and C-C Exterior(2E) 0-2-14 to 3-2-14, Interior (1) 3-2-14 to 3-9-9, Exterior(2R) 3-9-9 to 6-7-8, Interior (1) 6-7-8 to 7-4-4 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=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 2, 67 lb uplift at joint 4, 192 lb uplift at joint 1, 160 lb uplift at joint 5, 76 lb uplift at joint 2 and 67 lb uplift at joint 4.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



October 15,2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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)

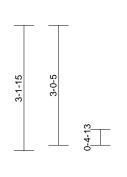


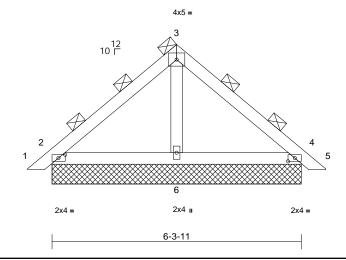
Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	PB4	Piggyback	1	2	Job Reference (optional)	l68913542

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Page: 1







Scale = 1:29.1

Plate Offsets (X, Y): [2:0-2-1,0-1-0], [4:0-2-1,0-1-0]

Loading	(psf)	Spacing	3-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 55 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.)

(Switched from sheeted: Spacing > 2-8-0). **BOT CHORD**

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=6-3-11, 4=6-3-11, 6=6-3-11, 7=6-3-11, 11=6-3-11

Max Horiz 2=-83 (LC 11), 7=-83 (LC 11)

Max Uplift 2=-13 (LC 13), 4=-21 (LC 14),

7=-13 (LC 13), 11=-21 (LC 14)

Max Grav 2=269 (LC 2), 4=269 (LC 2), 6=291

(LC 2), 7=269 (LC 2), 11=269 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/29, 2-3=-220/148, 3-4=-220/146,

4-5=0/29

BOT CHORD 2-6=-44/108, 4-6=-39/114

3-6=-105/0 WEBS

NOTES

TOP CHORD

- 2-ply truss to be connected together as follows: Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected with 10d (0.131"x3") nails 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 this design.

- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-2-14 to 3-2-14, Interior (1) 3-2-14 to 3-9-9, Exterior(2R) 3-9-9 to 6-7-8, Interior (1) 6-7-8 to 7-4-4 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=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.2 .
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 2, 21 lb uplift at joint 4, 13 lb uplift at joint 2 and 21 lb uplift at joint 4.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 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



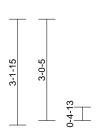
October 15,2024

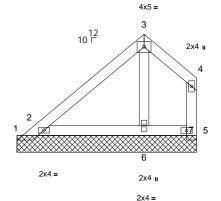
Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	PB5	Piggyback	1	1	Job Reference (optional)	I68913543

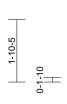
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4-5-1

Scale = 1:34.4

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	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 23 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

5-4-5 oc purlins, except end verticals.

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

bracing.

REACTIONS (size)

1=5-4-5, 2=5-4-5, 5=5-4-5, 6=5-4-5,

7=5-4-5, 8=5-4-5 Max Horiz 1=74 (LC 12)

Max Uplift

1=-211 (LC 29), 2=-75 (LC 13), 5=-21 (LC 9), 8=-75 (LC 13)

1=77 (LC 10), 2=378 (LC 29), 5=58 Max Grav

(LC 30), 6=188 (LC 29), 8=378 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-329/272, 2-3=-172/142, 3-4=-65/85,

5-7=0/0. 4-5=-80/84

BOT CHORD 2-6=-90/62, 5-6=-37/40

WEBS 3-6=-147/86

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) and C-C Exterior(2E) 0-2-14 to 3-2-14, Interior (1) 3-2-14 to 3-9-9, Exterior(2E) 3-9-9 to 5-2-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Bearing at joint(s) 2, 5, 1, 7, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 2, 21 lb uplift at joint 5, 211 lb uplift at joint 1 and 75 lb uplift at joint 2.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



October 15,2024

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

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

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

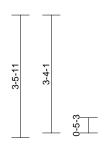


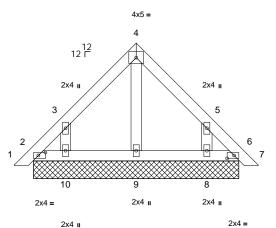
Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	PB6	Piggyback	1	1	Job Reference (optional)	I68913544

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Page: 1







5-9-12

Scale = 1:32.6

Plate Offsets (X, Y): [2:0-2-6,0-1-0], [6:0-2-6,0-1-0]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	I/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/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	14	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 29 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 10-0-0 oc

bracing.

REACTIONS (size)

2=5-9-12, 6=5-9-12, 8=5-9-12, 9=5-9-12, 10=5-9-12, 11=5-9-12,

14=5-9-12

Max Horiz 2=59 (LC 12), 11=59 (LC 12) Max Uplift 2=-17 (LC 9), 6=-8 (LC 10), 8=-59

(LC 14), 10=-60 (LC 13), 11=-17

(LC 9), 14=-8 (LC 10)

Max Grav 2=62 (LC 30), 6=54 (LC 29), 8=160

(LC 30), 9=103 (LC 2), 10=161 (LC 29), 11=62 (LC 30), 14=54 (LC 29)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/18, 2-3=-131/55, 3-4=-91/74,

4-5=-91/88, 5-6=-90/57, 6-7=0/18

BOT CHORD 2-10=-37/84, 9-10=-37/84, 8-9=-37/84,

6-8=-37/84

4-9=-60/0, 3-10=-194/260, 5-8=-195/205

WEBS NOTES

TOP CHORD

- 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) 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=1.33

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.: Ce=0.9: Cs=1.00: Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 2, 8 lb uplift at joint 6, 60 lb uplift at joint 10, 59 lb uplift at joint 8, 17 lb uplift at joint 2 and 8 lb uplift at joint 6.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



October 15,2024

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

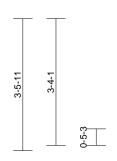
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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)

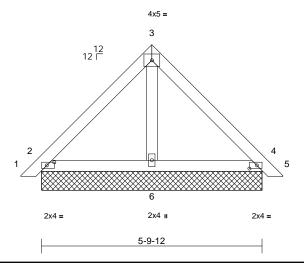


Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	PB7	Piggyback	10	1	Job Reference (optional)	l68913545

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Scale = 1:30.4

Plate Offsets (X, Y): [2:0-2-6,0-1-0], [4:0-2-6,0-1-0]

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	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 27 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 10-0-0 oc

bracing.

REACTIONS (size) 2=5-9-12, 4=5-9-12, 6=5-9-12,

7=5-9-12, 10=5-9-12 Max Horiz 2=61 (LC 12), 7=61 (LC 12)

Max Uplift 2=-8 (LC 14), 4=-11 (LC 14), 7=-8 (LC 14), 10=-11 (LC 14)

2=171 (LC 2), 4=171 (LC 2), 6=165 Max Grav (LC 2), 7=171 (LC 2), 10=171 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/19, 2-3=-152/103, 3-4=-153/126,

4-5=0/19

BOT CHORD 2-6=-56/64, 4-6=-33/68

WEBS 3-6=-50/3

NOTES

TOP CHORD

- 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) 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=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 2, 11 lb uplift at joint 4, 8 lb uplift at joint 2 and 11 lb uplift at ioint 4.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



Page: 1

October 15,2024

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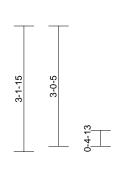


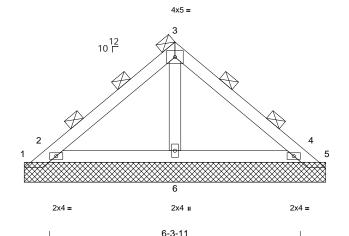
Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	PB8	Piggyback	1	2	Job Reference (optional)	I68913546

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Page: 1







Scale = 1:29

Loading	(psf)	Spacing	2-10-0	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/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	NO	WB	0.01	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 55 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.)

(Switched from sheeted: Spacing > 2-8-0). **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

1=7-7-2, 2=7-7-2, 4=7-7-2, 5=7-7-2, 6=7-7-2, 7=7-7-2, 10=7-7-2

Max Horiz 1=-79 (LC 9)

Max Uplift 1=-272 (LC 29), 2=-107 (LC 13), 4=-95 (LC 14), 5=-227 (LC 30),

7=-107 (LC 13), 10=-95 (LC 14)

Max Grav 1=101 (LC 13), 2=546 (LC 29), 4=499 (LC 30), 5=74 (LC 14),

6=246 (LC 2), 7=546 (LC 29),

10=499 (LC 30)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-168/248, 2-3=-171/124, 3-4=-171/122,

4-5=-144/211

BOT CHORD 2-6=-98/97, 4-6=-98/105

WFBS 3-6=-123/11

NOTES

- 2-ply truss to be connected together as follows: Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected with 10d (0.131"x3") nails 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.

- 3) 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) and C-C Exterior(2E) 0-2-14 to 3-2-14, Interior (1) 3-2-14 to 3-9-9, Exterior(2R) 3-9-9 to 6-7-8, Interior (1) 6-7-8 to 7-4-4 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=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 2, 95 lb uplift at joint 4, 272 lb uplift at joint 1, 227 lb uplift at joint 5, 107 lb uplift at joint 2 and 95 lb uplift at joint 4.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



October 15,2024

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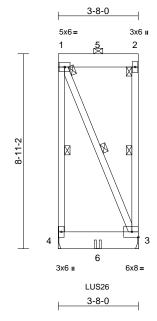
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	R1	Flat Girder	1	1	Job Reference (optional)	I68913547

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Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	0.00	3-4	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	3-4	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 60 lb	FT = 20%

LUMBER

TOP CHORD 2x8 SP 2400F 2.0E 2x10 SP 2400F 2.0E **BOT CHORD** 2x4 SP No.3 WFBS

BRACING

2-0-0 oc purlins: 1-2, except end verticals. TOP CHORD **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

WFRS 1 Row at midpt 1-4, 2-3, 1-3

REACTIONS (size) 3= Mechanical, 4= Mechanical

Max Horiz 4=-218 (LC 5) Max Uplift 3=-237 (LC 6), 4=-236 (LC 5)

Max Grav 3=1195 (LC 20), 4=1163 (LC 21) (lb) - Maximum Compression/Maximum

Tension

1-4=-868/197, 1-2=-87/64, 2-3=-751/0 TOP CHORD

BOT CHORD 3-4=-196/173 WEBS 1-3=-287/287

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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 236 lb uplift at joint 4 and 237 lb uplift at joint 3.

- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 1-9-12 from the left end to connect truss(es) to back face of bottom chord.
- 9) Fill all nail holes where hanger is in contact with lumber. 10) 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: 1-2=-56, 3-4=-19 Concentrated Loads (lb) Vert: 5=-1258, 6=-388 (B)



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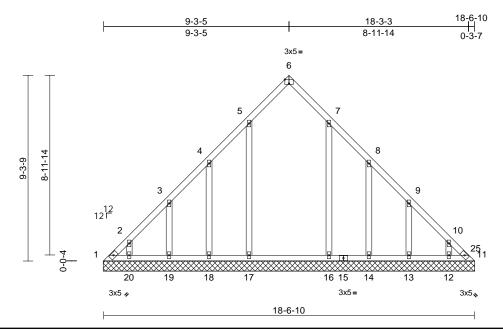
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	VL1	Valley	1	1	Job Reference (optional)	I68913548

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Plate Offsets	(X,	Y):	[6:0-2-8,Edge]
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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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.01	11	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 110 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 10-0-0 oc

bracing.

REACTIONS (size) 1=18-7-2, 11=18-7-2, 12=18-7-2, 13=18-7-2, 14=18-7-2, 16=18-7-2,

17=18-7-2, 18=18-7-2, 19=18-7-2, 20=18-7-2

Max Horiz 1=165 (LC 10)

Max Uplift 1=-52 (LC 11), 11=-37 (LC 12), 13=-59 (LC 14), 14=-63 (LC 14),

16=-25 (LC 14), 17=-28 (LC 13), 18=-63 (LC 13), 19=-57 (LC 13)

Max Grav 1=135 (LC 13), 11=127 (LC 14), 12=161 (LC 29), 13=214 (LC 29), 14=162 (LC 29), 16=296 (LC 29),

17=300 (LC 28), 18=160 (LC 28), 19=212 (LC 28), 20=181 (LC 28)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-370/154, 2-3=-297/123, 3-4=-173/65,

4-5=-123/35, 5-6=-121/55, 6-7=-121/55, 7-8=-118/28, 8-9=-174/65, 9-10=-297/123,

10-11=-368/154

BOT CHORD 1-20=-111/285, 19-20=-111/285,

18-19=-111/285, 17-18=-111/285, 16-17=-111/285, 14-16=-111/285,

13-14=-111/285, 12-13=-111/285, 11-12=-111/285

WEBS

5-17=-157/113, 4-18=-155/141, 3-19=-160/152, 2-20=-125/96, 7-16=-157/113, 8-14=-155/141, 9-13=-160/152, 10-12=-124/94

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) and C-C Corner (3E) 0-0-0 to 3-3-9, Exterior(2N) 3-3-9 to 9-3-9, Corner (3R) 9-3-9 to 12-3-9, Exterior(2N) 12-3-9 to 18-2-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 1, 37 lb uplift at joint 11, 28 lb uplift at joint 17, 63 lb uplift at joint 18, 57 lb uplift at joint 19, 25 lb uplift at joint 16, 63 lb uplift at joint 14 and 59 lb uplift at joint 13.

11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 11.

LOAD CASE(S) Standard



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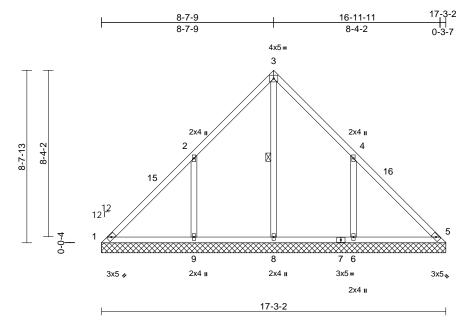
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Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	VL2	Valley	1	1	Job Reference (optional)	168913549

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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	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horiz(TL)	0.00	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 85 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.

WFBS 1 Row at midpt

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

8=17-3-2, 9=17-3-2, 14=17-3-2

Max Horiz 1=158 (LC 10)

Max Uplift 1=-82 (LC 9), 6=-132 (LC 14), 9=-137 (LC 13)

1=100 (LC 12), 5=1 (LC 29), 6=536 Max Grav

(LC 29), 8=682 (LC 28), 9=538 (LC

28), 14=1 (LC 29)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-127/393, 2-3=-34/315, 3-4=-34/299,

4-5=-310/320

BOT CHORD 1-9=-188/130, 8-9=-188/130, 6-8=-188/130,

5-6=-188/130 WEBS

3-8=-499/0 2-9=-377/330 4-6=-376/330

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) and C-C Corner (3E) 0-0-4 to 3-0-4, Exterior(2N) 3-0-4 to 8-7-13, Corner (3R) 8-7-13 to 11-7-13, Exterior(2N) 11-7-13 to 16-11-6 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=1.33

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

 * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 1, 137 lb uplift at joint 9 and 132 lb uplift at joint 6.

LOAD CASE(S) Standard



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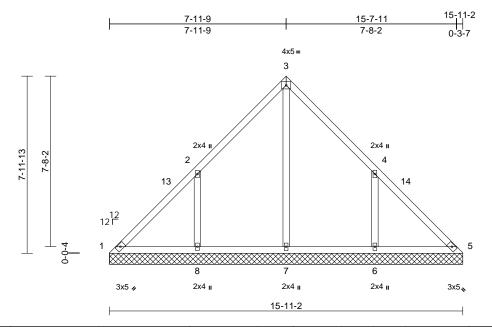
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Jol)	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24	100066-01	VL3	Valley	1	1	Job Reference (optional)	I68913550

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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)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.28	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 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

10-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=15-11-2, 5=15-11-2, 6=15-11-2, 7=15-11-2, 8=15-11-2

Max Horiz 1=-146 (LC 9)

Max Uplift 1=-24 (LC 9), 6=-118 (LC 14),

8=-121 (LC 13)

Max Grav 1=139 (LC 29), 5=114 (LC 28), 6=498 (LC 29), 7=444 (LC 28),

8=501 (LC 28)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-160/198, 2-3=-81/134, 3-4=-81/134,

4-5=-153/169

1-8=-105/195, 7-8=-105/195, 6-7=-105/195,

BOT CHORD 5-6=-105/195

3-7=-253/0. 2-8=-353/319. 4-6=-353/319

WEBS 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) and C-C Corner (3E) 0-0-4 to 3-0-4, Exterior(2N) 3-0-4 to 7-11-13, Corner(3R) 7-11-13 to 10-11-13, Exterior(2N) 10-11-13 to 15-11-6 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=1.33

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing
- Gable studs spaced at 4-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 1, 121 lb uplift at joint 8 and 118 lb uplift at joint 6.

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.

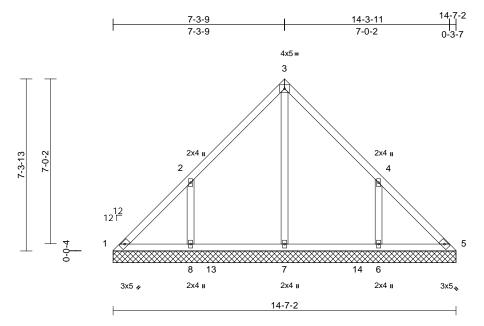
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/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	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	VL4	Valley	1	1	Job Reference (optional)	l68913551

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:57 ID: 91dCmtHnsDc2wu?wPbo92myV?hi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ffc2PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJCAPsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJCAPsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJCAPsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJCAPsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJCAPsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zQAPsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zQAPsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zQAPsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7dAPsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7dAPsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7dAPsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7dAPsB70Hq3NSgPqnWrCDoi7dAPsB70Hq4Wq04APsB70Hq4Wq04APsB70Hq4Wq04APsB70Hq4Wq04APsB70Hq4Wq04APsB70Hq4Wq04APsB70Hq4Wq04APsB70Hq4Wq04APsB70Hq4Wq04APsB70Hq4Wq04APsB70Hq4Wq04APsB70Hq4Wq04APsB70Hq4Wq04APsB70Hq4Wq04APsB70Hq4Wq04APsB70Hq4W

Page: 1



Scale	e = 1	: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	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0			1							Weight: 69 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

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=14-7-2, 5=14-7-2, 6=14-7-2,

7=14-7-2, 8=14-7-2 Max Horiz 1=-134 (LC 9)

Max Uplift 1=-25 (LC 9), 6=-108 (LC 14),

8=-110 (LC 13)

Max Grav 1=136 (LC 29), 5=113 (LC 28),

6=444 (LC 29), 7=398 (LC 28),

8=448 (LC 28)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-152/143, 2-3=-126/147, 3-4=-126/148,

4-5=-136/114

1-8=-73/168, 7-8=-73/168, 6-7=-73/168,

5-6=-73/168 WEBS

3-7=-205/0, 2-8=-334/322, 4-6=-334/322

NOTES

BOT CHORD

- 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) and C-C Corner (3E) 0-0-4 to 3-3-13, Exterior(2N) 3-3-13 to 7-3-13, Corner(3R) 7-3-13 to 10-3-13, Exterior(2N) 10-3-13 to 14-7-6 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=1.33

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing
- Gable studs spaced at 4-0-0 oc.

 * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 1, 110 lb uplift at joint 8 and 108 lb uplift at joint 6.

LOAD CASE(S) Standard

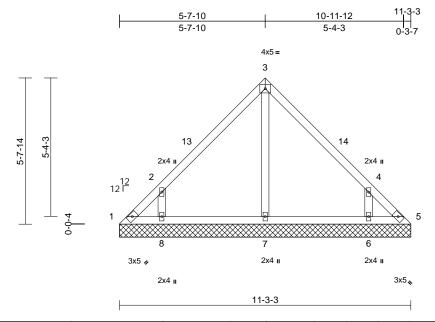


October 15,2024

Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	VL5	Valley	1	1	Job Reference (optional)	I68913552

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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	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 50 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

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=11-3-3, 5=11-3-3, 6=11-3-3, 7=11-3-3, 8=11-3-3

Max Horiz 1=102 (LC 10)

1=-45 (LC 11), 5=-19 (LC 12), Max Uplift

6=-91 (LC 14), 8=-95 (LC 13)

1=82 (LC 29), 5=63 (LC 28), 6=320 Max Grav (LC 29), 7=215 (LC 2), 8=325 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-177/103, 2-3=-185/154, 3-4=-185/153,

4-5=-169/75

1-8=-35/108, 7-8=-28/108, 6-7=-28/108,

BOT CHORD 5-6=-35/108

3-7=-128/0. 2-8=-351/396. 4-6=-351/396

WEBS 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) and C-C Corner (3E) 0-0-4 to 3-0-4, Exterior(2N) 3-0-4 to 5-7-14, Corner (3R) 5-7-14 to 8-7-14, Exterior(2N) 8-7-14 to 11-3-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 1, 19 lb uplift at joint 5, 95 lb uplift at joint 8 and 91 lb uplift at joint 6.

LOAD CASE(S) Standard



October 15,2024

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

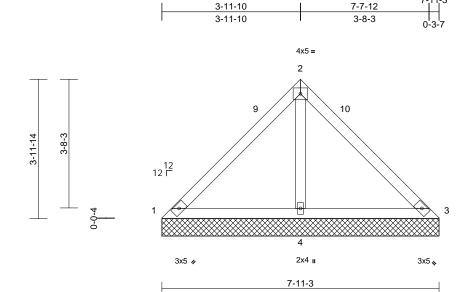
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	VL6	Valley	1	1	Job Reference (optional)	I68913553

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Page: 1



Scale	=	1:33

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	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.28	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 32 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

7-11-3 oc purlins.

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

bracing.

REACTIONS (size) 1=7-11-3, 3=7-11-3, 4=7-11-3

Max Horiz 1=-71 (LC 9)

Max Uplift 1=-13 (LC 35), 3=-13 (LC 34),

4=-37 (LC 13)

1=66 (LC 34), 3=66 (LC 35), 4=563 Max Grav

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-179/247, 2-3=-167/247

BOT CHORD 1-4=-195/268, 3-4=-195/268 2-4=-500/354

WEBS 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) and C-C Corner (3E) 0-0-4 to 3-0-4, Exterior(2N) 3-0-4 to 3-11-14, Corner(3R) 3-11-14 to 7-3-4, Exterior(2N) 7-3-4 to 7-11-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 1, 13 lb uplift at joint 3 and 37 lb uplift at joint 4.

LOAD CASE(S) Standard



October 15,2024



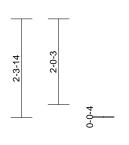
Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	VL7	Valley	1	1	Job Reference (optional)	I68913554

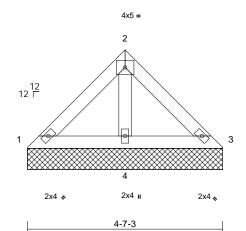
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77 BOYV W DOIGH E ZGOZY V FITT-INIO FI BOYV HQUINOG FI QUIEDWOULT A DOIN W DE DUI 3-230

Page: 1







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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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0	ļ		1							Weight: 18 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

4-7-3 oc purlins.

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

bracing.

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

Max Horiz 1=40 (LC 10) Max Uplift 4=-5 (LC 13)

Max Grav 1=61 (LC 34), 3=61 (LC 35), 4=265

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-51/76, 2-3=-51/76

BOT CHORD 1-4=-73/132, 3-4=-73/132

WEBS 2-4=-190/143

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) and C-C Corner (3E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 5) Gable requires continuous bottom chord bearing.

- 6) Gable studs spaced at 4-0-0 oc.
- 7) * 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.
- 8) All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 4.

LOAD CASE(S) Standard

SEAL 036322

VGINEER A. GILBERT

RENCO

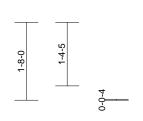
A MITER Affiliate

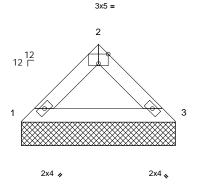
Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	VL8	Valley	1	1	Job Reference (optional)	I68913555

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Page: 1







3-3-8

Scale = 1:24.6

Plate Offsets (X, Y): [2:0-2-8,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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 11 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-3-8 oc purlins.

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

bracing.

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

Max Horiz 1=27 (LC 12)

Max Grav 1=132 (LC 2), 3=132 (LC 2) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=-183/110, 2-3=-183/110

TOP CHORD BOT CHORD 1-3=-58/120

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) and C-C Corner (3E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- 7) * 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.
- All bearings are assumed to be SP No.2.

LOAD CASE(S) Standard

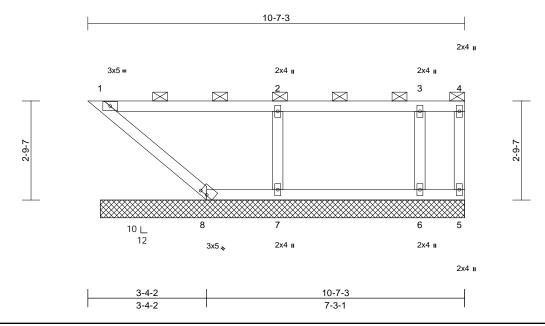




Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	VL9	Valley	1	1	Job Reference (optional)	l68913556

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Page: 1



Scale = 1:32.4

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

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	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.21	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 42 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD 2-0-0 oc purlins (10-0-0 max.): 1-4. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing, Except: 6-0-0 oc bracing: 1-8.

REACTIONS (size) 1=10-3-0, 5=10-3-0, 6=10-3-0,

7=10-3-0, 8=10-3-0

Max Uplift 1=-7 (LC 11), 5=-20 (LC 2), 7=-20

(LC 11)

1=135 (LC 2), 5=-3 (LC 11), 6=252 Max Grav (LC 2), 7=349 (LC 2), 8=92 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-63/45, 2-3=0/0, 3-4=0/0

BOT CHORD 1-8=-130/142, 7-8=0/0, 6-7=0/0, 5-6=0/0 WEBS 2-7=-296/334, 3-6=-176/208, 4-5=-12/9

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) and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0

- 4) Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 4-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1, 20 lb uplift at joint 5 and 20 lb uplift at joint 7.
- 11) Non Standard bearing condition. Review required.
- 12) 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



October 15,2024

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

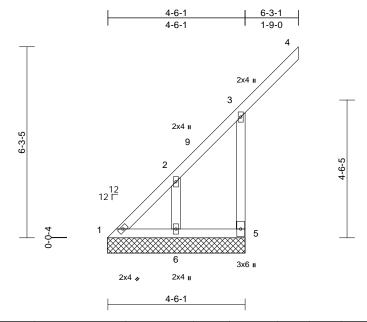
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	VL10	Valley	1	1	Job Reference (optional)	l68913557

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Tue Oct 15 11:28:58 ID:X6wkwJsJH9CFWII25gjGxEyTVp9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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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	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 27 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

> 4-6-5 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing.

BOT CHORD REACTIONS (size)

1=4-6-5, 5=4-6-5, 6=4-6-5

Max Horiz 1=177 (LC 10)

Max Uplift 1=-19 (LC 9), 5=-176 (LC 10),

6=-20 (LC 13)

Max Grav 1=126 (LC 30), 5=253 (LC 19),

6=159 (LC 29)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-523/160, 2-3=-453/109, 3-4=-101/0,

3-5=-257/547 BOT CHORD 1-6=-140/110. 5-6=-70/76

WEBS 2-6=-196/78

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) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 6-3-5 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=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing
- Gable studs spaced at 4-0-0 oc. 6)
- * 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 176 lb uplift at joint 5, 19 lb uplift at joint 1 and 20 lb uplift at joint 6.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.

LOAD CASE(S) Standard



October 15,2024

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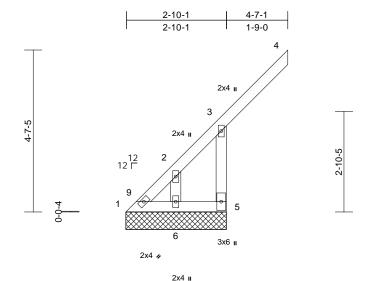
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/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	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	VL11	Valley	1	1	Job Reference (optional)	I68913558

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Tue Oct 15 11:28:58 ID:X6wkwJsJH9CFWII25gjGxEyTVp9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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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	0.43	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0			1							Weight: 18 lb	FT = 20%

2-10-1

ш	M	IR	F	R

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

2-10-5 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing

BOT CHORD REACTIONS (size)

1=2-10-5, 5=2-10-5, 6=2-10-5

Max Horiz 1=128 (LC 10)

1=-9 (LC 9), 5=-194 (LC 10), 6=-79 Max Uplift (LC 19)

Max Grav 1=87 (LC 30), 5=289 (LC 19), 6=96

(LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-388/79, 2-3=-491/135, 3-4=-101/0,

3-5=-317/628 BOT CHORD 1-6=-145/63. 5-6=-41/44

WEBS 2-6=-158/144

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) and C-C Exterior(2E) 0-0-0 to 2-8-9, Interior (1) 2-8-9 to 4-7-5 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=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing
- Gable studs spaced at 4-0-0 oc. 6)
- * 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 194 lb uplift at joint 5, 9 lb uplift at joint 1 and 79 lb uplift at joint 6.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.

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.

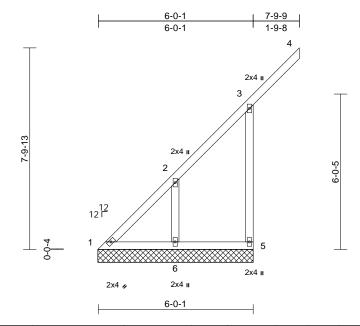
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Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH				
24100066-01	VL12	Valley	1	1	Job Reference (optional)	I68913559			

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Tue Oct 15 11:28:58 ID:NLOiSclksuXlOgPGRC2cxryTVo?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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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	0.55	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0			1							Weight: 36 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

BOT CHORD bracing.

REACTIONS (size)

1=6-0-5, 5=6-0-5, 6=6-0-5

Max Horiz 1=222 (LC 10)

Max Uplift 1=-26 (LC 9), 5=-179 (LC 10),

6=-54 (LC 13)

Max Grav 1=163 (LC 30), 5=268 (LC 29),

6=257 (LC 29)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-402/269, 2-3=-286/117, 3-4=-103/0, TOP CHORD

3-5=-302/281 BOT CHORD 1-6=-131/166, 5-6=-95/103

WFBS 2-6=-333/137

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) and C-C Exterior(2E) 0-0-0 to 3-0-1, Interior (1) 3-0-1 to 7-9-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing
- Gable studs spaced at 4-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 5, 26 lb uplift at joint 1 and 54 lb uplift at joint 6.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.

LOAD CASE(S) Standard

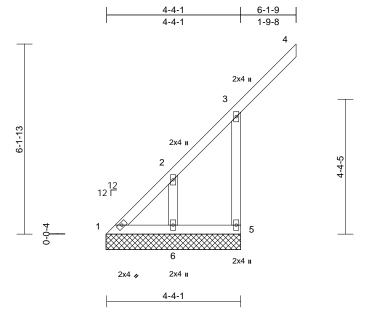


October 15,2024

Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	VL13	Valley	1	1	Job Reference (optional)	I68913560

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:58 ID:0NbpOvhb1MvTHvWlefSREnyTVo4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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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	0.35	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 27 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

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

> 4-4-5 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

1=4-4-5, 5=4-4-5, 6=4-4-5

Max Horiz 1=173 (LC 10)

Max Uplift 1=-18 (LC 9), 5=-181 (LC 10),

6=-14 (LC 13)

Max Grav 1=123 (LC 30), 5=261 (LC 19),

6=144 (LC 29)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-300/171, 2-3=-251/125, 3-4=-103/0, TOP CHORD

3-5=-324/263

BOT CHORD 1-6=-102/111, 5-6=-67/73

WEBS 2-6=-265/66

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) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 6-1-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc. 6)
- * 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 181 lb uplift at joint 5, 18 lb uplift at joint 1 and 14 lb uplift at joint 6.
- 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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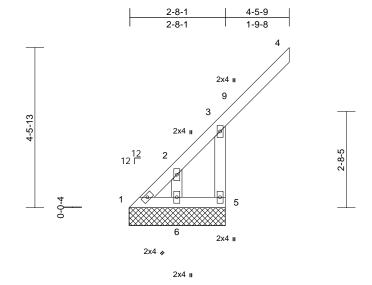
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Job	Truss	Truss Type	Qty	Ply	14 Overhills Creek-Roof-1 BNS GRH	
24100066-01	VL14	Valley	1	1	Job Reference (optional)	I68913561

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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	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 17 lb	FT = 20%

2-8-1

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

> 2-8-5 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing.

BOT CHORD REACTIONS (size)

1=2-8-5, 5=2-8-5, 6=2-8-5

Max Horiz 1=125 (LC 10)

Max Uplift 1=-8 (LC 9), 5=-204 (LC 10), 6=-99

(LC 19)

1=84 (LC 30), 5=305 (LC 19), Max Grav

6=109 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-185/79, 2-3=-231/184, 3-4=-103/0, TOP CHORD 1-6=-76/58 5-6=-38/41

3-5=-386/263 BOT CHORD

WFBS 2-6=-215/166

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) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 4-5-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing
- Gable studs spaced at 4-0-0 oc. 6)
- * 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 204 lb uplift at joint 5, 8 lb uplift at joint 1 and 99 lb uplift at joint 6.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.

LOAD CASE(S) Standard



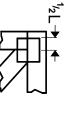
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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/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)

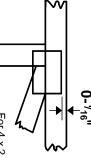


Symbols

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- $\frac{1}{16}$ from outside edge of truss.

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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

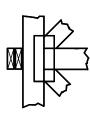
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

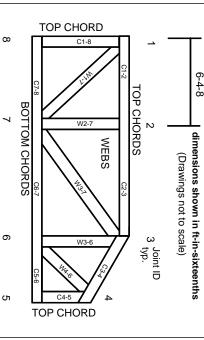
Industry Standards:

ANSI/TPI1: DSB-22:

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.

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



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.

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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.

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- 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.

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- 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.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.