ELEVATION NOTES:
GRADE ELEVATIONS SHOWN DO NOT NECESSARILY REFER TO THIS OR ANY OTHER LOT. THEY ARE FOR DIAGRAMMATIC PURPOSES ONLY AND MAY VARY. BUILDER IS RESPONSIBLE FOR ADAPTING THIS PLAN TO SUIT THE EXISTING TOPOGRAPHY OF THE SITE.

ROOF VENTILATION TO BE DETERMINED BY BUILDER AS PER CODE.

ALL EGRESS OR RESCUE WINDOWS FROM SLEEPING ROOMS MUST HAVE A MIN. NET CLEAR OPENING OF 4.0 SQ FT. THE MIN NET CLEAR OPENING HEIGHT DIMENSION SHALL BE 22". THE MIN NET CLEAR OPENING WIDTH SHALL BE 20".

EACH EGRESS WINDOW FROM SLEEPING ROOMS MUST HAVE A SILL HGHT OF NO MORE THAN 44" FROM THE FLOOR. ALL WINDOW SIZES ARE NOMINAL AND ARE TO BE VERIFIED WITH MANUFACTURER FOR AVAILABILITY AND CONFORMITY TO STATE AND LOCAL CODE REQUIREMENTS.

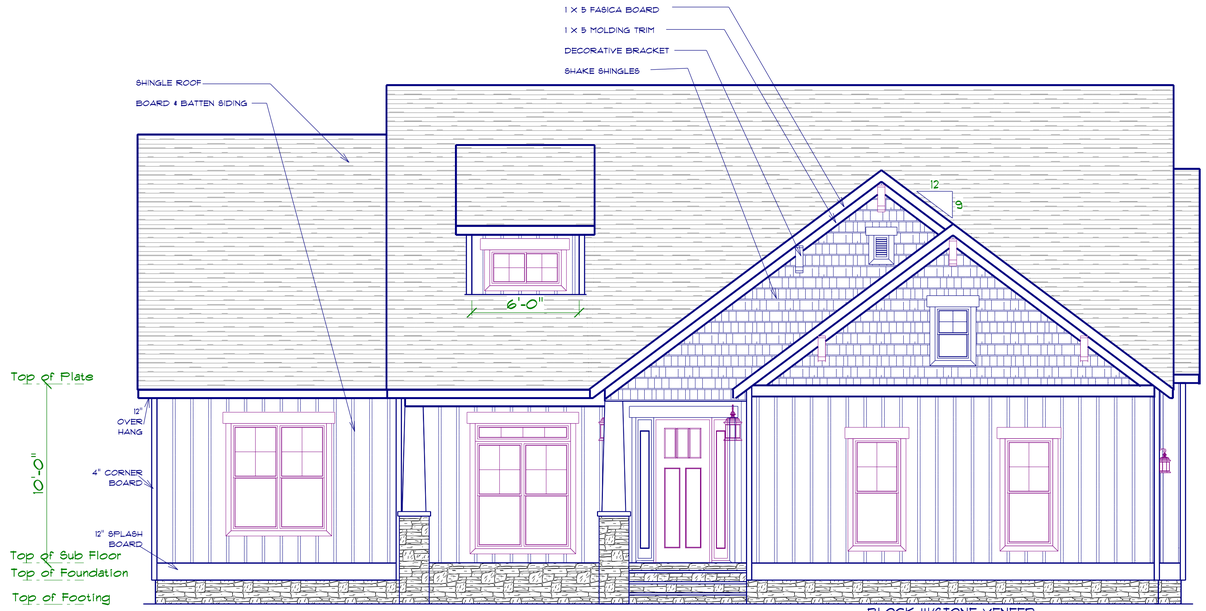
PORCHES, BALCONIES, OR RAISED FLOOR SURFACES LOCATED MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW SHALL HAVE GUARDRAILS NOT LESS THAN 32" IN HEIGHT.

I ASSUME NO RESPONSIBILITY FOR ANY DISTANCES AFTER START OF CONSTRUCTION.
CONTRACTOR/BUILDER SHALL CONSULT WITH HOME OWNER ON ALL INTERIOR AND EXTERIOR MOLDINGS, TRIMS, COLORS, FINISHES, CABINET LAYOUTS, AND MANUFACTORS BEFORE CONSTRUCTION BEGINS.
ALL BEAMS AND FRAMING MEMBERS ARE SIZED BY OTHERS.

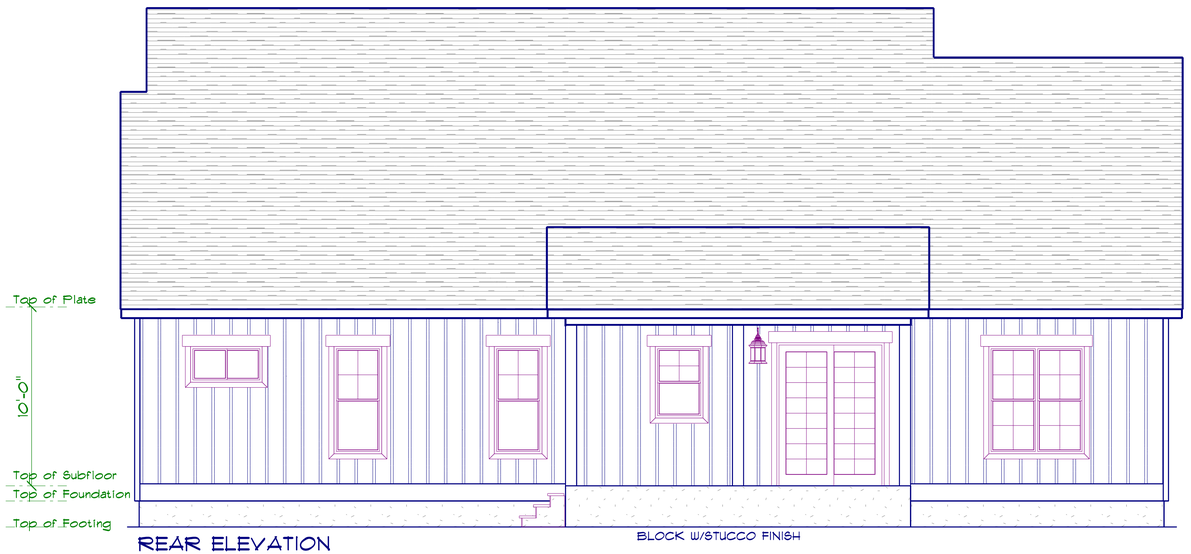
It is the sole responsibility of the Contractor and/or Builder to conform to all standards, provisions, requirements, methods of construction and uses of materials provided in buildings and/or structures as required by NC Uniform Building Code, Local Agencies and in accordance with good engineering practices. Verify all dimensions prior to construction.

This plan has been drawn to comply with the 2012 NC Building Code

RIGHT ELEVATION
SCALE: 1"= 1/4"



FRONT ELEVATION
SCALE: 1"= 1/4"



REAR ELEVATION
SCALE: "= 1/4"

NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

APPROVED
Limited building only review
Permit holder responsible for full compliance with the code

10/06/2020

Harnett COUNTY NORTH CAROLINA

PAGE #: 1A

Diane Rivas Designs
6205 Mockingbird Lane
Sanford, N.C. 27332
919-777-6071
DRD

SCALE: 1/4"= 1'
DRAWN BY:
DATE: 1/17/2019

HARRINGTON PROPERTIES OF NC, LLC
2639 SAN LEE DRIVE
SANFORD, NC 27330

CUSTOM HOUSE PLAN FOR:
WILLIAM RICHARDSON

ELEVATIONS

TYPICAL WALL: 8" BLOCK W/ 16" X 10" FOOTING
3- 2 X 10'S GIRDER
2 X 10'S 16" OC JOIST
2- 2 X 10'S DBL JOIST

FOUNDATION NOTES:
ALL FOOTINGS SHALL BEAR ON ORIGINAL UNDISTURBED SOIL.
THE 28 DAY COMPRESSIVE STRENGTH OF ALL FOOTINGS IS 3000 PSI

PROVIDE WATER PROOFING AND PERIMETER DRAINS AS REQUIRED.

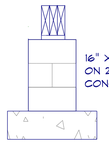
FOUNDATION CONCRETE MIX TO HAVE 1-1/2" MAX AGGREGATE SIZE. CONCRETE FILL MIX TO HAVE 1/2" MAX AGGREGATE SIZE.

FOOTING WIDTHS ARE BASED ON A LOAD-BEARING SOIL CAPACITY OF 2000 PSI.

PROVIDE 6 MIL POLY VAPOR BARRIER TO COVER GROUND SURFACE IN CRAWL SPACE

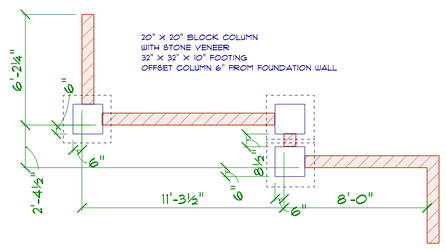
ALL ANCHOR BOLTS TO BE 12" LONG, 1/2" DIA. A36 UNO ANCHOR BOLTS SHALL BE SPACE AT A MAX OF 6' OC AND NO MORE THAN 1' FROM EA CORNER.

Termite Soil Treatment: Treat entire slab area soil or crawl space surface before vapor barrier is installed and slab is poured with a state approved termiticide. Termiticide should be applied by a licensed and certified pest control professional by the state of North Carolina.

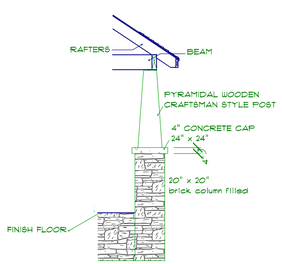


CONCRETE BLOCK PIER DETAIL

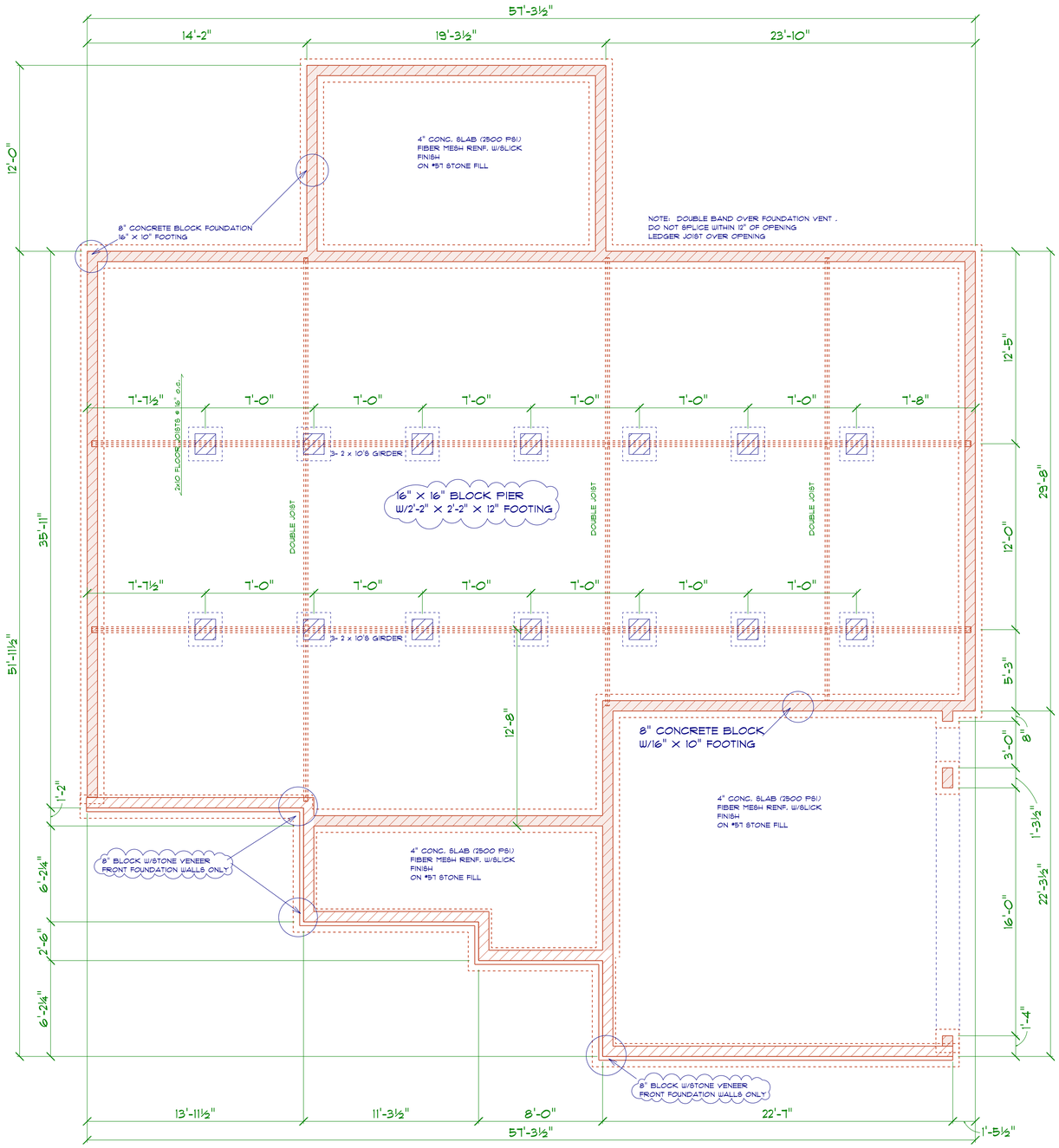
Footing & Foundation Detail not to scale



PORCH COLUMN PLACEMENT



CRAFTSMAN COLUMN DETAIL



FOUNDATION PLAN
SCALE: 1" = 1/4"

PAGE #: 2A

Diane Rivas Designs
6295 Mayfield Lane
Sanford, N.C. 27332
919-777-6091

DRD

SCALE: 1/4" = 1'
DRAWN BY:
DATE: 1/17/2019

HARRINGTON PROPERTIES OF NC, LLC
2659 SAN LEE DRIVE
SANFORD, NC 27330

CUSTOM HOUSE PLAN FOR:
WILLIAM RICHARDSON

FOUNDATION PLAN

GENERAL FRAMING NOTES:

ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED

FRAMING LUMBER SHALL BE SYP #2 GRADE AND/OR SPRUCE PINE FIR #1 AND/OR #2, KILN DRIED.

WHERE PRE-ENGINEERED JOISTS ARE USED, JOIST MANUFACTURER SHALL PROVIDE SHOP DRAWINGS, WHICH BEAR SEAL OF A N.C. ENGINEER.

STUDS AND JOISTS SHALL NOT BE CUT TO INSTALL PLUMBING OR WIRING WITHOUT ADDING METAL OR WOOD SIDE PANELS TO STRENGTHEN THE MEMBER TO ITS ORIGINAL CAPACITY.

NAIL MULTIPLE MEMBERS WITH 2 ROWS OF 16d NAILS STAGGERED 32" OC AN USE 3-16d NAILS 2" IN AT EACH END. DOUBLE ALL STUDS UNDER ROOF POST DOUNS UNO.

NAIL FLOOR JOISTS TO SILL PLATE WITH 8d TOE NAILS.

ALL EXPOSED FRAMING ON PORCHES AND DECKS SHALL BE PRESSURE TREATED.

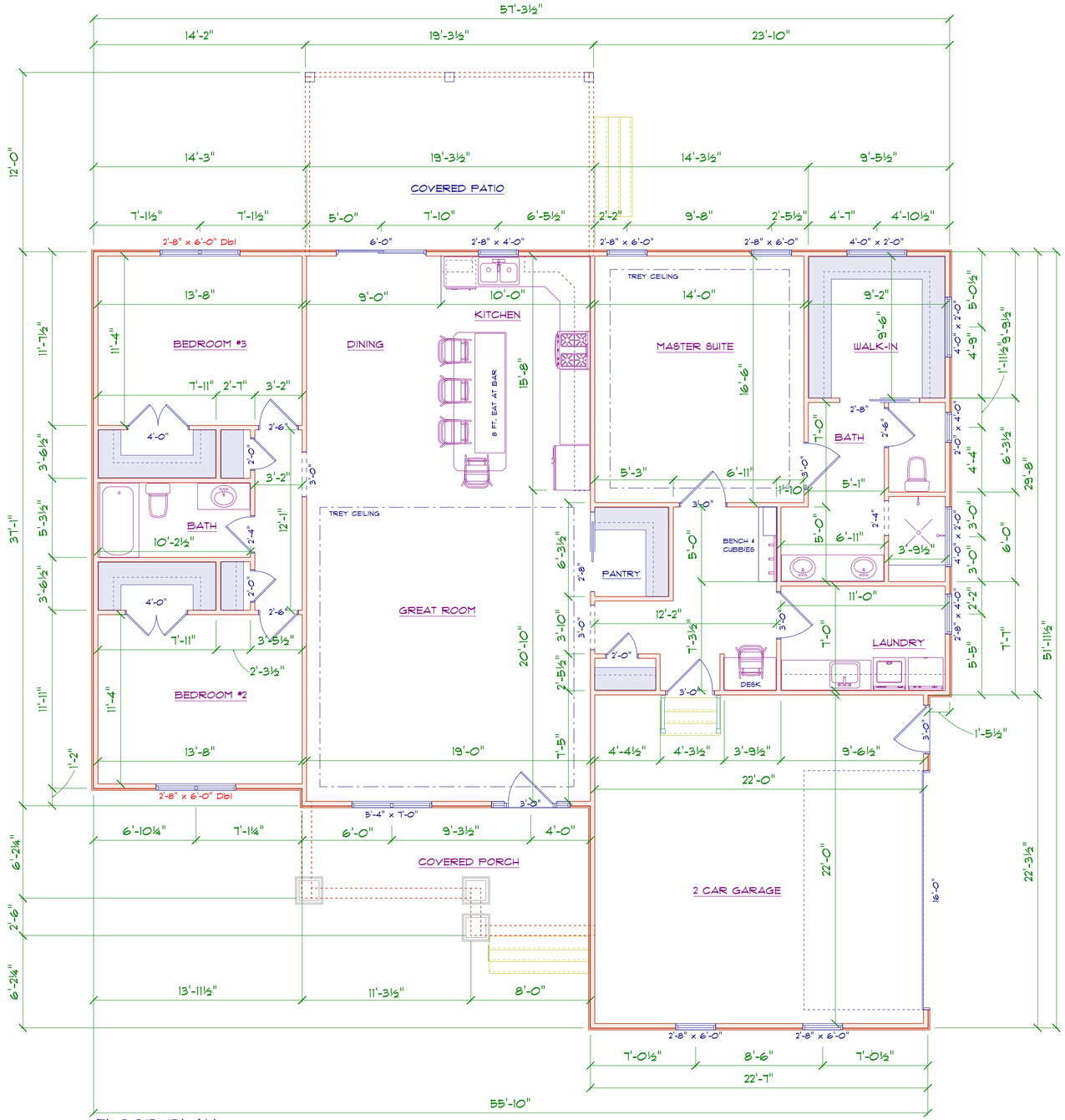
PROVIDE WATERPROOFING AND DRAINS AS REQUIRED.

ALL FRAMING TO BE 16" OC UNO. WALL FRAMING DIMENSIONS ARE BASED ON 2 X 4 STUDS UNO. DOUBLE STUDS UNDER ALL HEADERS.

LVL'S AND TJI'S TO BE SIZED BY OTHERS

EXTERIOR WALLS IN LIVING AREAS ARE 2 X 4

OPENING SCHEDULE				
SIZE	HINGE	COUNT	LIBRARY NAME	TYPE
3'-0"	L	1	Exterior Door\Colonial	DOOR
3'-0"	R	1	Exterior Door\Tall Exterior Door\Colonial	DOOR
6'-0"	RN	1	Exterior Door\Tall Exterior Door\Patio	SLIDING DOOR
16'-0"	U	1	Garage\Tall Garage	GARAGE
2'-0"	L	2	Interior Door\Colonial	DOOR
2'-0"	R	1	Interior Door\Colonial	DOOR
2'-4"	L	1	Interior Door\Colonial	DOOR
2'-6"	L	2	Interior Door\Colonial	DOOR
2'-6"	R	1	Interior Door\Colonial	DOOR
4'-0"	LR	2	Interior Door\Colonial	DOOR
2'-8"	N	2	Interior Door\Pocket	POCKET
3'-0"	L	2	Interior Door\Tall Interior Door\Colonial	DOOR
3'-0"	R	1	Interior Door\Tall Interior Door\Colonial	DOOR
1'-0" x 8'-0"	N	2	Manufacturer\Therma-Tru\American Style Collection	WINDOW
3'-0"	R	1	Manufacturer\Therma-Tru\American Style Collection	DOOR
2'-8" x 4'-0"	U	1	Window\Double Hung	WINDOW
2'-8" x 4'-0"	U	1	Window\Double Hung	WINDOW
2'-8" x 6'-0"	U	4	Window\Double Hung	WINDOW
2'-8" x 6'-0" Dbl	UU	1	Window\Double Hung	WINDOW
2'-8" x 6'-0" Dbl	UU	1	Window\Double Hung	WINDOW
2'-0" x 4'-0"	U	1	Window\Double Hung	WINDOW
2'-0" x 3'-0"	U	1	Window\Double Hung	WINDOW
5'-4" x 7'-0"	NA	1	Window\Double Hung	COMBINED UNIT
4'-0" x 2'-0"	NL	3	Window\Slider	WINDOW
4'-0" x 2'-0"	NL	1	Window\Slider	WINDOW



FLOOR PLAN

SCALE: 1"= 1/4"

AREA SCHEDULE	
NAME	AREA
Heated Floor Area	1951.9 sq ft.
Garage	511.8 sq ft.
Covered Porch	139.7 sq ft.
Covered Patio	229.1 sq ft.

Dana Rives Designs
6205 Mockingbird Lane
Sanford, N.C. 27332
919-777-6091
golfnuts@charter.net
DRD

SCALE: 1"= 1/4"

DRAWN BY:

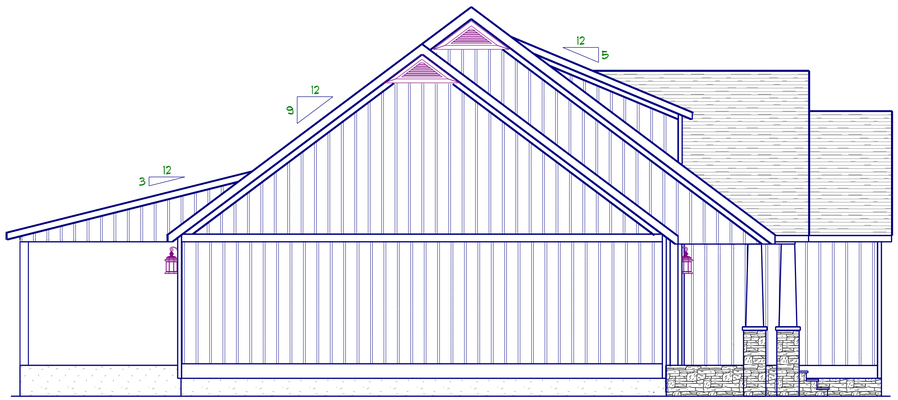
DATE: 1/17/2019

CUSTOM HOUSE PLAN FOR:
WILLIAM RICHARDSON

HARRINGTON PROPERTIES OF NC, LLC
2255 SAN LEE DRIVE
SANFORD, NC 27330

FLOOR PLAN

34



LEFT ELEVATION

SCALE: 1"= 3/16"

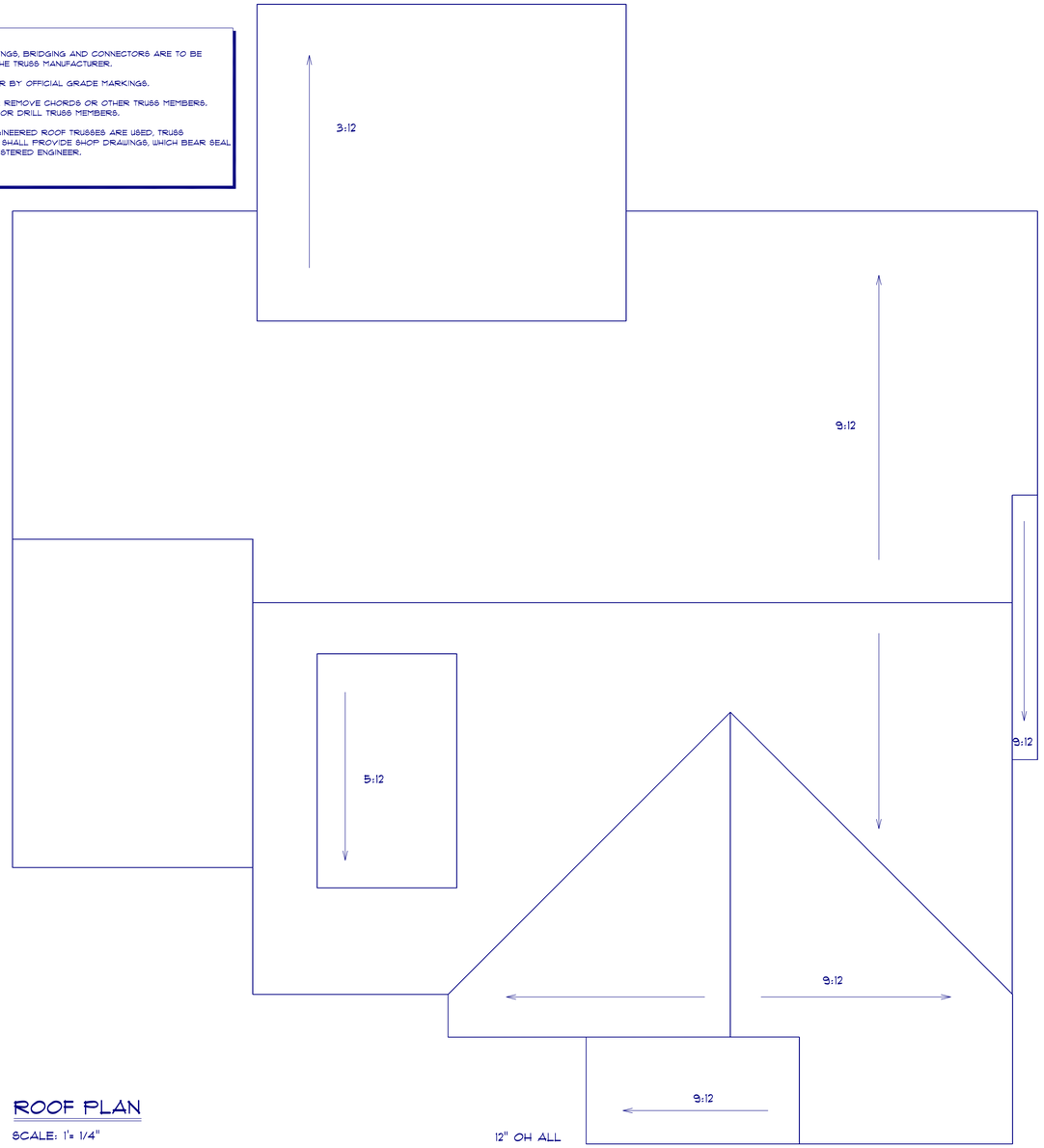
ROOF NOTES:

TRUSSES, BRACINGS, BRIDGING AND CONNECTORS ARE TO BE DESIGNED BY THE TRUSS MANUFACTURER.

IDENTIFY LUMBER BY OFFICIAL GRADE MARKINGS.

DO NOT CUT OR REMOVE CHORDS OR OTHER TRUSS MEMBERS. DO NOT NOTCH OR DRILL TRUSS MEMBERS.

WHERE PRE-ENGINEERED ROOF TRUSSES ARE USED, TRUSS MANUFACTURER SHALL PROVIDE SHOP DRAWINGS, WHICH BEAR SEAL OF A N. C. REGISTERED ENGINEER.



ROOF PLAN

SCALE: 1"= 1/4"

Diane Rives Designs
6205 Hockingbird Lane
Sanford, N.C. 27332
919-777-6091

PAGE #: 4

SCALE:

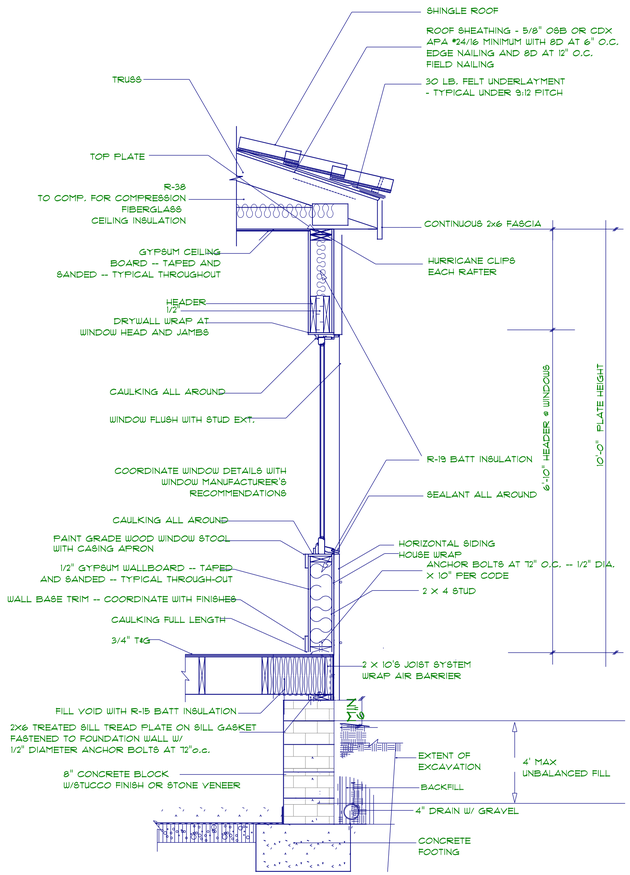
DRAWN BY:

DATE 1/17/2019

HARRINGTON PROPERTIES OF NC, LLC
2636 SAN LEE DRIVE
SANFORD, NC 27330

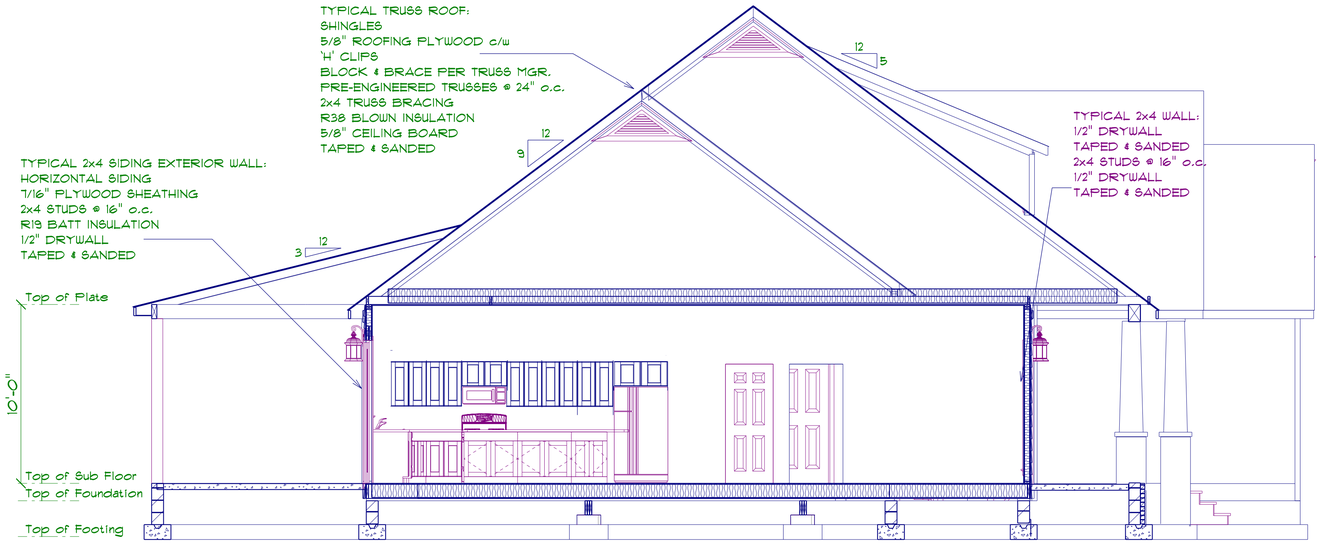
CUSTOM HOUSE PLAN FOR:
WILLIAM RICHARDSON

ELEVATION
ROOF PLAN



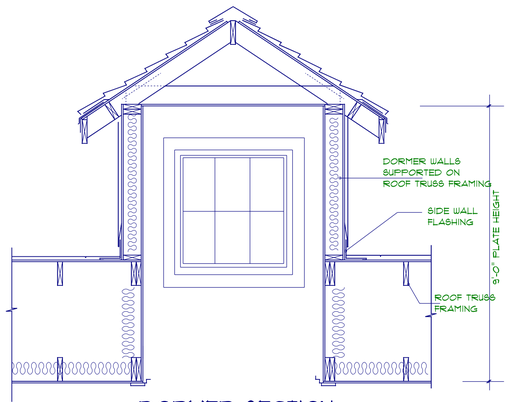
CRAWL SPACE FOUNDATION DETAIL

not to scale



SECTION A

SCALE: 1"= 1/4"



DORMER SECTION

PAGE #: S-A

Diane Rives Designs
6205 Mockingbird Lane
Sanford, N.C. 27332
919-777-6091
DRD

SCALE:
DRAWN BY:
DATE: 1/17/2019

HARRINGTON PROPERTIES OF NC, LLC
286 & 288 SAN LEE DRIVE
SANFORD, NC 27330

CUSTOM HOUSE PLAN FOR:
WILLIAM RICHARDSON

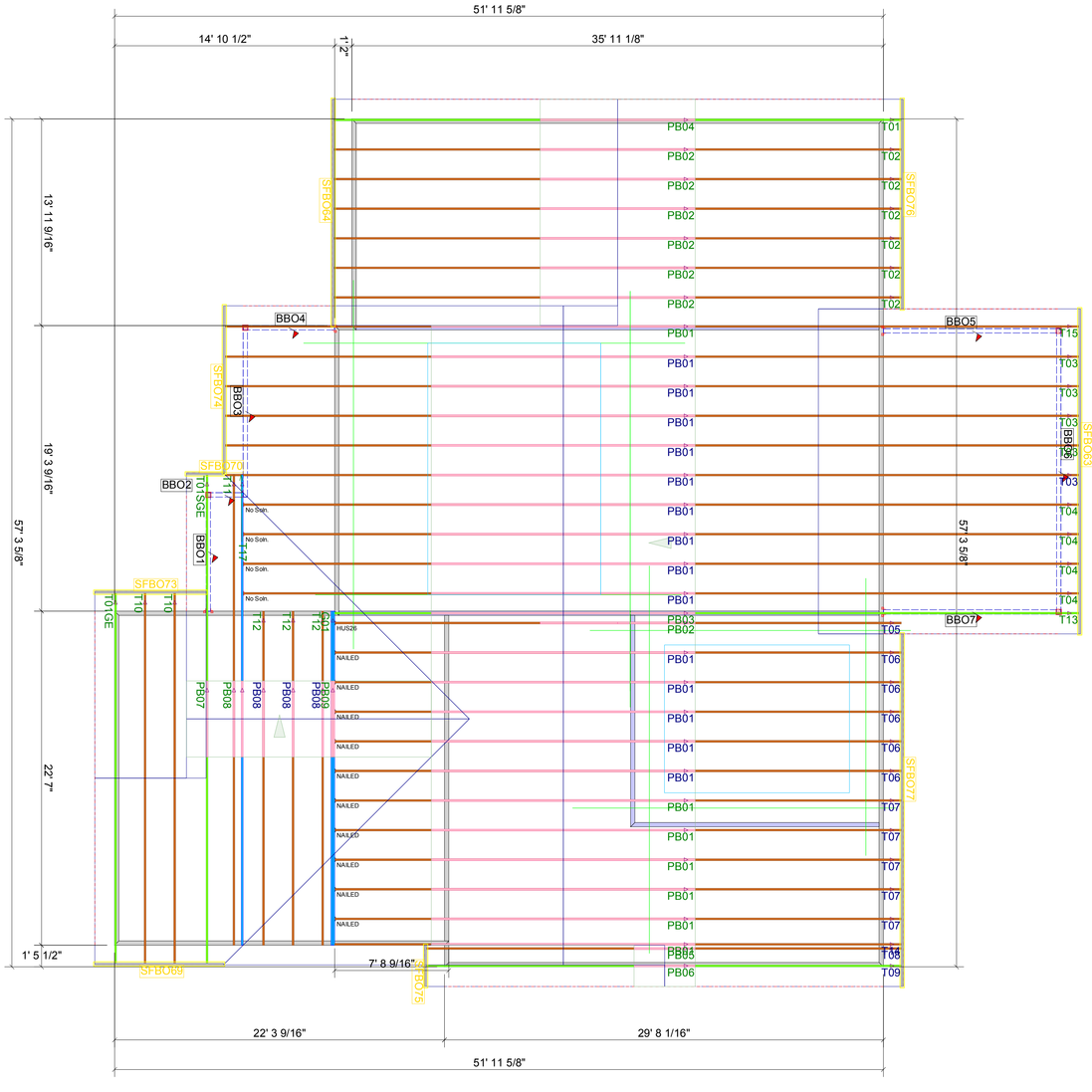
DETAIL SHEET

Floor Area: 0 SF
Floor Plywood: 0

Roof Area: 3914.57 SF
Roof Plywood: 90 sheets
Roof Shingles: 49 Squares

ROOF TRUSS LAYOUT

1/4" = 1'-0"



Client:	SERVICE BUILDING SUPPLY SANF		
Project:	RICHARDSON		
Model:			
Lot #:	Subdivision:		
Order #:	Designer:	Date:	
P20-04027		/ /	

LONGLEAF TRUSS CO.
4476 Hwy. 21 W
West End, NC 27376
(910) 673-4711

NOTE

IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER OR ARCHITECT TO PROVIDE AN APPROPRIATE CONNECTION FOR TRUSSES TO SUPPORTING STRUCTURE PERREACTIONS SHOWN ON TRUSS ENGINEERING. SPECIAL CONSIDERATIONS FOR MECHANICAL EQUIPMENT AND/OR PLUMBING (AND THEIR CONNECTIONS) IN TRUSS SPACE MUST BE DIAGRAMMED BY BUILDER ON APPROVED TRUSS LAYOUT PRIOR TO FABRICATION.

THIS COMPANY IS A TRUSS MANUFACTURER WHOSE RESPONSIBILITIES ARE LIMITED TO THOSE DESCRFIBED IN WTCA1-1995 "DESIGN RESPONSIBILITIES". ACCORDINGLY, IT DISCLAIMS ANY RESPONSIBILITIES AND/OR LIABILITY FOR THE CONSTRUCTION, DESIGN, DRAWINGS, DOCUMENTS INCLUDING THE INSTALLATION AND BRACING OF TRUSSES MANUFACTURED BY THIS COMPANY. SEE http://support.sbcindustry.com/pubs/TTBDResp-D

Double 1-3/4" x 16" VERSA-LAM® 1.7 2650 SP

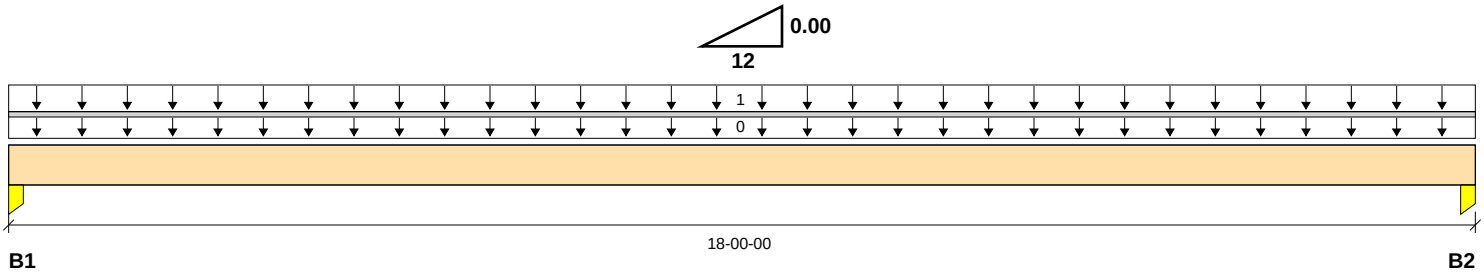
PASSED

RB01 (Roof Beam)

BC CALC® Member Report | Dry | 1 span | No cant. | October 1, 2020 14:56:03

Build 7787

Job name:	LOT 1	File name:	
Address:		Description:	
City, State, Zip:		Specifier:	
Customer:	SBS	Designer:	TOM WALKER
Code reports:	ESR-1040	Company:	LONGLEAF TRUSS COMPANY



Total Horizontal Product Length = 18-00-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 5-1/2"		1226 / 0	2160 / 0		2160 / 0
B2, 5-1/2"		1226 / 0	2160 / 0		2160 / 0

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 100%	Dead 90%	Snow 115%	Wind 160%	Roof Live 125%	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	18-00-00	Top		16				00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	18-00-00	Top		10	20		20	12-00-00

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	13926 ft-lbs	37.9%	115%	5	09-00-00
End Shear	2712 lbs	22.2%	115%	5	01-09-08
Total Load Deflection	L/565 (0.365")	31.9%	n\a	4	09-00-00
Live Load Deflection	L/886 (0.233")	27.1%	n\a	6	09-00-00
Max Defl.	0.365"	73.1%	n\a	4	09-00-00
Span / Depth	12.9				

Bearing Supports

		Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Column	5-1/2" x 3-1/2"	3386 lbs	21.3%	23.5%	Southern Pine
B2	Column	5-1/2" x 3-1/2"	3386 lbs	21.3%	23.5%	Southern Pine

Cautions

For roof members with slope (1/4)/12 or less final design must ensure that ponding instability will not occur.

For roof members with slope (1/2)/12 or less final design must account for Rain-on-Snow surcharge load.

Notes

Design meets Code minimum (L/180) Total load deflection criteria.
Design meets Code minimum (L/240) Live load deflection criteria.
Design meets arbitrary (0.5") Maximum Total load deflection criteria.
BC CALC® analysis is based on IBC 2009.
Design based on Dry Service Condition.
Calculations assume member is fully braced.

Double 1-3/4" x 16" VERSA-LAM® 1.7 2650 SP

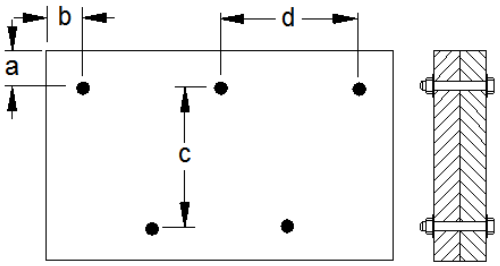
PASSED

RB01 (Roof Beam)

BC CALC® Member Report — Dry | 1 span | No cant. — October 1, 2020 14:56:03
Build 7787

Job name:	LOT 1	File name:	
Address:		Description:	
City, State, Zip:		Specifier:	
Customer:	SBS	Designer:	TOM WALKER
Code reports:	ESR-1040	Company:	LONGLEAF TRUSS COMPANY

Connection Diagram: Full Length of Member



a minimum = 2" c = 12"
b minimum = 2-1/2" d = 24"

Bolts are assumed to be Grade A307 or Grade 2 or higher.
Connectors are: 1/2 in. Staggered Through Bolt

Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

BC CALC®, BC FRAMER® , AJS™, ALLJOIST® , BC RIM BOARD™, BCI® , BOISE GLULAM™, BC FloorValue® , VERSA-LAM®, VERSA-RIM PLUS® ,

ENGINEERING BY TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

RE: P20-04027 - RICHARDSON

Site Information:
Project Customer: Project Name:
Lot/Block: Subdivision:
Model:
Address:
City: State:

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

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.3
Wind Code: N/A Wind Speed: 130 mph Design Method: User defined
Roof Load: 40.0 psf Floor Load: N/A psf

Mean Roof Height (feet): 12 Exposure Category: B

No.	Seal#	Truss Name	Date
1	E14419867	G01	5/19/20
2	E14419868	PB01	5/19/20
3	E14419869	PB02	5/19/20
4	E14419870	PB03	5/19/20
5	E14419871	PB04	5/19/20
6	E14419872	PB05	5/19/20
7	E14419873	PB06	5/19/20
8	E14419874	PB07	5/19/20
9	E14419875	PB08	5/19/20
10	E14419876	PB09	5/19/20
11	E14419877	T01	5/19/20
12	E14419878	T01GE	5/19/20
13	E14419879	T01SGE	5/19/20
14	E14419880	T02	5/19/20
	E14419881	T03	5/19/20
16	E14419882	T04	5/19/20
17	E14419883	T05	5/19/20
18	E14419884	T06	5/19/20
19	E14419885	T07	5/19/20
20	E14419886	T08	5/19/20
21	E14419887	T09	5/19/20
22	E14419888	T10	5/19/20
23	E14419889	T11	5/19/20
	E14419890	T12	5/19/20
25	E14419891	T13	5/19/20
26	E14419892	T14	5/19/20
27	E14419893	T15	5/19/20
28	E14419894	T17	5/19/20

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Longleaf Truss Company.

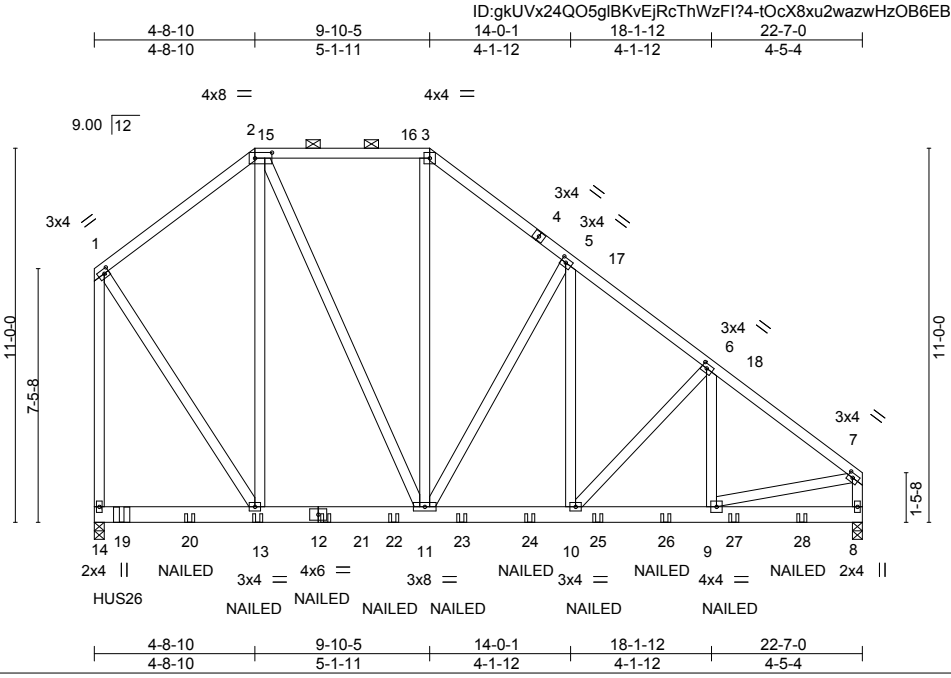
Truss Design Engineer's Name: Gilbert, Eric
My license renewal date for the state of North Carolina is December 31, 2020.

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.

May 19,2020
Gilbert, Eric

Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	G01	Piggyback Base Girder	1	2	E14419867
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 07:20:33 2020 Page 1
ID:gkUVx24QO5glBKvEjRcThWzFI?4-tOcX8xu2wazwHzOB6EBSfHf8wkR0cpwmHmaF4HzF?pi



Scale = 1:67.7

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

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	0.35	Vert(LL)	-0.03	10-11	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.04	10-11	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.01	8	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S							Weight: 415 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 14=0-3-8, 8=0-3-8
Max Horz 14=-282(LC 10)
Max Uplift 14=-212(LC 12), 8=-190(LC 12)
Max Grav 14=2757(LC 34), 8=1794(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-987/212, 2-3=-968/229, 3-5=-1320/256, 5-6=-1799/261, 6-7=-1983/239, 1-14=-1748/212, 7-8=-1631/186
BOT CHORD 11-13=-57/722, 10-11=-59/1363, 9-10=-120/1545
WEBS 2-13=-348/129, 2-11=-117/641, 3-11=-180/510, 5-11=-809/163, 5-10=-151/620, 6-10=-270/88, 1-13=-147/1239, 7-9=-113/1484

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-8-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=212, 8=190.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Continued on page 2

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NOTES-

13) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent at 0-9-10 from the left end to connect truss(es) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-43, 2-3=-53, 3-7=-43, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-152(B) 13=-152(B) 19=-1106(B) 20=-152(B) 22=-152(B) 23=-152(B) 24=-164(B) 25=-164(B) 26=-164(B) 27=-164(B) 28=-164(B)

Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	PB01	Piggyback	21	1	E14419868
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 07:20:34 2020 Page 1
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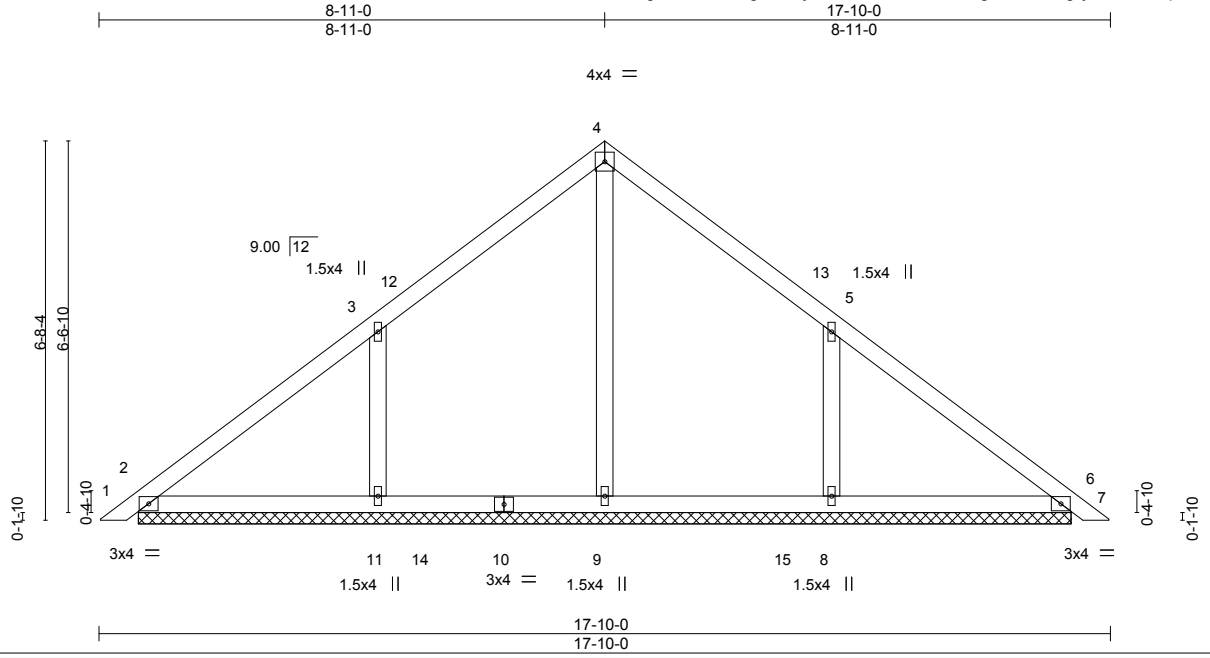

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	0.00	7	n/r	120	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	0.01	7	n/r	120		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S							Weight: 75 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 16-5-6.
(lb) - Max Horz 2=-129(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 11, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=330(LC 24), 11=496(LC 24), 8=495(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-11=-306/117, 5-8=-305/117

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=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 8.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	PB02	Piggyback	7	1	E14419869
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 07:20:35 2020 Page 1
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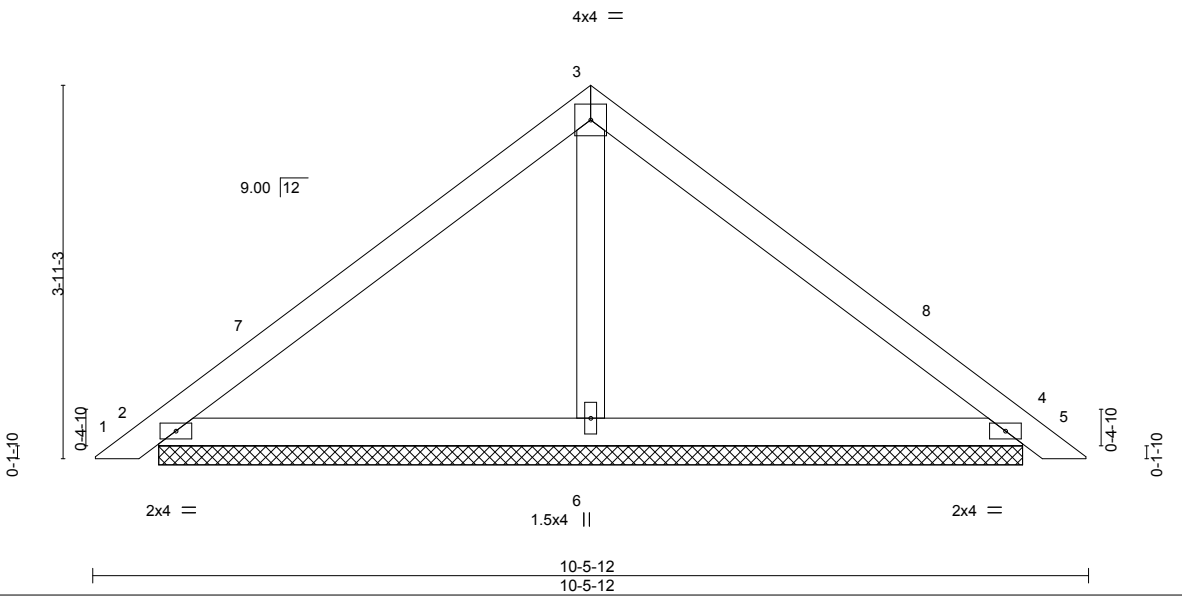

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	0.01	5	n/r	120	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	0.01	5	n/r	120		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S							Weight: 38 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=9-1-2, 4=9-1-2, 6=9-1-2
Max Horz 2=74(LC 11)
Max Uplift 2=-26(LC 12), 4=-26(LC 12)
Max Grav 2=216(LC 2), 4=216(LC 2), 6=348(LC 2)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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TRENCO
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Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	PB03	Piggyback	1	1	E14419870
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 07:20:36 2020 Page 1
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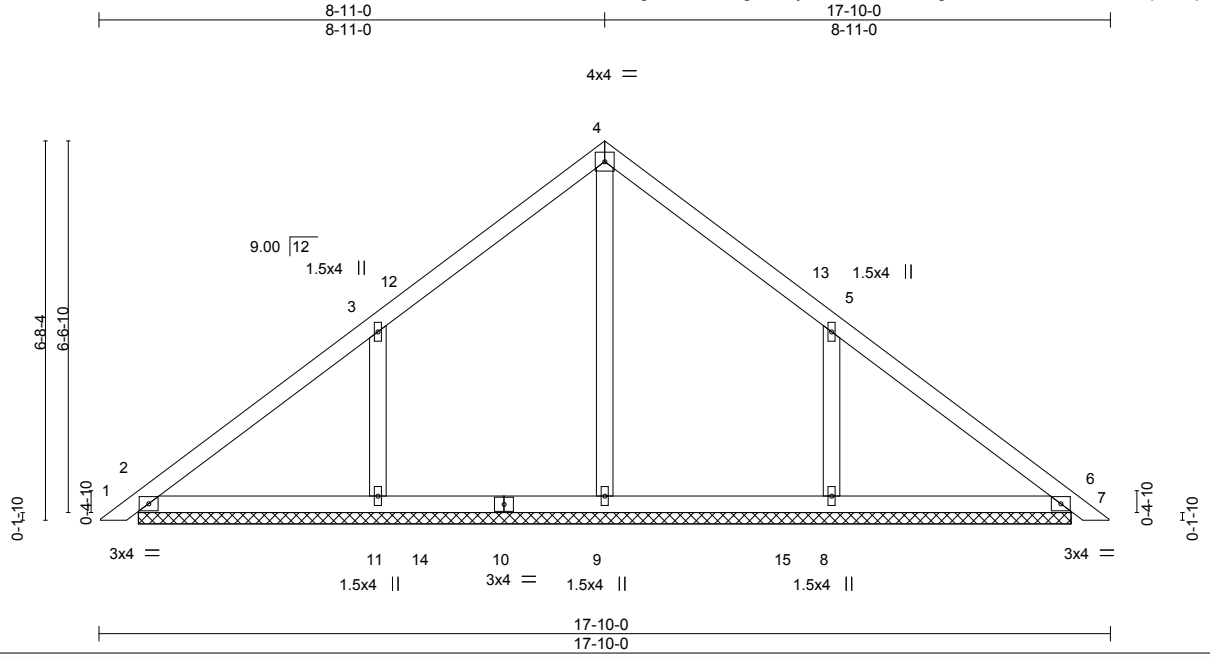

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	0.00	7	n/r	120	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	0.01	7	n/r	120		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S							Weight: 75 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 16-5-6.
(lb) - Max Horz 2=-129(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 11, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=330(LC 24), 11=496(LC 24), 8=495(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-11=-306/117, 5-8=-305/117

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=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 8.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	PB04	Piggyback	1	1	E14419871
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 07:20:37 2020 Page 1
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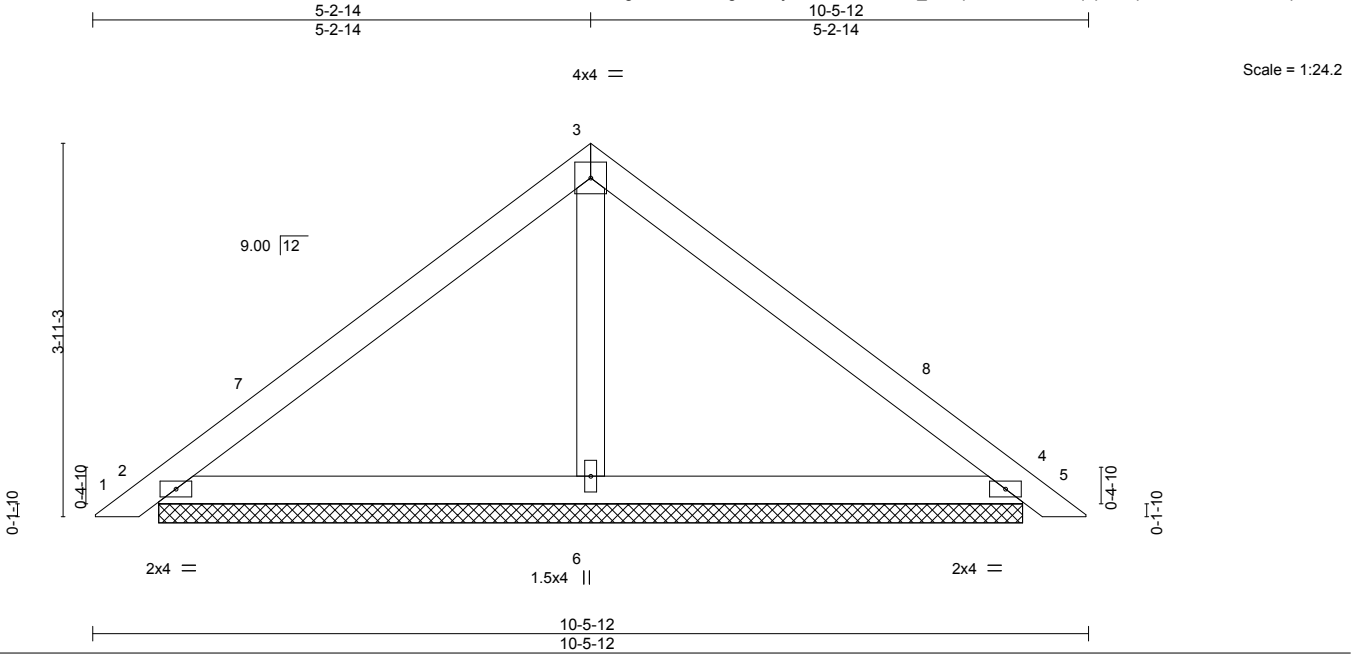

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	0.01	5	n/r	120	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	0.01	5	n/r	120		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S							Weight: 38 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=9-1-2, 4=9-1-2, 6=9-1-2
Max Horz 2=74(LC 11)
Max Uplift 2=-26(LC 12), 4=-26(LC 12)
Max Grav 2=216(LC 2), 4=216(LC 2), 6=348(LC 2)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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A MiTek Affiliate
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Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	PB05	Piggyback	1	1	E14419872
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 07:20:38 2020 Page 1
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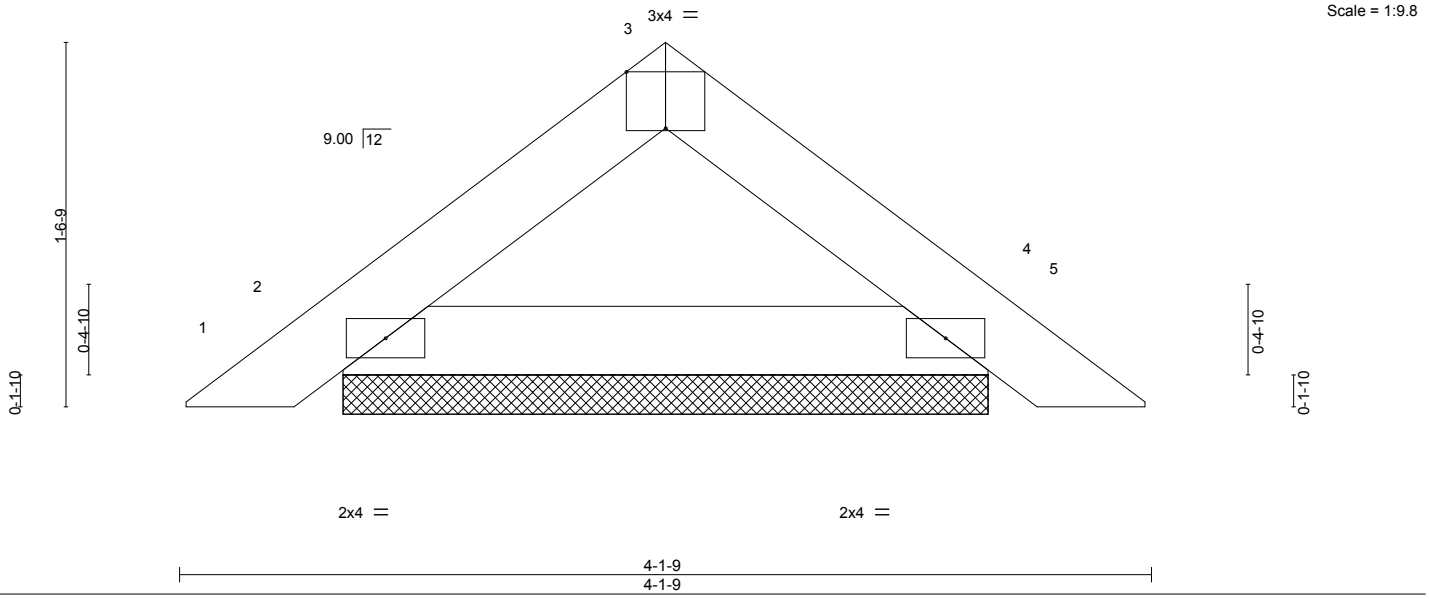

Plate Offsets (X,Y)-- [3:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	0.00	4	n/r	120	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	4	n/r	120		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1

BRACING-
TOP CHORD Sheathed or 4-1-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=2-8-14, 4=2-8-14
Max Horz 2=-27(LC 10)
Max Uplift 2=-11(LC 12), 4=-11(LC 12)
Max Grav 2=136(LC 2), 4=136(LC 2)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

May 19,2020

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	PB06	Piggyback	1	1	E14419873
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 07:20:39 2020 Page 1
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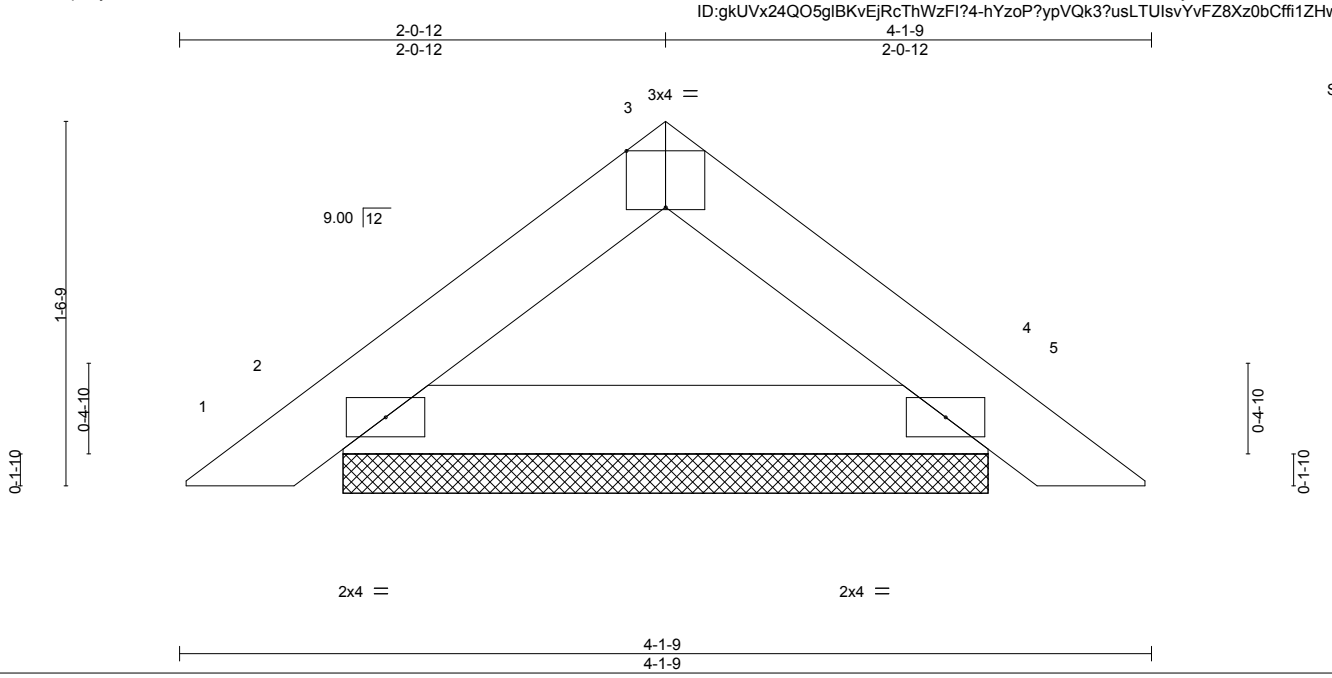


Plate Offsets (X,Y)-- [3:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	0.00	4	n/r	120	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	4	n/r	120		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1

BRACING-
TOP CHORD Sheathed or 4-1-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=2-8-14, 4=2-8-14
Max Horz 2=-27(LC 10)
Max Uplift 2=-11(LC 12), 4=-11(LC 12)
Max Grav 2=136(LC 2), 4=136(LC 2)

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

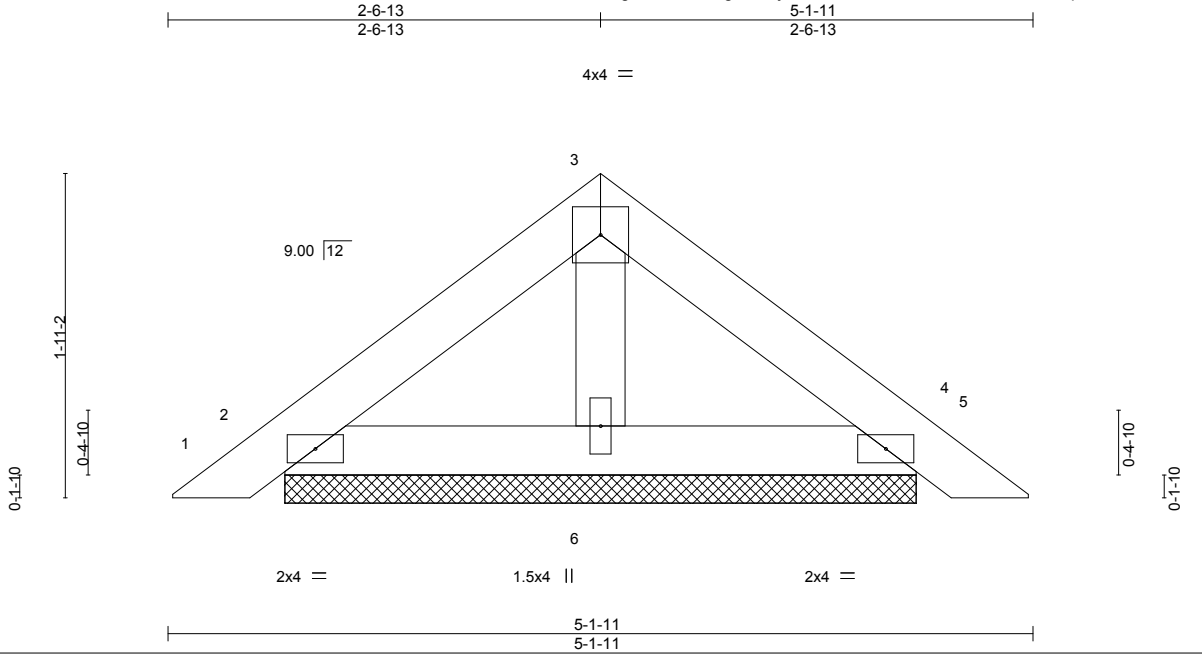
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

May 19,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	PB07	Piggyback	1	1	E14419874
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 07:20:40 2020 Page 1
ID:gkUVx24QO5glBKvEjRcThWzFI?4-AkXAcLzRGkswd2RX0Cp5RlRQxYuol2CouMm6pNzF?pb



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	0.04	Vert(LL)	0.00	4	n/r	120	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	5	n/r	120		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 5-1-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=3-9-0, 4=3-9-0, 6=3-9-0
Max Horz 2=-34(LC 10)
Max Uplift 2=-23(LC 12), 4=-23(LC 12)
Max Grav 2=115(LC 17), 4=115(LC 18), 6=125(LC 2)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

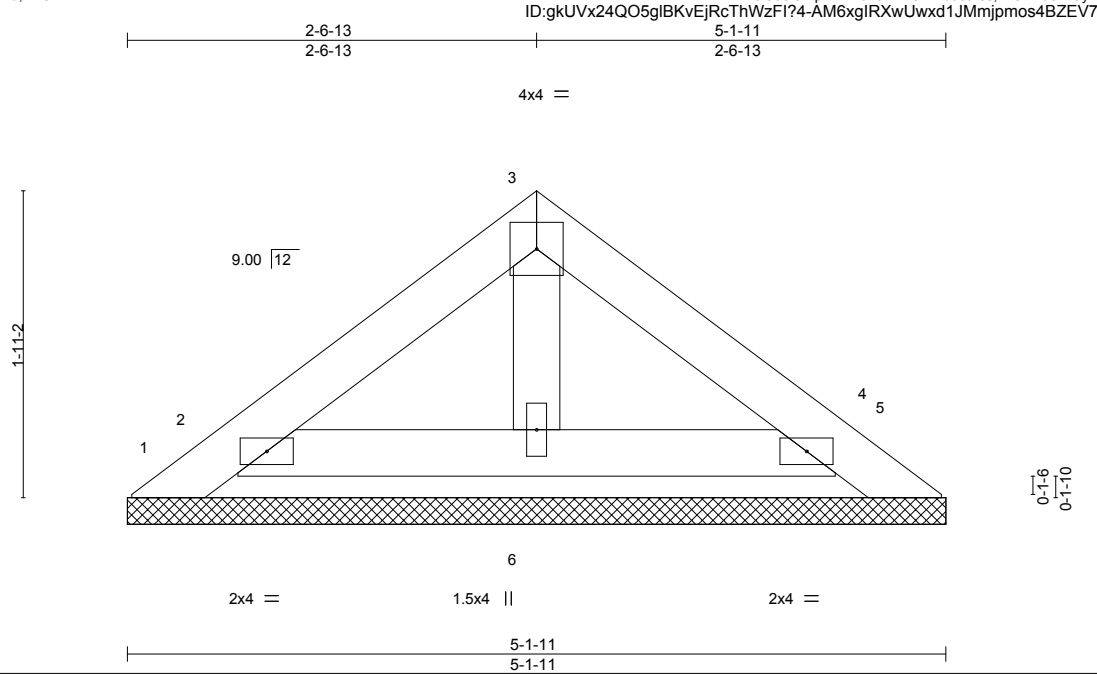
May 19,2020

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	PB08	Piggyback	4	1	E14419875
					Job Reference (optional)

Longleaf Truss Company, West End, N.C. 8.330 s Apr 21 2020 MiTek Industries, Inc. Tue May 19 08:53:19 2020 Page 1

ID:gkUVx24QO5gIBKvEjRcThWzFI?4-AM6xgIRXwUwxd1JMmjpmos4BZEV7F1D8MepG5KzF?L_



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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 17 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 5-1-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-1-11, 5=5-1-11, 2=5-1-11, 4=5-1-11, 6=5-1-11
Max Horz 1=-34(LC 10)
Max Uplift 1=-51(LC 24), 5=-35(LC 25), 2=-32(LC 12), 4=-32(LC 12)
Max Grav 1=24(LC 9), 5=20(LC 12), 2=171(LC 24), 4=166(LC 18), 6=117(LC 7)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-40/66, 2-3=-59/17, 3-4=-58/17, 4-5=-10/38
BOT CHORD 2-6=-10/20, 4-6=-10/20
WEBS 3-6=-68/2

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=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 1, 35 lb uplift at joint 5 , 32 lb uplift at joint 2 and 32 lb uplift at joint 4.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

May 19,2020

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	PB09	Piggyback	1	2	E14419876
					Job Reference (optional)

Longleaf Truss Company, West End, N.C. 8.330 s Apr 21 2020 MiTek Industries, Inc. Tue May 19 08:53:31 2020 Page 1

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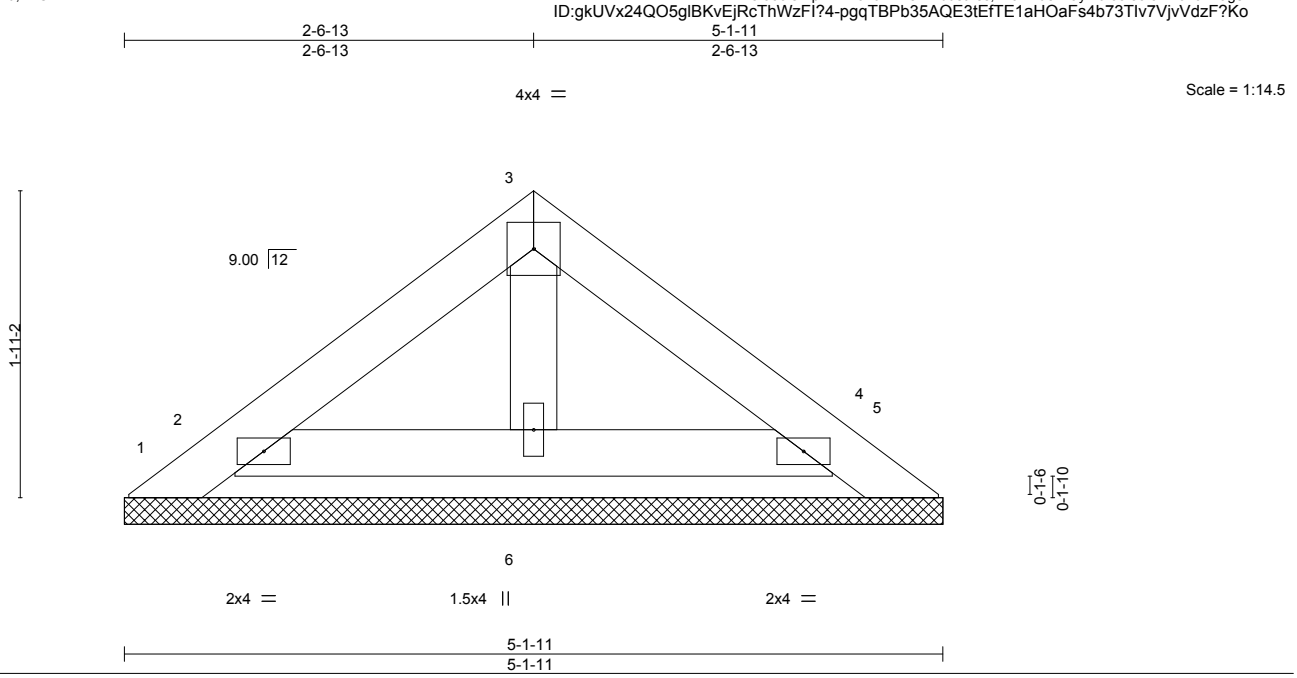

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P							Weight: 34 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 5-1-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-1-11, 5=5-1-11, 2=5-1-11, 4=5-1-11, 6=5-1-11
Max Horz 1=-34(LC 10)
Max Uplift 1=-51(LC 24), 5=-35(LC 25), 2=-32(LC 12), 4=-32(LC 12)
Max Grav 1=24(LC 9), 5=20(LC 12), 2=171(LC 24), 4=166(LC 18), 6=117(LC 7)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-40/66, 2-3=-59/17, 3-4=-58/17, 4-5=-10/38
BOT CHORD 2-6=-10/20, 4-6=-10/20
WEBS 3-6=-68/2

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: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) Unbalanced snow loads have been considered for this design.
7) Gable requires continuous bottom chord bearing.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 1, 35 lb uplift at joint 5, 32 lb uplift at joint 2 and 32 lb uplift at joint 4.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

May 19,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	T01	Piggyback Base Supported Gable	1	1	E14419877
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 07:20:44 2020 Page 1
ID:gkUVx24QO5gIBKvEjRcThWzFI?4-2VmhSi0yKzMM5fkJF2u1cbc2j9EdhoCOp_kKy8zF?pX

1-2-8 | 12-8-11 | 23-2-7 | 35-11-2 | 37-1-10
1-2-8 | 12-8-11 | 10-5-12 | 12-8-11 | 1-2-8

Scale = 1:70.6

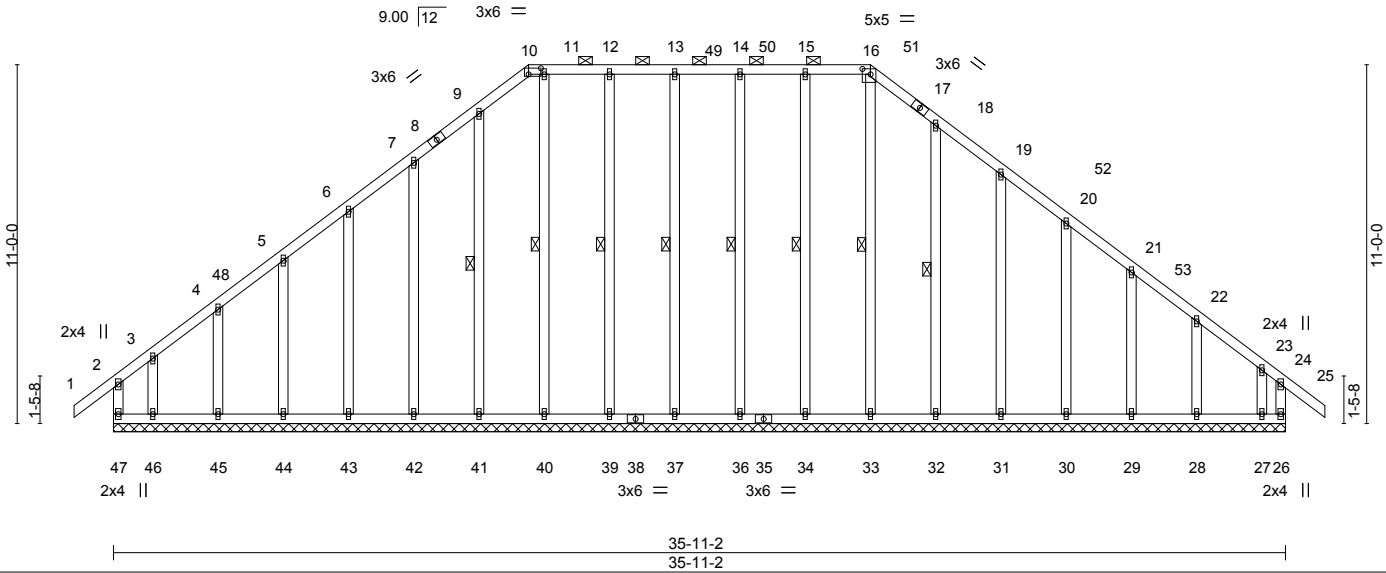

Plate Offsets (X,Y)-- [10:0-4-8,0-2-4], [16:0-3-0,0-2-0]

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	0.25	Vert(LL)	-0.01	25	n/r	120	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	25	n/r	120		
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	-0.01	26	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-R							Weight: 313 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Sheathed or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 10-16.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 16-33, 15-34, 14-36, 13-37, 12-39, 11-40, 9-41, 18-32

REACTIONS. All bearings 35-11-2.
(lb) - Max Horz 47=-254(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 36, 39, 42, 43, 44, 45, 32, 31, 30, 29, 28 except 47=-168(LC 10), 26=-254(LC 11), 46=-134(LC 11), 27=-207(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 33, 34, 36, 37, 39, 40, 41, 42, 43, 44, 45, 32, 31, 30, 29, 28 except 47=283(LC 25), 26=331(LC 24), 46=260(LC 10), 27=317(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 9-10=-66/252, 16-18=-61/263

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=12ft; B=45ft; L=36ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
8) All plates are 1.5x4 MT20 unless otherwise indicated.
9) Gable requires continuous bottom chord bearing.
10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
11) Gable studs spaced at 2-0-0 oc.
12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
13) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 36, 39, 42, 43, 44, 45, 32, 31, 30, 29, 28 except (jt=lb) 47=168, 26=254, 46=134, 27=207.
15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

NORTH CAROLINA PROFESSIONAL SEAL 036322 ENGINEER ERIC A. GILBERT

May 19,2020

ENGINEERING BY TRENCO A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	T01GE	Common Supported Gable	1	1	E14419878
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 07:20:47 2020 Page 1
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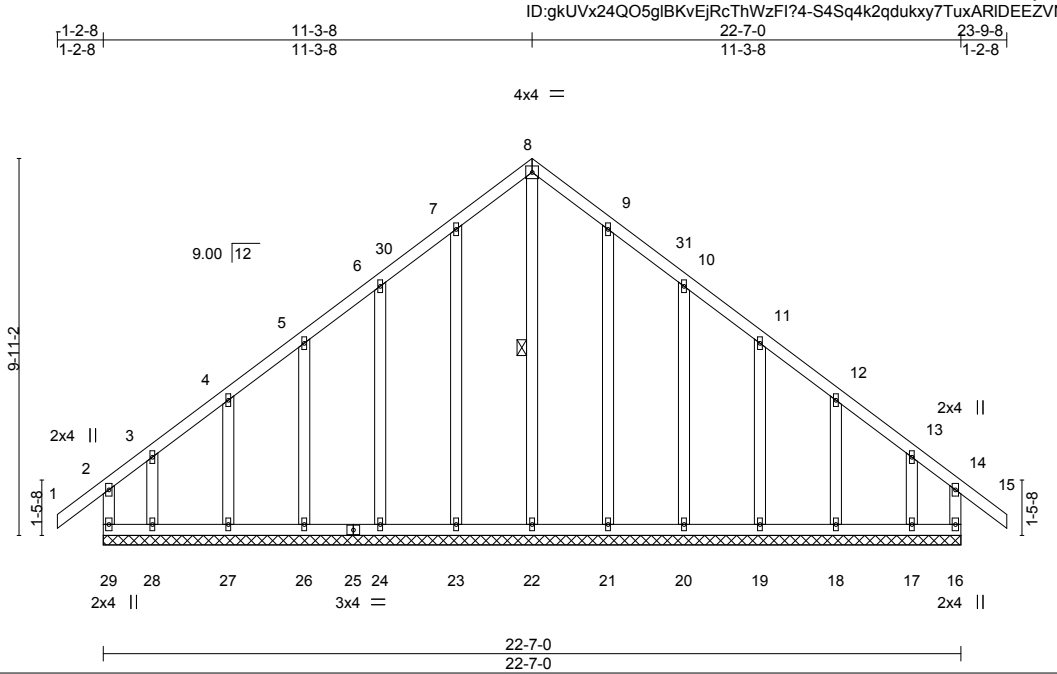

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.01	15	n/r	120	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	15	n/r	120		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	-0.00	16	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-R							Weight: 170 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 8-22

REACTIONS. All bearings 22-7-0.
(lb) - Max Horz 29=220(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 16, 23, 24, 26, 27, 21, 20, 19, 18, 17 except 29=-125(LC 10), 28=-101(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 29, 16, 23, 24, 26, 27, 28, 21, 20, 19, 18, 17 except 22=265(LC 12)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 23, 24, 26, 27, 21, 20, 19, 18, 17 except (jt=lb) 29=125, 28=101.
14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	T01SGE	Piggyback Base Structural Gable COMMON	1	1	E14419879
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 07:20:49 2020 Page 1
ID:gkUVx24QO5glBKvEjRcThWzFI?4-PTaaVQ449V_fCRdG2bUDJfJqIAufMwz7yFS5eLzF?pS

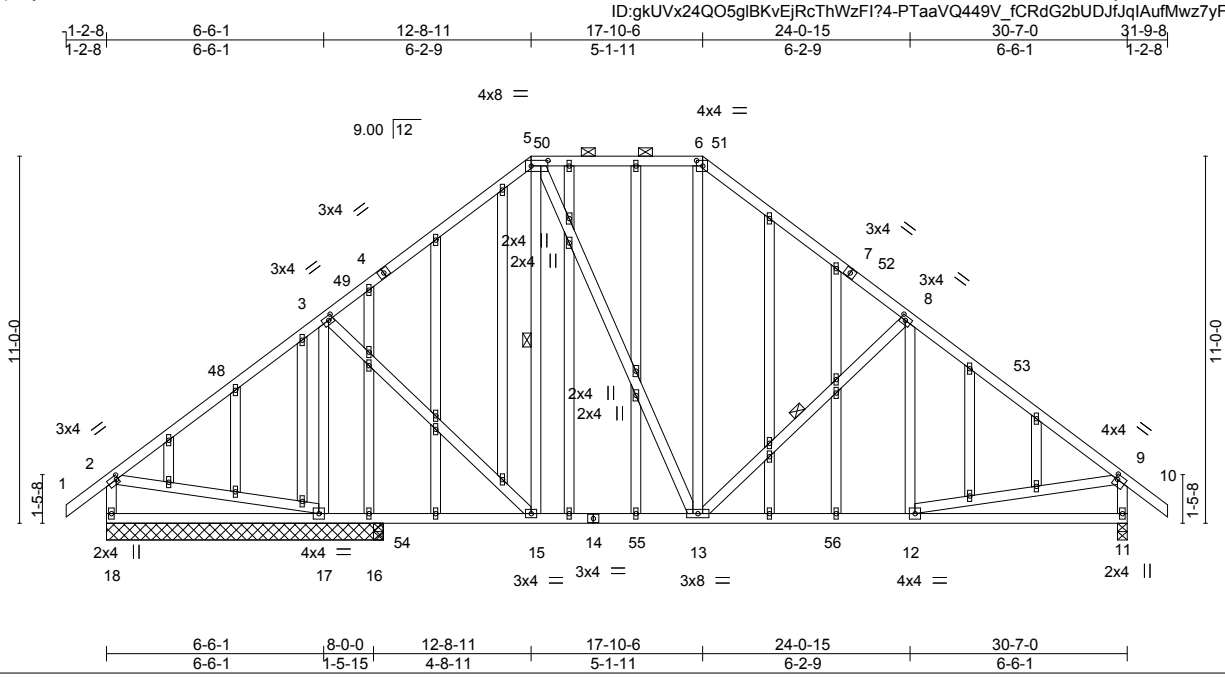

Plate Offsets (X,Y)-- [2:0-0-12,0-1-8], [3:0-1-12,0-1-8], [5:0-6-0,0-2-0], [6:0-2-4,0-2-0], [8:0-1-12,0-1-8], [9:0-1-0,0-1-12]

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	0.51	Vert(LL)	-0.05	12-13	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.09	12-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.01	11	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S							Weight: 330 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Sheathed or 5-4-7 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.
WEBS	1 Row at midpt 5-15, 8-13

REACTIONS. All bearings 8-3-8 except (jt=length) 11=0-3-8.
(lb) - Max Horz 18=250(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 18, 17, 11
Max Grav All reactions 250 lb or less at joint(s) 16, 16 except 18=396(LC 50), 17=1403(LC 43), 11=1199(LC 45)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-789/125, 5-6=-674/131, 6-8=-957/122, 8-9=-1302/52, 2-18=-336/73, 9-11=-1099/69
BOT CHORD 17-18=-199/314, 13-15=0/570, 12-13=0/959
WEBS 3-17=-1186/63, 3-15=0/588, 5-13=-6/406, 8-13=-525/89, 9-12=0/870

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=12ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
8) All plates are 1.5x4 MT20 unless otherwise indicated.
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 17, 11.
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	T02	Piggyback Base	6	1	E14419880
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 07:20:52 2020 Page 1
ID:gkUVx24QO5glBKvEjRcThWzFI?4-p2Fj7R6zRQMD3uLrjj1wwHxLUOuJZLeZeDhlFgzF?pP

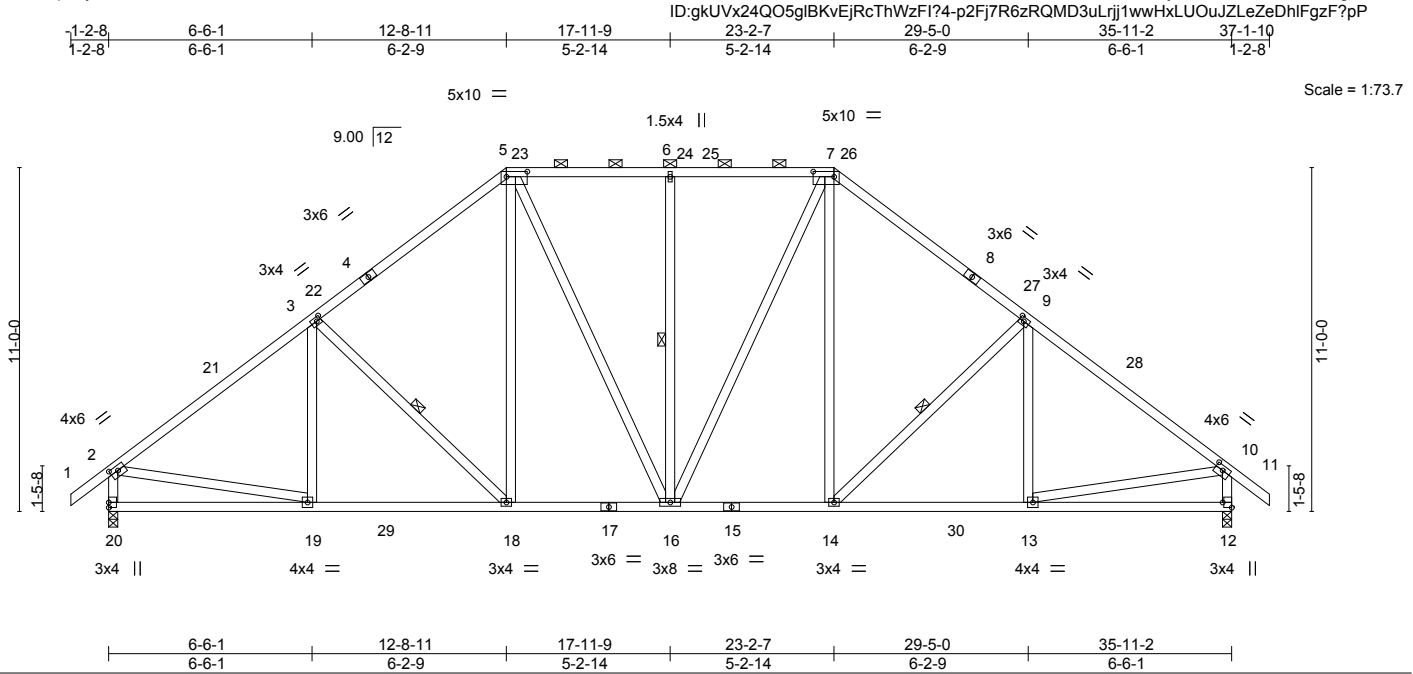


Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [3:0-1-12,0-1-8], [5:0-8-0,0-2-0], [7:0-8-0,0-2-0], [9:0-1-12,0-1-8], [10:0-3-0,0-1-12], [12:Edge,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.08	13-14	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.15	13-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.05	12	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S							Weight: 265 lb	FT = 20%
BCDL	10.0											

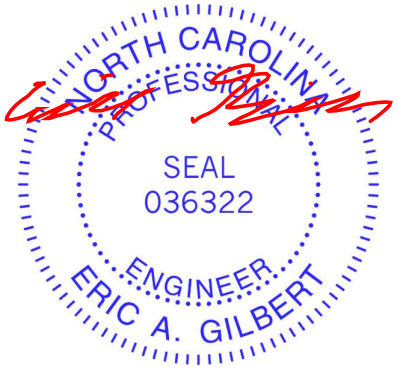
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 4-3-13 oc purlins, except end verticals, and 2-0-0 oc purlins (5-2-5 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-18, 6-16, 9-14

REACTIONS. (size) 20=0-3-8, 12=0-3-8
Max Horz 20=254(LC 11)
Max Uplift 20=-33(LC 12), 12=-33(LC 12)
Max Grav 20=1734(LC 24), 12=1734(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1962/49, 3-5=-1702/118, 5-6=-1387/128, 6-7=-1387/128, 7-9=-1702/118, 9-10=-1962/49, 2-20=-1632/66, 10-12=-1632/66
BOT CHORD 19-20=-193/342, 18-19=0/1649, 16-18=0/1378, 14-16=0/1317, 13-14=0/1483
WEBS 3-18=-442/90, 5-18=0/545, 5-16=-30/396, 6-16=-491/59, 7-16=-30/396, 7-14=0/546, 9-14=-442/90, 2-19=0/1387, 10-13=0/1390

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=12ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 12.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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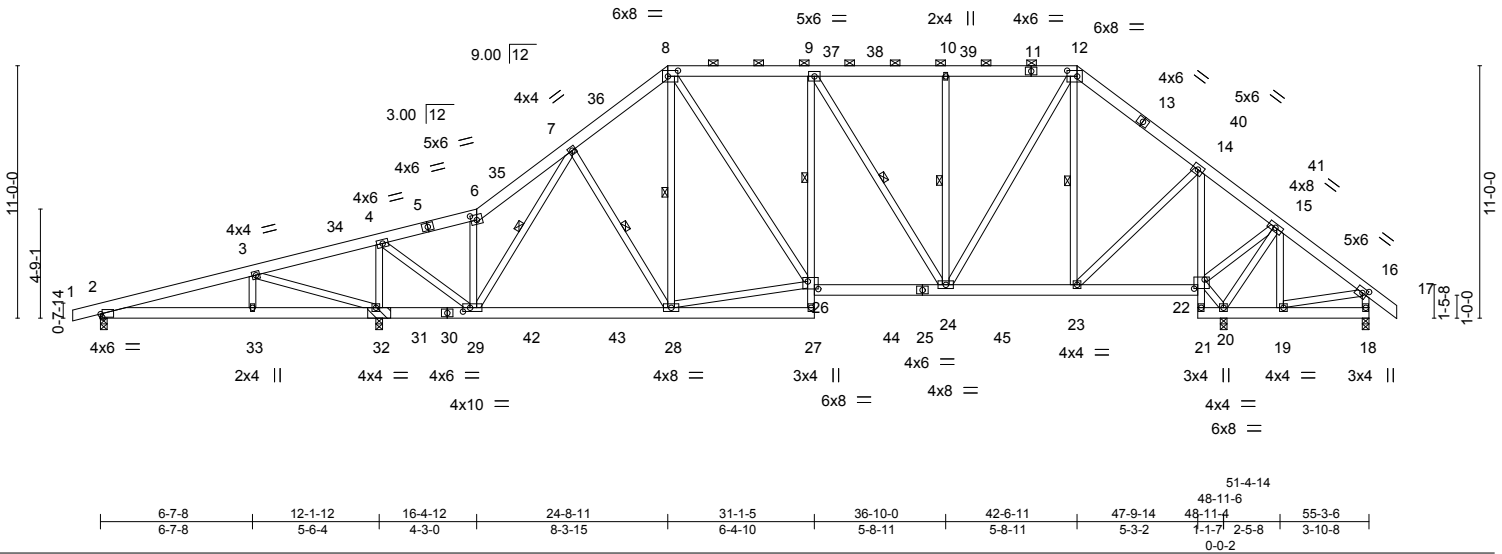
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	T03	Piggyback Base	5	1	E14419881
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 07:20:56 2020 Page 1
ID:gkUVx24QO5glBKvEjRcThWzFI?4-ipVEzp9TVftfYVfcyZ6s5766??ATV4z9ZrfzORzF?pL

-1-2-8 | 6-7-8 | 12-1-12 | 16-4-12 | 20-6-11 | 24-8-11 | 31-1-5 | 36-10-0 | 42-6-11 | 47-9-14 | 51-4-14 | 55-3-6 | 56-5-14
1-2-8 | 6-7-8 | 5-6-4 | 4-3-0 | 4-2-0 | 4-2-0 | 6-4-10 | 5-8-11 | 5-8-11 | 5-3-2 | 3-7-0 | 3-10-8 | 1-2-8

Scale = 1:100.4



6-7-8 | 12-1-12 | 16-4-12 | 24-8-11 | 31-1-5 | 36-10-0 | 42-6-11 | 47-9-14 | 48-11-4 | 51-4-14 / 48-11-6 | 55-3-6
6-7-8 | 5-6-4 | 4-3-0 | 8-3-15 | 6-4-10 | 5-8-11 | 5-8-11 | 5-3-2 | 1-1-7 | 2-5-8 | 3-10-8
0-0-2

Plate Offsets (X,Y)-- [2:0-0-14,0-1-11], [6:0-3-0,0-2-12], [8:0-5-4,0-3-0], [12:0-5-4,0-3-0], [16:0-2-8,0-2-8], [22:0-5-8,0-4-12], [26:0-5-8,0-4-0], [29:0-3-12,0-2-0]

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	0.23	Vert(LL)	-0.08	28-29	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.14	28-29	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.04	20	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S							Weight: 492 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
9-27,14-21: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-12.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
1 Row at midpt 9-26
WEBS 1 Row at midpt 7-29, 7-28, 8-28, 9-24, 10-24, 12-23

REACTIONS. All bearings 0-3-8 except (jt=length) 32=0-4-0 (input: 0-3-8 + bearing block).
(lb) - Max Horz 2=233(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 32
Max Grav All reactions 250 lb or less at joint(s) 18 except 2=345(LC 54), 32=2566(LC 24), 20=2054(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-258/183, 3-4=0/1005, 4-6=-913/33, 6-7=-1114/107, 7-8=-1509/126, 8-9=-1604/114, 9-10=-1417/116, 10-12=-1420/116, 12-14=-1170/109, 14-15=-255/66
BOT CHORD 29-32=-894/73, 28-29=0/1232, 9-26=-252/148, 24-26=0/1685, 23-24=0/920, 21-22=-259/0, 14-22=-1436/28
WEBS 3-33=0/256, 3-32=-988/8, 4-32=-2072/40, 4-29=0/2176, 6-29=-587/90, 7-29=-601/0, 26-28=0/1227, 8-26=0/755, 9-24=-404/0, 10-24=-487/66, 12-24=0/1062, 12-23=-516/5, 14-23=0/1048, 20-22=-957/66, 15-22=0/868, 15-20=-967/0

NOTES-
1) 2x6 SP No.1 bearing block 12" long at jt. 32 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. User Defined Bearing crushing capacity= 425psi.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=55ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 18, 32.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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ENGINEERING BY TRENCO
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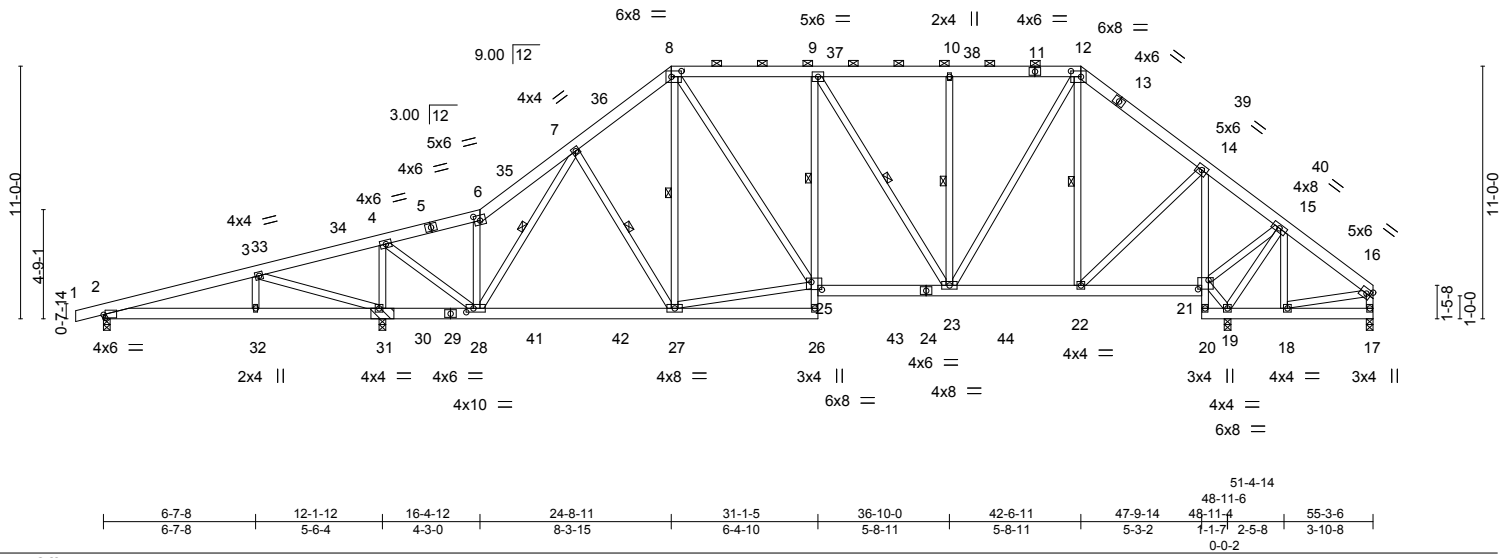
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	T04	PIGGYBACK BASE	4	1	E14419882
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 07:21:01 2020 Page 1
ID:gkUVx24QO5glBKvEjRcThWzFI?4-2nI70WDcKBVyeHXal6i1oBpym0ugAKCuj7Mj3fzF?pG

-1-2-8 | 6-7-8 | 12-1-12 | 16-4-12 | 20-6-11 | 24-8-11 | 31-1-5 | 36-10-0 | 42-6-11 | 47-9-14 | 51-4-14 | 55-3-6
1-2-8 | 6-7-8 | 5-6-4 | 4-3-0 | 4-2-0 | 4-2-0 | 6-4-10 | 5-8-11 | 5-8-11 | 5-3-2 | 3-7-0 | 3-10-8

Scale = 1:100.3



6-7-8 | 12-1-12 | 16-4-12 | 24-8-11 | 31-1-5 | 36-10-0 | 42-6-11 | 47-9-14 | 48-11-4 | 51-4-14 | 48-11-6 | 55-3-6
6-7-8 | 5-6-4 | 4-3-0 | 8-3-15 | 6-4-10 | 5-8-11 | 5-8-11 | 5-3-2 | 1-1-7 | 2-5-8 | 0-0-2 | 3-10-8

Plate Offsets (X,Y)-- [2:0-0-14,0-1-11], [6:0-3-0,0-2-12], [8:0-5-4,0-3-0], [12:0-5-4,0-3-0], [21:0-5-8,0-4-12], [25:0-5-8,0-4-0], [28:0-3-12,0-2-0]

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	0.23	Vert(LL)	-0.08	27-28	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.14	27-28	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.04	19	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S							Weight: 488 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
9-26,14-20: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-12.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
1 Row at midpt 9-25
WEBS 1 Row at midpt 7-28, 7-27, 8-27, 9-23, 10-23, 12-22

REACTIONS. All bearings 0-3-8 except (jt=length) 31=0-4-0 (input: 0-3-8 + bearing block).
(lb) - Max Horz 2=224(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 31
Max Grav All reactions 250 lb or less at joint(s) 17 except 2=345(LC 54), 31=2565(LC 24), 19=2065(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-3/1001, 4-6=-911/18, 6-7=-1111/89, 7-8=-1511/117, 8-9=-1605/110, 9-10=-1416/110, 10-12=-1419/110, 12-14=-1168/100, 14-15=-254/51
BOT CHORD 28-31=-890/52, 27-28=0/1225, 9-25=-252/147, 23-25=0/1676, 22-23=0/912, 20-21=-261/0, 14-21=-1434/35
WEBS 3-32=0/256, 3-31=-988/8, 4-31=-2072/43, 4-28=0/2175, 6-28=-589/83, 7-28=-599/0, 25-27=0/1220, 8-25=0/756, 9-23=-403/0, 10-23=-486/67, 12-23=0/1061, 12-22=-516/12, 14-22=0/1045, 19-21=-952/57, 15-21=0/860, 15-19=-981/0

NOTES-
1) 2x6 SP No.1 bearing block 12" long at jt. 31 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. User Defined Bearing crushing capacity= 425psi.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=55ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 31.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

May 19,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	T05	Piggyback Base	1	1	E14419883
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 07:21:04 2020 Page 1
ID:gkUVx24QO5glBKvEjRcThWzFI?4-TL_FeYGVc6tWVkG9QEFkQpRJ3Dw2Nj3KP5bOg_zF?pD

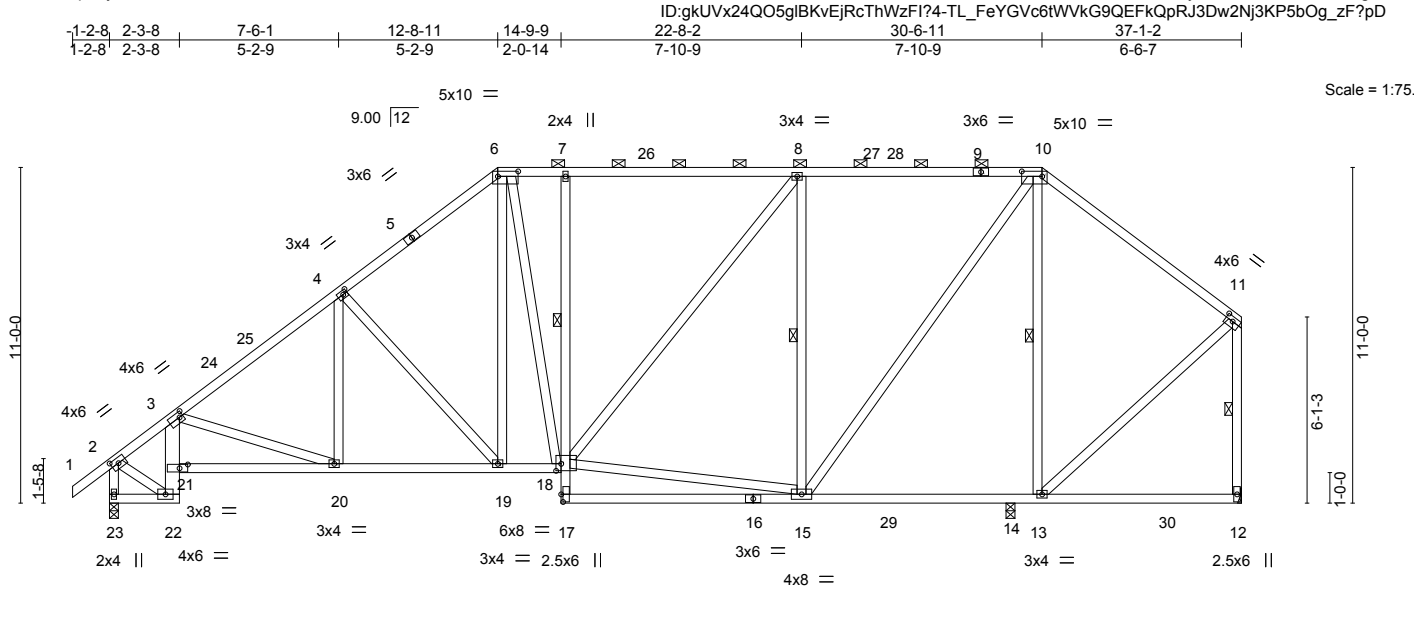


Plate Offsets (X,Y)-- [2:0-2-14,0-2-0], [3:0-1-8,0-2-0], [4:0-1-12,0-1-8], [6:0-8-0,0-2-0], [10:0-8-0,0-2-0], [11:0-3-0,0-1-12], [17:0-3-0,0-0-12], [18:0-2-0,0-2-12], [21:0-3-4,0-1-8]

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	0.86	Vert(LL)	-0.13	15-17	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.27	15-17	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.11	12	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S							Weight: 301 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1 *Except*
	3-22: 2x6 SP No.1, 7-17: 2x4 SP No.3
WEBS	2x4 SP No.3

BRACING-

TOP CHORD	Sheathed or 4-3-9 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-2 max.): 6-10.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 21-22.
	1 Row at midpt 7-18
WEBS	1 Row at midpt 8-15, 10-13, 11-12

REACTIONS. (size) 23=0-3-8, 12=Mechanical, 14=0-3-8
Max Horz 23=289(LC 11)
Max Uplift 23=-36(LC 12), 12=-21(LC 12)
Max Grav 23=1622(LC 24), 12=1255(LC 25), 14=563(LC 42)

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

TOP CHORD	2-3=-1384/36, 3-4=-2086/58, 4-6=-1694/117, 6-7=-1415/126, 7-8=-1416/127, 8-10=-1261/134, 10-11=-859/119, 2-23=-1653/48, 11-12=-1108/58
BOT CHORD	22-23=-263/232, 21-22=-539/0, 3-21=-471/22, 20-21=-181/1940, 19-20=-47/1723, 18-19=-12/1377, 7-18=-484/63, 14-15=-7/628, 13-14=-7/628
WEBS	4-20=0/288, 4-19=-620/81, 6-19=-5/620, 6-18=-32/549, 15-18=-19/1119, 8-18=-22/390, 8-15=-850/90, 10-15=0/1136, 10-13=-770/39, 2-22=0/1161, 11-13=0/822

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=12ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 12.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

May 19,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	T06	Piggyback Base	5	1	E14419884
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 07:21:07 2020 Page 1
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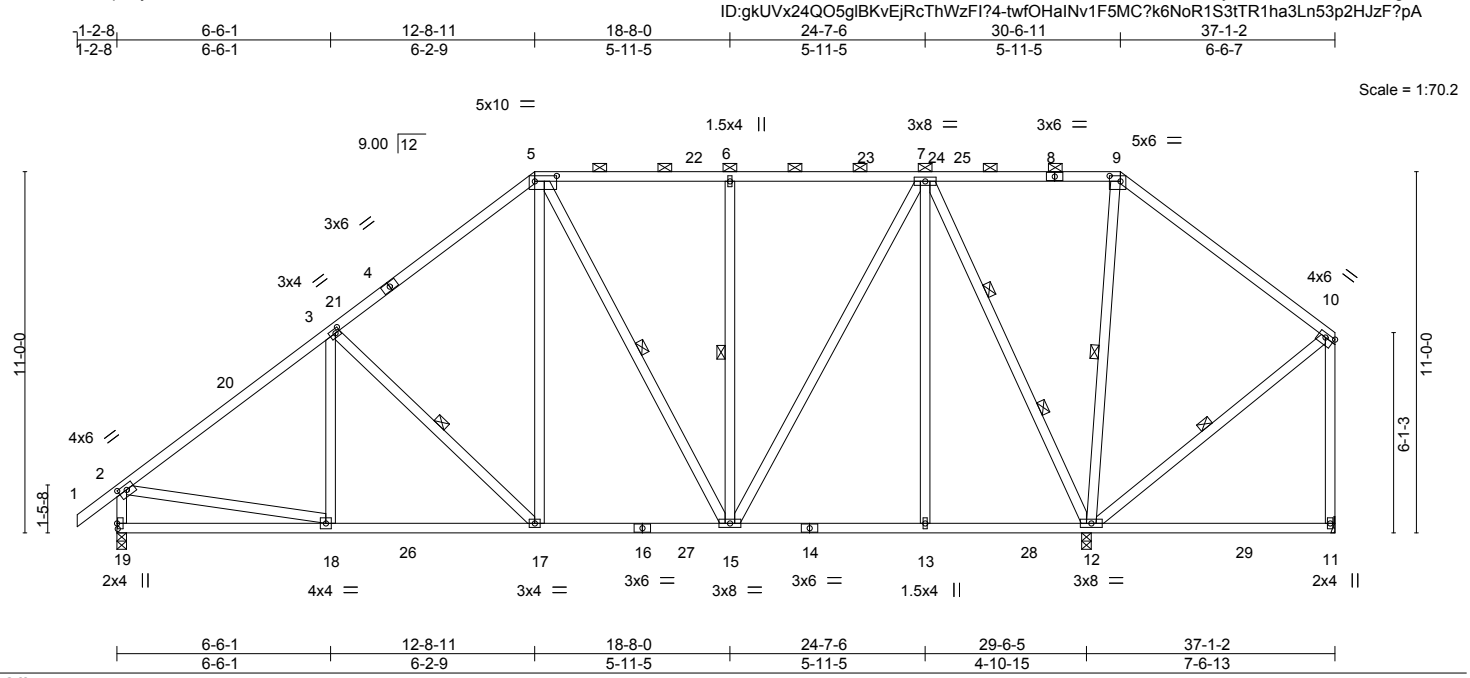

Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [3:0-1-12,0-1-8], [5:0-8-0,0-2-0], [9:0-4-0,0-2-0], [10:Edge,0-1-8], [19:0-2-0,0-0-4]

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	0.66	Vert(LL)	-0.09	11-12	>976	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.16	11-12	>558	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.02	11	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S							Weight: 288 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 4-11-4 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-17, 5-15, 6-15, 9-12, 10-12
2 Rows at 1/3 pts 7-12

REACTIONS. (size) 19=0-3-8, 11=Mechanical, 12=0-3-8
Max Horz 19=289(LC 11)
Max Uplift 19=-29(LC 12), 11=-120(LC 50), 12=-9(LC 12)
Max Grav 19=1387(LC 24), 11=153(LC 39), 12=2213(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1504/44, 3-5=-1192/112, 5-6=-850/121, 6-7=-850/121, 9-10=-39/360, 2-19=-1287/62
BOT CHORD 18-19=-238/318, 17-18=-71/1256, 15-17=-36/954, 13-15=-43/492, 12-13=-43/492
WEBS 3-17=-505/91, 5-17=0/599, 5-15=-339/38, 6-15=-519/72, 7-15=-2/859, 7-13=0/285, 7-12=-1567/13, 9-12=-477/30, 2-18=0/980, 10-12=-291/77

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=12ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 12 except (jt=lb) 11=120.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

May 19,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RICHARDSON	
P20-04027	T07	Piggyback Base	5	1	Job Reference (optional)	E14419885

Longleaf Truss Company, West End, NC - 27376, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 07:21:09 2020 Page 1
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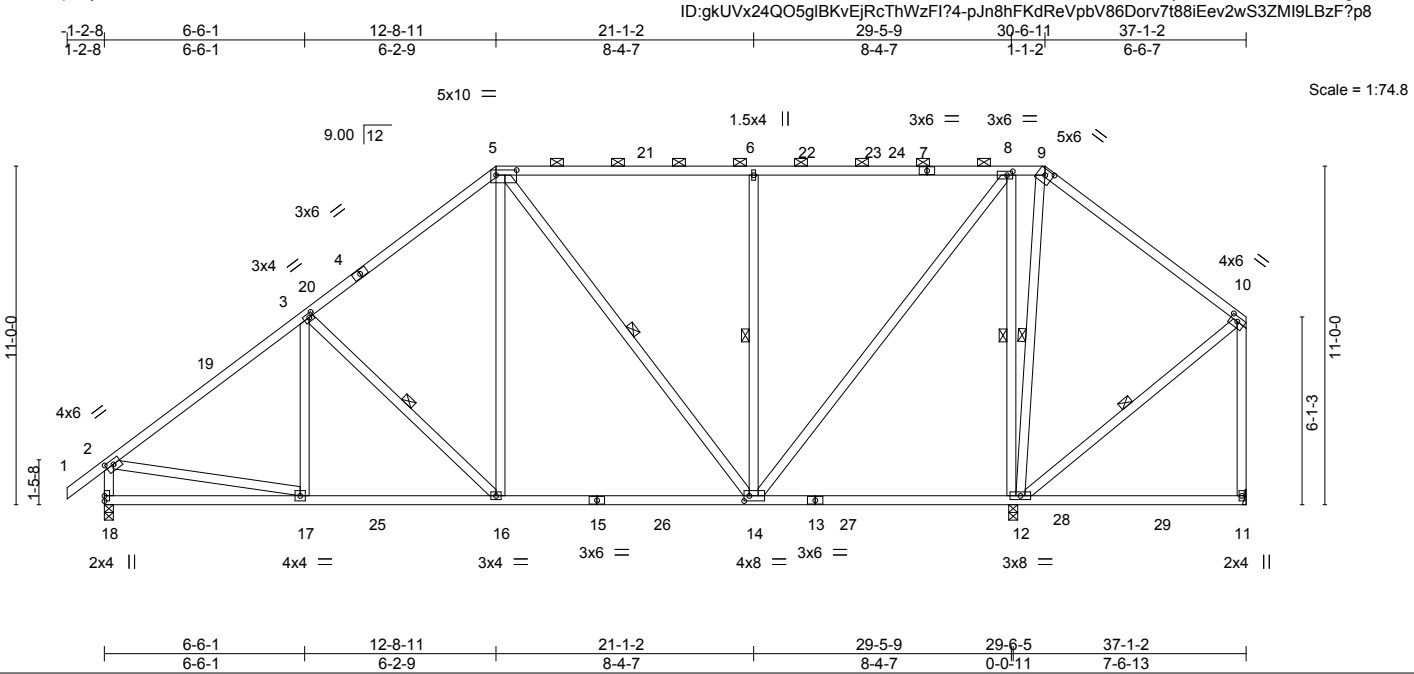

Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [3:0-1-12,0-1-8], [5:0-8-0,0-2-0], [8:0-2-4,0-1-8], [9:0-3-0,0-2-2], [10:0-3-0,0-1-12], [14:0-2-0,0-2-0]

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	1.00	Vert(LL)	-0.14	12-14	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.23	14-16	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.02	11	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S							Weight: 275 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 4-10-13 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 5-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-14.
WEBS 1 Row at midpt 3-16, 5-14, 6-14, 8-12, 9-12, 10-12

REACTIONS. (size) 18=0-3-8, 11=Mechanical, 12=0-3-8
Max Horz 18=289(LC 11)
Max Uplift 18=-29(LC 12), 11=-86(LC 50), 12=-6(LC 12)
Max Grav 18=1406(LC 24), 11=184(LC 39), 12=2154(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1523/45, 3-5=-1229/111, 5-6=-798/122, 6-8=-798/122, 9-10=-70/304, 2-18=-1301/64
BOT CHORD 17-18=-237/325, 16-17=-70/1271, 14-16=-31/987
WEBS 3-16=-485/93, 5-16=0/652, 5-14=-440/17, 6-14=-776/108, 8-14=-5/1479, 8-12=-1669/56, 9-12=-425/23, 2-17=0/989

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=12ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 11, 12.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

May 19,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	T08	Piggyback Base Supported Gable	1	1	E14419886
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 07:21:11 2020 Page 1
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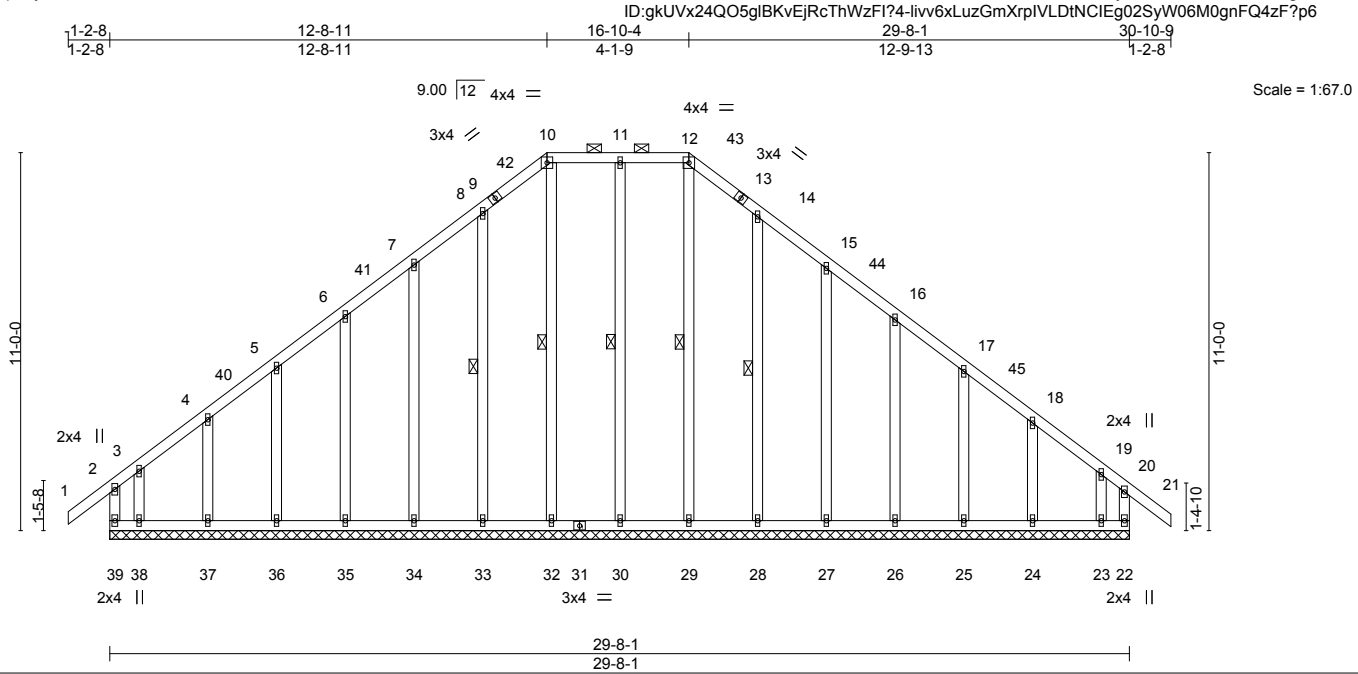

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.01	21	n/r	120	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	21	n/r	120		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	-0.01	22	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-R							Weight: 246 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Sheathed or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 10-12.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 12-29, 11-30, 10-32, 8-33, 14-28

REACTIONS. All bearings 29-8-1.
(lb) - Max Horz 39=-249(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 33, 34, 35, 36, 37, 28, 27, 26, 25, 24 except 39=-237(LC 10), 22=-203(LC 11), 38=-193(LC 11), 23=-164(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 29, 30, 32, 33, 34, 35, 36, 37, 28, 27, 26, 25, 24 except 39=324(LC 25), 22=296(LC 24), 38=302(LC 10), 23=273(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 8-10=-67/268, 12-14=-58/269

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=12ft; B=45ft; L=30ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
8) All plates are 1.5x4 MT20 unless otherwise indicated.
9) Gable requires continuous bottom chord bearing.
10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
11) Gable studs spaced at 2-0-0 oc.
12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
13) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 33, 34, 35, 36, 37, 28, 27, 26, 25, 24 except (jt=lb) 39=237, 22=203, 38=193, 23=164.
15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

May 19,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	T09	Common	1	1	E14419887
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 07:21:13 2020 Page 1
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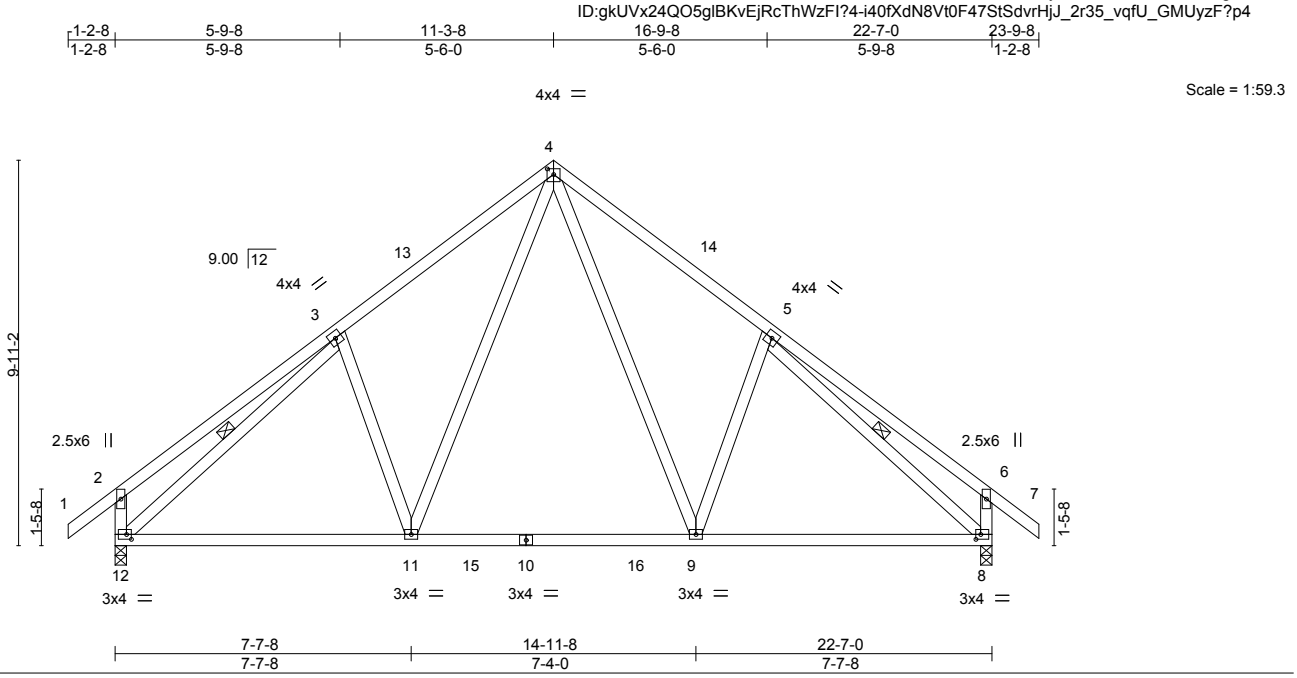

Plate Offsets (X,Y)-- [4:0-2-0,0-1-12], [8:0-1-8,0-1-8], [12:0-1-8,0-1-8]

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	0.34	Vert(LL)	-0.09	9-11	>999	240	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.14	11-12	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.02	8	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S							Weight: 152 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 5-11-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-12, 5-8

REACTIONS. (size) 12=0-3-8, 8=0-3-8
Max Horz 12=220(LC 11)
Max Uplift 12=-33(LC 12), 8=-33(LC 12)
Max Grav 12=1077(LC 24), 8=1077(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-305/122, 3-4=-1045/132, 4-5=-1045/132, 5-6=-304/122, 2-12=-368/125, 6-8=-368/125
BOT CHORD 11-12=0/913, 9-11=0/656, 8-9=0/816
WEBS 4-9=-41/533, 4-11=-41/533, 3-12=-950/0, 5-8=-950/0

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 8.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

May 19,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	T10	Common	2	1	E14419888
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 07:21:14 2020 Page 1
ID:gkUVx24QO5glBKvEjRcThWzFI?4-AHa1lzNmGB86iG140LQ4pwr8nFPKjM4oie0w0PzF?p3

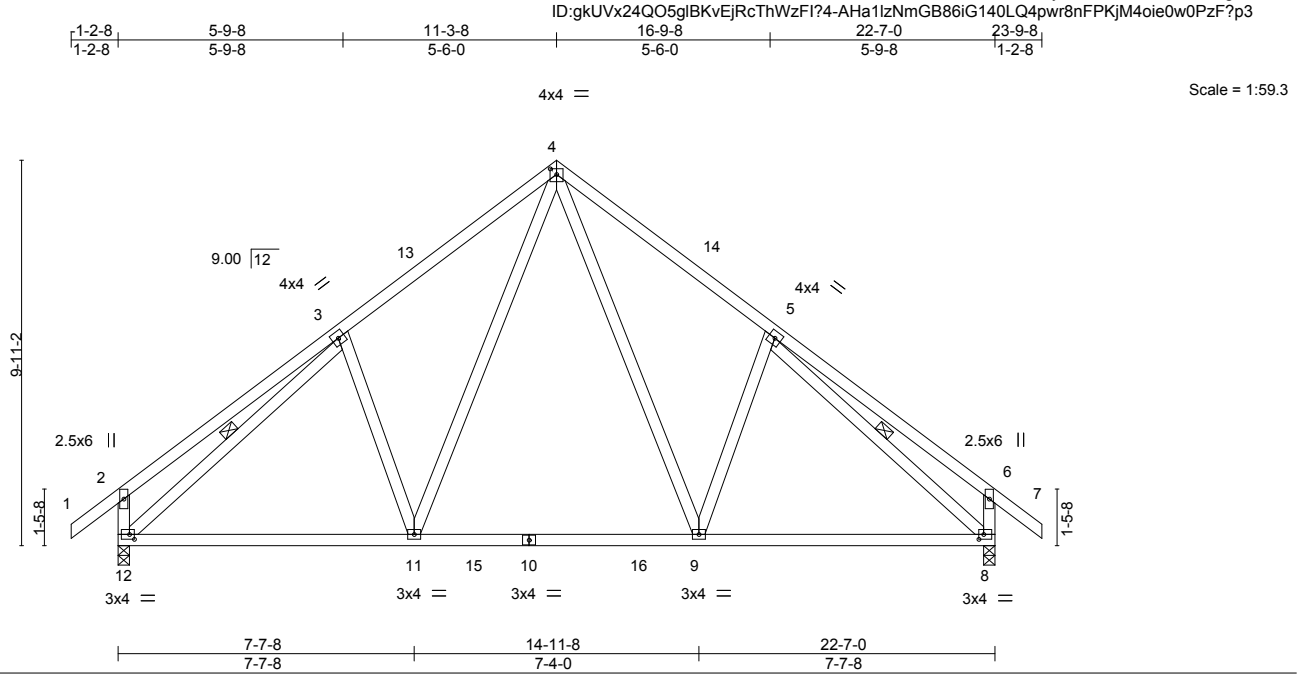

Plate Offsets (X,Y)-- [4:0-2-0,0-1-12], [8:0-1-8,0-1-8], [12:0-1-8,0-1-8]

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	0.34	Vert(LL)	-0.09	9-11	>999	240	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.14	11-12	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.02	8	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S							Weight: 152 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 5-11-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-12, 5-8

REACTIONS. (size) 12=0-3-8, 8=0-3-8
Max Horz 12=220(LC 11)
Max Uplift 12=-33(LC 12), 8=-33(LC 12)
Max Grav 12=1077(LC 24), 8=1077(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-305/122, 3-4=-1045/132, 4-5=-1045/132, 5-6=-304/122, 2-12=-368/125, 6-8=-368/125
BOT CHORD 11-12=0/913, 9-11=0/656, 8-9=0/816
WEBS 4-9=-41/533, 4-11=-41/533, 3-12=-950/0, 5-8=-950/0

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 8.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

May 19,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	T11	Piggyback Base	1	1	E14419889
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 07:21:16 2020 Page 1
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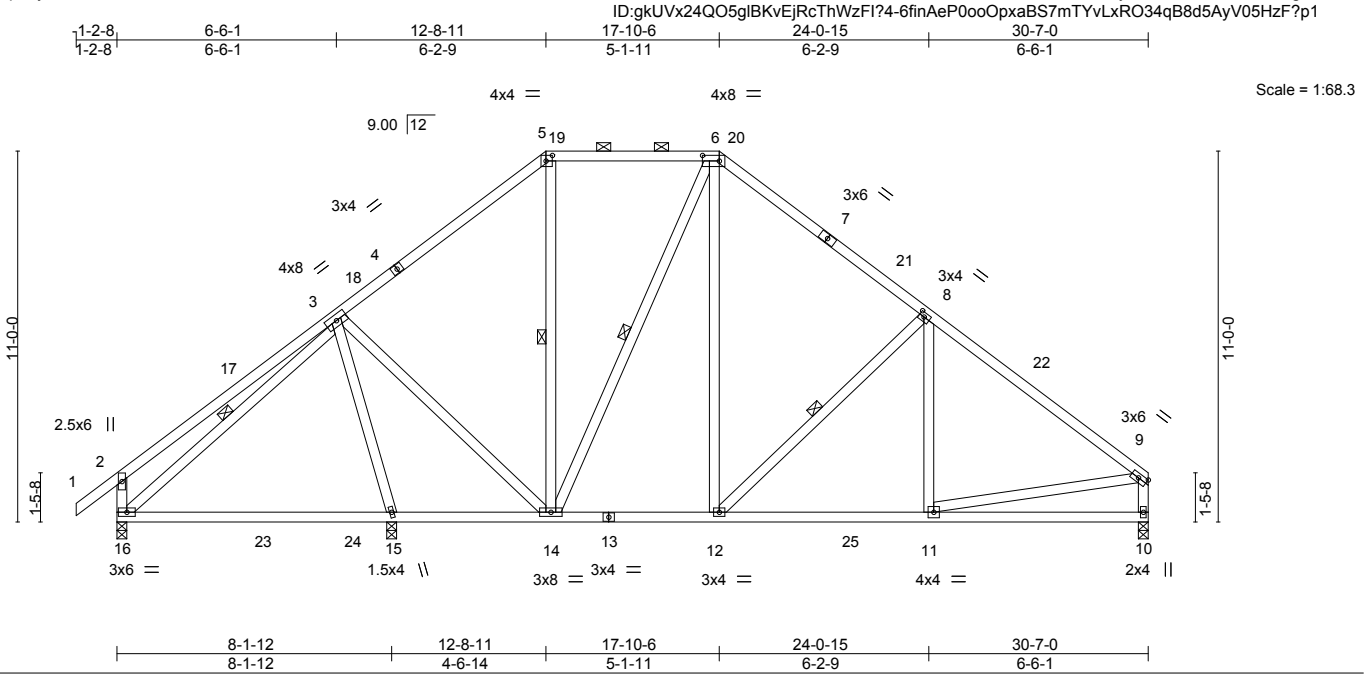


Plate Offsets (X,Y)-- [5:0-2-4,0-2-0], [6:0-6-0,0-2-0], [8:0-1-12,0-1-8], [9:Edge,0-1-8]

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	0.52	Vert(LL)	-0.14	15-16	>710	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.23	15-16	>426	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.02	10	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S							Weight: 218 lb	FT = 20%
BCDL	10.0											

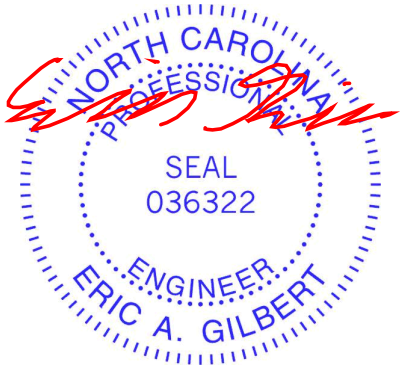
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 5-4-7 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: 14-15.
WEBS 1 Row at midpt 5-14, 6-14, 8-12, 3-16

REACTIONS. (size) 15=0-3-8, 16=0-3-8, 10=0-3-8
Max Horz 16=242(LC 11)
Max Uplift 16=-48(LC 12), 10=-5(LC 12)
Max Grav 15=1364(LC 43), 16=539(LC 24), 10=1100(LC 45)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-345/137, 3-5=-695/132, 5-6=-436/138, 6-8=-903/127, 8-9=-1250/54, 2-16=-403/136, 9-10=-1000/38
BOT CHORD 15-16=-66/345, 12-14=0/632, 11-12=0/918
WEBS 3-15=-1102/72, 3-14=0/669, 6-14=-482/0, 6-12=0/619, 8-12=-537/91, 9-11=0/835

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=12ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 19,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	T12	Piggyback Base	3	1	E14419890
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 07:21:18 2020 Page 1
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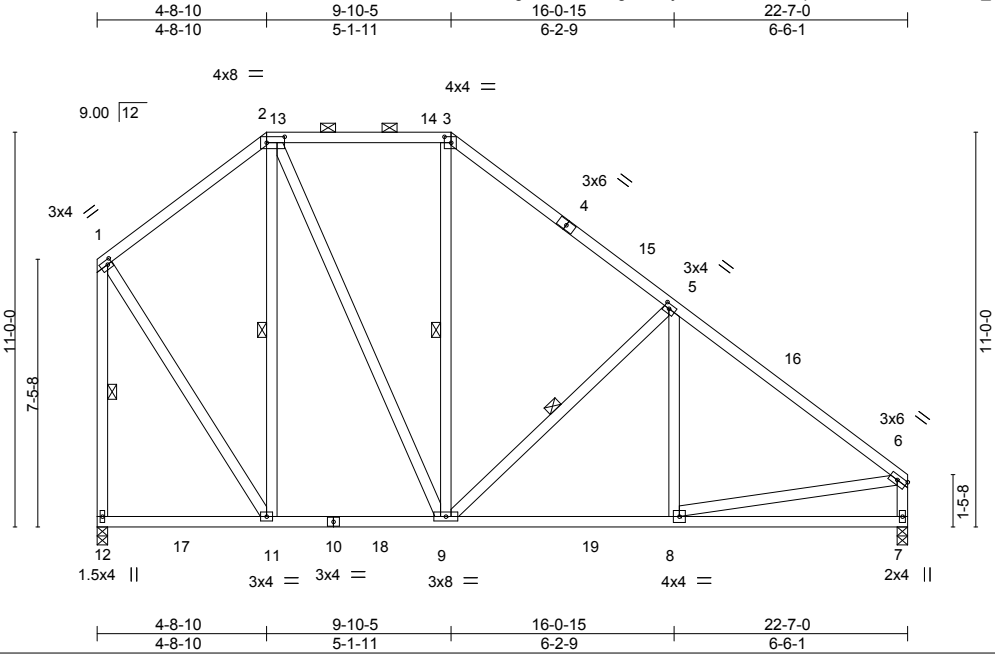


Plate Offsets (X,Y)-- [1:0-1-8,0-1-8], [2:0-6-0,0-2-0], [3:0-2-4,0-2-0], [5:0-1-12,0-1-8], [6:Edge,0-1-8]

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	0.52	Vert(LL)	-0.05	8-9	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.09	8-9	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 177 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 5-6-7 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-11, 3-9, 5-9, 1-12

REACTIONS. (size) 12=0-3-8, 7=0-3-8
Max Horz 12=-284(LC 10)
Max Uplift 12=-5(LC 12)
Max Grav 12=1102(LC 44), 7=1046(LC 44)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-583/118, 2-3=-565/121, 3-5=-834/112, 5-6=-1181/40, 1-12=-1006/39, 6-7=-947/28
BOT CHORD 9-11=0/469, 8-9=0/895
WEBS 2-11=-386/82, 2-9=-39/502, 5-9=-543/92, 1-11=-15/718, 6-8=0/820

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=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

May 19,2020

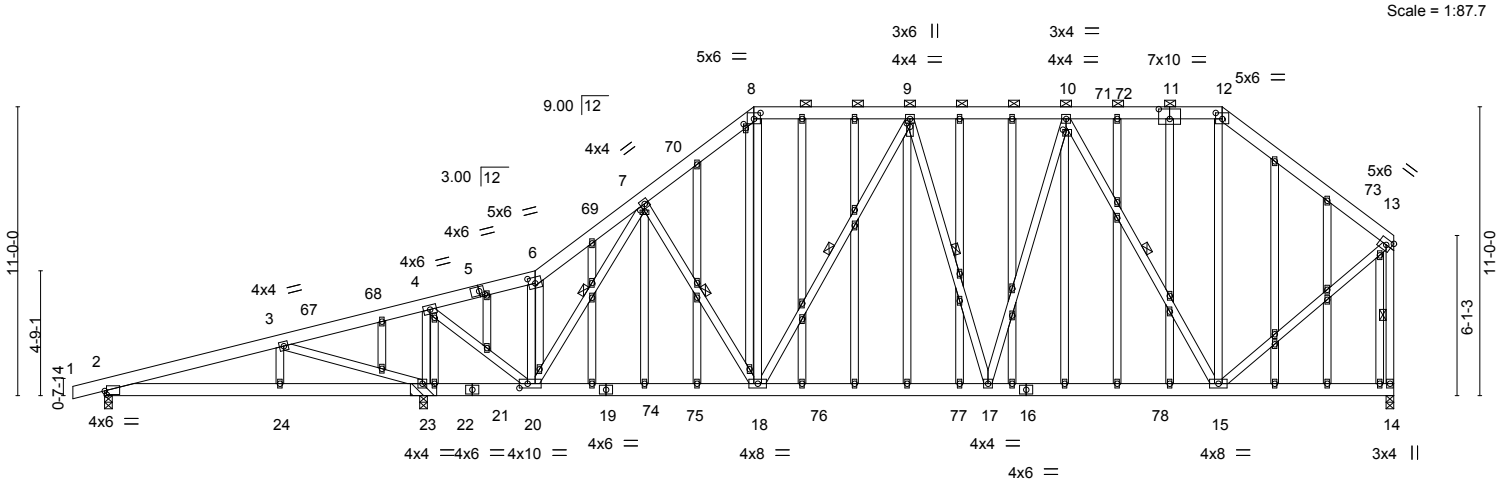
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	T13	Piggyback Base Structural Gable COMMON I I Gable	le I Gable	1	E14419891
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 07:21:24 2020 Page 1
ID:gkUVx24QO5glBKvEjRcThWzFI?4-tCBprOV2vFOhupo?bRcQD1GsnHqa3kjH?CRRMqzF?ov

-1-2-8	6-8-2	12-2-15	16-4-12	20-6-11	24-8-11	30-8-0	36-7-6	42-6-11	49-1-2
1-2-8	6-8-2	5-6-14	4-1-13	4-2-0	4-2-0	5-11-5	5-11-5	5-11-5	6-6-7

Scale = 1:87.7



6-8-2	12-2-15	12-3-8	16-4-12	24-8-11	33-7-11	42-6-11	49-1-2
6-8-2	5-6-14	0-0-9	4-1-4	8-3-15	8-11-0	8-11-0	6-6-7

Plate Offsets (X,Y)-- [2:0-0-14,0-1-11], [5:0-2-3,0-2-0], [6:0-3-0,0-2-12], [6:0-2-0,0-0-14], [7:0-2-0,0-0-8], [8:0-3-0,0-2-12], [9:0-1-9,0-1-8], [10:0-1-8,0-1-5], [11:0-5-0,0-4-8], [12:0-3-0,0-2-12], [20:0-3-12,0-2-0], [45:0-1-13,0-1-0]

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	0.37	Vert(LL)	-0.08	15-17	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.14	15-17	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.03	14	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S							Weight: 621 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Sheathed or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-12.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 7-20, 7-18, 9-18, 9-17, 10-15, 13-14

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 23=(0-3-8 + bearing block) (req. 0-4-2)
Max Horz 2=264(LC 11)
Max Uplift 2=-25(LC 12), 23=-8(LC 12)
Max Grav 2=354(LC 54), 14=1616(LC 25), 23=2614(LC 24)

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

TOP CHORD	3-4=-25/972, 4-6=-943/8, 6-7=-1157/76, 7-8=-1589/109, 8-9=-1275/110, 9-10=-1486/108, 10-12=-954/116, 12-13=-1198/96, 13-14=-1538/32
BOT CHORD	20-23=-892/46, 18-20=-19/1270, 17-18=0/1532, 15-17=0/1396
WEBS	3-24=0/256, 3-23=-994/10, 4-23=-2111/46, 4-20=0/2200, 6-20=-604/77, 7-20=-652/0, 8-18=-3/684, 9-18=-504/26, 10-17=0/460, 10-15=-983/15, 12-15=0/406, 13-15=0/1193

NOTES-

1) 2x6 SP No.1 bearing block 12" long at jt. 23 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. User Defined Bearing crushing capacity= 425psi.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=49ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
6) Unbalanced snow loads have been considered for this design.
7) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
8) Provide adequate drainage to prevent water ponding.
9) All plates are 2x4 MT20 unless otherwise indicated.
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 23.

NORTH CAROLINA PROFESSIONAL SEAL 036322 ENGINEER ERIC A. GILBERT

May 19,2020

Continued on page 2

ENGINEERING BY TRENCO A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

NOTES-

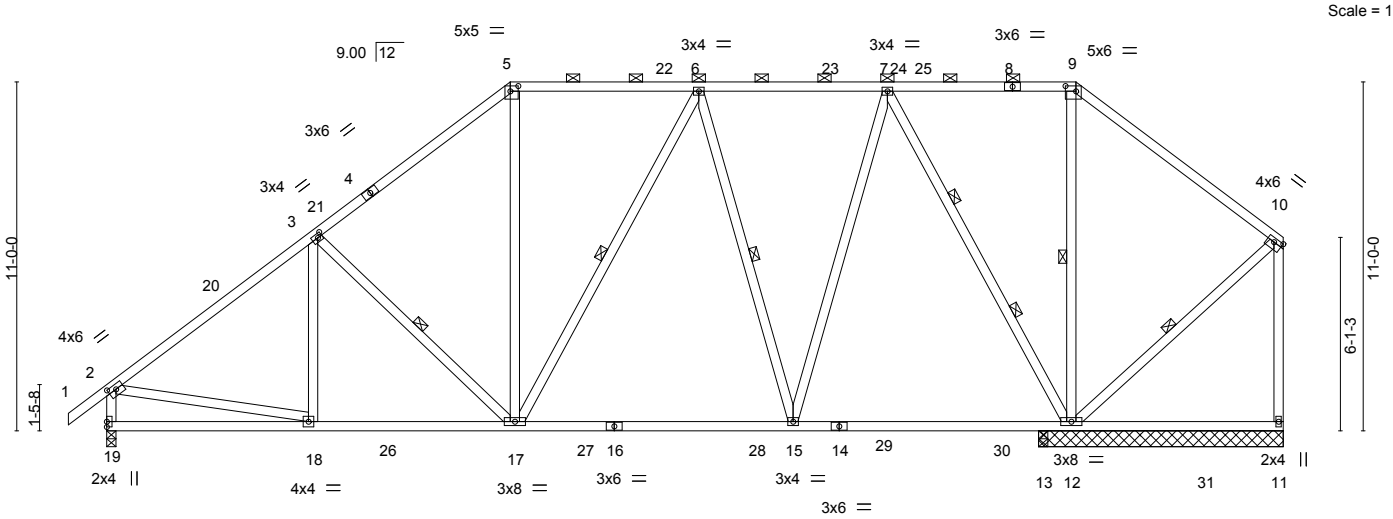
14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	T14	Piggyback Base	1	1	E14419892
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 07:21:27 2020 Page 1
ID:gkUVx24QO5glBKvEjRcThWzFI?4-HntyTPXwCAnGmGXaHa97rfuIOVnAG5rjiAf6z8zF?os

1-2-8	6-6-1	12-8-11	18-8-0	24-7-6	30-6-11	37-1-2
1-2-8	6-6-1	6-2-9	5-11-5	5-11-5	5-11-5	6-6-7

Scale = 1:72.6



6-6-1	12-8-11	21-7-11	29-8-1	30-6-11	37-1-2
6-6-1	6-2-9	8-11-0	8-0-6	0-10-10	6-6-7

Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [3:0-1-12,0-1-8], [5:0-3-0,0-2-0], [9:0-4-0,0-2-0], [10: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	0.66	Vert(LL)	-0.19	15-17	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.32	15-17	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.03	11	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S							Weight: 271 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 4-10-8 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-17, 6-17, 6-15, 9-12, 10-12
2 Rows at 1/3 pts 7-12

REACTIONS. All bearings 0-3-8 except (jt=length) 11=7-8-9, 12=7-8-9.
(lb) - Max Horz 19=289(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 19, 12 except 11=-150(LC 50)
Max Grav All reactions 250 lb or less at joint(s) 11 except 19=1422(LC 24), 12=1982(LC 42), 13=284(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1544/48, 3-5=-1256/113, 5-6=-949/123, 6-7=-767/116, 9-10=-26/372, 2-19=-1316/66, 10-11=-61/262
BOT CHORD 18-19=-237/324, 17-18=-72/1288, 15-17=-28/956, 13-15=-46/563, 12-13=-46/563
WEBS 3-17=-480/96, 5-17=0/420, 6-17=-47/355, 6-15=-531/59, 7-15=0/945, 7-12=-1524/22, 9-12=-484/29, 2-18=0/1004, 10-12=-318/78

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=12ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 12 except (jt=lb) 11=150.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

May 19,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	T15	Piggyback Base	1	1	E14419893
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 07:21:30 2020 Page 1
ID:gkUVx24QO5glBKvEjRcThWzFI?4-iMY46RaoV59qdkF8yijqTlWoxinvTTT9O8umaTzF?op

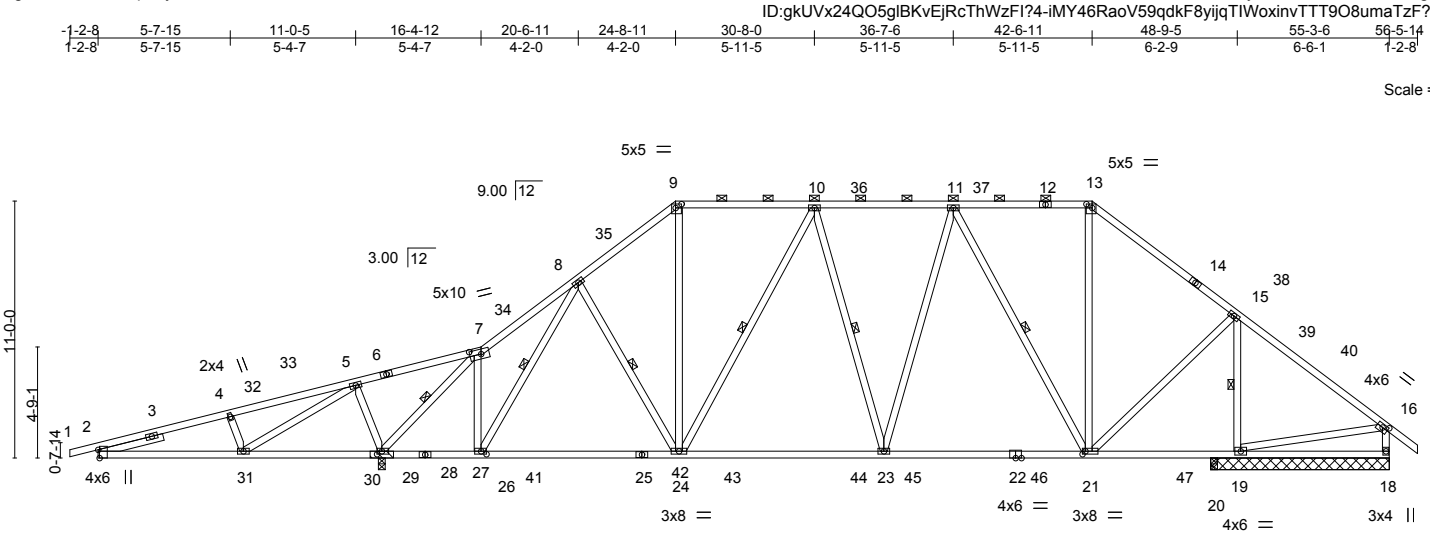


Plate Offsets (X,Y)-- [2:0-4-4,Edge], [7:0-5-12,0-2-8], [9:0-3-0,0-2-0], [13:0-3-0,0-2-0], [16:0-3-0,0-1-12], [21:0-1-8,0-1-8], [26:0-2-12,0-1-8], [29:0-2-8,0-1-8]

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	0.64	Vert(LL)	-0.20	21-23	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.32	21-23	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.04	18	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S							Weight: 368 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3
SLIDER	Left 2x4 SP No.3 -x 2-10-5

BRACING-

TOP CHORD	Sheathed or 5-3-8 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-6 max.): 9-13.
BOT CHORD	Rigid ceiling directly applied or 4-5-5 oc bracing.
WEBS	1 Row at midpt 7-29, 8-26, 8-24, 10-24, 10-23, 11-21, 15-19

REACTIONS. All bearings 0-3-8 except (jt=length) 29=0-4-10 (input: 0-3-8 + bearing block), 19=7-7-12, 18=7-7-12.
(lb) - Max Horz 29=236(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 18, 20 except 29=-286(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 18, 20 except 29=2937(LC 27), 19=2005(LC 25)

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

TOP CHORD	2-4=-242/906, 4-5=-230/1021, 5-7=-452/2136, 7-8=-785/457, 8-9=-1429/2, 9-10=-1143/24, 10-11=-1329/60, 11-13=-788/105, 13-15=-1004/90, 15-16=-65/283
BOT CHORD	2-31=-820/241, 29-31=-1835/470, 26-29=-310/732, 24-26=0/1112, 23-24=0/1417, 21-23=0/1274
WEBS	4-31=-407/95, 5-31=-236/1075, 5-29=-686/149, 7-29=-3048/193, 7-26=-171/1467, 8-26=-1385/301, 8-24=-97/402, 9-24=0/581, 10-24=-539/79, 11-23=0/481, 11-21=-1014/0, 13-21=0/311, 15-21=0/1291, 15-19=-1719/0, 16-19=-280/75

NOTES-

1) 2x4 SP No.1 bearing block 12" long at jt. 29 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. User Defined Bearing crushing capacity= 425psi.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=55ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
8) All plates are 3x6 MT20 unless otherwise indicated.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 20 except (jt=lb) 29=286.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

Continued on page 2

NORTH CAROLINA PROFESSIONAL SEAL 036322 ENGINEER ERIC A. GILBERT

May 19,2020

ENGINEERING BY TRENCO A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

NOTES-

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

Job	Truss	Truss Type	Qty	Ply	RICHARDSON
P20-04027	T17	Piggyback Base Girder	1	1	E14419894
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 07:21:33 2020 Page 1
ID:gkUVx24QO5glBKvEjRcThWzFI?4-6xEDkTchn0XPUB_jdqGX5w8M7vyGgxHb456QAozF?om

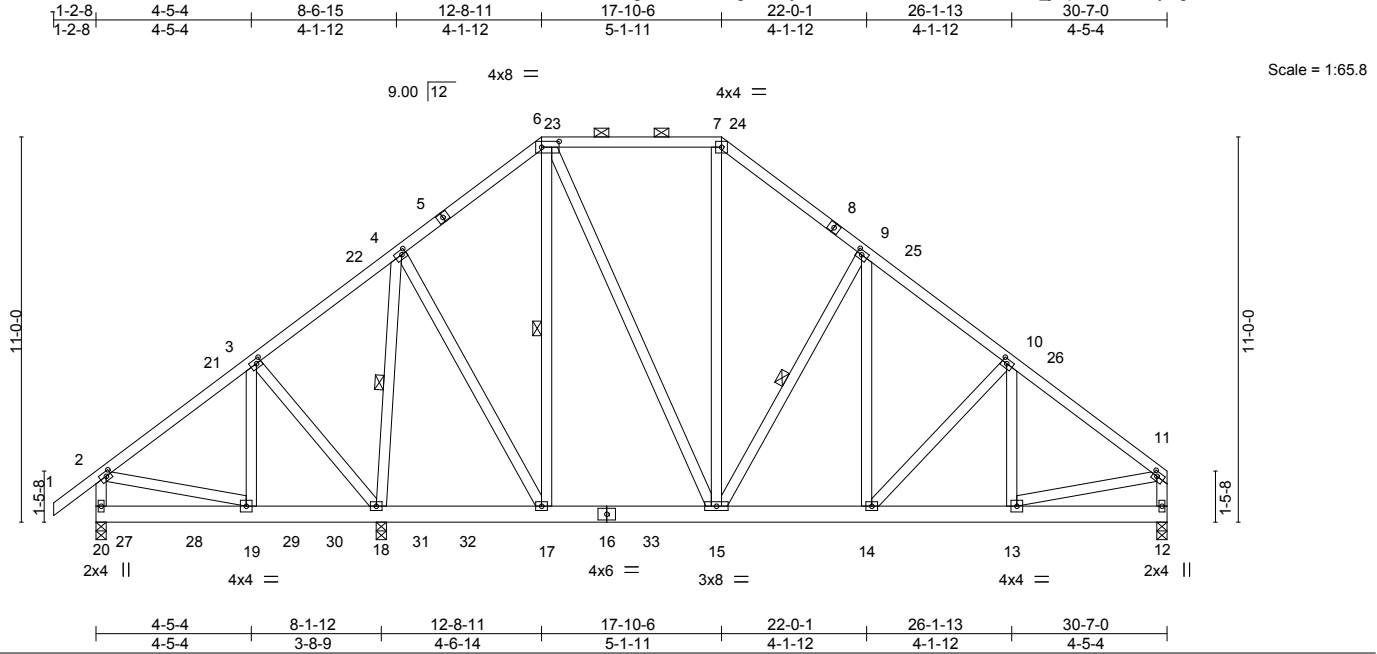


Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [3:0-1-12,0-1-8], [4:0-1-8,0-1-8], [6:0-6-0,0-2-0], [9:0-1-12,0-1-8], [10:0-1-12,0-1-8], [11:0-1-8,0-1-8]

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	0.45	Vert(LL)	-0.03	14	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.05	14	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.01	12	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S							Weight: 265 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 5-9-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-18, 6-17, 9-15

REACTIONS. (size) 20=0-3-8, 18=0-3-8, 12=0-3-8
Max Horz 20=240(LC 11)
Max Uplift 20=-32(LC 12), 18=-58(LC 12)
Max Grav 20=732(LC 2), 18=1628(LC 98), 12=1064(LC 45)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-511/23, 4-6=-625/123, 6-7=-599/123, 7-9=-824/124, 9-10=-1089/80, 10-11=-1172/31, 2-20=-544/43, 11-12=-984/18
BOT CHORD 19-20=-215/264, 18-19=-81/443, 15-17=0/462, 14-15=0/779, 13-14=0/871
WEBS 3-19=-12/301, 3-18=-455/83, 4-18=-1010/35, 4-17=0/550, 6-17=-313/5, 6-15=-11/450, 9-15=-515/83, 9-14=0/270, 2-19=-1/329, 11-13=0/835

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=12ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 3x4 MT20 unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 18.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 129 lb down and 17 lb up at 0-9-11, 125 lb down and 20 lb up at 2-9-11, and 125 lb down and 20 lb up at 4-9-11, and 125 lb down and 20 lb up at 6-9-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

May 19,2020

LOAD CASE(S) Standard

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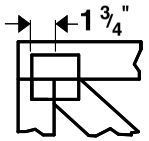
Edenton, NC 27932

LOAD CASE(S) Standard

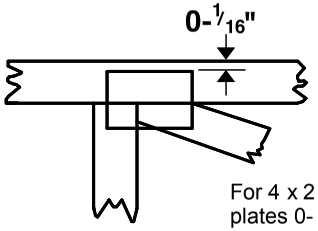
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-43, 2-6=-43, 6-7=-53, 7-11=-43, 12-20=-20
   Concentrated Loads (lb)
   Vert: 27=-107 28=-104 29=-104 30=-104

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

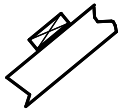
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

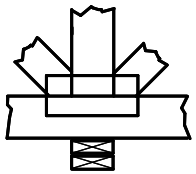
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

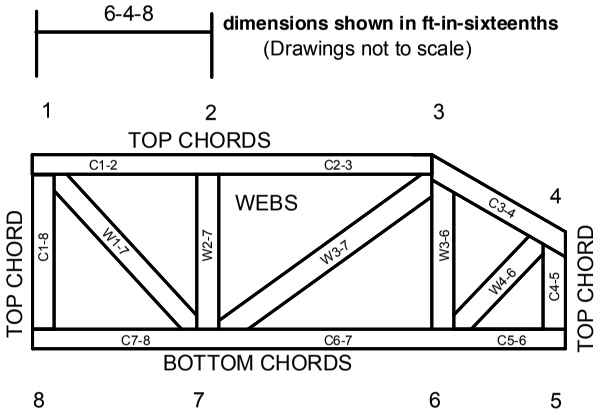


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & 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-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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.

MiTek®

ENGINEERING BY TRENCO
A MiTek Affiliate

MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. 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.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. 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.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. 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.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.