

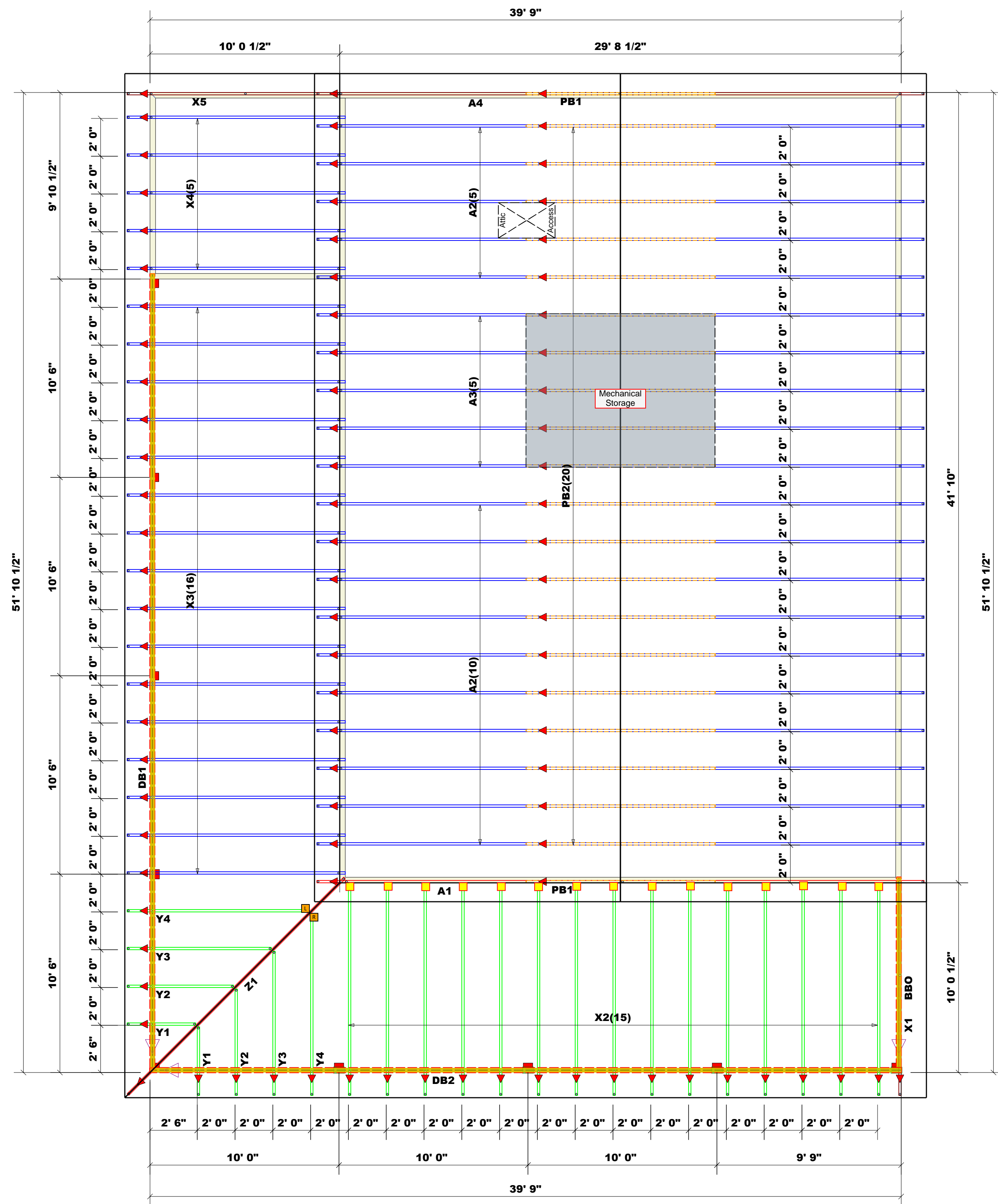


ROOF & FLOOR TRUSSES & BEAMS

Reilly Road Industrial Park
 Fayetteville, N.C. 28309
 Phone: (910) 864-8787
 Fax: (910) 864-4444

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature Neil Baggett
 Neil Baggett



Roof Area = 2705.11 sq.ft.
 Ridge Line = 43.83 ft.
 Hip Line = 16.34 ft.
 Horiz. OH = 226.13 ft.
 Raked OH = 101.27 ft.
 Decking = 93 sheets

All Walls Shown Are Considered Load Bearing

1 Truss Placement Plan
 Scale: 1/4"=1'

▲ = Denotes Left End of Truss (Reference Engineered Truss Drawing)

Dimension Notes

- All exterior wall to wall dimensions are to face of stud unless noted otherwise
- All interior wall dimensions are to face of stud unless noted otherwise
- All exterior wall to truss dimensions are to face of stud unless noted otherwise

Hatch Legend

- Padded HVAC
- Drop Beam

Connector Information					Nail Information	
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
■	JUS24	USP	15	NA	10d/3"	10d/3"
L	SKH26L	USP	1	Varies	16d/3-1/2"	10d/1-1/2"
R	SKH26R	USP	1	Varies	16d/3-1/2"	10d/1-1/2"

Products				
PlotID	Length	Product	Plies	Net Qty
DB1	44' 0"	2x12 SP No.2	2	2
DB2	40' 0"	2x12 SP No.2	2	2

All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.
 ○ -- Denotes Reaction Greater than 3,000 lbs. Reaction / # of Studs

LOAD CHART FOR JACK STUDS

(BASED ON TABLES R502.5(1) & (b))

NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER

END REACTION (UP TO)	REQ. D. STUDS FOR (1) PLY HEADER	END REACTION (UP TO)	REQ. D. STUDS FOR (1) PLY HEADER	END REACTION (UP TO)	REQ. D. STUDS FOR (1) PLY HEADER
1700	1	2550	1	3400	1
3400	2	5100	2	6800	2
5100	3	7650	3	10200	3
6800	4	10200	4	13600	4
8500	5	12750	5	17000	5
10200	6	15300	6		
11900	7				
13600	8				
15300	9				

BUILDER	CITY / CO.	Spring Lake / Harnett
Cash/Brian Shirey	ADDRESS	184 Donnas Lane
Shirey Residence	MODEL	Roof
Custom	DATE REV.	5/9/2024
Seal Date	DRAWN BY	Neil Baggett
Quote #	SALES REP.	Neil Baggett
Quote #		
Job #		J0524-2717

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com

Reaction Summary of Order




ROOF & FLOOR TRUSSES & BEAMS
 Reilly Road Industrial Park P.O. Box 40408
 Fayetteville, N.C. 28309 (910) 864-TRUS

REQ. QUOTE DATE	/ /	ORDER #	J0524-2717
ORDER DATE	05/07/24	QUOTE #	
DELIVERY DATE	/ /	CUSTOMER ACCT #	000127
DATE OF INVOICE	/ /	CUSTOMER PO #	
ORDERED BY	NONE	INVOICE #	
COUNTY	Harnett	TERMS	TO BE PRE-PAID
SUPERINTENDANT	NONE	SALES REP	Neil Baggett
JOBSITE PHONE #	() -	SALES AREA	Neil Baggett

SOLD TO	CASH OR CHECKS ONLY NO CREDIT CARDS, () -	JOB NAME: Shirey Residence MODEL: Roof TAG: Custom DELIVERY INSTRUCTIONS: 50 miles round trip	LOT # SUBDIV: JOB CATEGORY: WCall - Will Call
		SPECIAL INSTRUCTIONS:	
		PLAN SEAL DATE: BY DATE	

BUILDING DEPARTMENT	OVERHANG INFO	HEEL HEIGHT	00-06-08	REQ. LAYOUTS	REQ. ENGINEERING	QUOTE	/ /
Roof Order	END CUT	RETURN				LAYOUT	/ /
	PLUMB	GABLE STUDS	24 IN. OC	JOBSITE	1	CUTTING	NB 05/07/24

ROOF TRUSSES **LOADING INFORMATION** **ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)**

PROFILE	QTY	PITCH		TYPE ID	BASE O/A	LUMBER		OVERHANG		REACTIONS				
		TOP	BOT			TOP	BOT	LEFT	RIGHT	Joint 19	Joint 20	Joint 21	Joint 22	Joint 23
	1	8.00	0.00	PIGGYBACK A1	29-05-00 29-04-00	2 X 6	2 X 6	01-06-08	01-03-00	Joint 19 711.0 lbs. -647.8 lbs.	Joint 20 923.4 lbs. -789.9 lbs.	Joint 21 551.1 lbs. -266.7 lbs.	Joint 22 554.4 lbs. -270.1 lbs.	Joint 23 553.4 lbs. -249.9 lbs.
	15	8.00	0.00	PIGGYBACK A2	29-08-08 29-07-08	2 X 6	2 X 6	01-03-00	01-03-00	Joint 7 1418.2 lbs. -53.4 lbs.	Joint 11 1418.2 lbs. -53.4 lbs.			
	5	8.00	0.00	PIGGYBACK A3	29-08-08 29-07-08	2 X 6	2 X 6	01-03-00	01-03-00	Joint 7 1418.2 lbs. -53.4 lbs.	Joint 11 1418.2 lbs. -53.4 lbs.			
	1	8.00	0.00	GABLE A4	29-08-08 29-07-08	2 X 6	2 X 6	01-03-00	01-03-00	Joint 19 544.3 lbs. -484.1 lbs.	Joint 20 626.8 lbs. -514.0 lbs.	Joint 21 178.3 lbs. -96.1 lbs.	Joint 22 182.6 lbs. -95.6 lbs.	Joint 23 176.5 lbs. -68.5 lbs.
	2	8.00	0.00	GABLE PB1	08-05-12 08-05-12	2 X 4	2 X 4			Joint 2 113.3 lbs. -19.6 lbs.	Joint 6 113.3 lbs. -17.6 lbs.	Joint 8 225.2 lbs. -114.8 lbs.	Joint 9 111.8 lbs. 24.0 lbs.	Joint 10 225.8 lbs. -115.3 lbs.
	20	8.00	0.00	PIGGYBACK PB2	08-05-12 08-05-12	2 X 4	2 X 4			Joint 2 216.0 lbs. -37.3 lbs.	Joint 4 216.0 lbs. -44.7 lbs.	Joint 6 305.9 lbs. 24.7 lbs.		
	1	3.00	0.00	MONOPITCH X1	10-00-08 10-00-08	2 X 4	2 X 6	01-02-08		Joint 2 219.4 lbs. -83.7 lbs.	Joint 7 3.7 lbs. -9.8 lbs.	Joint 8 70.7 lbs. -25.7 lbs.	Joint 9 168.9 lbs. -47.2 lbs.	Joint 10 99.0 lbs. -39.6 lbs.
	15	3.00	0.00	JACK-CLOSED X2	10-00-08 10-00-08	2 X 4	2 X 6	01-02-08		Joint 2 464.0 lbs. -184.5 lbs.	Joint 7 411.8 lbs. -159.0 lbs.			
	16	3.00	0.00	MONOPITCH X3	10-00-08 10-00-08	2 X 4	2 X 6	01-02-08	00-03-08	Joint 2 484.2 lbs. -192.6 lbs.	Joint 6 394.5 lbs. -160.3 lbs.			
	5	3.00	0.00	MONOPITCH X4	10-00-08 10-00-08	2 X 4	2 X 6	01-02-08	00-03-08	Joint 2 484.2 lbs. -79.0 lbs.	Joint 6 394.5 lbs. -48.4 lbs.			
	1	3.00	0.00	MONOPITCH X5	10-00-08 10-00-08	2 X 4	2 X 6	01-02-08		Joint 2 219.4 lbs. -83.7 lbs.	Joint 7 3.7 lbs. -9.8 lbs.	Joint 8 70.7 lbs. -25.7 lbs.	Joint 9 168.9 lbs. -47.2 lbs.	Joint 10 99.0 lbs. -39.6 lbs.

Reaction Summary of Order

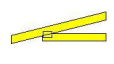
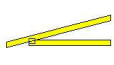
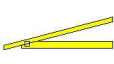
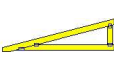
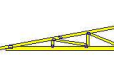


ROOF & FLOOR TRUSSES & BEAMS
 Reilly Road Industrial Park P.O. Box 40408
 Fayetteville, N.C. 28309 (910) 864-TRUS

REQ. QUOTE DATE	/ /	ORDER #	J0524-2717
ORDER DATE	05/07/24	QUOTE #	
DELIVERY DATE	/ /	CUSTOMER ACCT #	000127
DATE OF INVOICE	/ /	CUSTOMER PO #	
ORDERED BY	NONE	INVOICE #	
COUNTY	Harnett	TERMS	TO BE PRE-PAID
SUPERINTENDANT	NONE	SALES REP	Neil Baggett
JOBSITE PHONE #	() -	SALES AREA	Neil Baggett

SOLD TO	CASH OR CHECKS ONLY NO CREDIT CARDS, () -	JOB NAME: Shirey Residence MODEL: Roof TAG: Custom DELIVERY INSTRUCTIONS: 50 miles round trip	LOT # SUBDIV: JOB CATEGORY: WCall - Will Call
		SPECIAL INSTRUCTIONS:	PLAN SEAL DATE: BY DATE
SHIPP TO	Cash/Brian Shirey 184 Donnas Lane Spring Lake, NC		

BUILDING DEPARTMENT Roof Order	OVERHANG INFO	HEEL HEIGHT	00-06-08	REQ. LAYOUTS	REQ. ENGINEERING	QUOTE	/ /	
	END CUT	RETURN				LAYOUT	/ /	
	PLUMB		GABLE STUDS	24 IN. OC	JOBSITE	1	CUTTING	NB

ROOF TRUSSES		LOADING INFORMATION		TCLL-TCDL-BCLL-BCDL		STRESS INCR.		ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)				
PROFILE	QTY	PITCH		TYPE ID	BASE O/A	LUMBER		OVERHANG		REACTIONS		
		TOP	BOT			TOP	BOT	LEFT	RIGHT			
	2	3.00	0.00	JACK-OPEN Y1	02-04-15 02-04-15	2 X 4	2 X 4	01-02-08		Joint 2 185.1 lbs. -86.7 lbs.	Joint 3 52.9 lbs. -19.4 lbs.	Joint 4 40.0 lbs. -12.6 lbs.
	2	3.00	0.00	JACK-OPEN Y2	04-04-15 04-04-15	2 X 4	2 X 4	01-02-08		Joint 2 256.5 lbs. -110.6 lbs.	Joint 3 113.1 lbs. -43.4 lbs.	Joint 4 78.1 lbs. -24.0 lbs.
	2	3.00	0.00	JACK-OPEN Y3	06-04-15 06-04-15	2 X 4	2 X 6	01-02-08		Joint 2 333.4 lbs. -138.4 lbs.	Joint 3 142.0 lbs. -54.2 lbs.	Joint 4 132.1 lbs. -47.1 lbs.
	2	3.00	0.00	JACK-CLOSED Y4	08-04-15 08-04-15	2 X 6	2 X 6	01-02-08		Joint 2 379.3 lbs. -150.1 lbs.	Joint 6 348.2 lbs. -132.2 lbs.	
	1	2.12	0.00	ROOF Z1	14-05-14 14-05-14	2 X 4	2 X 6	01-08-08		Joint 2 924.4 lbs. -386.8 lbs.	Joint 9 1350.2 lbs. -528.3 lbs.	

ITEMS

QTY	ITEM TYPE	SIZE	LENGTH FT-IN-16	PART NUMBER	NOTES
15	Hangers, USP	JUS24			SIMPSON (LUS24)
1	Hangers, USP	SKH26L			SIMPSON (SUL26)
1	Hangers, USP	SKH26R			SIMPSON (SUR26)

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0524-2717
Cash/Shirey Residence/Harnett

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I65454086 thru I65454101

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

North Carolina COA: C-0844



May 9, 2024

Gilbert, Eric

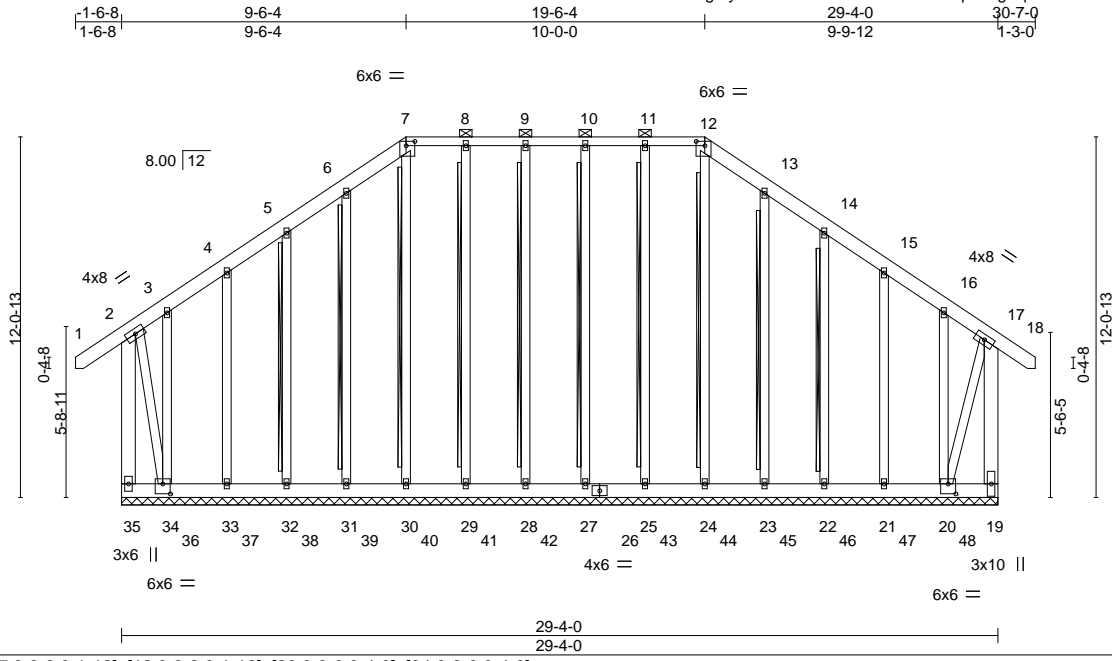
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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

Job J0524-2717	Truss A1	Truss Type PIGGYBACK BASE GIRDE	Qty 1	Ply 1	Cash/Shirey Residence/Harnett Job Reference (optional)	165454086
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 8 14:57:42 2024 Page 1

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Scale = 1:77.1

Plate Offsets (X, Y)--	[7:0-3-8,0-1-12], [12:0-3-8,0-1-12], [20:0-3-0,0-4-0], [34:0-3-0,0-4-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.09	Vert(LL) -0.00 17 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) 0.00 17 n/r 120		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.32	Horz(CT) -0.01 19 n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-S		Weight: 378 lb	FT = 25%

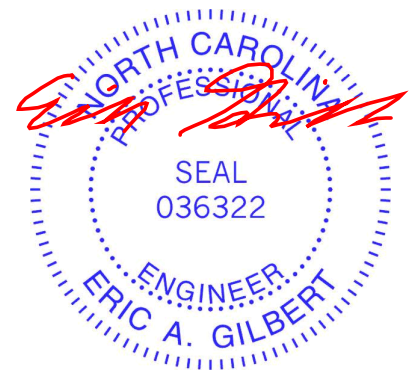
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 7-12: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 7-12.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 19-20.
WEBS 2x6 SP No.1 *Except*	WEBS T-Brace: 2x4 SPF No.2 - 12-24, 11-25, 10-27, 9-28, 8-29, 7-30, 6-31, 5-32, 13-23, 14-22
OTHERS 2x4 SP No.2	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 29-4-0.
(lb) - Max Horz 35=452(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) except 35=732(LC 4), 19=648(LC 5), 24=184(LC 6), 25=195(LC 4), 27=-236(LC 5), 28=-222(LC 4), 29=-215(LC 4), 30=-158(LC 7), 31=-251(LC 8), 32=-268(LC 8), 33=-278(LC 8), 34=-750(LC 5), 23=-250(LC 9), 22=-270(LC 9), 21=-267(LC 9), 20=-790(LC 4)
Max Grav All reactions 250 lb or less at joint(s) except 35=834(LC 34), 19=711(LC 25), 24=558(LC 1), 25=510(LC 1), 27=587(LC 19), 28=557(LC 20), 29=557(LC 1), 30=548(LC 1), 31=558(LC 1), 32=547(LC 19), 33=575(LC 1), 34=853(LC 25), 23=553(LC 1), 22=554(LC 20), 21=551(LC 1), 20=923(LC 34)

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

TOP CHORD	2-35=588/536, 6-7=56/267, 12-13=77/278, 17-19=620/570
BOT CHORD	34-35=408/366, 33-34=277/247, 32-33=277/247, 31-32=277/247, 30-31=277/247, 29-30=277/247, 28-29=277/247, 27-28=277/247, 25-27=277/247, 24-25=277/247, 23-24=277/247, 22-23=277/247, 21-22=277/247, 20-21=277/247
WEBS	2-34=622/591, 17-20=625/592

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide is provided between the bottom chord and any other members.



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

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

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job J0524-2717	Truss A1	Truss Type PIGGYBACK BASE GIRDE	Qty 1	Ply 1	Cash/Shirey Residence/Harnett I65454086 Job Reference (optional)
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 8 14:57:42 2024 Page 2
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NOTES-

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 732 lb uplift at joint 35, 648 lb uplift at joint 19, 184 lb uplift at joint 24, 195 lb uplift at joint 25, 236 lb uplift at joint 27, 222 lb uplift at joint 28, 215 lb uplift at joint 29, 158 lb uplift at joint 30, 251 lb uplift at joint 31, 268 lb uplift at joint 32, 278 lb uplift at joint 33, 750 lb uplift at joint 34, 250 lb uplift at joint 23, 270 lb uplift at joint 22, 267 lb uplift at joint 21 and 790 lb uplift at joint 20.
- 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) 402 lb down and 170 lb up at 0-3-4, 392 lb down and 181 lb up at 2-2-12, 392 lb down and 181 lb up at 4-2-12, 392 lb down and 181 lb up at 6-2-12, 392 lb down and 181 lb up at 8-2-12, 392 lb down and 181 lb up at 10-2-12, 392 lb down and 181 lb up at 12-2-12, 392 lb down and 181 lb up at 14-2-12, 392 lb down and 181 lb up at 16-2-12, 392 lb down and 181 lb up at 18-2-12, 392 lb down and 181 lb up at 20-2-12, 392 lb down and 181 lb up at 22-2-12, 392 lb down and 181 lb up at 24-2-12, and 392 lb down and 181 lb up at 26-2-12, and 393 lb down and 180 lb up at 28-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
- 15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-7=-60, 7-12=-60, 12-17=-60, 17-18=-60, 19-35=-20

Concentrated Loads (lb)

Vert: 35=-402(F) 26=-392(F) 36=-392(F) 37=-392(F) 38=-392(F) 39=-392(F) 40=-392(F) 41=-392(F) 42=-392(F) 43=-392(F) 44=-392(F) 45=-392(F) 46=-392(F) 47=-392(F) 48=-393(F)

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

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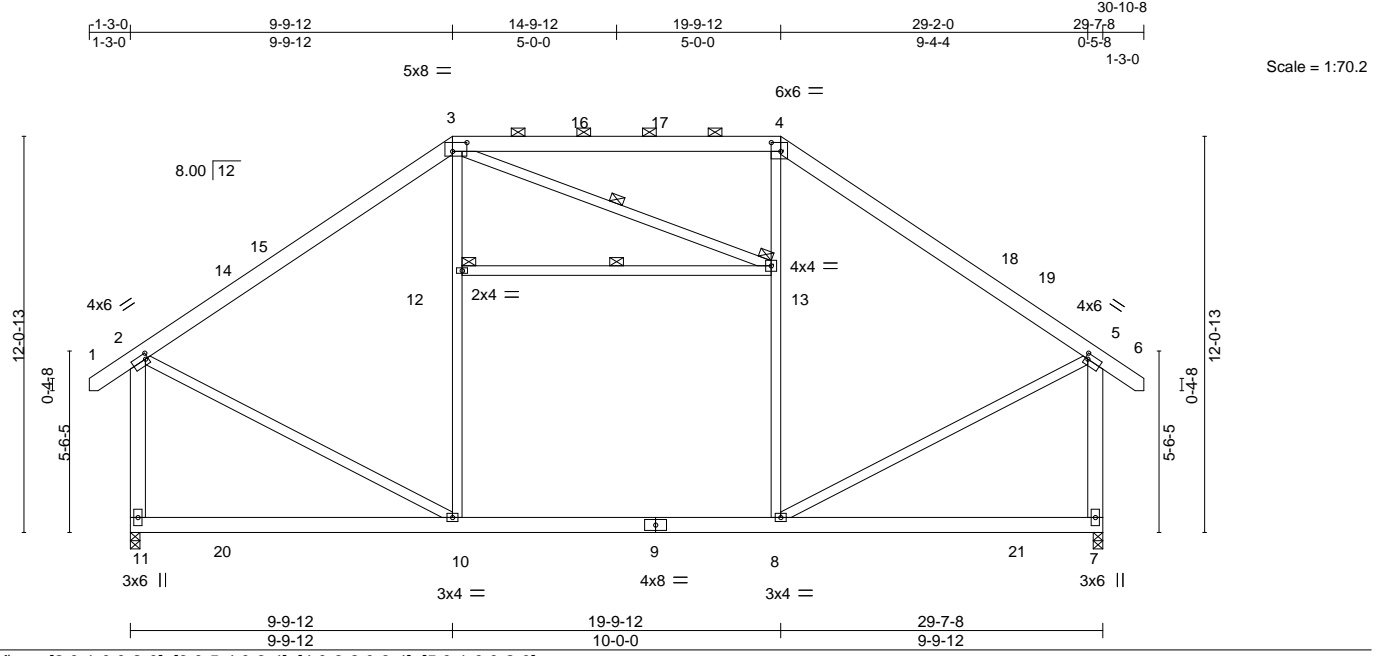


818 Soundside Road
Edenton, NC 27932

Job J0524-2717	Truss A2	Truss Type PIGGYBACK BASE	Qty 15	Ply 1	Cash/Shirey Residence/Harnett Job Reference (optional)	I65454087
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 8 14:57:43 2024 Page 1
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.40	Vert(LL)	-0.18	8-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.46	Vert(CT)	-0.22	8-10	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.01	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.20	10-11	>999		
								Weight: 272 lb	FT = 25%

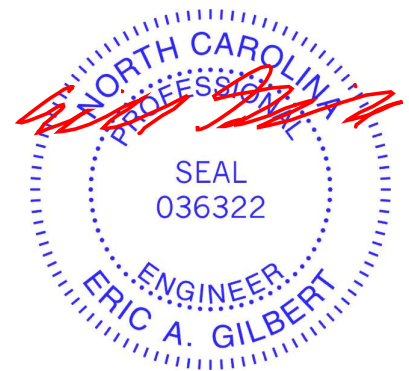
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2 *Except* 2-11,5-7: 2x6 SP No.1	WEBS 1 Row at midpt 12-13, 3-13
	JOINTS 1 Brace at Jt(s): 12, 13

REACTIONS. (size) 11=0-3-8, 7=0-3-8
 Max Horz 11=-356(LC 10)
 Max Uplift 11=-53(LC 12), 7=-53(LC 13)
 Max Grav 11=1418(LC 2), 7=1418(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1118/332, 3-4=-821/384, 4-5=-1118/332, 2-11=-1253/424, 5-7=-1252/424
 BOT CHORD 10-11=-333/377, 8-10=-175/864
 WEBS 2-10=-135/905, 5-8=-136/905

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 9-10-4, Exterior(2) 9-10-4 to 16-0-15, Interior(1) 16-0-15 to 19-10-4, Exterior(2) 19-10-4 to 26-0-15, Interior(1) 26-0-15 to 30-9-7 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 11 and 53 lb uplift at joint 7.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 9, 2024

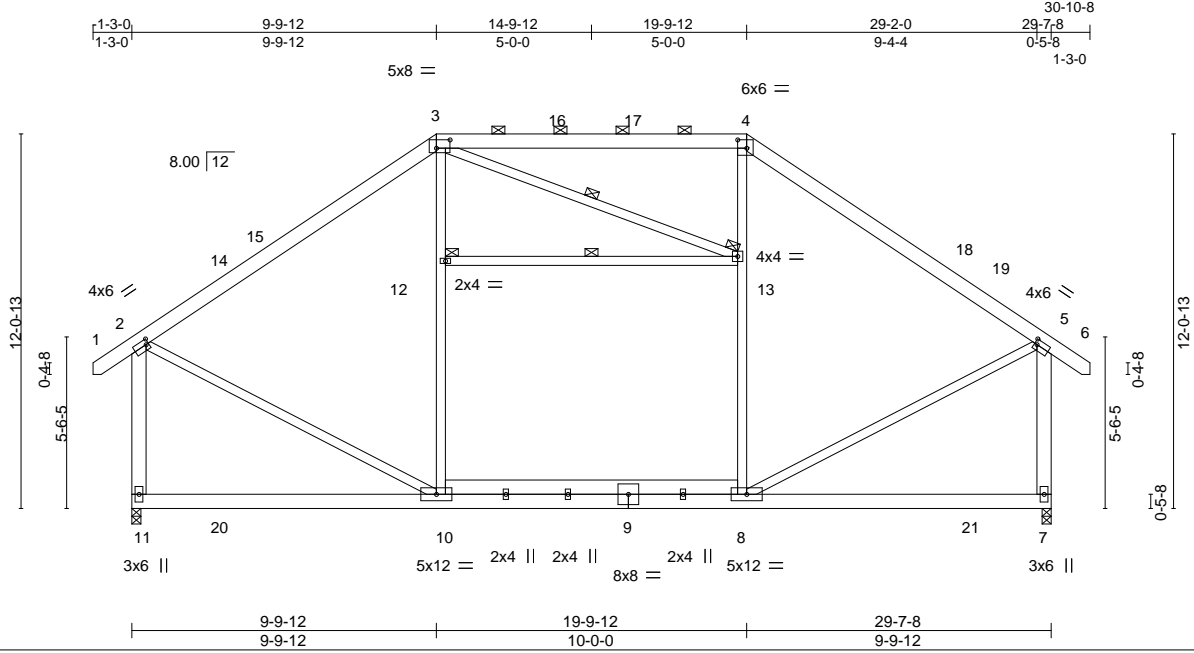
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p>	 818 Soundside Road Edenton, NC 27932
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Job J0524-2717	Truss A3	Truss Type PIGGYBACK BASE	Qty 5	Ply 1	Cash/Shirey Residence/Harnett Job Reference (optional)	165454088
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 8 14:57:43 2024 Page 1

ID:nsiXU10oULrH1SgmyBZWMUzvBdO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f



Scale = 1:74.2

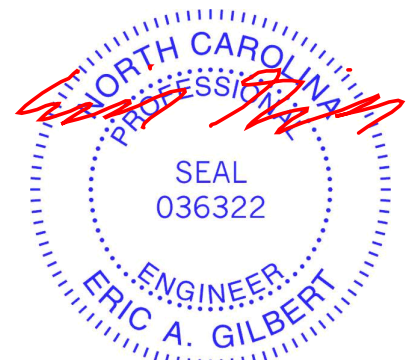
Plate Offsets (X,Y)--	[2:0-1-0,0-2-0], [3:0-5-4,0-3-4], [4:0-3-8,0-3-4], [5:0-1-0,0-2-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.40	Vert(LL) -0.18 8-10 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.46	Vert(CT) -0.22 8-10 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.28	Horz(CT) 0.01 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.20 10-11 >999 240	Weight: 294 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2 *Except* 2-11,5-7: 2x6 SP No.1	WEBS 1 Row at midpt 12-13, 3-13
	JOINTS 1 Brace at Jt(s): 12, 13

REACTIONS.	(size) 11=0-3-8, 7=0-3-8
	Max Horz 11=-356(LC 10)
	Max Uplift 11=-53(LC 12), 7=-53(LC 13)
	Max Grav 11=1418(LC 2), 7=1418(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1118/332, 3-4=-821/384, 4-5=-1118/332, 2-11=-1253/424, 5-7=-1252/424
BOT CHORD	10-11=-333/377, 8-10=-175/864
WEBS	2-10=-135/905, 5-8=-136/905

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 9-10-4, Exterior(2) 9-10-4 to 16-0-15, Interior(1) 16-0-15 to 19-10-4, Exterior(2) 19-10-4 to 26-0-15, Interior(1) 26-0-15 to 30-9-7 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf 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.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 11 and 53 lb uplift at joint 7.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 8) 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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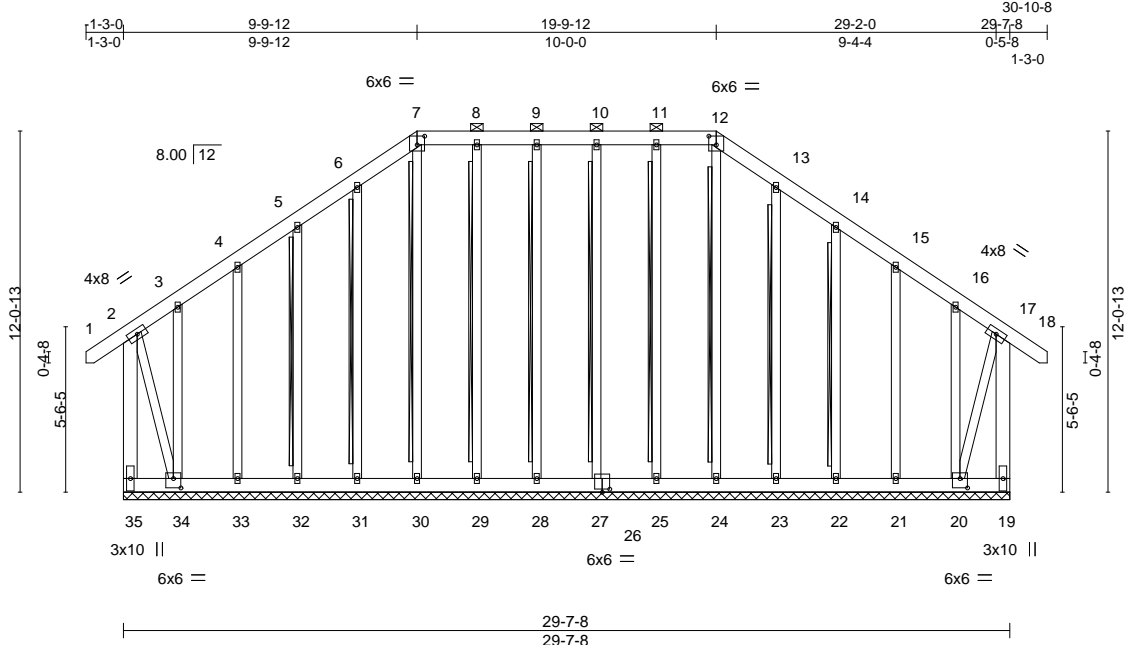
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job J0524-2717	Truss A4	Truss Type GABLE	Qty 1	Ply 1	Cash/Shirey Residence/Harnett Job Reference (optional)	165454089
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Comtech, Inc. Fayetteville, NC - 28314,

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ID:nsXU10oULrH1SgmyBZWMUzvBdO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDOI7J4zJC?f



Scale = 1:77.0

Plate Offsets (X,Y)--	[7:0-3-0,0-3-8], [12:0-3-0,0-3-8], [20:0-3-0,0-3-12], [26:0-3-0,0-1-4], [34:0-3-0,0-3-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	-0.00	18	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.00	18	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.29	Horz(CT)	-0.01	19	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 386 lb	FT = 25%

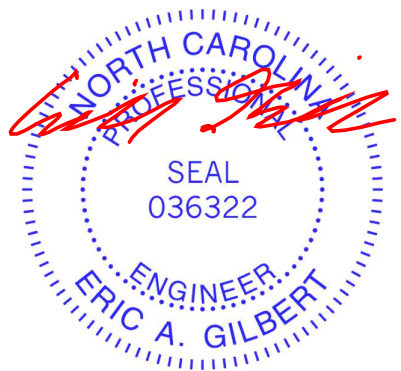
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1 *Except*
2-34,17-20: 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 7-12.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 12-24, 11-25, 10-27, 9-28, 8-29, 7-30, 6-31, 5-32, 13-23, 14-22
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS. All bearings 29-7-8.
(lb) - Max Horz 35=446(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 25, 27, 28, 29, 31, 32, 33, 23, 22, 21 except 35=581(LC 8), 19=484(LC 9), 34=593(LC 9), 20=514(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 24, 25, 27, 28, 29, 30, 31, 32, 33, 23, 22, 21 except 35=645(LC 11), 19=544(LC 10), 34=710(LC 10), 20=627(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-208/283, 6-7=-258/342, 7-8=-235/317, 8-9=-234/317, 9-10=-234/317, 10-11=-234/317, 11-12=-235/317, 12-13=-258/342, 13-14=-208/283, 2-35=-599/548, 17-19=-502/456
BOT CHORD 34-35=-406/368
WEBS 2-34=-603/575, 17-20=-521/496

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 27, 28, 29, 31, 32, 33, 23, 22, 21 except (jt=lb) 35=581, 19=484, 34=593, 20=514.
- 2D/3D representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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TRENCO
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818 Soundside Road
Edenton, NC 27932

Job J0524-2717	Truss A4	Truss Type GABLE	Qty 1	Ply 1	Cash/Shirey Residence/Hamett I65454089 Job Reference (optional)
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 8 14:57:44 2024 Page 2
ID:nsiXU10oULrH1SgmyBZWMUzvBdO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

NOTES-

13) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

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

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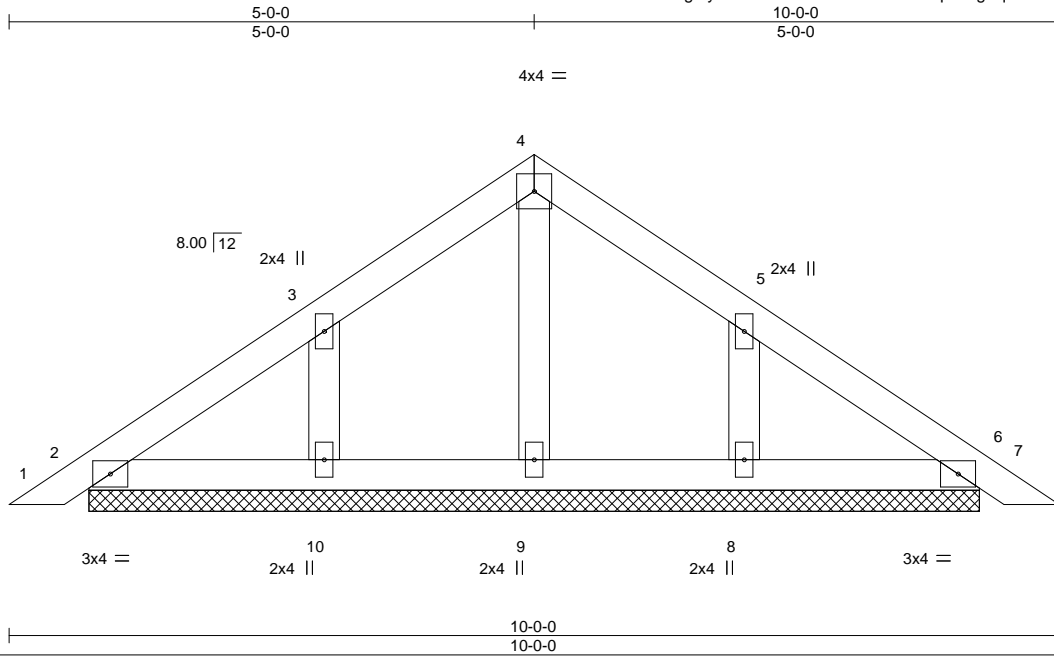
818 Soundside Road
Edenton, NC 27932

Job J0524-2717	Truss PB1	Truss Type GABLE	Qty 2	Ply 1	Cash/Shirey Residence/Harnett 165454090
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 8 14:57:45 2024 Page 1

ID:nsiXU10oULrH1SgmyBZWMUzvBdO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f



Scale = 1:21.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	0.00	6	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	0.00	7	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 38 lb	FT = 25%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.

REACTIONS. All bearings 8-5-12.
 (lb) - Max Horz 2=-95(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-115(LC 12), 8=-115(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2'-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=115, 8=115.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



May 9, 2024

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

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



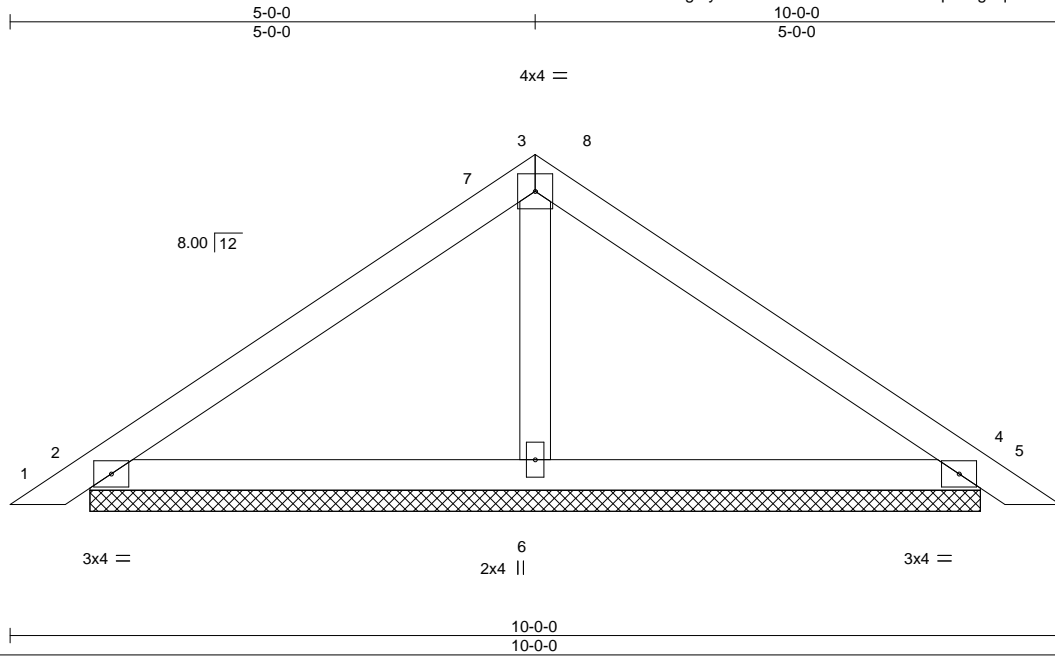
818 Soundside Road
 Edenton, NC 27932

Job J0524-2717	Truss PB2	Truss Type PIGGYBACK	Qty 20	Ply 1	Cash/Shirey Residence/Harnett 165454091
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 8 14:57:45 2024 Page 1

ID:nsiXU10oULrH1SgmyBZWMUzvBdO-RfC?PsB70Hq3NSgPqnL8w3uiTXbGKWrcDoi7J4zJC?f



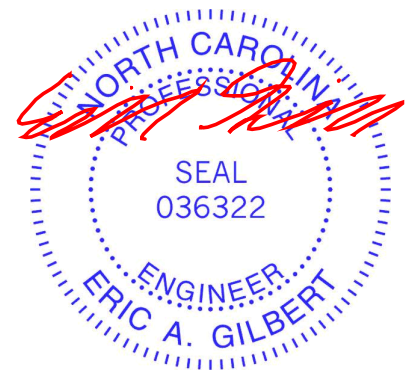
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.25	Vert(LL)	0.01	5	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.13	Vert(CT)	0.02	5	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 34 lb	FT = 25%
	Code IRC2015/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (size) 2=8-5-12, 4=8-5-12, 6=8-5-12
 Max Horz 2=-76(LC 10)
 Max Uplift 2=-37(LC 12), 4=-45(LC 13)
 Max Grav 2=216(LC 1), 4=216(LC 1), 6=306(LC 1)

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 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-2 to 4-7-15, Interior(1) 4-7-15 to 5-0-0, Exterior(2) 5-0-0 to 9-2-14, Interior(1) 9-2-14 to 9-8-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
 - 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



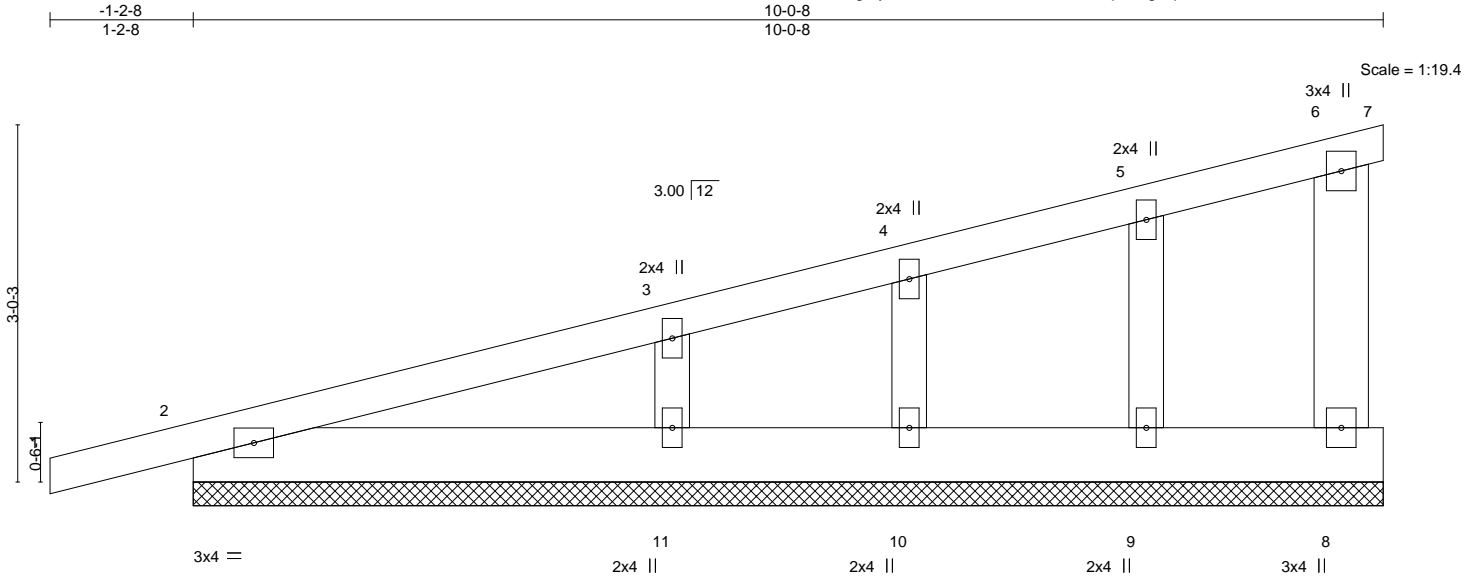
May 9, 2024

Job	Truss	Truss Type	Qty	Ply	Cash/Shirey Residence/Harnett	165454092
J0524-2717	X1	MONOPITCH SUPPORTED	1	1	Job Reference (optional)	

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 8 14:57:46 2024 Page 1

ID:nsIXU10oULrH1SgmyBZWMUzvBdO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.11	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	-0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 52 lb	FT = 25%

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

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

REACTIONS. All bearings 10-0-8.
(lb) - Max Horz 2=134(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 7, 8, 2, 9, 10, 11
Max Grav All reactions 250 lb or less at joint(s) 7, 8, 2, 9, 10 except 11=307(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 8, 2, 9, 10, 11.



May 9, 2024

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

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818 Soundside Road
Edenton, NC 27932

Job J0524-2717	Truss X2	Truss Type JACK-CLOSED	Qty 15	Ply 1	Cash/Shirey Residence/Harnett Job Reference (optional)	165454093
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 8 14:57:46 2024 Page 1

ID:nsiXU10oULrH1SgmyBZWMUzvBdO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

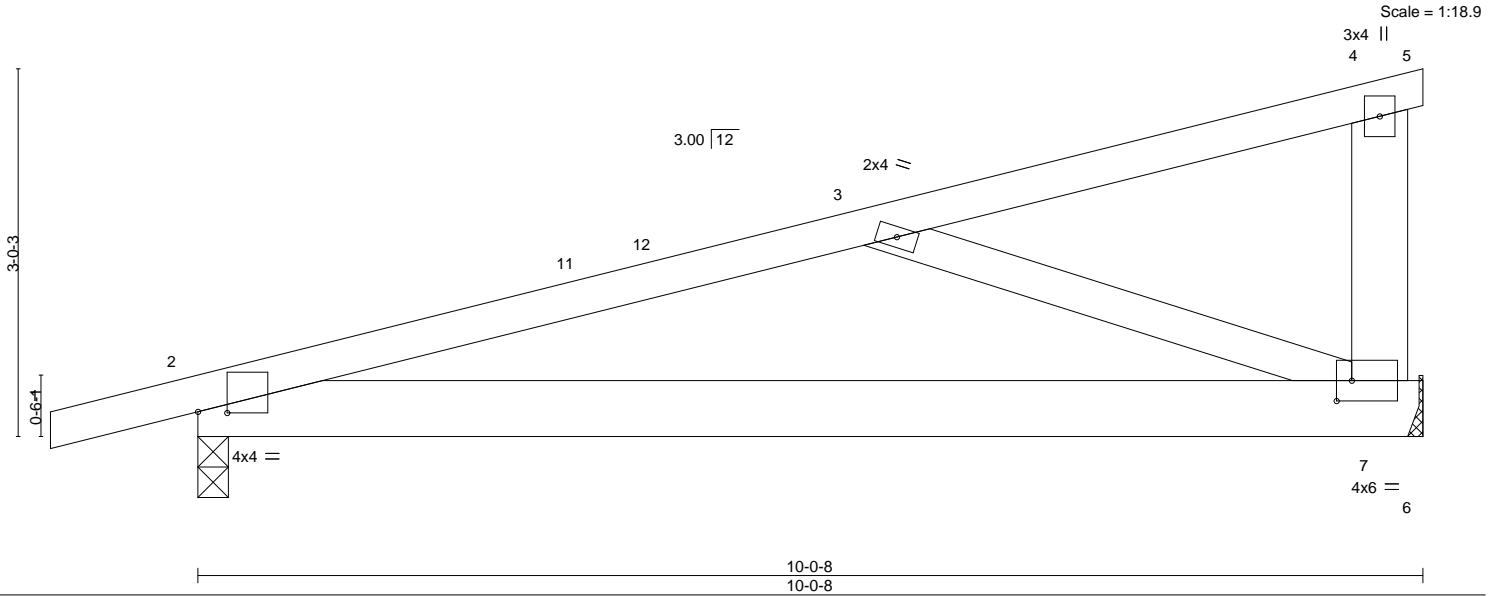
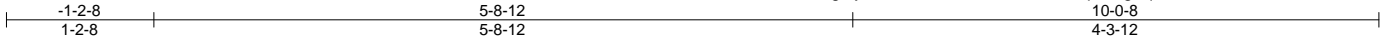


Plate Offsets (X,Y)--	[2:0-2-14,0-0-2], [7:0-1-8,0-2-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.23	Vert(LL)	-0.05	7-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.24	Vert(CT)	-0.10	7-10	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.12	7-10	>986	Weight: 52 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x6 SP No.1 *Except* 3-7: 2x4 SP No.2	

REACTIONS.	(size)
2=0-3-0, 7=Mechanical	
Max Horz 2=96(LC 8)	
Max Uplift 2=-185(LC 8), 7=-159(LC 8)	
Max Grav 2=464(LC 1), 7=412(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-631/544
BOT CHORD	2-7=-633/594
WEBS	3-7=-528/491

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 10-0-8 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf 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.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=185, 7=159.
 - 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



May 9, 2024

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Job J0524-2717	Truss X3	Truss Type MONOPITCH	Qty 16	Ply 1	Cash/Shirey Residence/Harnett Job Reference (optional)	165454094
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 8 14:57:47 2024 Page 1
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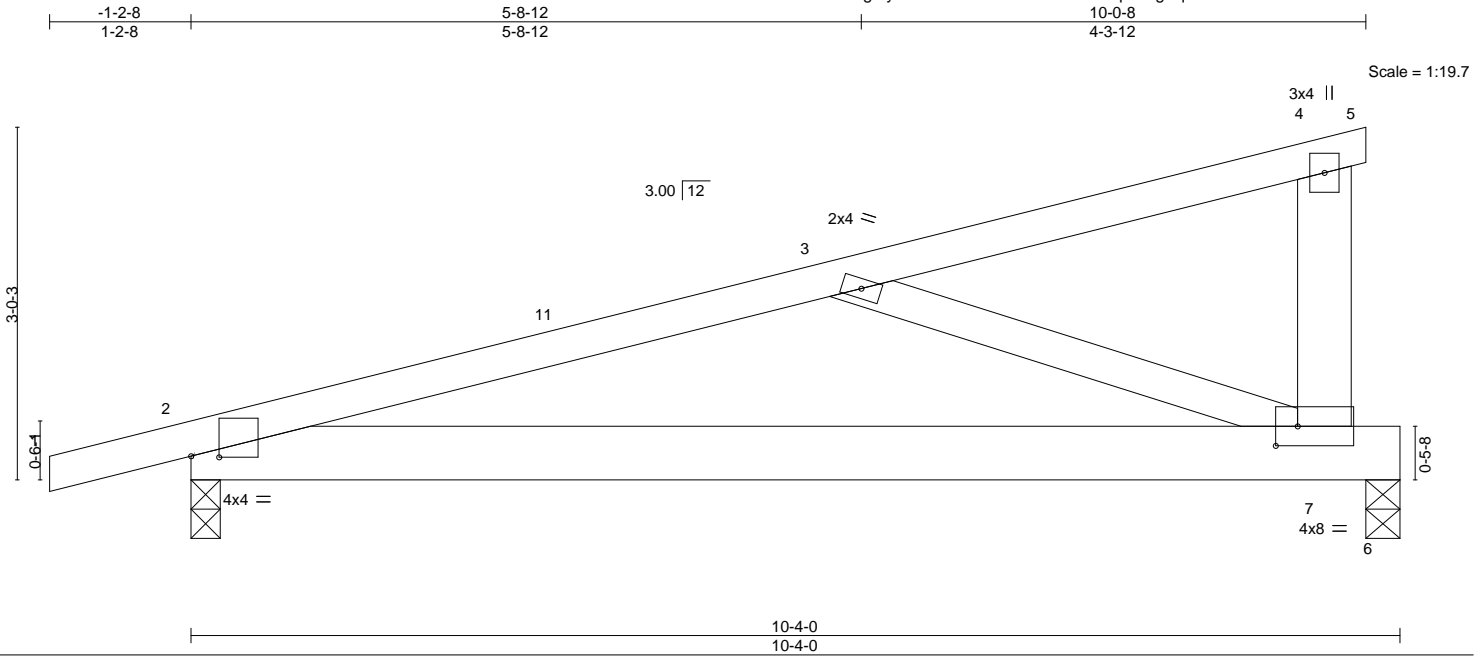


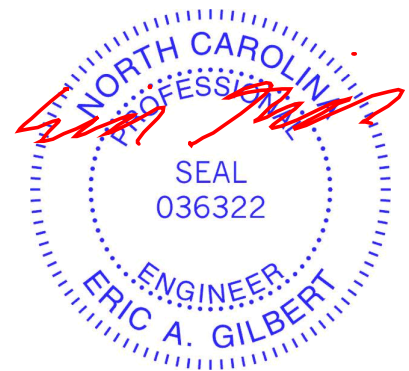
Plate Offsets (X,Y)--	[2:0-2-14,0-0-2], [7:0-2-4,0-2-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.31	Vert(LL) -0.05 7-10 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.25	Vert(CT) -0.12 7-10 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.17	Horz(CT) 0.01 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.14 7-10 >902 240	Weight: 53 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x6 SP No.1 *Except* 3-7: 2x4 SP No.2	

REACTIONS. (size) 2=0-3-0, 6=0-3-8
 Max Horz 2=96(LC 8)
 Max Uplift 2=-193(LC 8), 6=-160(LC 8)
 Max Grav 2=484(LC 1), 6=395(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-690/563
 BOT CHORD 2-7=-645/652
 WEBS 3-7=-528/431

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 10-0-8 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf 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.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=193, 6=160.
 - 5) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



May 9, 2024

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Job	Truss	Truss Type	Qty	Ply	Cash/Shirey Residence/Harnett	165454095
J0524-2717	X4	MONOPICH	5	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 8 14:57:47 2024 Page 1
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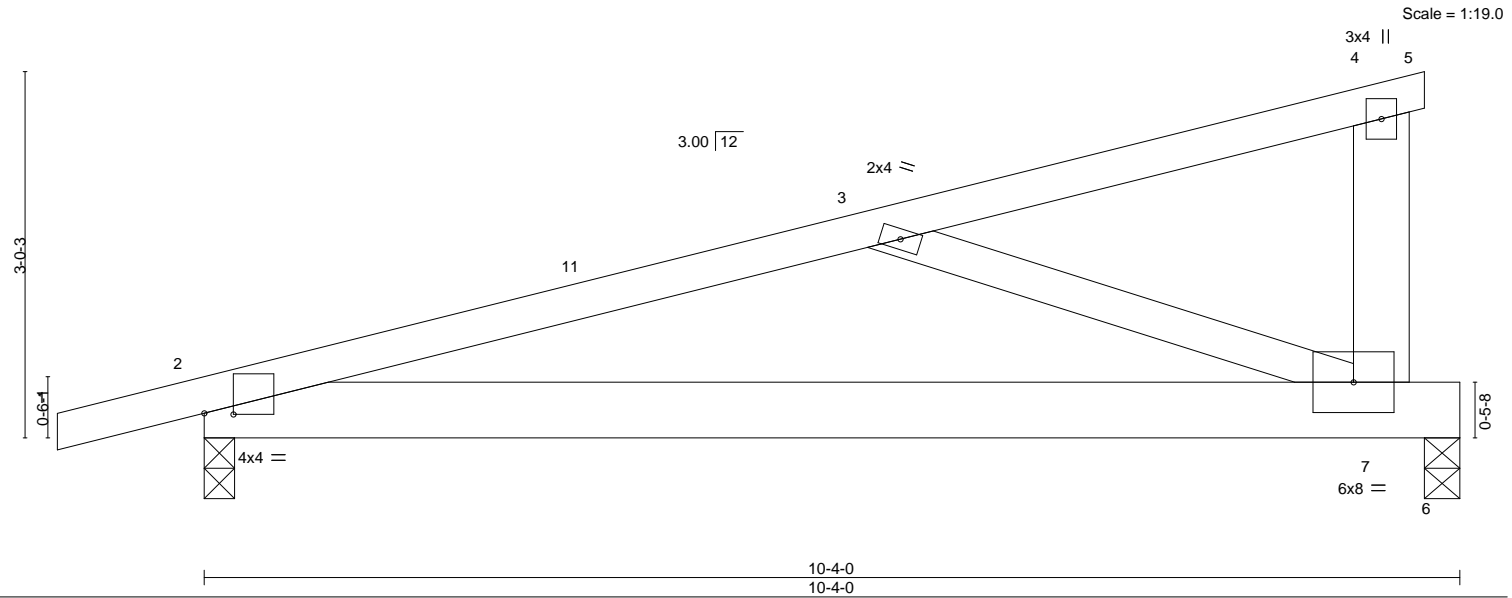
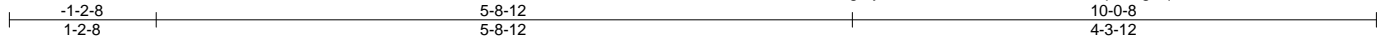


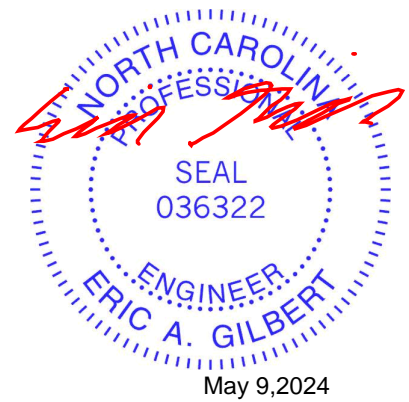
Plate Offsets (X,Y)--	[2:0-2-14,0-0-2]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.30	Vert(LL)	-0.05	7-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.25	Vert(CT)	-0.12	7-10	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(CT)	0.01	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.02	7-10	>999	240		
									Weight: 53 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x6 SP No.1 *Except*	
3-7: 2x4 SP No.2	

REACTIONS. (size) 2=0-3-0, 6=0-3-8
 Max Horz 2=96(LC 8)
 Max Uplift 2=-79(LC 8), 6=-48(LC 12)
 Max Grav 2=484(LC 1), 6=395(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-690/226
 BOT CHORD 2-7=-302/652
 WEBS 3-7=-528/291

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 10-0-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf 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.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
 - 5) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

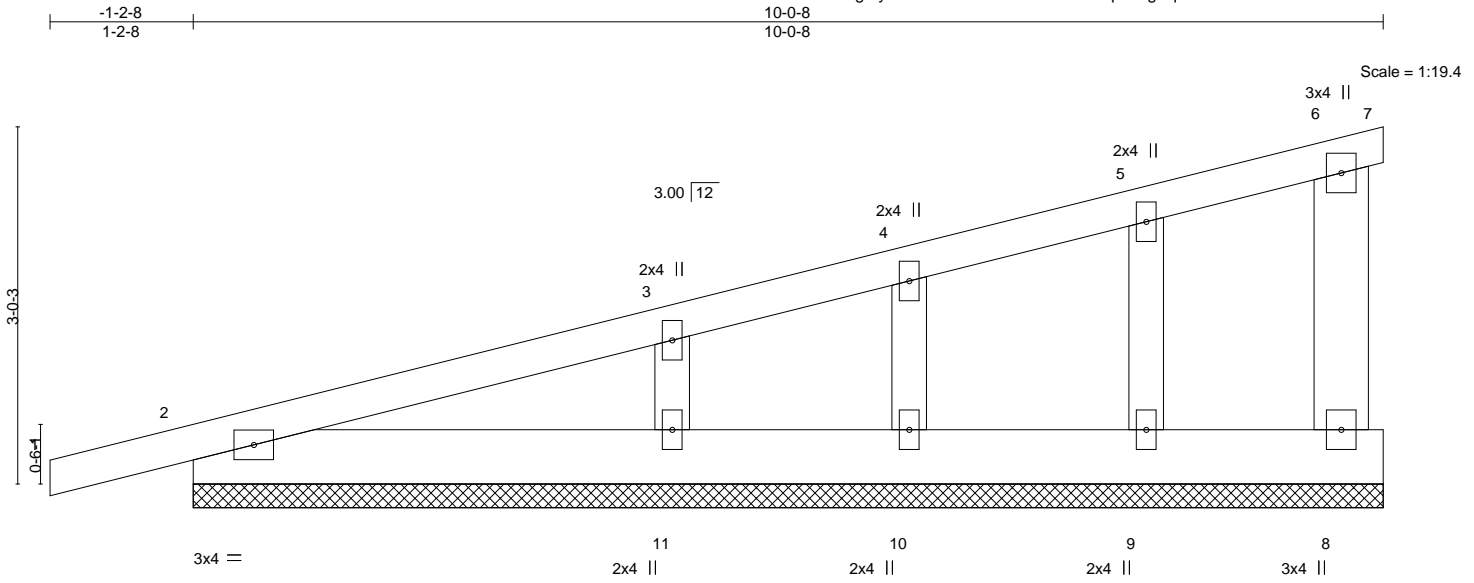


Job	Truss	Truss Type	Qty	Ply	Cash/Shirey Residence/Harnett	165454096
J0524-2717	X5	MONOPITCH SUPPORTED	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 8 14:57:47 2024 Page 1

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.11	Vert(LL)	0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	-0.00	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 52 lb	FT = 25%

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

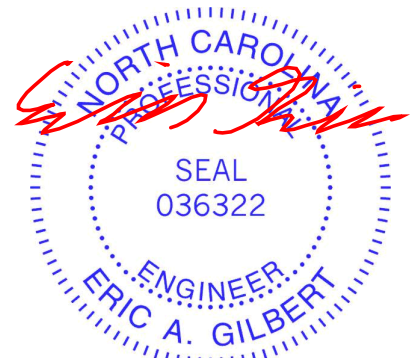
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 10-0-8.
 (lb) - Max Horz 2=134(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 7, 8, 2, 9, 10, 11
 Max Grav All reactions 250 lb or less at joint(s) 7, 8, 2, 9, 10 except 11=307(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 8, 2, 9, 10, 11.



May 9, 2024

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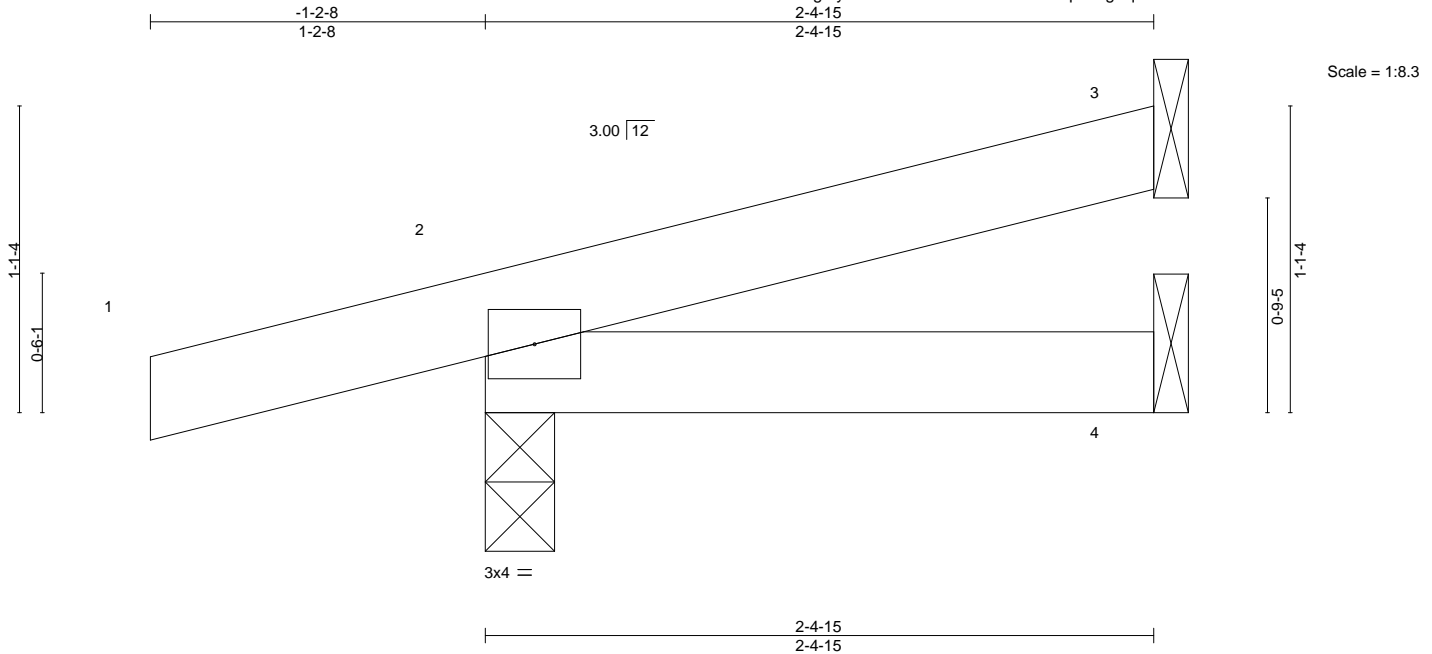


818 Soundside Road
 Edenton, NC 27932

Job J0524-2717	Truss Y1	Truss Type JACK-OPEN	Qty 2	Ply 1	Cash/Shirey Residence/Harnett Job Reference (optional)	I65454097
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 8 14:57:48 2024 Page 1
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	-0.00	7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	4-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.00	4-7	>999	240	Weight: 9 lb	FT = 25%

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

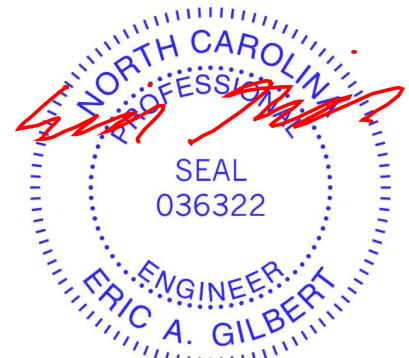
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical
Max Horz 2=34(LC 8)
Max Uplift 3=-19(LC 8), 2=-87(LC 8), 4=-13(LC 9)
Max Grav 3=53(LC 1), 2=185(LC 1), 4=40(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf 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.
- 4) Refer to girder(s) for truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.



May 9, 2024

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

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Job	Truss	Truss Type	Qty	Ply	Cash/Shirey Residence/Harnett	165454098
J0524-2717	Y2	JACK-OPEN	2	1	Job Reference (optional)	

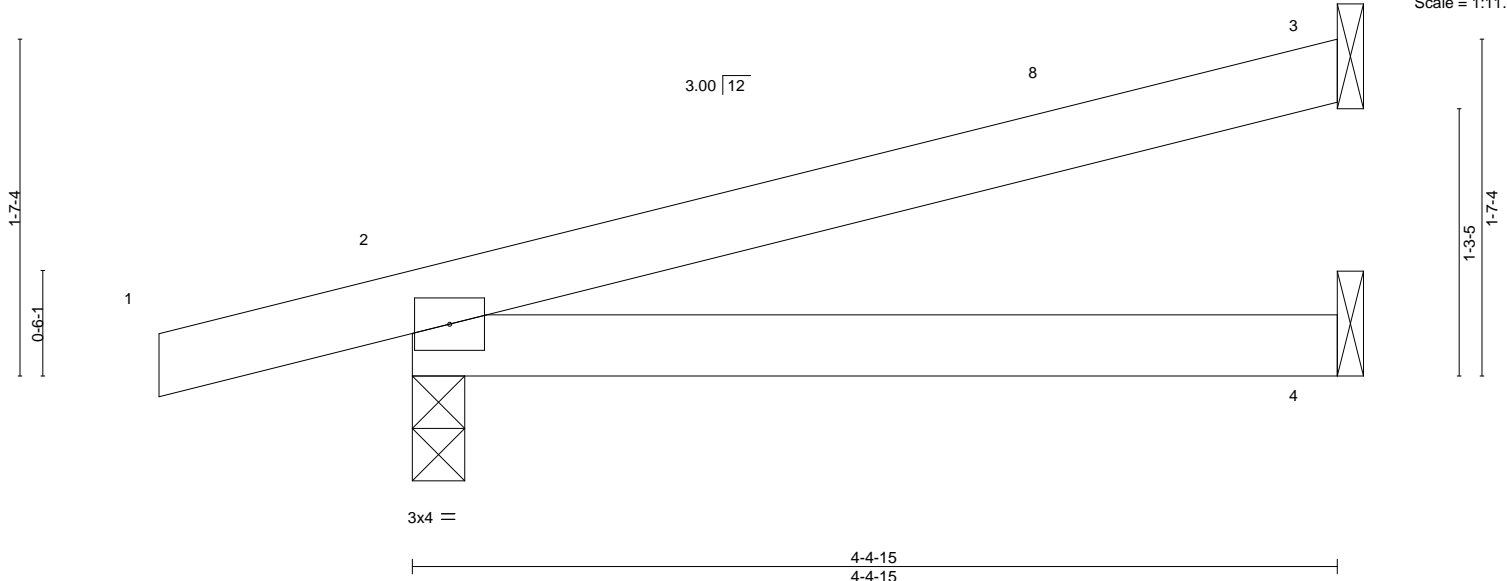
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 8 14:57:48 2024 Page 1

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Scale = 1:11.0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	0.04	4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.03	4-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS						Weight: 15 lb	FT = 25%

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

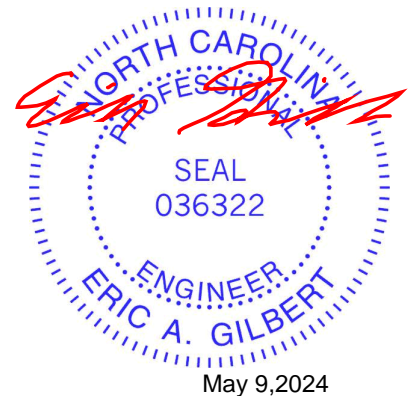
BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical
Max Horz 2=50(LC 8)
Max Uplift 3=43(LC 8), 2=111(LC 8), 4=24(LC 8)
Max Grav 3=113(LC 1), 2=257(LC 1), 4=78(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 4-4-3 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=111.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



May 9, 2024

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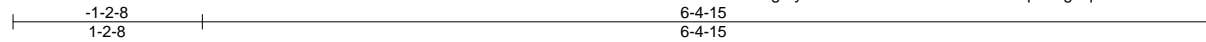
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cash/Shirey Residence/Hamett	I65454099
J0524-2717	Y3	JACK-OPEN	2	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 8 14:57:49 2024 Page 1

ID:nsIXU10oULrH1SgmyBZWMUzvBdO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f



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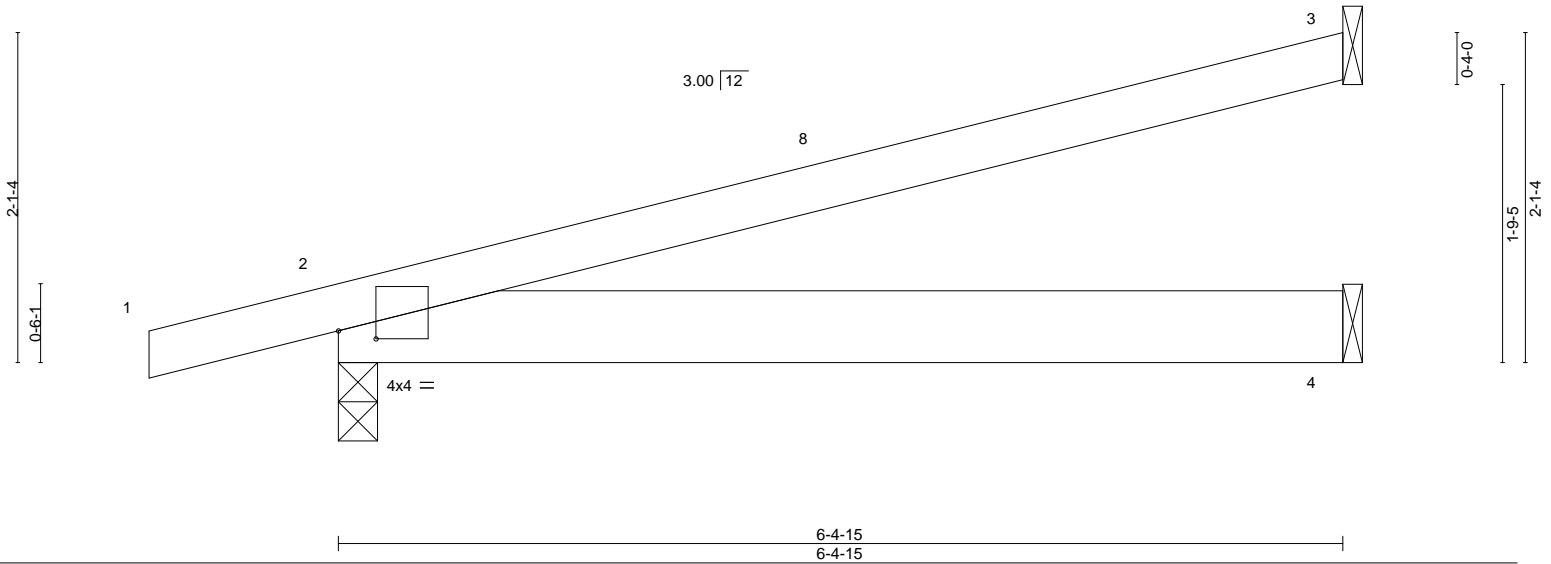


Plate Offsets (X,Y)--	[2:0-2-14,0-0-10]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL) -0.02 4-7 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(CT) -0.05 4-7 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.07 4-7 >999 240	Weight: 27 lb	FT = 25%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical
Max Horz 2=66(LC 8)
Max Uplift 3=54(LC 8), 2=138(LC 8), 4=47(LC 8)
Max Grav 3=142(LC 1), 2=333(LC 1), 4=132(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 6-4-3 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=138.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



May 9, 2024

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818 Soundside Road
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Job J0524-2717	Truss Y4	Truss Type JACK-CLOSED	Qty 2	Ply 1	Cash/Shirey Residence/Harnett Job Reference (optional)	I65454100
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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 8 14:57:49 2024 Page 1

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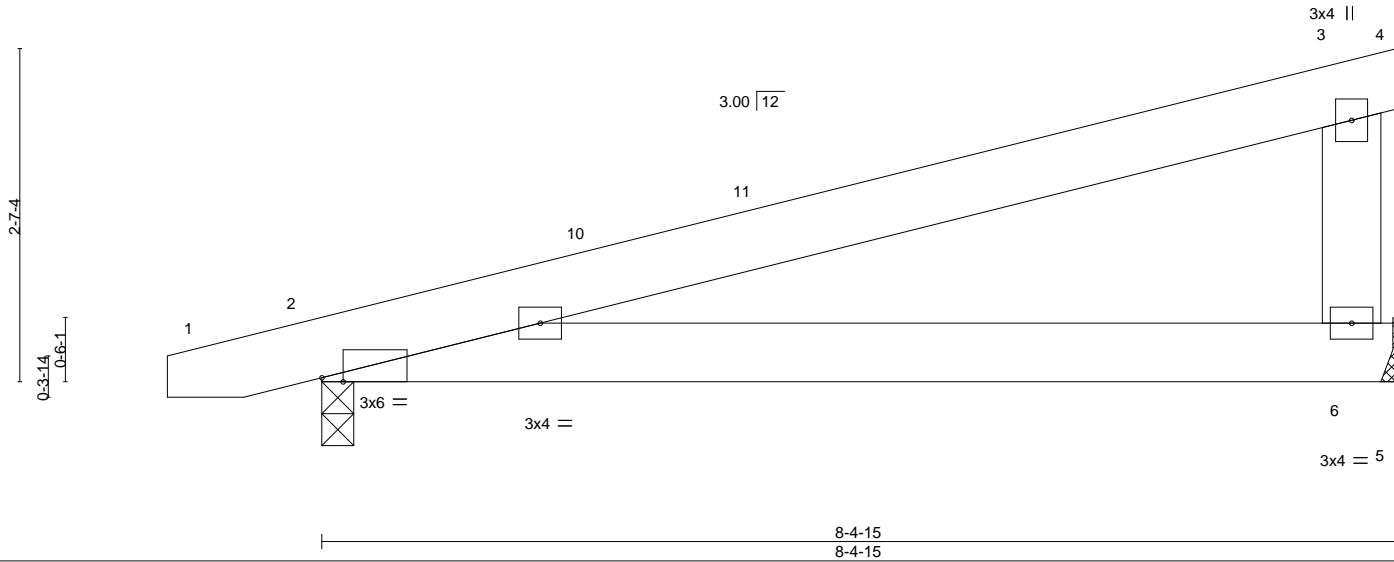


Plate Offsets (X,Y)--	[2:0-2-0,Edge]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.04	6-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.25	Vert(CT)	-0.10	6-9	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	2	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.12	6-9	>837		
								Weight: 47 lb	FT = 25%

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

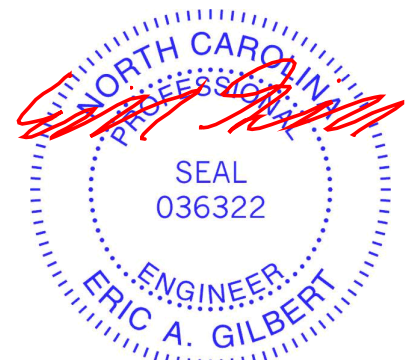
BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 6=Mechanical, 2=0-3-0
 Max Horz 2=79(LC 8)
 Max Uplift 6=132(LC 8), 2=150(LC 8)
 Max Grav 6=348(LC 1), 2=379(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-15 to 3-5-14, Interior(1) 3-5-14 to 8-4-15 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=132, 2=150.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



May 9,2024

Job	Truss	Truss Type	Qty	Ply	Cash/Shirey Residence/Harnett	165454101
J0524-2717	Z1	ROOF SPECIAL GIRDER	1	1	Job Reference (optional)	

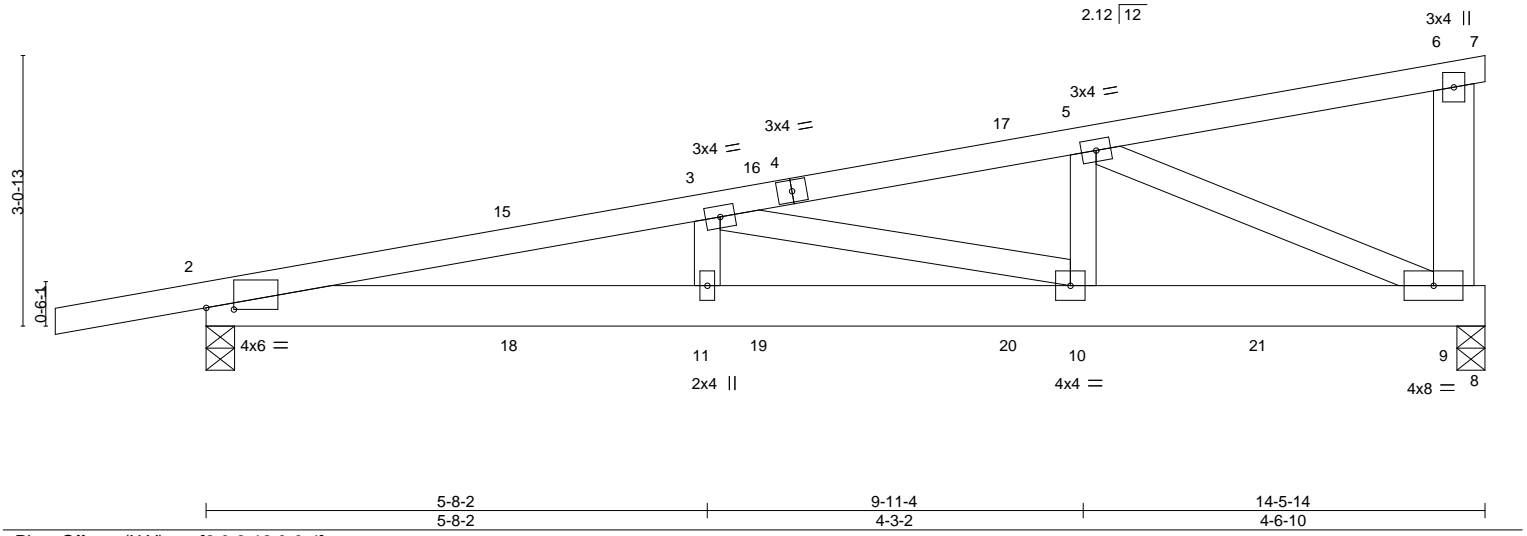
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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 8 14:57:50 2024 Page 1

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Scale = 1:26.1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.31	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.67	Vert(LL) 0.12 10-11 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.72	Vert(CT) -0.17 10-11 >988 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.03 9 n/a n/a		
	Code IRC2015/TPI2014			Weight: 79 lb	FT = 25%

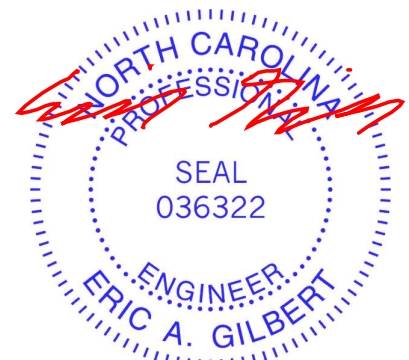
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-6-11 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 7-3-4 oc bracing.
WEBS 2x4 SP No.2 *Except* 6-9: 2x6 SP No.1	

REACTIONS. (size) 2=0-3-14, 9=0-3-13
 Max Horz 2=98(LC 19)
 Max Uplift 2=-387(LC 4), 9=-528(LC 4)
 Max Grav 2=924(LC 1), 9=1350(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2839/1114, 3-5=-2109/813
 BOT CHORD 2-11=-1155/2774, 10-11=-1155/2774, 9-10=-837/2044
 WEBS 3-10=-755/330, 5-10=-346/824, 5-9=-2091/860

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf 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.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=387, 9=528.
 - 5) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 20 lb down and 25 lb up at 3-6-0, 20 lb down and 25 lb up at 3-6-0, 48 lb down and 61 lb up at 6-3-15, 48 lb down and 61 lb up at 6-3-15, and 60 lb down and 73 lb up at 9-1-14, and 60 lb down and 73 lb up at 9-1-14 on top chord, and 5 lb down and 26 lb up at 3-6-0, 5 lb down and 26 lb up at 3-6-0, 27 lb down and 51 lb up at 6-3-15, 27 lb down and 51 lb up at 6-3-15, 77 lb down and 77 lb up at 9-1-14, 77 lb down and 77 lb up at 9-1-14, and 320 lb down and 162 lb up at 11-11-13, and 320 lb down and 162 lb up at 11-11-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-60, 6-7=-60, 8-12=-20



Continued on page 2

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

Job	Truss	Truss Type	Qty	Ply	Cash/Shirey Residence/Hamett	I65454101
J0524-2717	Z1	ROOF SPECIAL GIRDER	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 8 14:57:50 2024 Page 2
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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 16=-56(F=-28, B=-28) 17=-114(F=-57, B=-57) 18=-4(F=-2, B=-2) 19=-45(F=-23, B=-23) 20=-154(F=-77, B=-77) 21=-640(F=-320, B=-320)

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

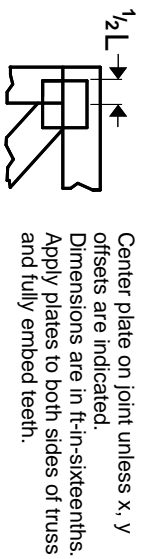
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road
 Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

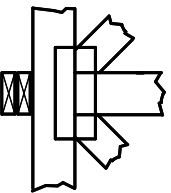
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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/letter where bearings occur. Min size shown is for crushing only.

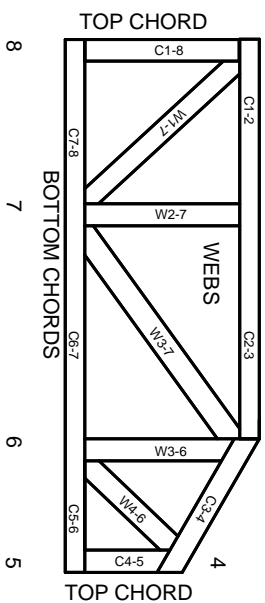
Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



1 TOP CHORDS
2 Joint ID
3 typ.



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

Lumber design values are in accordance with ANSI/TP1 section 6.3. These truss designs rely on Lumber values established by others.

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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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

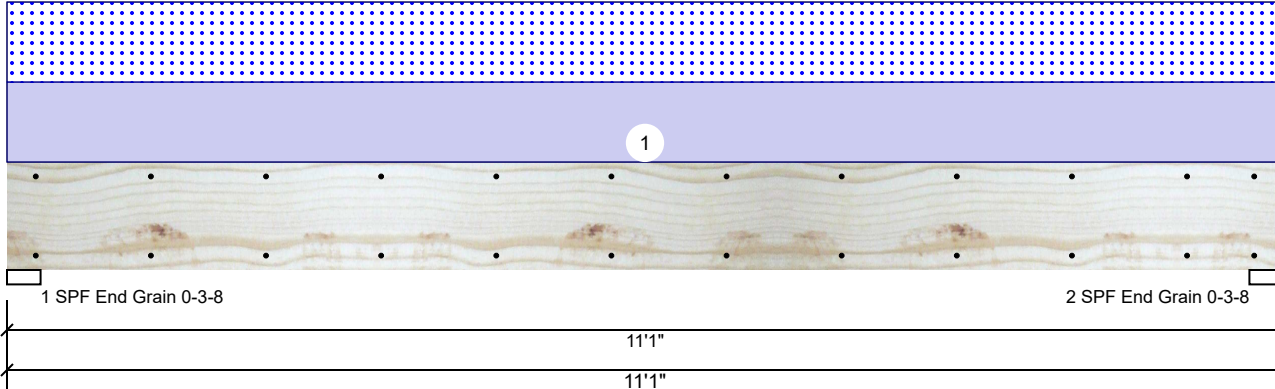
MITek

ENGINEERING BY
TRENGO
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MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023

DB1 SP #2 2.000" X 12.000" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal - II
Temperature:	Temp <= 100°F

Application:	Floor
Design Method:	ASD
Building Code:	IRC 2018
Load Sharing:	No
Deck:	Not Checked

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	671	671	0	0
2	Vertical	0	671	671	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	23%	671 / 671	1341	L	D+S
2 - SPF End Grain	3.500"	Vert	23%	671 / 671	1341	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3415 ft-lb	5'6 1/2"	4548 ft-lb	0.751 (75%)	D+S	L
Unbraced	3415 ft-lb	5'6 1/2"	3421 ft-lb	0.998 (100%)	D+S	L
Shear	1044 lb	9'10 1/4"	4528 lb	0.230 (23%)	D+S	L
LL Defl inch	0.070 (L/1831)	5'6 1/2"	0.266 (L/480)	0.262 (26%)	S	L
TL Defl inch	0.139 (L/916)	5'6 1/2"	0.354 (L/360)	0.393 (39%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 9'11 1/2" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

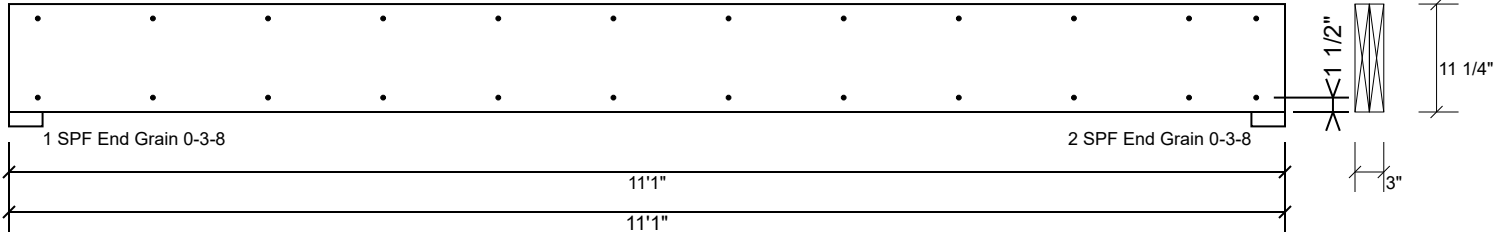
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	121 PLF	0 PLF	121 PLF	0 PLF	0 PLF	X3

Manufacturer Info

This design is valid until 6/28/2026

DB1 SP #2 2.000" X 12.000" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	202.6 PLF
Yield Limit per Fastener	101.3 lb.
C _m	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Manufacturer Info	

This design is valid until 6/28/2026