

RE: J0324-1345
 6085 Cool Springs Rd / Broadway, NC

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Customer: Project Name: J0324-1345
 Lot/Block: Model:
 Address: Subdivision:
 City: State:

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

Design Code: IRC2021/TPI2014 Design Program: MiTek 20/20 8.4
 Wind Code: ASCE 7-16 Wind Speed: 130 mph
 Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 42 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I64344096	A1-GE	3/21/2024	21	I64344116	F2	3/21/2024
2	I64344097	A2	3/21/2024	22	I64344117	F3	3/21/2024
3	I64344098	A3	3/21/2024	23	I64344118	G1-GE	3/21/2024
4	I64344099	A4	3/21/2024	24	I64344119	G2	3/21/2024
5	I64344100	A5	3/21/2024	25	I64344120	H1	3/21/2024
6	I64344101	A6	3/21/2024	26	I64344121	H2	3/21/2024
7	I64344102	A7-GE	3/21/2024	27	I64344122	H3	3/21/2024
8	I64344103	B1	3/21/2024	28	I64344123	H3A	3/21/2024
9	I64344104	B2	3/21/2024	29	I64344124	H4	3/21/2024
10	I64344105	C1-GE	3/21/2024	30	I64344125	H5	3/21/2024
11	I64344106	C2	3/21/2024	31	I64344126	H6	3/21/2024
12	I64344107	C3	3/21/2024	32	I64344127	PB1	3/21/2024
13	I64344108	C4	3/21/2024	33	I64344128	PB2	3/21/2024
14	I64344109	C5	3/21/2024	34	I64344129	PB3	3/21/2024
15	I64344110	D1-GE	3/21/2024	35	I64344130	PB4	3/21/2024
16	I64344111	D2	3/21/2024	36	I64344131	PB5	3/21/2024
17	I64344112	D3	3/21/2024	37	I64344132	VF-1	3/21/2024
18	I64344113	D4	3/21/2024	38	I64344133	VF-2	3/21/2024
19	I64344114	E1-GE	3/21/2024	39	I64344134	VF-3	3/21/2024
20	I64344115	F1-GE	3/21/2024	40	I64344135	VF-4	3/21/2024

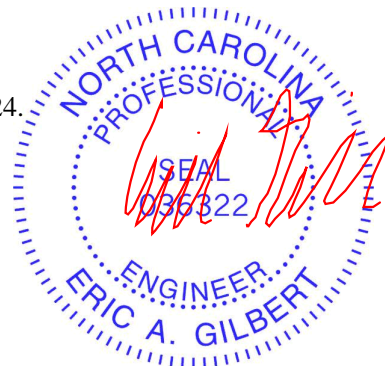
The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

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



March 21, 2024

Job	Truss	Truss Type	Qty	Ply	6085 Cool Springs Rd / Broadway, NC	164344096
J0324-1345	A1-GE	GABLE	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

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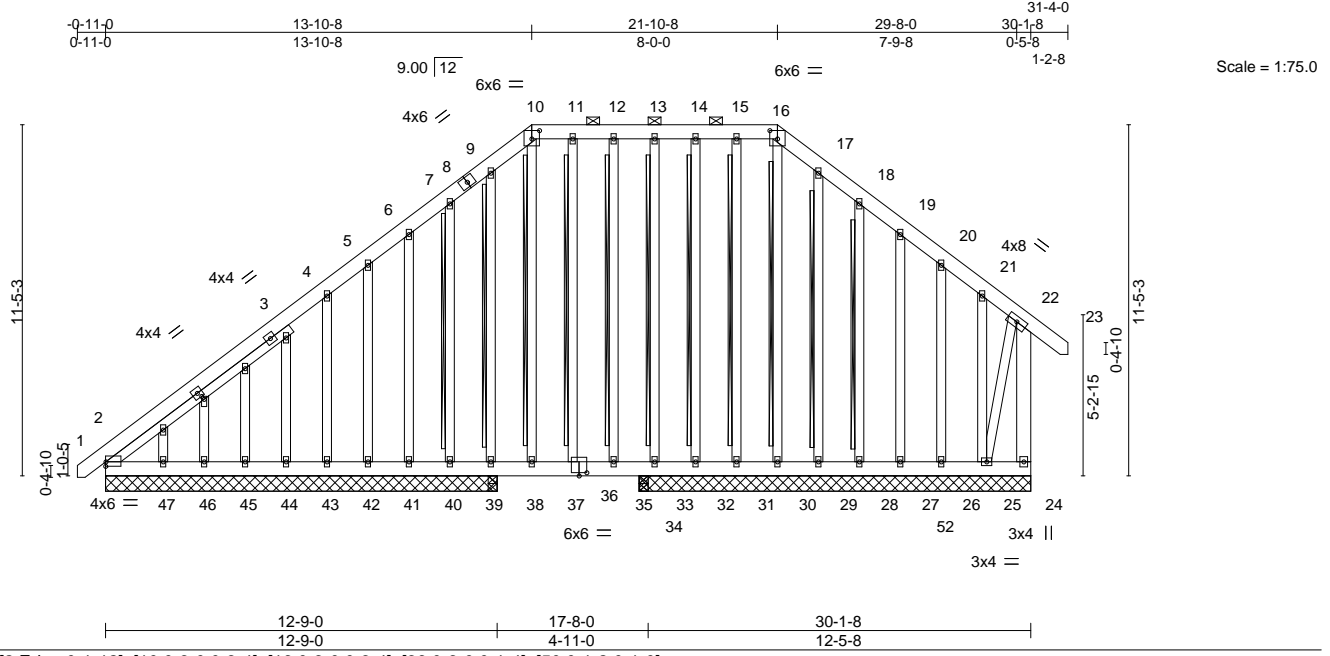


Plate Offsets (X,Y)--	[2:Edge,0-1-12], [10:0-3-0,0-3-4], [16:0-3-0,0-3-4], [36:0-3-0,0-1-4], [50:0-1-2,0-1-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	-0.01	37	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	-0.01	37	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.24	Horz(CT)	-0.00	24	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S	Wind(LL)	0.00	37	>999		
								Weight: 427 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 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 (6-0-0 max.): 10-16.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except*	WEBS T-Brace: 2x4 SPF No.2 16-30, 15-31, 14-32, 13-33, 12-35, 11-37, 10-38, 9-39, 7-40, 17-29, 18-28
OTHERS 2x4 SP No.2	
SLIDER Left 2x4 SP No.2 7-5-4	

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 12-9-0 except (jt=length) 34=0-3-8, 34=0-3-8.
 (lb) - Max Horz 2=417(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 30, 31, 32, 41, 45, 46, 29, 27, 26 except 2=152(LC 32), 24=103(LC 5), 33=441(LC 45), 39=113(LC 5), 40=124(LC 36), 43=373(LC 8), 47=174(LC 8), 28=104(LC 9), 25=279(LC 4), 34=183(LC 5)
 Max Grav All reactions 250 lb or less at joint(s) 30, 31, 32, 33, 40, 41, 42, 44, 45, 46, 47, 29, 28, 27, 26 except 2=292(LC 16), 24=266(LC 42), 39=531(LC 42), 39=341(LC 1), 43=489(LC 42), 25=258(LC 35), 34=821(LC 45), 34=576(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-372/321, 4-5=-254/237, 6-7=-229/254, 7-9=-214/254, 22-24=-252/84
 WEBS 4-43=-428/388

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical 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) Provide adequate drainage to prevent water ponding.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) Gable studs spaced at 1-4-0 oc.
 - 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 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 30, 31, 32, 41, 45, 46, 29, 27, 26 except (jt=lb) 2=152, 24=103, 33=441, 39=113, 40=124, 43=373, 47=174, 28=104, 25=279, 34=183.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 119 lb down and 99 lb up at 28-4-4 on top chord, and 56 lb down and 45 lb up at 24-4-4, and 56 lb down and 45 lb up at 26-4-4, and 56 lb down and 45 lb up at 28-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



Job	Truss	Truss Type	Qty	Ply	6085 Cool Springs Rd / Broadway, NC	I64344096
J0324-1345	A1-GE	GABLE	1	1	Job Reference (optional)	

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NOTES-

- 12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-10=-60, 10-16=-60, 16-22=-60, 22-23=-60, 2-24=-20
- Concentrated Loads (lb)
 - Vert: 28=-28(F) 25=-28(F) 21=-79(F) 52=-28(F)

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)

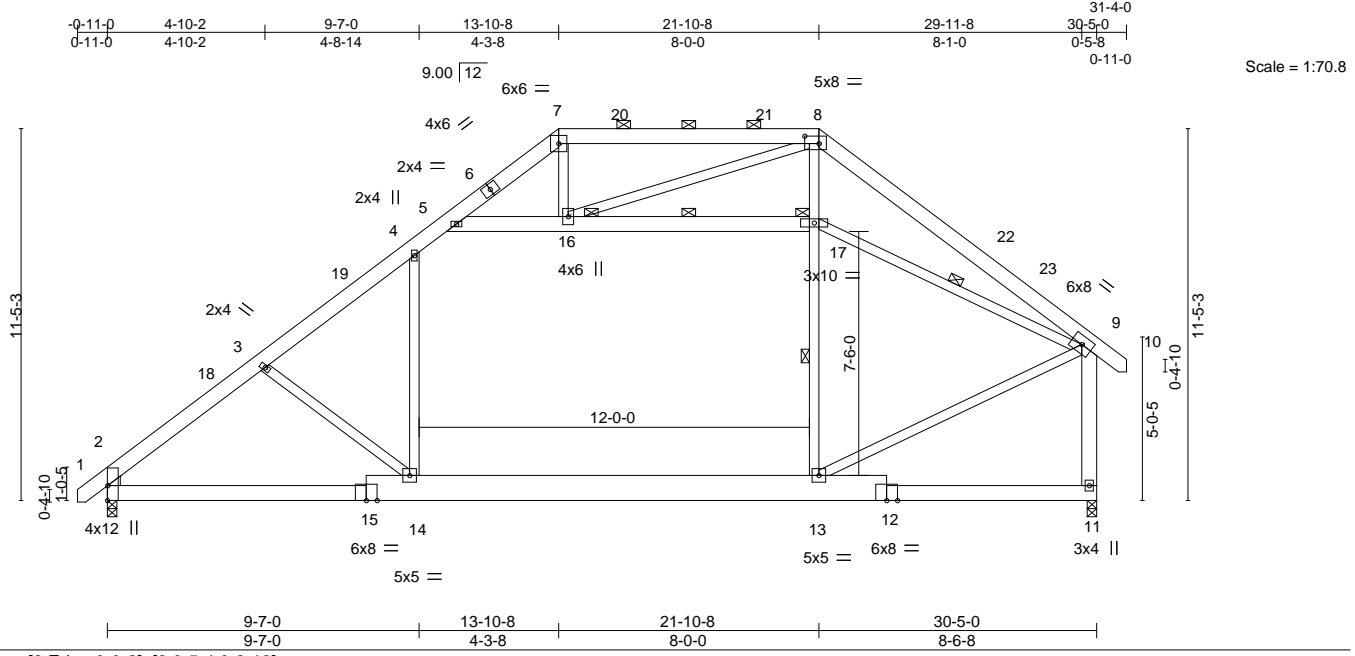


818 Soundside Road
 Edenton, NC 27932

Job J0324-1345	Truss A2	Truss Type PIGGYBACK BASE	Qty 4	Ply 1	6085 Cool Springs Rd / Broadway, NC 164344097
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Comtech, Inc. Fayetteville, NC - 28314,

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.36	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.44	Vert(LL) -0.17 13-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.64	Vert(CT) -0.23 13-14 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.03 11 n/a n/a		
	Code IRC2021/TPI2014		Wind(LL) 0.08 2-14 >999 240	Weight: 299 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-8-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD 2x6 SP No.1 *Except* 12-15: 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 9-11,5-17: 2x6 SP No.1	WEBS 1 Row at midpt 13-17, 16-17, 9-17
WEDGE Left: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 16, 17

REACTIONS. (size) 2=0-3-8, 11=0-3-8
 Max Horz 2=329(LC 11)
 Max Uplift 2=65(LC 12), 11=39(LC 13)
 Max Grav 2=1398(LC 19), 11=1387(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1820/281, 3-4=-1648/286, 4-5=-1163/326, 5-7=-431/262, 7-8=-329/231,
 8-9=-532/531, 9-11=-1391/309
 BOT CHORD 2-14=-358/1519, 13-14=-243/1323
 WEBS 4-14=0/618, 8-17=-705/397, 5-16=-1188/229, 16-17=-1608/463, 8-16=-317/516,
 9-17=-1696/476, 9-13=-198/1488

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-8 to 3-7-5, Interior(1) 3-7-5 to 13-10-8, Exterior(2R) 13-10-8 to 20-1-3, Interior(1) 20-1-3 to 21-10-8, Exterior(2R) 21-10-8 to 28-1-3, Interior(1) 28-1-3 to 31-2-8 zone; end vertical 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 with a clearance greater than 6-0-0 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 100 lb uplift at joint(s) 2, 11.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 21, 2024

Job J0324-1345	Truss A3	Truss Type PIGGYBACK BASE	Qty 2	Ply 1	6085 Cool Springs Rd / Broadway, NC Job Reference (optional)	164344098
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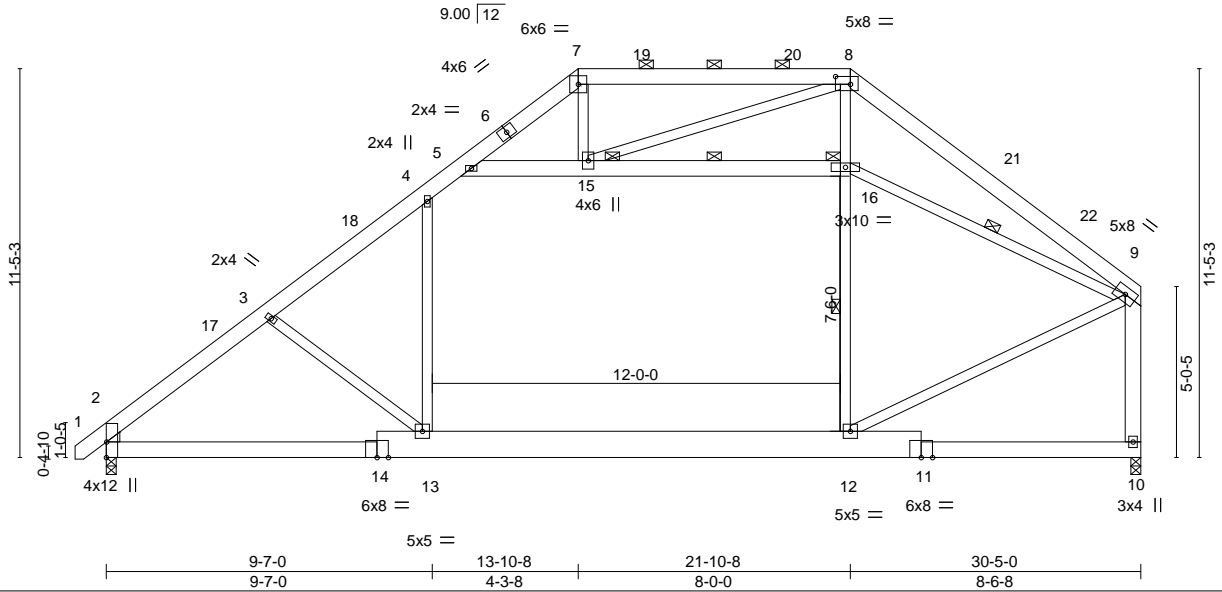


Plate Offsets (X, Y)--	[2:Edge,0-0-2], [8:0-5-4,0-2-12]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.36	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.44	Vert(LL) -0.17 12-13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.64	Vert(CT) -0.23 12-13 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.03 10 n/a n/a		
	Code IRC2021/TPI2014		Wind(LL) 0.08 2-13 >999 240	Weight: 297 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-8-9 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD 2x6 SP No.1 *Except* 11-14: 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 9-10,5-16: 2x6 SP No.1	WEBS 1 Row at midpt 12-16, 15-16, 9-16
WEDGE Left: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 15, 16

REACTIONS.
(size) 2=0-3-8, 10=0-3-8
Max Horz 2=324(LC 9)
Max Uplift 2=64(LC 12), 10=28(LC 13)
Max Grav 2=1399(LC 19), 10=1339(LC 2)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1823/278, 3-4=-1650/283, 4-5=-1165/323, 5-7=-432/260, 7-8=-329/229, 8-9=-536/525, 9-10=-1344/275
BOT CHORD 2-13=-391/1513, 12-13=-276/1317
WEBS 4-13=0/618, 8-16=-703/414, 5-15=-1190/229, 15-16=-1601/463, 8-15=-323/514, 9-16=-1688/476, 9-12=-237/1479

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-8 to 3-7-5, Interior(1) 3-7-5 to 13-10-8, Exterior(2R) 13-10-8 to 20-1-3, Interior(1) 20-1-3 to 21-10-8, Exterior(2R) 21-10-8 to 28-1-3, Interior(1) 28-1-3 to 30-3-4 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 21, 2024

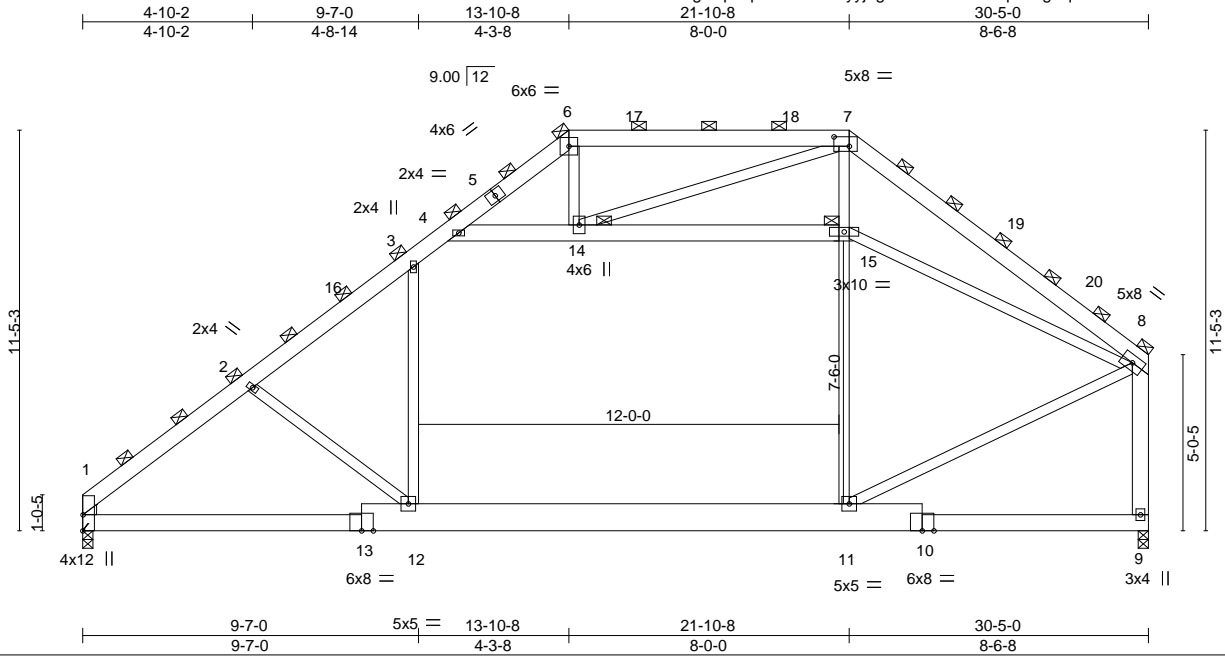
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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/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)</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job J0324-1345	Truss A4	Truss Type PIGGYBACK BASE	Qty 2	Ply 2	6085 Cool Springs Rd / Broadway, NC Job Reference (optional)	I64344099
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Scale = 1:65.8

Plate Offsets (X, Y)--	[1:Edge,0-0-1], [7:0-5-4,0-3-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	4-0-0	TC 0.54	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.49	Vert(LL) -0.17 11-12 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.95	Vert(CT) -0.23 11-12 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.03 9 n/a n/a		
	Code IRC2021/TP12014		Wind(LL) 0.07 1-12 >999 240	Weight: 589 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
BOT CHORD 2x6 SP No.1 *Except* 10-13: 2x10 SP No.1	(Switched from sheeted: Spacing > 2-8-0).
WEBS 2x4 SP No.2 *Except* 8-9,4-15: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
	JOINTS 1 Brace at Jt(s): 6, 7, 8, 14, 15

WEDGE	REACTIONS.
Left: 2x4 SP No.2	(size) 1=0-3-8, 9=0-3-8
	Max Horz 1=646(LC 11)
	Max Uplift 1=-124(LC 12), 9=-98(LC 13)
	Max Grav 1=2907(LC 19), 9=3029(LC 2)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3985/659, 2-3=-3612/658, 3-4=-2612/735, 4-6=-1229/582, 6-7=-975/533, 7-8=-1687/1001, 8-9=-3032/650
BOT CHORD 1-12=-844/3281, 11-12=-616/2911
WEBS 3-12=0/1234, 11-15=-595/494, 7-15=-1461/839, 4-14=-2323/443, 14-15=-2946/862, 6-14=-284/210, 7-14=-624/836, 8-15=-3096/881, 2-12=-471/357, 8-11=-550/3284

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 4-7-13, Interior(1) 4-7-13 to 13-10-8, Exterior(2R) 13-10-8 to 20-1-3, Interior(1) 20-1-3 to 21-10-8, Exterior(2R) 21-10-8 to 28-1-3, Interior(1) 28-1-3 to 30-3-4 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 1=124.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 641 lb down and 152 lb up at joint(s) 9. The design/selection of such connection device(s) is the responsibility of others.



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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job J0324-1345	Truss A4	Truss Type PIGGYBACK BASE	Qty 2	Ply 2	6085 Cool Springs Rd / Broadway, NC I64344099 Job Reference (optional)
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:28:46 2024 Page 2
ID:8k6l0gR3p6kpzTIU2ZRskYyj1gZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-120, 6-7=-120, 7-8=-120, 1-9=-40
 Concentrated Loads (lb)
 Vert: 18=-600(F)

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)



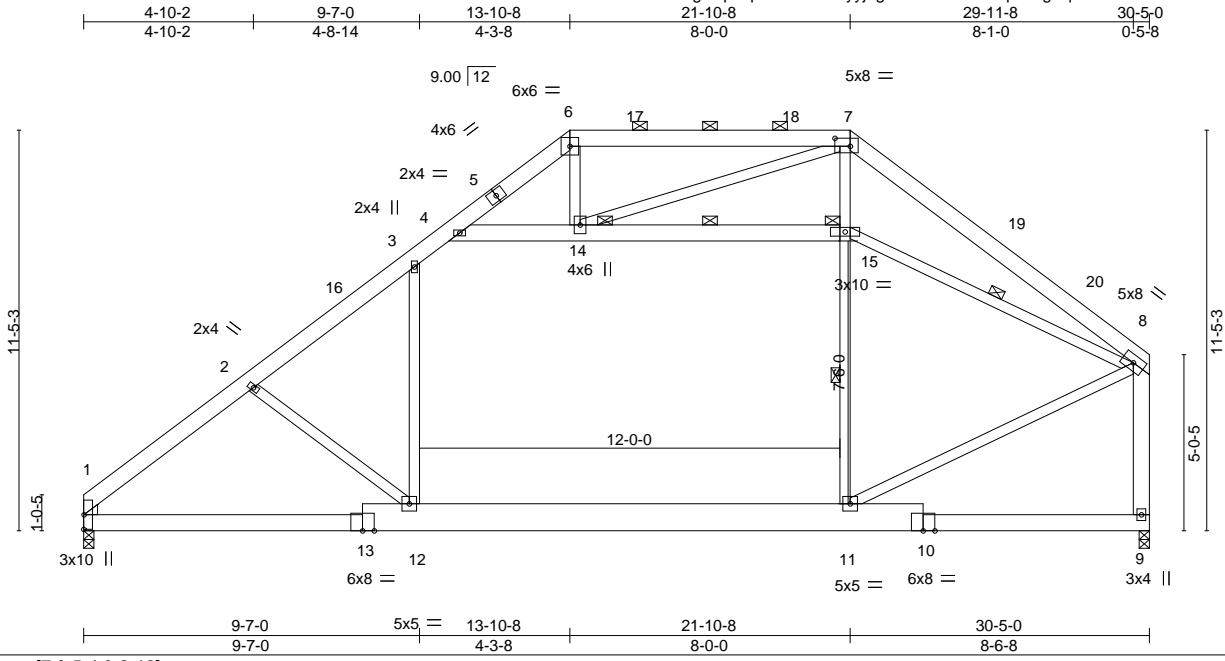
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	6085 Cool Springs Rd / Broadway, NC	164344100
J0324-1345	A5	PIGGYBACK BASE	2	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:28:47 2024 Page 1

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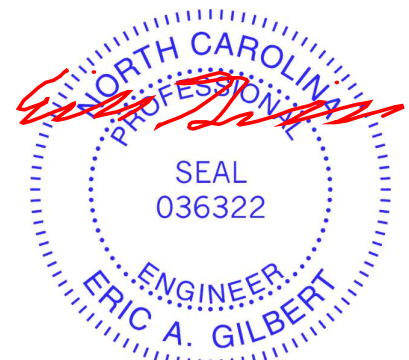
Plate Offsets (X,Y)--	[7:0-5-4,0-2-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.35	Vert(LL) -0.17 11-12 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.23 11-12 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.64	Horz(CT) 0.03 9 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-S	Wind(LL) 0.08 1-12 >999 240	Weight: 294 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-8-9 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD 2x6 SP No.1 *Except* 10-13: 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 8-9,4-15: 2x6 SP No.1	WEBS 1 Row at midpt 11-15, 14-15, 8-15
WEDGE Left: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 14, 15

REACTIONS. (size) 1=0-3-8, 9=0-3-8
 Max Horz 1=323(LC 9)
 Max Uplift 1=-51(LC 12), 9=-28(LC 13)
 Max Grav 1=1346(LC 19), 9=1340(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1827/290, 2-3=-1653/289, 3-4=-1166/327, 4-6=-431/260, 6-7=-328/226,
 7-8=-533/530, 8-9=-1345/275
 BOT CHORD 1-12=-393/1518, 11-12=-276/1319
 WEBS 3-12=0/619, 7-15=-707/414, 4-14=-1193/229, 14-15=-1608/463, 7-14=-323/518,
 8-15=-1694/475, 2-12=-252/180, 8-11=-237/1482

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 4-7-13, Interior(1) 4-7-13 to 13-10-8, Exterior(2R) 13-10-8 to 20-1-3, Interior(1) 20-1-3 to 21-10-8, Exterior(2R) 21-10-8 to 28-1-3, Interior(1) 28-1-3 to 30-3-4 zone; end vertical 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 with a clearance greater than 6-0-0 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 100 lb uplift at joint(s) 1, 9.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



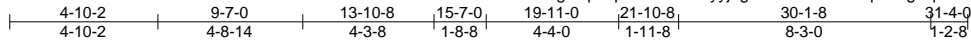
March 21, 2024

Job	Truss	Truss Type	Qty	Ply	6085 Cool Springs Rd / Broadway, NC	I64344102
J0324-1345	A7-GE	GABLE	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:28:50 2024 Page 1

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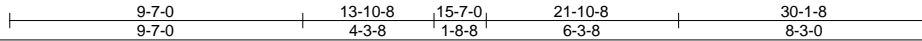
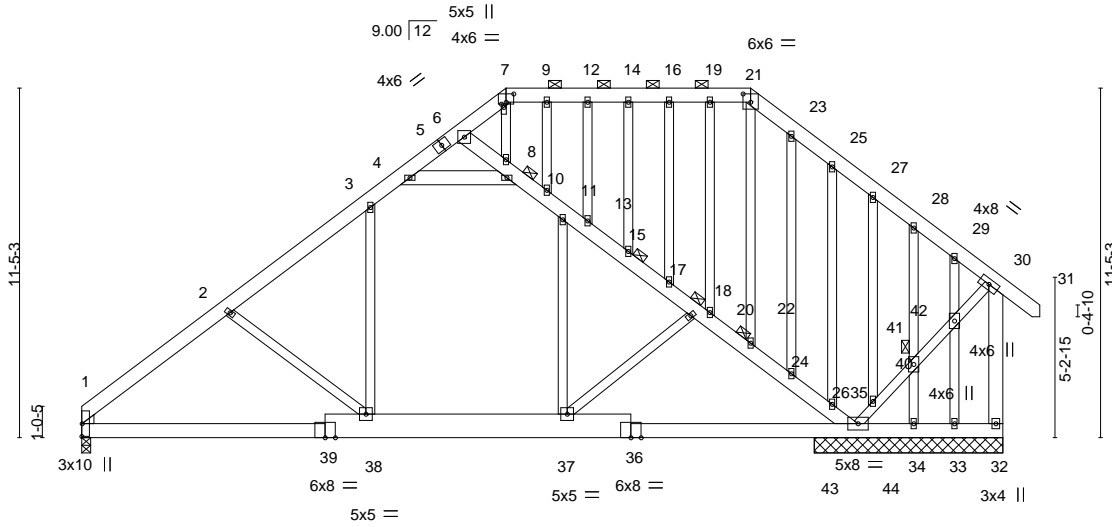


Plate Offsets (X,Y)-- [7:0-3-0,0-3-4], [7:0-1-5,0-1-0], [21:0-3-0,0-3-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.33	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.30	Vert(LL) -0.05 37-38 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.19	Vert(CT) -0.09 1-38 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.02 32 n/a n/a		
	Code IRC2021/TP12014		Wind(LL) 0.07 1-38 >999 240	Weight: 381 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 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 (6-0-0 max.): 7-21, 6-35.
BOT CHORD 2x6 SP No.1 *Except* 36-39: 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 30-32,4-8: 2x6 SP No.1	JOINTS 1 Brace at Jt(s): 8, 18, 22, 15, 41
OTHERS 2x4 SP No.2	
WEDGE	
Left: 2x4 SP No.2	

REACTIONS. All bearings 6-2-0 except (jt=length) 1=0-3-8.
 (lb) - Max Horz 1=414(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 33 except 1=-125(LC 8), 32=-114(LC 5), 35=-598(LC 8), 34=-150(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 1=1069(LC 26), 32=555(LC 22), 35=955(LC 42), 33=251(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1430/166, 2-3=-1261/133, 3-4=-866/132, 4-6=-147/276, 6-7=-271/239, 21-23=-294/235, 23-25=-337/218, 25-27=-305/187, 27-28=-322/162, 28-29=-312/125, 29-30=-333/110, 30-32=-548/95, 8-10=-795/323, 10-11=-958/407, 11-13=-1229/416, 13-15=-1121/402, 15-17=-1132/406, 17-18=-1165/420, 18-20=-1193/432, 20-22=-1232/447, 22-24=-1244/463, 24-26=-1248/476, 26-35=-1315/511
 BOT CHORD 1-38=-387/1233, 37-38=-287/1013, 35-37=-348/1116
 WEBS 3-38=-19/451, 35-40=-249/412, 40-41=-194/410, 41-42=-205/380, 30-42=-194/368, 4-8=-1106/330, 2-38=-277/303, 11-37=-17/452, 9-10=-271/140

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical 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/TP1.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) Gable studs spaced at 1-4-0 oc.
 - 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 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 33 except (jt=lb) 1=125, 32=114, 35=598, 34=150.

On a graphic representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 21, 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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TRENCO ENGINEERING BY A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job J0324-1345	Truss A7-GE	Truss Type GABLE	Qty 1	Ply 1	6085 Cool Springs Rd / Broadway, NC I64344102 Job Reference (optional)
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:28:50 2024 Page 2
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NOTES-

- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 124 lb down and 100 lb up at 28-4-4 on top chord, and 56 lb down and 45 lb up at 24-4-4, and 56 lb down and 45 lb up at 26-4-4, and 56 lb down and 45 lb up at 28-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) 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, 7-21=-60, 21-30=-60, 30-31=-60, 1-32=-20
Concentrated Loads (lb)
Vert: 29=-84(B) 33=-28(B) 43=-28(B) 44=-28(B)

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	Truss	Truss Type	Qty	Ply	6085 Cool Springs Rd / Broadway, NC	I64344103
J0324-1345	B1	ROOF SPECIAL	4	1		

Comtech, Inc. Fayetteville, NC - 28314,

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0-11-0	6-7-4	12-1-14	16-0-0	19-5-8	22-11-0	29-6-8	37-9-0	38-8-0
0-11-0	6-7-4	5-6-10	3-10-2	3-5-8	3-5-8	6-7-8	8-2-8	0-11-0

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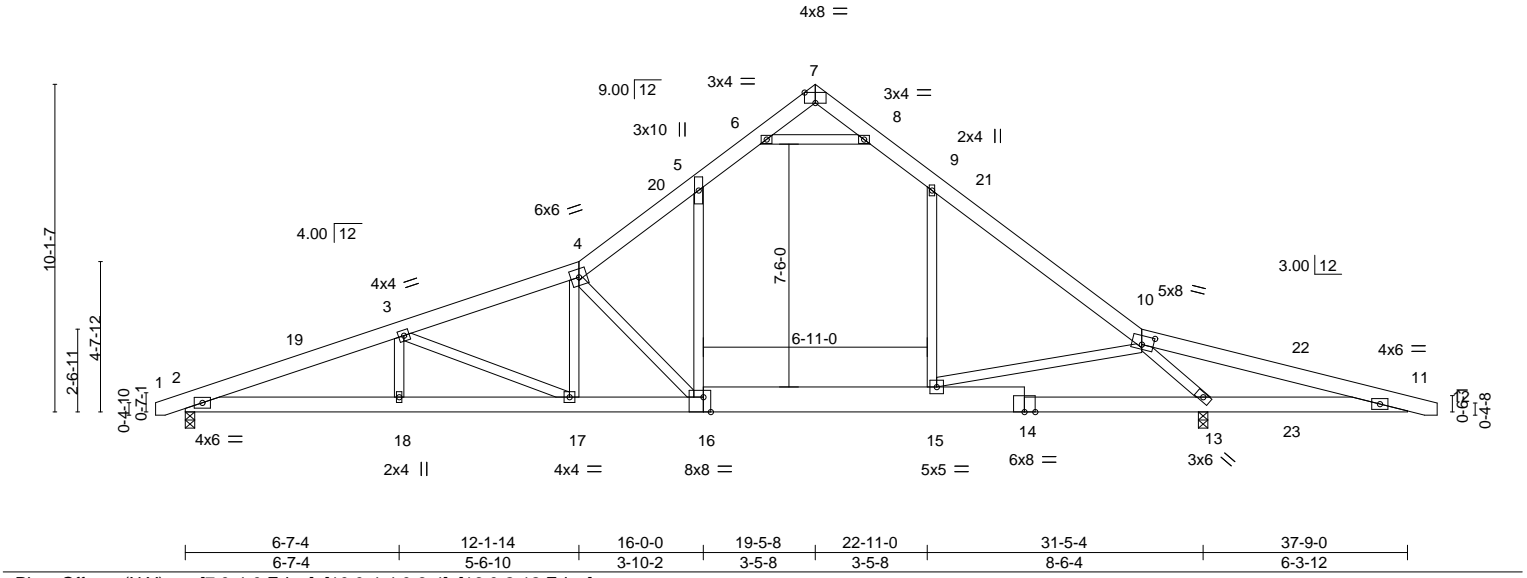


Plate Offsets (X,Y)--	[7:0-4-0,Edge], [10:0-4-4,0-3-4], [16:0-2-12,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.76	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.92	Vert(LL) -0.26 16-17 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.81	Vert(CT) -0.50 16-17 >757 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.05 13 n/a n/a		
	Code IRC2021/TP12014		Wind(LL) 0.23 16-17 >999 240	Weight: 272 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-11-15 oc purlins.
BOT CHORD 2x6 SP No.1 *Except* 14-16: 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS.
(size) 2=0-3-8, 13=0-3-8
Max Horz 2=165(LC 11)
Max Uplift 2=104(LC 12), 13=116(LC 13)
Max Grav 2=1260(LC 1), 13=1846(LC 1)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2882/673, 3-4=-2445/594, 4-5=-1805/416, 5-6=-1077/331, 6-7=-127/607, 7-8=-73/519, 8-9=-1164/382, 9-10=-1640/277, 10-11=-1466/1336
BOT CHORD 2-18=-530/2653, 17-18=-530/2653, 16-17=-367/2251, 15-16=-10/1246, 13-15=-73/997, 11-13=-1236/1469
WEBS 4-16=-1605/553, 3-17=-518/178, 4-17=-163/577, 5-16=-169/1061, 10-13=-2514/1309, 9-15=0/570, 6-8=-1969/569, 10-15=-545/539

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-4 to 3-7-9, Interior(1) 3-7-9 to 19-5-8, Exterior(2R) 19-5-8 to 23-10-5, Interior(1) 23-10-5 to 38-5-11 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=104, 13=116.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

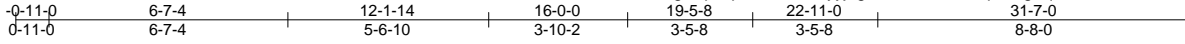


Job J0324-1345	Truss B2	Truss Type ROOF SPECIAL	Qty 3	Ply 1	6085 Cool Springs Rd / Broadway, NC 164344104
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:28:51 2024 Page 1

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4x6 =

Scale: 3/16"=1'

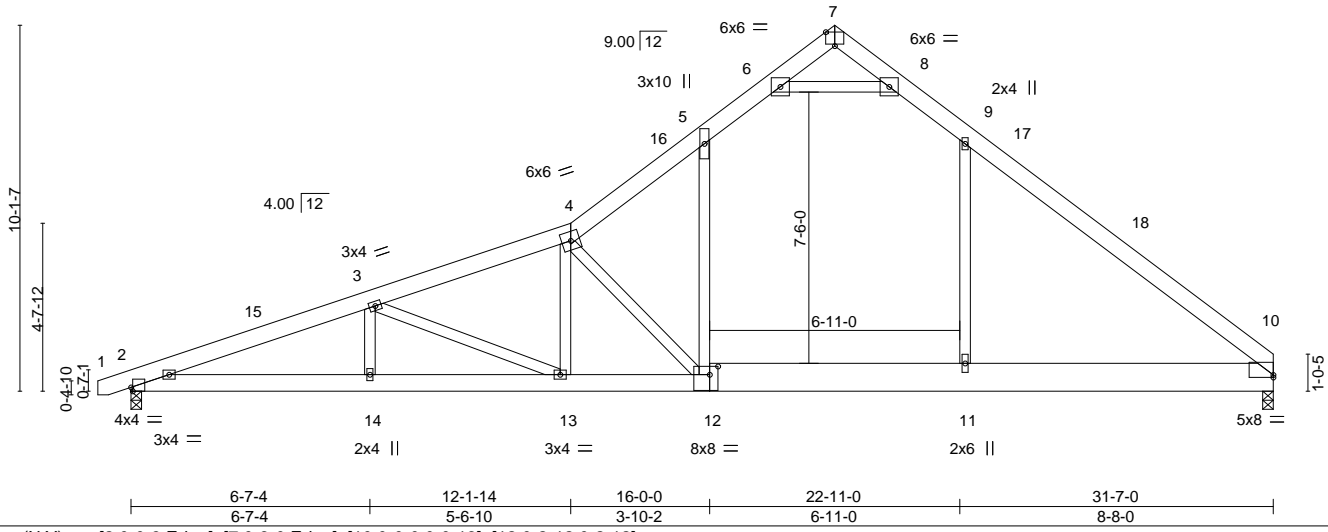


Plate Offsets (X, Y)--	[2:0-0-9,Edge], [7:0-3-0,Edge], [10:0-0-0,0-0-13], [12:0-2-12,0-2-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.89	Vert(LL)	-0.23 12-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.81	Vert(CT)	-0.45 12-13	>829	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.80	Horz(CT)	0.05 10	n/a	n/a		
BCDL 10.0	Code IRC2021/TP12014		Matrix-S	Wind(LL)	0.20 12-13	>999	240	Weight: 237 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD 2x6 SP No.1 *Except* 10-12: 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 9-2-9 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS.	(size) 10=0-3-8, 2=0-3-8
	Max Horz 2=238(LC 9)
	Max Uplift 10=-45(LC 13), 2=-102(LC 12)
	Max Grav 10=1327(LC 20), 2=1307(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-3022/843, 3-4=-2537/755, 4-5=-1895/623, 5-6=-1131/465, 6-7=-293/714, 7-8=-221/615, 8-9=-1235/537, 9-10=-1862/500
BOT CHORD	2-14=-730/2785, 13-14=-730/2785, 12-13=-564/2356, 11-12=-200/1353, 10-11=-199/1349
WEBS	4-13=-65/529, 4-12=-1579/541, 5-12=-293/1124, 9-11=0/686, 6-8=-2171/922, 3-13=-527/185

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-4 to 3-7-9, Interior(1) 3-7-9 to 19-5-8, Exterior(2R) 19-5-8 to 23-10-5, Interior(1) 23-10-5 to 31-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=102.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 21, 2024

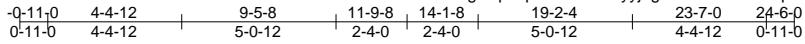
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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/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)</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	6085 Cool Springs Rd / Broadway, NC	164344105
J0324-1345	C1-GE	GABLE	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:28:52 2024 Page 1

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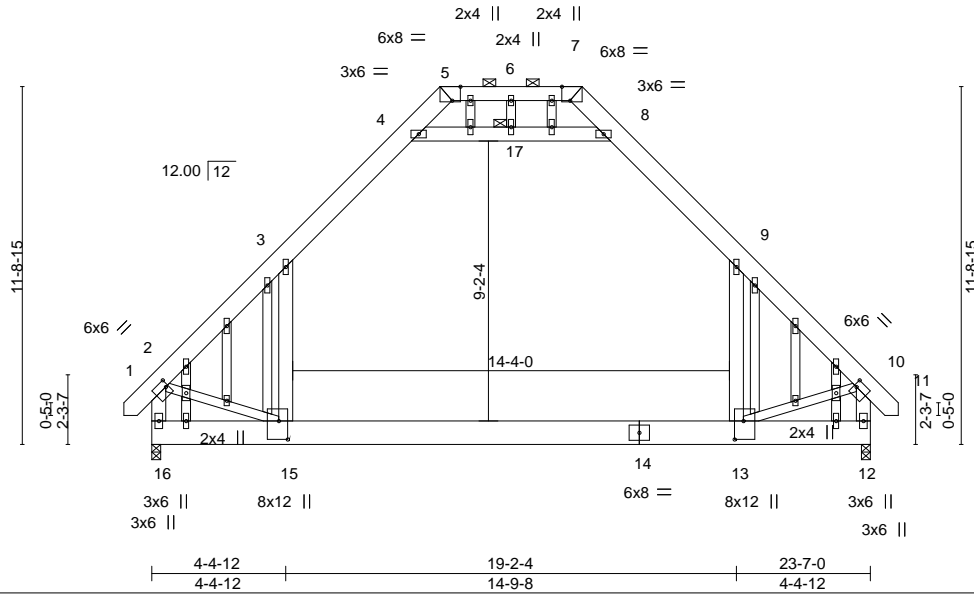


Plate Offsets (X, Y)-- [2:0-1-0,0-2-12], [5:0-3-4,Edge], [7:0-3-4,Edge], [10:0-1-0,0-2-12], [13:0-7-4,0-3-8], [15:0-7-4,0-3-8]

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 0.79	Vert(LL)	-0.32	13-15	>875	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.44	Vert(CT)	-0.51	13-15	>547		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.21	Horz(CT)	0.01	12	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S	Wind(LL)	0.09	13-15	>999	Weight: 282 lb	FT = 20%

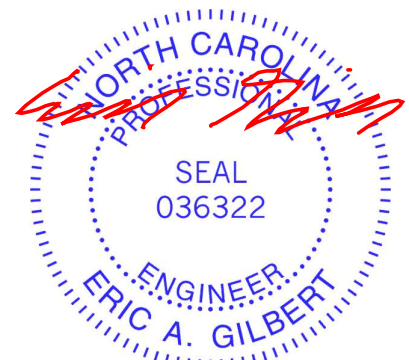
LUMBER-
 TOP CHORD 2x8 SP No.1 *Except*
 5-7: 2x6 SP No.1
 BOT CHORD 2x10 SP 2400F 2.0E
 WEBS 2x6 SP No.1 *Except*
 6-17,2-15,10-13: 2x4 SP No.2
 OTHERS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-4-5 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 5-7.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 17

REACTIONS. (size) 16=0-3-8, 12=0-3-8
 Max Horz 16=385(LC 10)
 Max Grav 16=1654(LC 2), 12=1654(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1833/0, 3-4=-1079/120, 4-5=-20/589, 7-8=-20/589, 8-9=-1079/119, 9-10=-1832/0,
 5-6=0/922, 6-7=0/922, 2-16=-1910/0, 10-12=-1910/0
 BOT CHORD 15-16=-335/528, 13-15=0/1104
 WEBS 3-15=0/952, 9-13=0/952, 4-17=-1848/136, 8-17=-1848/136, 2-15=-22/957,
 10-13=-28/962

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-8-6 to 3-8-7, Interior(1) 3-8-7 to 9-7-14, Exterior(2E) 9-7-14 to 13-11-2, Exterior(2R) 13-11-2 to 18-3-14, Interior(1) 18-3-14 to 24-3-6 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 2x6 MT20 unless otherwise indicated.
 - Gable studs spaced at 1-4-0 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 3-4, 8-9, 4-17, 8-17; Wall dead load (5.0psf) on member(s). 3-15, 9-13
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



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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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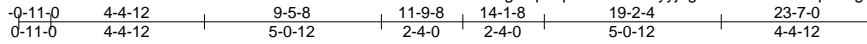


Job	Truss	Truss Type	Qty	Ply	6085 Cool Springs Rd / Broadway, NC	164344106
J0324-1345	C2	PIGGYBACK ATTIC	4	1	Job Reference (optional)	

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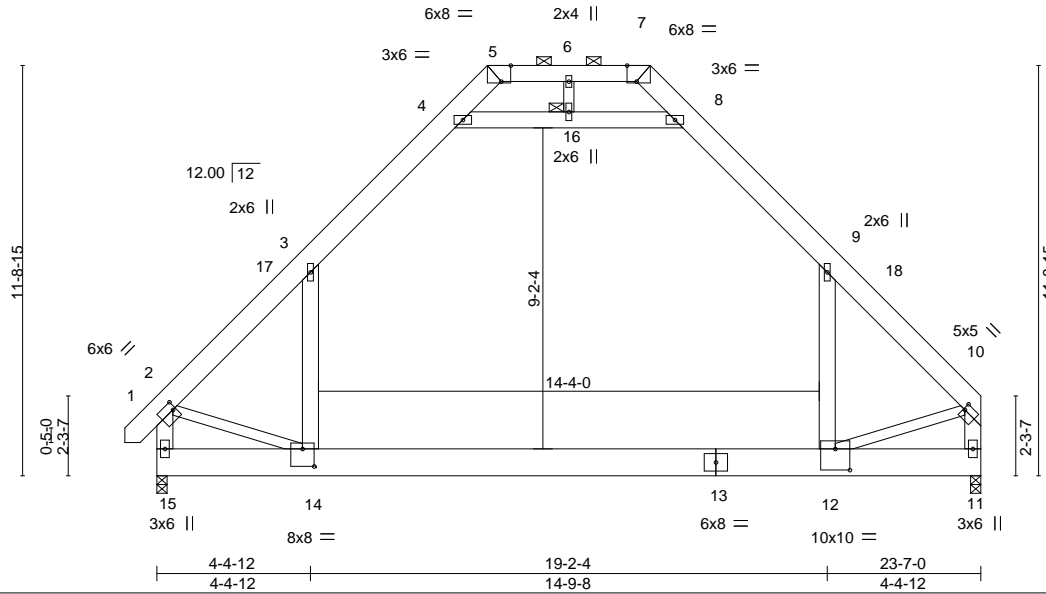


Plate Offsets (X,Y)-- [2:0-1-0,0-2-12], [5:0-3-4,Edge], [7:0-3-4,Edge], [10:0-0-8,0-2-4], [12:0-5-0,0-7-4], [14:0-4-0,0-6-0]

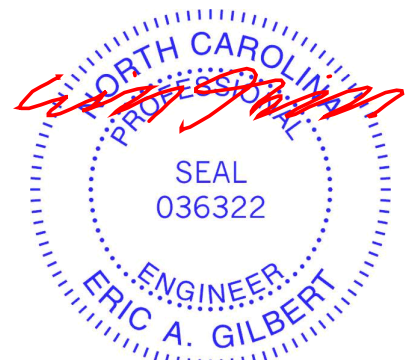
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.79	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.44	Vert(LL) -0.32 12-14 >873 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.23	Vert(CT) -0.51 12-14 >545 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 11 n/a n/a		
	Code IRC2021/TP12014		Wind(LL) 0.06 12-14 >999 240	Weight: 251 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x8 SP No.1 *Except* 5-7: 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-4-14 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 5-7.
BOT CHORD 2x10 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except* 6-16,2-14,10-12: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 16

REACTIONS. (size) 15=0-3-8, 11=0-3-8
 Max Horz 15=-281(LC 10)
 Max Grav 15=1655(LC 2), 11=1607(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1838/0, 3-4=-1081/142, 4-5=-2/593, 7-8=-4/592, 8-9=-1084/166, 9-10=-1825/0,
 5-6=0/927, 6-7=0/927, 2-15=-1918/0, 10-11=-1880/0
 BOT CHORD 14-15=-242/450, 12-14=0/1076
 WEBS 3-14=0/955, 9-12=0/927, 4-16=-1853/138, 8-16=-1853/138, 2-14=0/942, 10-12=0/992

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-6 to 3-8-7, Interior(1) 3-8-7 to 9-7-14, Exterior(2E) 9-7-14 to 13-11-2, Exterior(2R) 13-11-2 to 20-1-12, Interior(1) 20-1-12 to 23-4-4 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 3-4, 8-9, 4-16, 8-16; Wall dead load (5.0psf) on member(s).3-14, 9-12
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



March 21, 2024

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

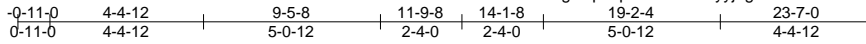
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	6085 Cool Springs Rd / Broadway, NC	164344107
J0324-1345	C3	PIGGYBACK ATTIC	2	1	Job Reference (optional)	

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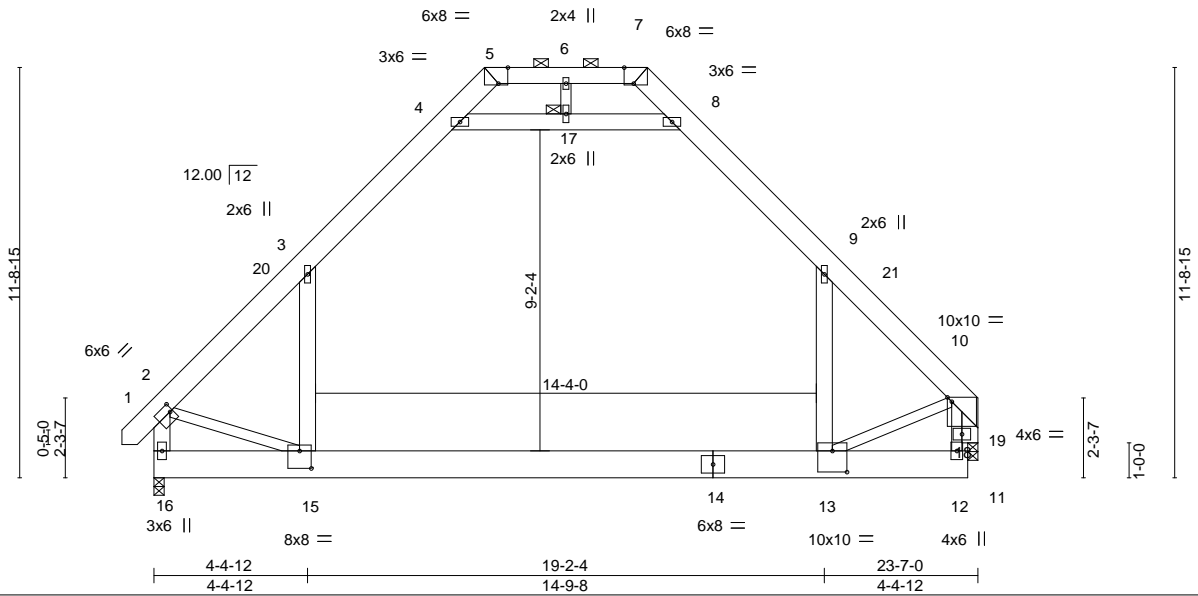


Plate Offsets (X,Y)--	[2:0-1-0,0-2-12], [5:0-3-4,Edge], [7:0-3-4,Edge], [10:0-1-8,Edge], [13:0-5-0,0-7-4], [15:0-4-0,0-6-0]
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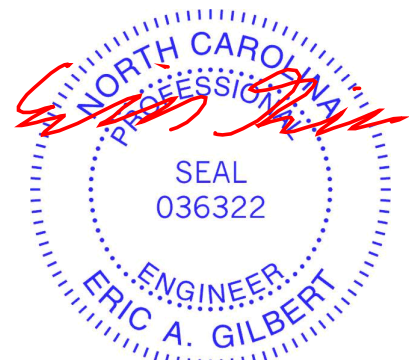
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.79	Vert(LL)	-0.32 13-15	>878	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.44	Vert(CT)	-0.51 13-15	>547	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.22	Horz(CT)	-0.01 19	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S	Wind(LL)	0.06 13-15	>999	240	Weight: 251 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x8 SP No.1 *Except* 5-7: 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-3-4 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 5-7.
BOT CHORD 2x10 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except* 6-17,2-15,10-13,10-12: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 17
OTHERS 2x6 SP No.1	

REACTIONS. (size) 16=0-3-8, 19=0-3-8
 Max Horz 16=277(LC 10)
 Max Grav 16=1660(LC 2), 19=1581(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1849/0, 3-4=-1089/141, 4-5=0/594, 7-8=0/598, 8-9=-1088/162, 9-10=-1848/0,
 5-6=0/932, 6-7=0/932, 2-16=-1928/0, 12-18=-277/94, 10-18=-277/94
 BOT CHORD 15-16=-242/446, 13-15=0/1083, 12-13=0/527
 WEBS 3-15=0/959, 9-13=0/975, 4-17=-1866/131, 8-17=-1866/131, 2-15=0/951, 10-13=0/658,
 10-19=-1694/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-6 to 3-8-7, Interior(1) 3-8-7 to 9-7-14, Exterior(2E) 9-7-14 to 13-11-2, Exterior(2R) 13-11-2 to 20-1-12, Interior(1) 20-1-12 to 22-11-12 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s) 3-4, 8-9, 4-17, 8-17; Wall dead load (5.0psf) on member(s) 3-15, 9-13
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
 - Bearing at joint(s) 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



March 21, 2024

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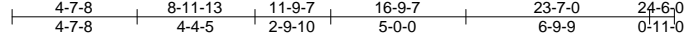
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job J0324-1345	Truss C4	Truss Type ROOF SPECIAL	Qty 5	Ply 1	6085 Cool Springs Rd / Broadway, NC 164344108
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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:28:54 2024 Page 1

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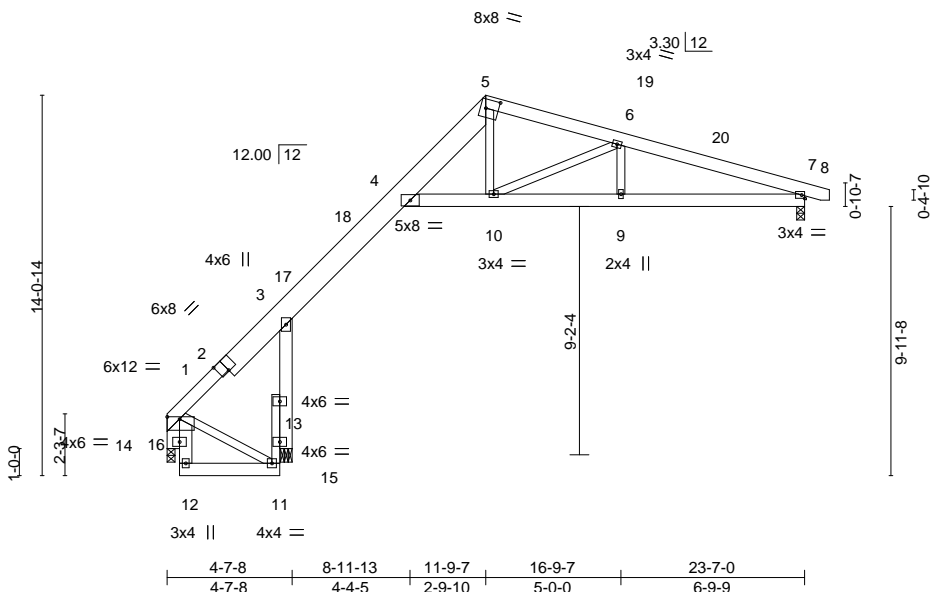


Plate Offsets (X, Y)--	[1:Edge,0-1-0], [2:0-4-0,Edge], [5:0-5-10,0-4-0]
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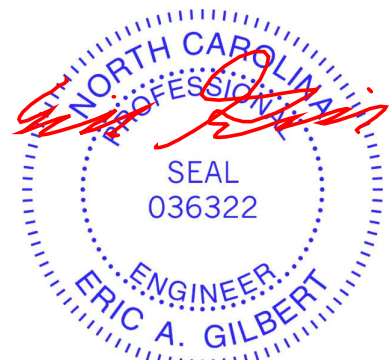
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	-0.08	4-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	-0.16	4-10	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.29	Horz(CT)	0.16	7	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S	Wind(LL)	0.09	4	>999	Weight: 178 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 2-5: 2x10 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1 *Except* 11-13: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 1-12: 2x6 SP No.1	
OTHERS 2x6 SP No.1	

REACTIONS. (size) 7=0-3-8, 15=0-5-4, 16=0-3-8
 Max Horz 16=290(LC 12)
 Max Uplift 7=-98(LC 9), 15=-529(LC 12), 16=-474(LC 19)
 Max Grav 7=736(LC 1), 15=1441(LC 19), 16=417(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-712/623, 3-4=-513/103, 4-5=-907/315, 5-6=-837/390, 6-7=-1425/469
 BOT CHORD 3-15=-1349/927, 4-10=-249/759, 9-10=-394/1292, 7-9=-394/1292
 WEBS 5-10=-82/413, 6-10=-600/198, 1-16=-714/507

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-8-4 to 5-1-1, Interior(1) 5-1-1 to 11-9-7, Exterior(2R) 11-9-7 to 16-2-4, Interior(1) 16-2-4 to 24-4-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Bearing at joint(s) 15, 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 15=529, 16=474.



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Job	Truss	Truss Type	Qty	Ply	6085 Cool Springs Rd / Broadway, NC	164344109
J0324-1345	C5	ROOF SPECIAL	2	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:28:55 2024 Page 1

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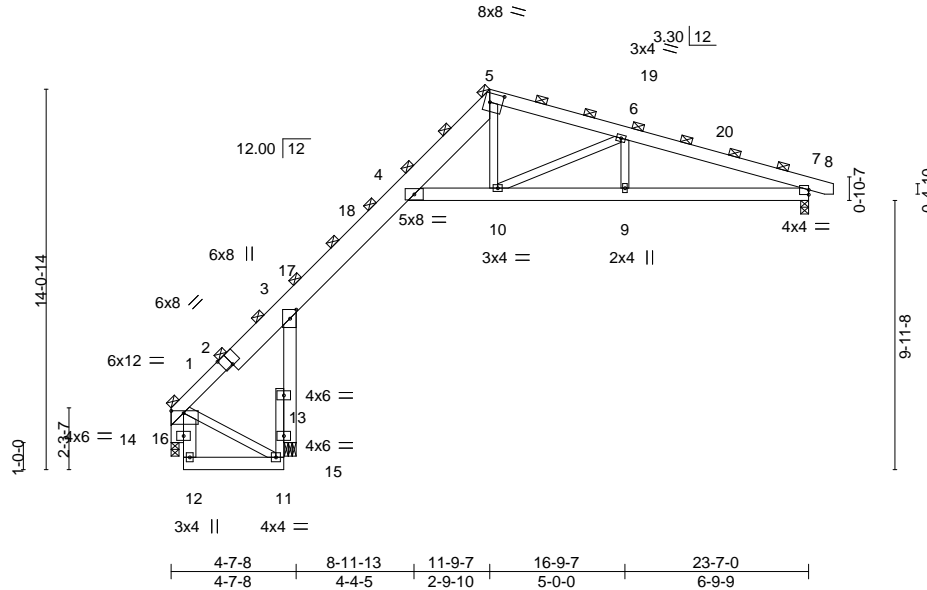


Plate Offsets (X, Y)--	[1:Edge,0-1-0], [2:0-4-0,Edge], [3:0-4-0,0-2-12], [5:0-5-10,0-4-0], [7:0-0-0,0-2-2]
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LOADING (psf)	SPACING-	3-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.82	Vert(LL)	-0.12	4-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.49	Vert(CT)	-0.24	4-10	>987		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.43	Horz(CT)	0.24	7	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S	Wind(LL)	0.14	4-10	>999		
								Weight: 178 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 2-5: 2x10 SP No.1	TOP CHORD 2-0-0 oc purlins (4-10-15 max.), except end verticals (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD 2x6 SP No.1 *Except* 11-13: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-4-5 oc bracing.
WEBS 2x4 SP No.2 *Except* 1-12: 2x6 SP No.1	
OTHERS 2x6 SP No.1	

REACTIONS.
(size) 7=0-3-8, 15=0-5-4, 16=0-3-8
Max Horz 16=435(LC 12)
Max Uplift 7=147(LC 9), 15=794(LC 12), 16=711(LC 19)
Max Grav 7=1104(LC 1), 15=2161(LC 19), 16=626(LC 12)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1068/935, 3-4=-769/155, 4-5=-1361/472, 5-6=-1256/585, 6-7=-2138/704
BOT CHORD 3-15=-2024/1391, 4-10=-373/1138, 9-10=-591/1938, 7-9=-591/1938
WEBS 5-10=-124/620, 6-10=-900/298, 6-9=0/372, 1-11=-185/351, 1-16=-1072/760

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-8-4 to 5-1-1, Interior(1) 5-1-1 to 11-9-7, Exterior(2R) 11-9-7 to 16-2-4, Interior(1) 16-2-4 to 24-4-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Bearing at joint(s) 15, 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=147, 15=794, 16=711.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 21, 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)

ENGINEERING BY
TRENCO
 A MITTEK AFFILIATE

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	6085 Cool Springs Rd / Broadway, NC	I64344110
J0324-1345	D1-GE	GABLE	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

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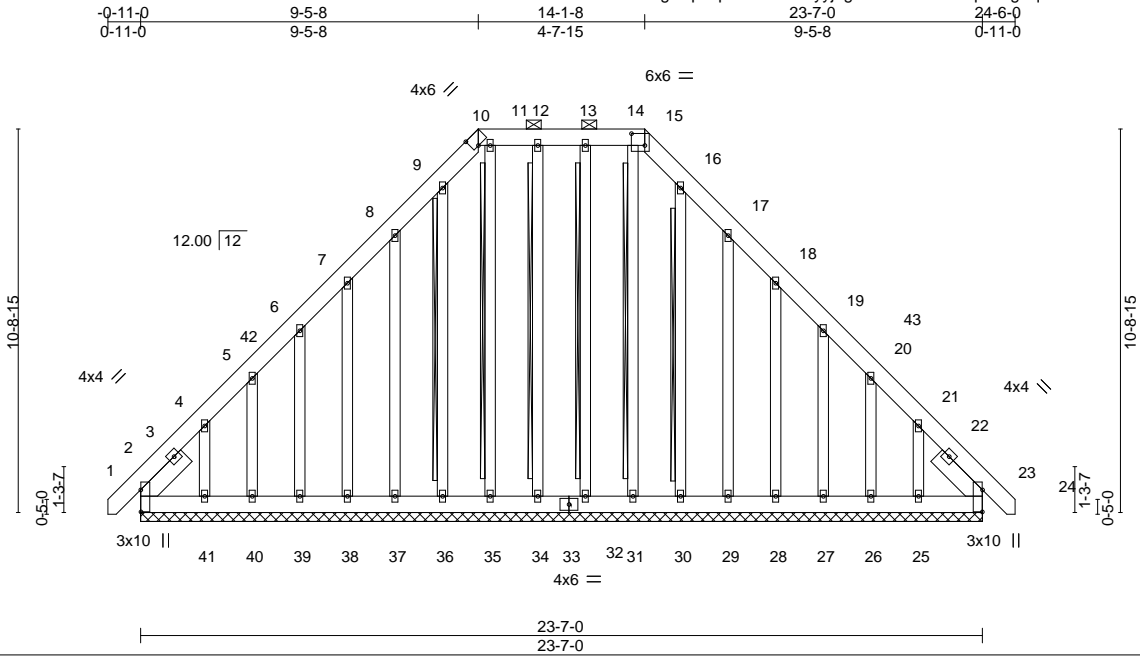


Plate Offsets (X, Y)--	[2:0-7-6,0-0-1], [10:0-2-2,Edge], [15:0-4-8,0-4-0], [23:0-7-6,0-0-1]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00	23	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	0.00	23	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.01	23	n/a		
BCDL 10.0	Code IRC2021/TP12014		Matrix-S						

Weight: 300 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 10-15.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	WEBS T-Brace: 2x4 SPF No.2 - 14-31, 13-32, 12-34, 11-35, 9-36, 16-30
SLIDER Left 2x6 SP No.1 1-8-8, Right 2x6 SP No.1 1-8-8	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 23-7-0.
 (lb) - Max Horz 2--310(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 32, 34, 35, 36, 38, 39, 40, 23, 30, 28, 27, 26 except 2--176(LC 10), 37--100(LC 12), 41--261(LC 12), 29--101(LC 13), 25--239(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 31, 32, 34, 35, 36, 37, 38, 39, 40, 41, 30, 29, 28, 27, 26, 25 except 2=312(LC 12), 23=257(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4--404/291, 8-9--173/271, 9-10--182/290, 10-11--156/261, 11-12--156/261, 12-13--156/261, 13-14--156/261, 14-15--156/261, 15-16--182/290, 16-17--173/271, 21-23--333/187
 BOT CHORD 2-41--131/261, 40-41--131/261, 39-40--131/261, 38-39--131/261, 37-38--131/262, 36-37--131/262, 35-36--130/262, 34-35--130/262, 32-34--130/262, 31-32--130/262, 30-31--130/262, 29-30--130/262, 28-29--130/261, 27-28--130/261, 26-27--130/261, 25-26--130/260, 23-25--129/259

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-10 to 3-7-3, Exterior(2N) 3-7-3 to 9-5-8, Corner(3E) 9-5-8 to 14-1-8, Corner(3R) 14-1-8 to 18-6-5, Exterior(2N) 18-6-5 to 24-4-10 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 1-4-0 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.



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Continued on page 2

<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/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)</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MITEK Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job J0324-1345	Truss D1-GE	Truss Type GABLE	Qty 1	Ply 1	6085 Cool Springs Rd / Broadway, NC I64344110 Job Reference (optional)
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Comtech, Inc. Fayetteville, NC - 28314,

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NOTES-

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 34, 35, 36, 38, 39, 40, 23, 30, 28, 27, 26 except (jt=lb) 2=176, 37=100, 41=261, 29=101, 25=239.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) 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.

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

Job	Truss	Truss Type	Qty	Ply	6085 Cool Springs Rd / Broadway, NC	I64344111
J0324-1345	D2	PIGGYBACK BASE	10	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

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-0-11-0	9-5-8	14-1-8	23-7-0	24-6-0
0-11-0	9-5-8	4-7-15	9-5-8	0-11-0

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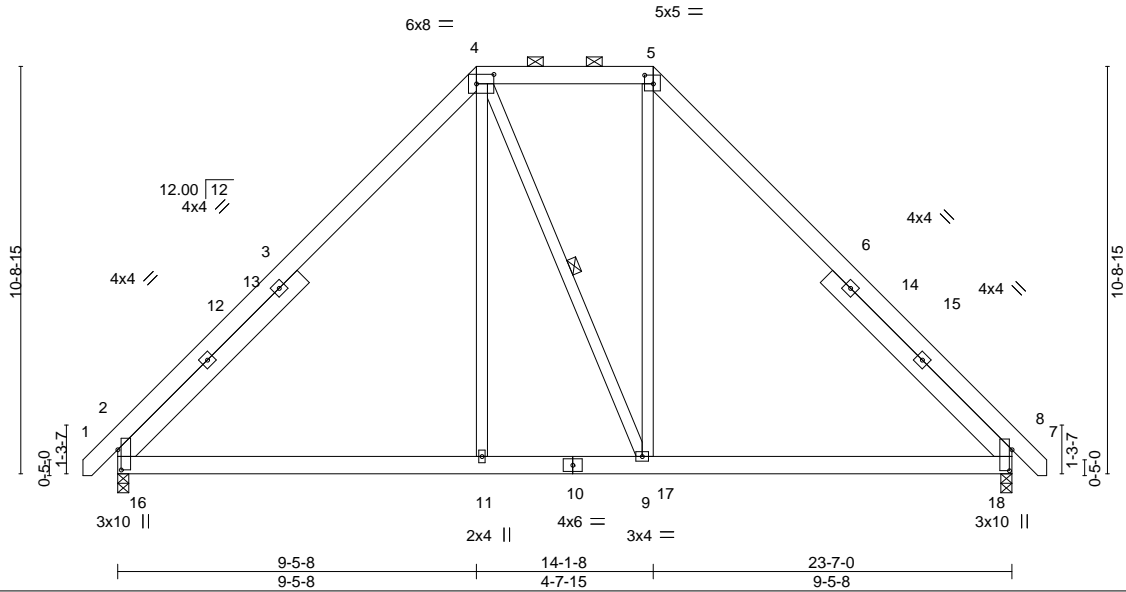


Plate Offsets (X,Y)-- [2:0-6-6,0-1-1], [4:0-5-8,0-3-0], [5:0-2-12,0-2-12], [7:0-6-10,0-0-13]

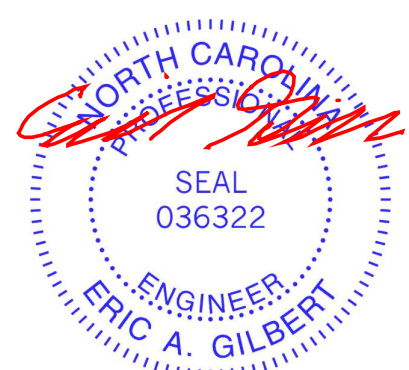
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.42	Vert(LL)	-0.17	2-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.51	Vert(CT)	-0.23	2-11	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.02	7	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S	Wind(LL)	0.04	2-11	>999	Weight: 213 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (6-0-0 max.): 4-5.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Left 2x6 SP No.1 6-9-13, Right 2x6 SP No.1 6-9-13	WEBS 1 Row at midpt 4-9

REACTIONS. (size) 2=0-3-8, 7=0-3-8
 Max Horz 2=247(LC 11)
 Max Uplift 2=-35(LC 12), 7=-35(LC 13)
 Max Grav 2=1370(LC 19), 7=1368(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1289/231, 4-5=-815/319, 5-7=-1289/254
 BOT CHORD 2-11=-61/882, 9-11=-60/889, 7-9=0/830
 WEBS 4-11=0/571, 5-9=-46/570

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-10 to 3-7-3, Interior(1) 3-7-3 to 9-5-8, Exterior(2E) 9-5-8 to 14-1-8, Exterior(2R) 14-1-8 to 20-4-2, Interior(1) 20-4-2 to 24-4-10 zone;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 with a clearance greater than 6-0-0 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 100 lb uplift at joint(s) 2, 7.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



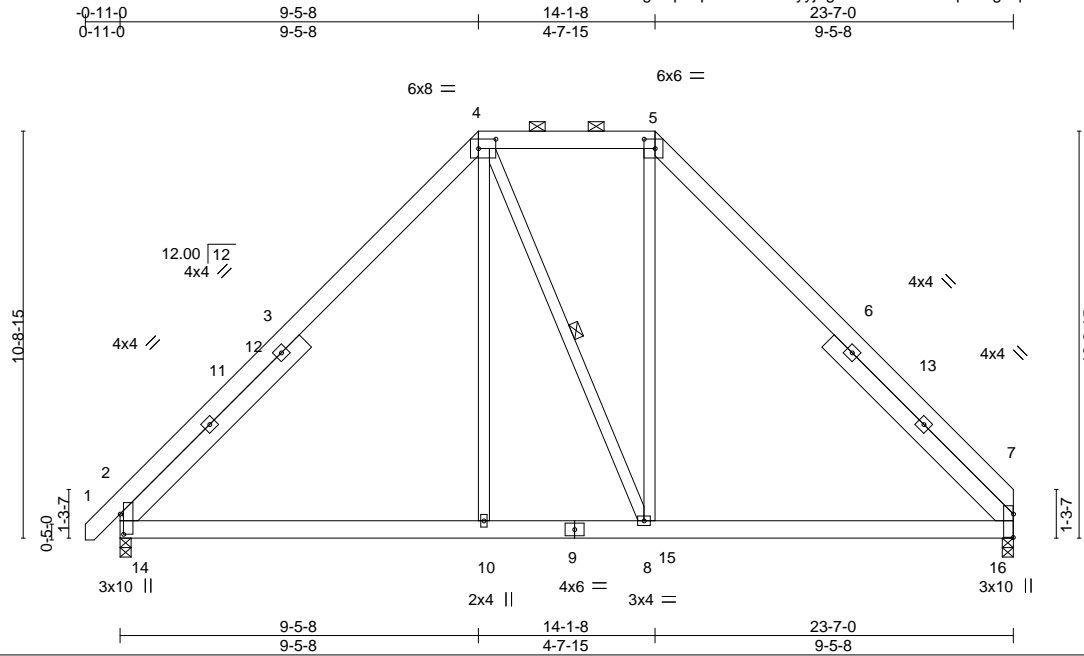
March 21, 2024

Job J0324-1345	Truss D3	Truss Type PIGGYBACK BASE	Qty 5	Ply 1	6085 Cool Springs Rd / Broadway, NC Job Reference (optional)	I64344112
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Comtech, Inc. Fayetteville, NC - 28314,

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Scale = 1:60.8

Plate Offsets (X, Y)--	[2:0-6,0-1-1], [4:0-5-8,0-3-0], [5:0-3-8,0-3-0], [7:0-7-6,0-0-1]
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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 0.42	Vert(LL)	-0.17	2-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.52	Vert(CT)	-0.23	2-10	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.02	7	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S	Wind(LL)	0.04	2-10	>999	Weight: 210 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 4-8
SLIDER Left 2x6 SP No.1 6-9-13, Right 2x6 SP No.1 6-9-13	

REACTIONS. (size) 7=0-3-8, 2=0-3-8
 Max Horz 2=247(LC 9)
 Max Uplift 7=-24(LC 13), 2=-35(LC 12)
 Max Grav 7=1326(LC 2), 2=1371(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1290/232, 4-5=-817/319, 5-7=-1292/253
 BOT CHORD 2-10=-62/881, 8-10=-61/889, 7-8=0/830
 WEBS 4-10=0/568, 5-8=-46/573

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-10 to 3-7-3, Interior(1) 3-7-3 to 9-5-8, Exterior(2E) 9-5-8 to 14-1-8, Exterior(2R) 14-1-8 to 20-4-2, Interior(1) 20-4-2 to 23-7-0 zone; 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 with a clearance greater than 6-0-0 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 100 lb uplift at joint(s) 7, 2.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



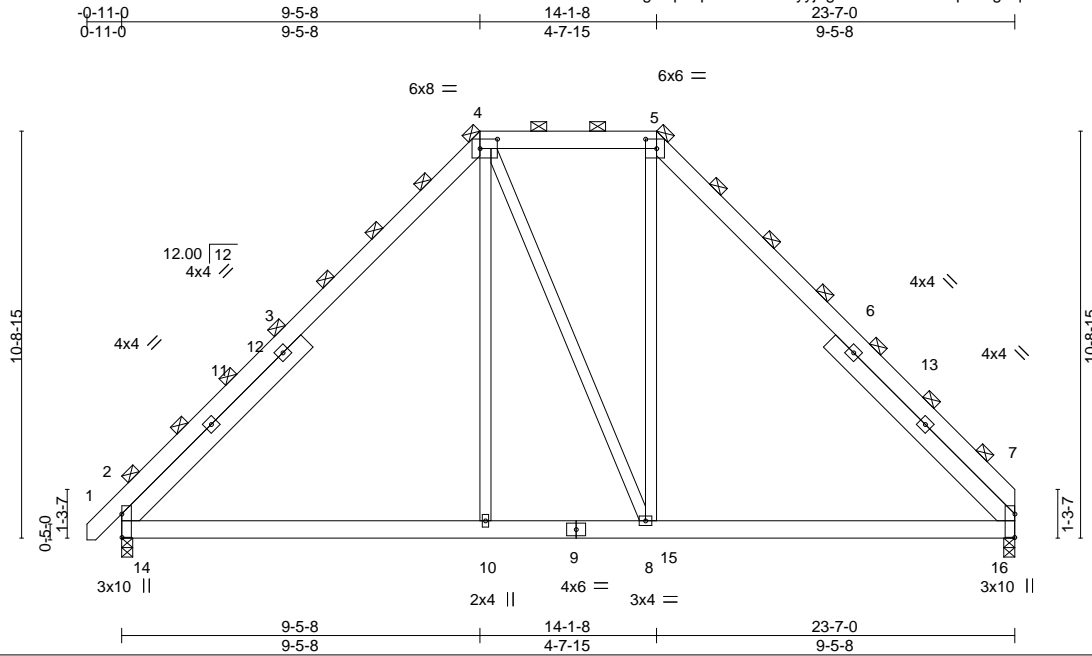
March 21, 2024

Job J0324-1345	Truss D4	Truss Type PIGGYBACK BASE	Qty 1	Ply 2	6085 Cool Springs Rd / Broadway, NC Job Reference (optional)	I64344113
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:28:58 2024 Page 1

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Plate Offsets (X,Y)--	[2:0-7-7,0-0-1], [4:0-5-8,0-3-0], [5:0-3-8,0-3-0], [7:0-7-7,0-0-1]
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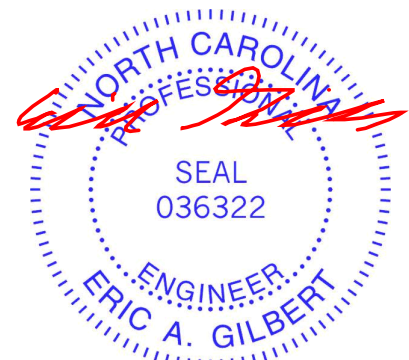
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	3-0-0	TC 0.36	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.43	Vert(LL) -0.13 2-10 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.11	Vert(CT) -0.18 2-10 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.01 7 n/a n/a		
	Code IRC2021/TP12014		Wind(LL) 0.03 2-10 >999 240	Weight: 420 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
BOT CHORD 2x6 SP No.1	(Switched from sheeted: Spacing > 2-8-0).
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Left 2x6 SP No.1 6-9-13, Right 2x6 SP No.1 6-9-13	

REACTIONS. (size) 7=0-3-8, 2=0-3-8
 Max Horz 2=370(LC 9)
 Max Uplift 7=-36(LC 13), 2=-53(LC 12)
 Max Grav 7=1989(LC 2), 2=2057(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1935/348, 4-5=-1225/479, 5-7=-1937/380
 BOT CHORD 2-10=-93/1322, 8-10=-92/1333, 7-8=0/1245
 WEBS 4-10=0/852, 4-8=-252/257, 5-8=-69/860

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; TCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-10 to 3-7-3, Interior(1) 3-7-3 to 9-5-8, Exterior(2E) 9-5-8 to 14-1-8, Exterior(2R) 14-1-8 to 20-4-2, Interior(1) 20-4-2 to 23-7-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



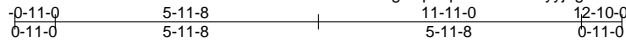
March 21, 2024

<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/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)</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job J0324-1345	Truss E1-GE	Truss Type GABLE	Qty 1	Ply 1	6085 Cool Springs Rd / Broadway, NC 164344114
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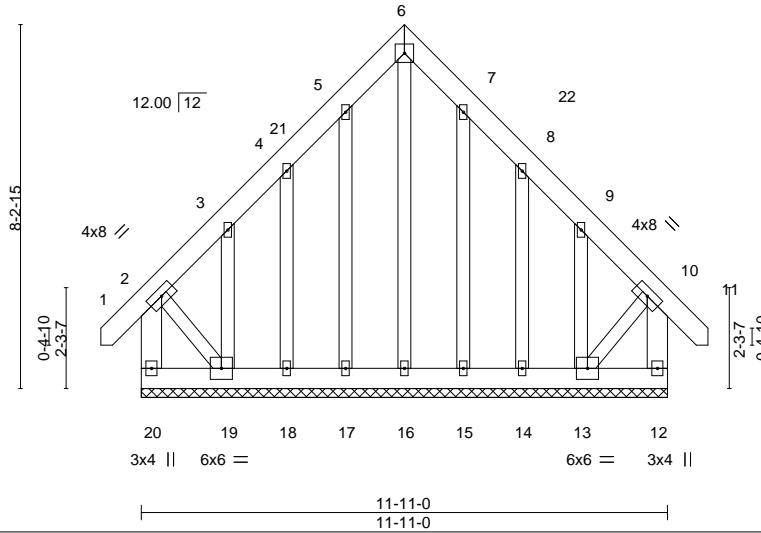
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:28:59 2024 Page 1
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5x5 =

Scale = 1:52.2



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 0.05	Vert(LL)	-0.00	10	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	10	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.20	Horz(CT)	0.00	12	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						
								Weight: 140 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x6 SP No.1 *Except*
 2-19,10-13; 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.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 11-11-0.
 (lb) - Max Horz 20=-288(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 17, 15 except 20=-150(LC 10), 12=-106(LC 11), 18=-106(LC 12), 19=-274(LC 12), 14=-106(LC 13), 13=-269(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 12, 16, 17, 18, 15, 14, 13 except 20=274(LC 20), 19=267(LC 10)

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

TOP CHORD 2-20=-251/154
 BOT CHORD 19-20=-265/248, 18-19=-157/264, 17-18=-158/265, 16-17=-158/265, 15-16=-158/265, 14-15=-158/265, 13-14=-157/264
 WEBS 2-19=-192/310, 10-13=-170/312

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-7 to 3-7-6, Exterior(2N) 3-7-6 to 5-11-8, Corner(3R) 5-11-8 to 10-4-5, Exterior(2N) 10-4-5 to 12-8-7 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
- 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.
- 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 1-4-0 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 15 except (jt=lb) 20=150, 12=106, 18=106, 19=274, 14=106, 13=269.



March 21, 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/TPI Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road
 Edenton, NC 27932

Job J0324-1345	Truss F3	Truss Type COMMON	Qty 3	Ply 1	6085 Cool Springs Rd / Broadway, NC 164344117
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:29:02 2024 Page 1
ID:8k6l0gR3p6kpzTIU2ZRrskYyj1gZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



6x6 =

Scale = 1:65.7

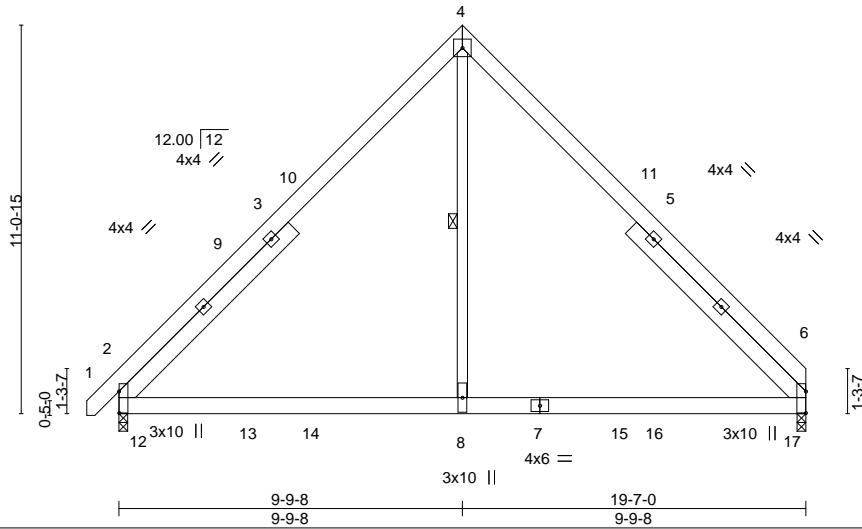


Plate Offsets (X,Y)-- [2:0-7-6,0-0-1], [6:0-7-6,0-0-1]

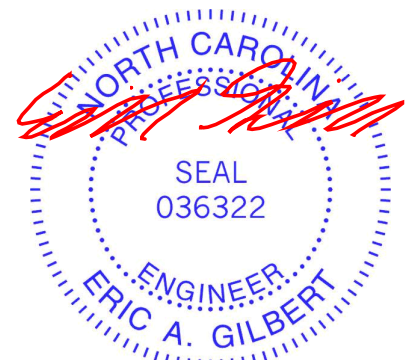
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.48	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.60	Vert(LL) -0.13 6-8 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.30	Vert(CT) -0.18 6-8 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 6 n/a n/a		
	Code IRC2021/TPI2014		Wind(LL) 0.12 2-8 >999 240	Weight: 163 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 4-8
SLIDER Left 2x6 SP No.1 6-11-6, Right 2x6 SP No.1 6-11-6	

REACTIONS. (size) 6=0-3-0, 2=0-3-0
 Max Horz 2=253(LC 9)
 Max Uplift 6=80(LC 8), 2=101(LC 8)
 Max Grav 6=1117(LC 20), 2=1162(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1101/706, 4-6=-1023/706
 BOT CHORD 2-8=-268/654, 6-8=-268/654
 WEBS 4-8=-631/904

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-10 to 3-7-3, Interior(1) 3-7-3 to 9-9-8, Exterior(2R) 9-9-8 to 14-2-5, Interior(1) 14-2-5 to 19-7-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=101.

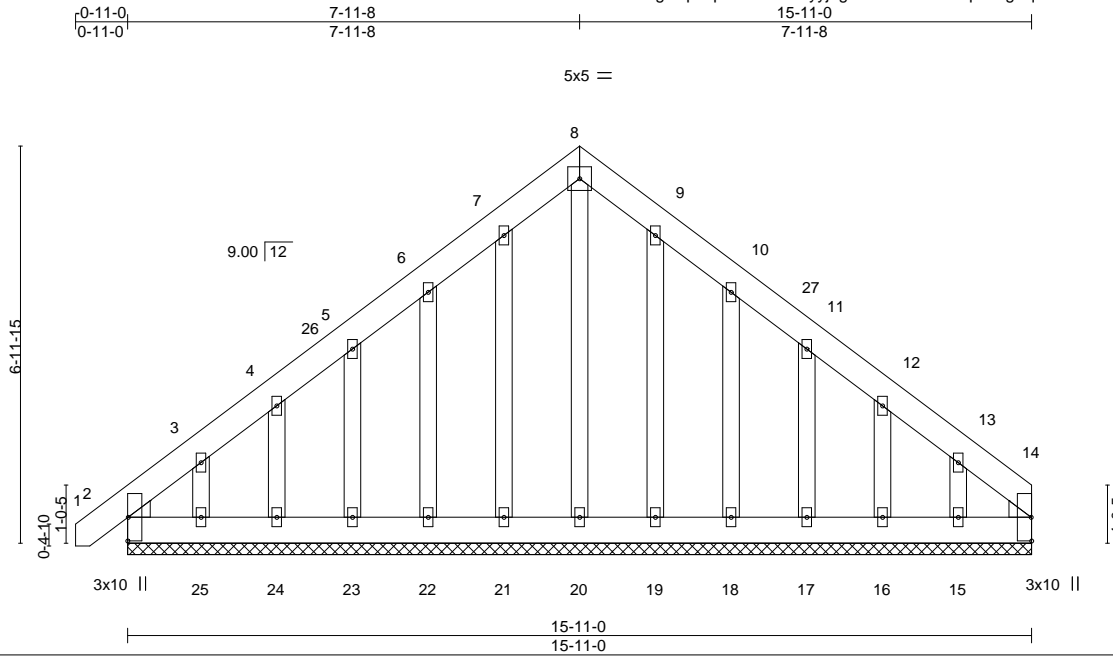


March 21, 2024

Job	Truss	Truss Type	Qty	Ply	6085 Cool Springs Rd / Broadway, NC	I64344118
J0324-1345	G1-GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:29:02 2024 Page 1
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Scale = 1:40.6

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 0.04	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	14	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S					Weight: 143 lb	FT = 20%

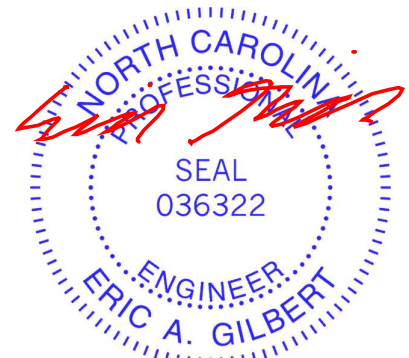
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 OTHERS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.2 , Right: 2x4 SP No.2

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 15-11-0.
 (lb) - Max Horz 2=196(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 21, 22, 23, 24, 14, 19, 18, 17, 16 except 25=126(LC 12), 15=126(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 20, 21, 22, 23, 24, 25, 14, 19, 18, 17, 16, 15

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-8 to 3-7-5, Exterior(2N) 3-7-5 to 7-11-8, Corner(3R) 7-11-8 to 12-4-5, Exterior(2N) 12-4-5 to 15-11-0 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 1-4-0 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 with a clearance greater than 6-0-0 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, 21, 22, 23, 24, 14, 19, 18, 17, 16 except (jt=lb) 25=126, 15=126.



March 21, 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 J0324-1345	Truss G2	Truss Type COMMON	Qty 2	Ply 1	6085 Cool Springs Rd / Broadway, NC I64344119
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:29:03 2024 Page 1

ID:8k6l0gR3p6kpzTIU2ZRskYyj1gZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Job Reference (optional)



5x5 =

Scale = 1:41.0

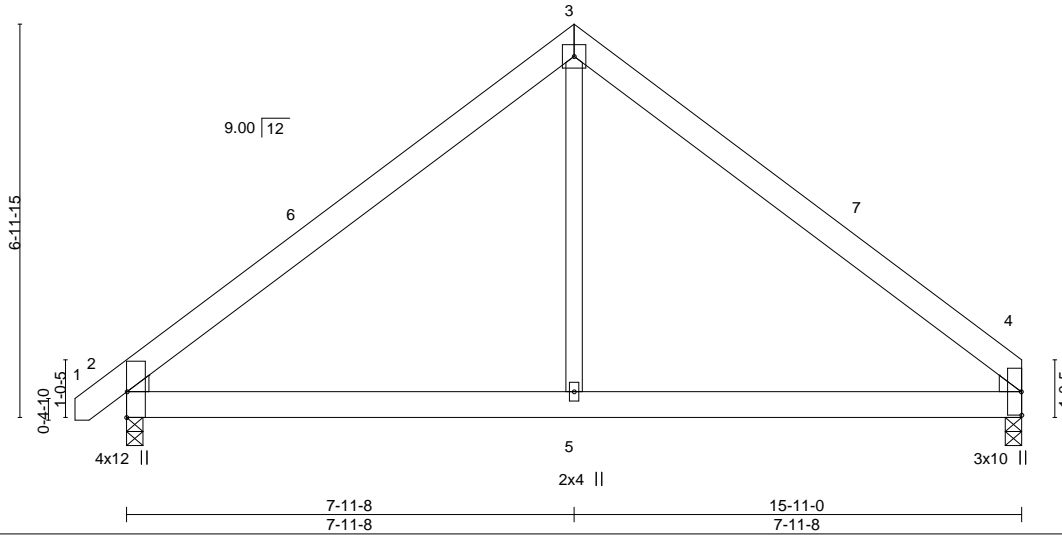


Plate Offsets (X, Y)--	[2:Edge,0-0-2]
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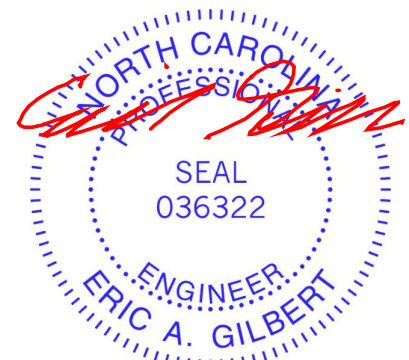
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.31	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.22	Vert(LL) -0.02 4-5 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.09	Vert(CT) -0.05 4-5 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 4 n/a n/a		
	Code IRC2021/TPI2014		Wind(LL) 0.02 2-5 >999 240	Weight: 98 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
WEDGE	
Left: 2x4 SP No.2, Right: 2x4 SP No.2	

REACTIONS. (size) 2=0-3-8, 4=0-3-8
 Max Horz 2=157(LC 9)
 Max Uplift 2=-41(LC 12), 4=-28(LC 13)
 Max Grav 2=683(LC 1), 4=623(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-713/186, 3-4=-710/184
 BOT CHORD 2-5=0/449, 4-5=0/449
 WEBS 3-5=0/384

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-8 to 3-7-5, Interior(1) 3-7-5 to 7-11-8, Exterior(2R) 7-11-8 to 12-4-5, Interior(1) 12-4-5 to 15-9-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



March 21, 2024

<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>ENGINEERING BY TRENCO <small>A MiTek Affiliate</small></p> <p>818 Soundside Road Edenton, NC 27932</p>
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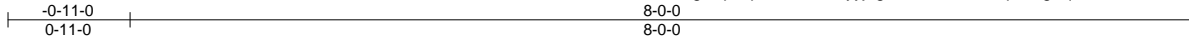
Job	Truss	Truss Type	Qty	Ply	6085 Cool Springs Rd / Broadway, NC	I64344120
J0324-1345	H1	JACK-CLOSED	15	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:29:03 2024 Page 1

ID:8k6l0gR3p6kpzTIU2ZRskYyj1gZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Job Reference (optional)



Scale = 1:17.3

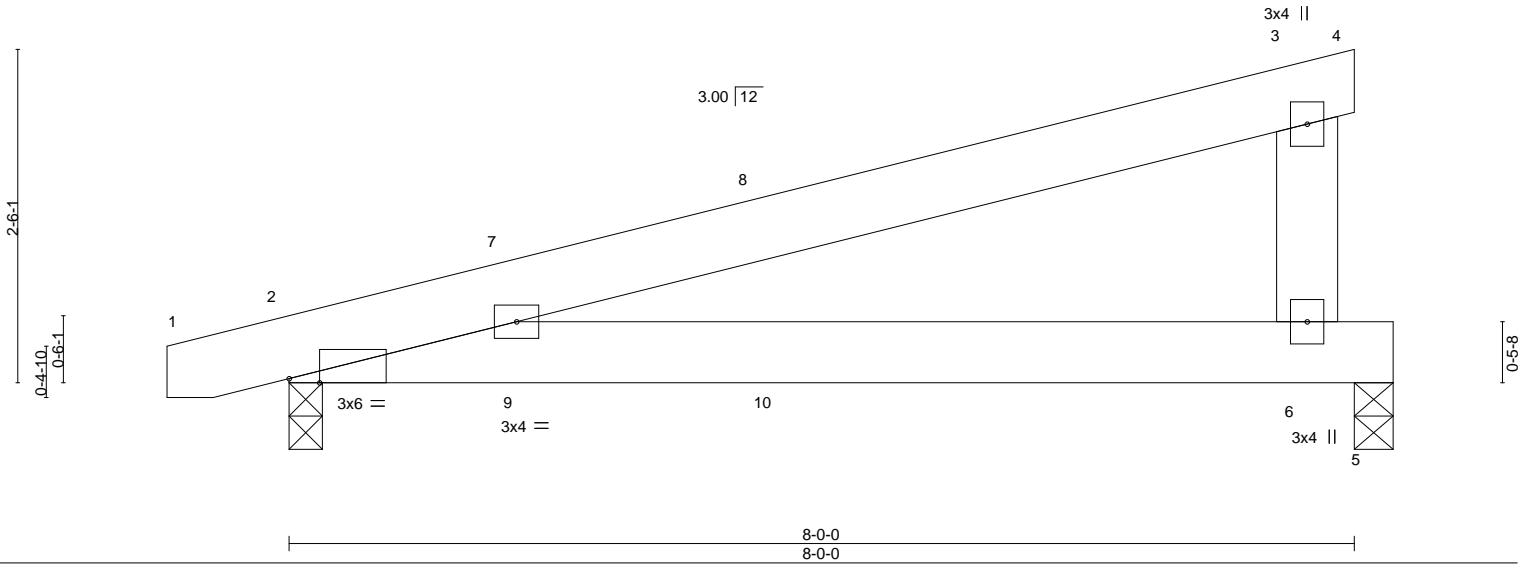


Plate Offsets (X,Y)-- [2:0-2-12,Edge]		CSI.		DEFL.				PLATES	GRIP
LOADING (psf)	SPACING- 2-0-0	TC	0.35	in	(loc)	l/defl	L/d	MT20	244/190
TCLL 20.0	Plate Grip DOL 1.15	BC	0.50	Vert(LL) -0.06	2-6	>999	360		
TCDL 10.0	Lumber DOL 1.15	WB	0.00	Vert(CT) -0.12	2-6	>799	240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P		Horz(CT) 0.00		n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014			Wind(LL) 0.22	2-6	>434	240	Weight: 45 lb	FT = 20%

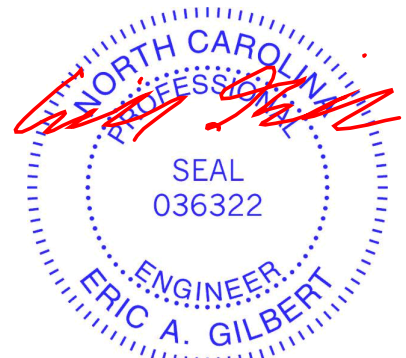
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x6 SP No.1

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

REACTIONS. (size) 2=0-3-0, 5=0-3-8
 Max Horz 2=73(LC 8)
 Max Uplift 2=-149(LC 8), 5=-125(LC 8)
 Max Grav 2=376(LC 1), 5=309(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-6=-244/319

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-15 to 3-7-14, Interior(1) 3-7-14 to 8-0-0 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 with a clearance greater than 6-0-0 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=149, 5=125.
 - 5) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 21, 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/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)



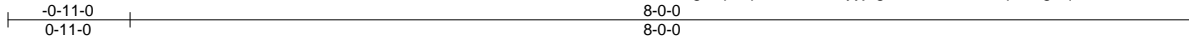
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	6085 Cool Springs Rd / Broadway, NC	I64344121
J0324-1345	H2	JACK-CLOSED	2	1		

Comtech, Inc. Fayetteville, NC - 28314,

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ID:8k6l0gR3p6kpzTIU2ZRskYyj1gZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f
8-0-0
8-0-0



Scale = 1:17.3

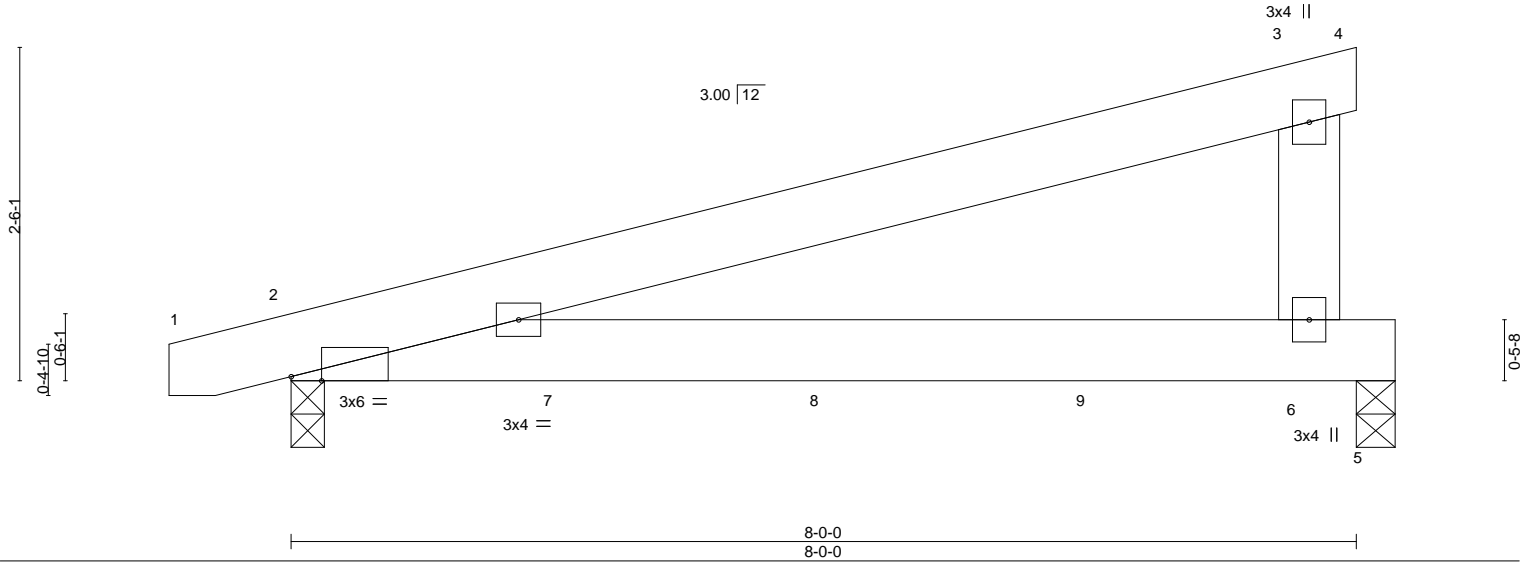


Plate Offsets (X,Y)-- [2:0-2-12,Edge]		CSI.		DEFL.		PLATES		GRIP	
LOADING (psf)	SPACING-	2-0-0	TC	in	(loc)	l/defl	L/d	MT20	244/190
TCLL 20.0	Plate Grip DOL	1.15	BC	0.23	2-6	>423	240		
TCDL 10.0	Lumber DOL	1.15	WB	-0.32	2-6	>300	240		
BCLL 0.0 *	Rep Stress Incr	NO	Matrix-P	0.00		n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014							Weight: 45 lb	FT = 20%

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 or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 5-11-4 oc bracing.

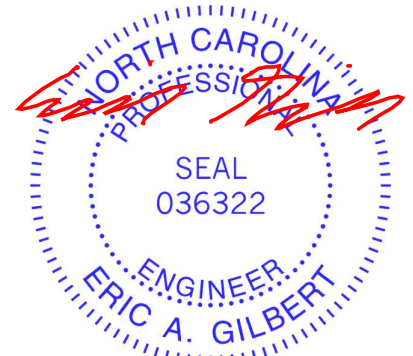
REACTIONS. (size) 2=0-3-0, 5=0-3-8
 Max Horz 2=73(LC 4)
 Max Uplift 2=-237(LC 4), 5=-285(LC 4)
 Max Grav 2=639(LC 1), 5=712(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-6=-366/148

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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 with a clearance greater than 6-0-0 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=-237, 5=285.
 - 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) 116 lb down and 68 lb up at 8-0-0 on top chord, and 171 lb down and 87 lb up at 2-0-12, 171 lb down and 88 lb up at 4-0-12, and 171 lb down and 91 lb up at 6-0-12, and 75 lb down and 36 lb up at 8-1-12 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: 1-3=-60, 3-4=-60, 2-5=-20
 Concentrated Loads (lb)
 Vert: 4=-116(F) 5=-37(F) 7=-171(F) 8=-171(F) 9=-171(F)



March 21, 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/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)



818 Soundside Road
 Edenton, NC 27932

Job J0324-1345	Truss H3	Truss Type JACK-OPEN	Qty 4	Ply 1	6085 Cool Springs Rd / Broadway, NC 164344122
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:29:04 2024 Page 1
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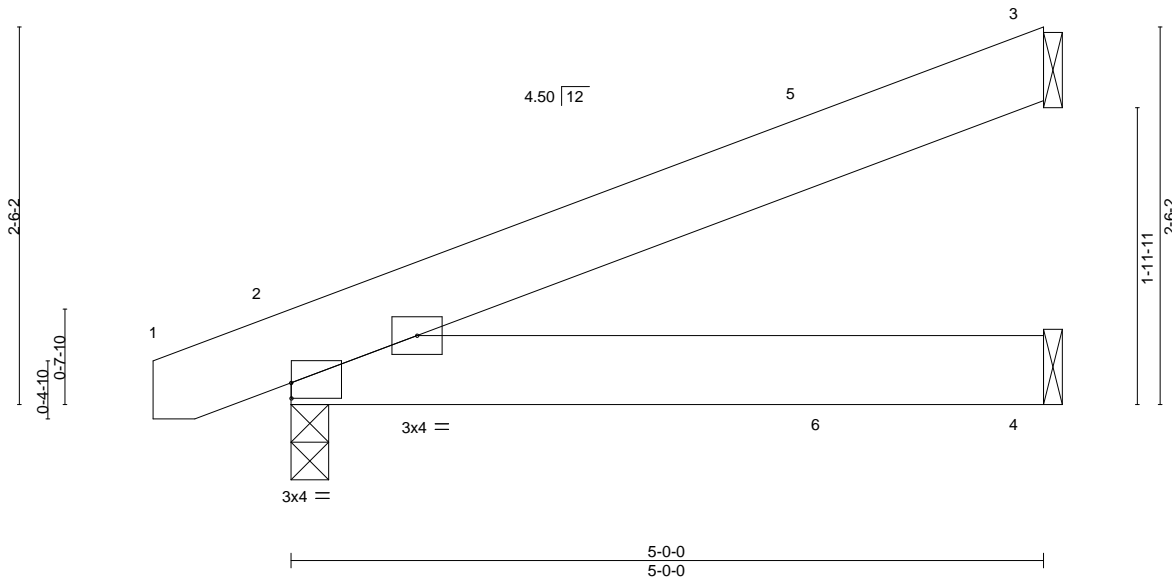


Plate Offsets (X,Y)-- [2:Edge,0-1-4]		LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.01	2-4	>999	360	MT20	244/190			
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.01	2-4	>999	240					
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a					
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P		Wind(LL)	0.02	2-4	>999	240	Weight: 27 lb	FT = 20%			

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

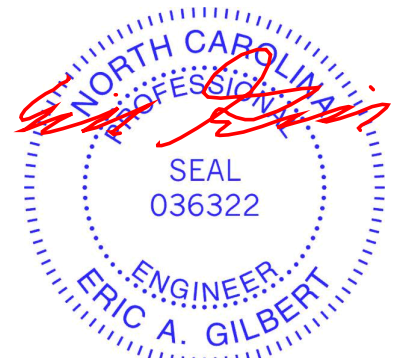
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical
Max Horz 2=69(LC 12)
Max Uplift 3=62(LC 12), 2=91(LC 8), 4=25(LC 8)
Max Grav 3=139(LC 1), 2=252(LC 1), 4=96(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-5 to 3-7-7, Interior(1) 3-7-7 to 4-11-4 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 with a clearance greater than 6-0-0 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, 2, 4.
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 21, 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	Truss	Truss Type	Qty	Ply	6085 Cool Springs Rd / Broadway, NC	I64344123
J0324-1345	H3A	JACK-OPEN	4	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:29:04 2024 Page 1
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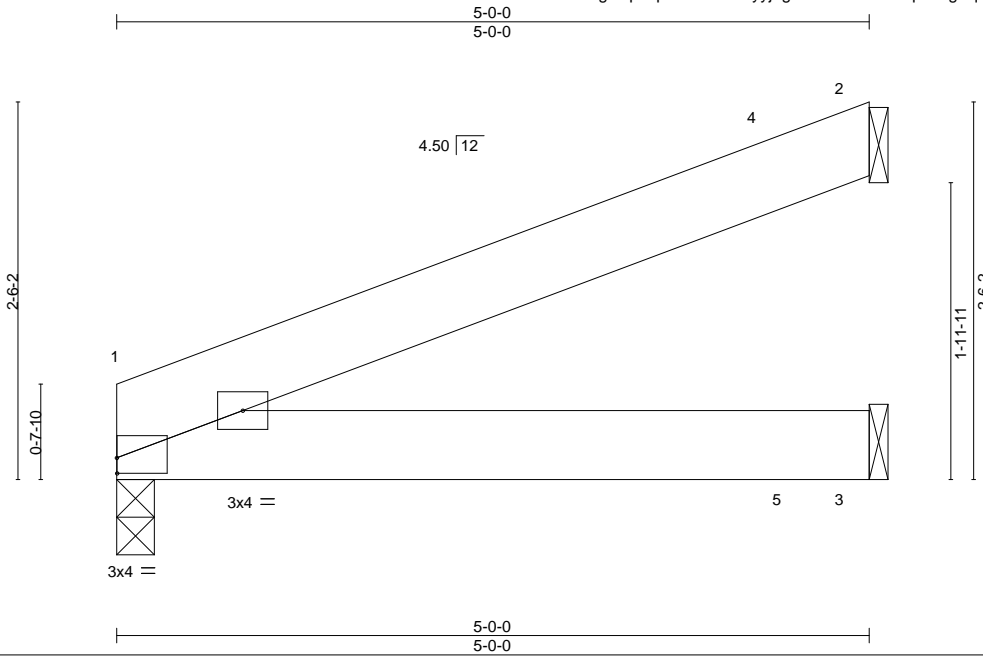


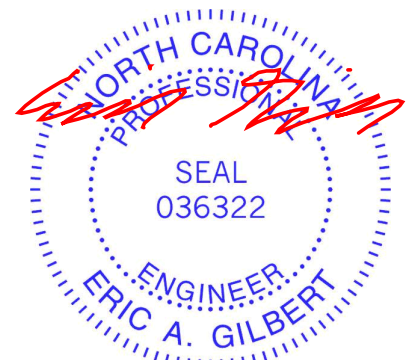
Plate Offsets (X,Y)-- [1:Edge,0-1-4]		CSI.		DEFL.		PLATES		GRIP	
LOADING (psf)	SPACING- 2-0-0	TC	0.14	in (loc)	l/defl	L/d	MT20	244/190	
TCLL 20.0	Plate Grip DOL 1.15	BC	0.14	Vert(LL) -0.01	1-3	>999			
TCDL 10.0	Lumber DOL 1.15	WB	0.00	Vert(CT) -0.01	1-3	>999			
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P		Horz(CT) -0.00	2	n/a			
BCDL 10.0	Code IRC2021/TPI2014			Wind(LL) 0.02	1-3	>999			
							Weight: 25 lb	FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-0, 2=Mechanical, 3=Mechanical
 Max Horz 1=66(LC 12)
 Max Uplift 1=57(LC 8), 2=63(LC 12), 3=25(LC 8)
 Max Grav 1=193(LC 1), 2=144(LC 1), 3=96(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-8 to 4-6-5, Interior(1) 4-6-5 to 4-11-4 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 with a clearance greater than 6-0-0 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) 1, 2, 3.



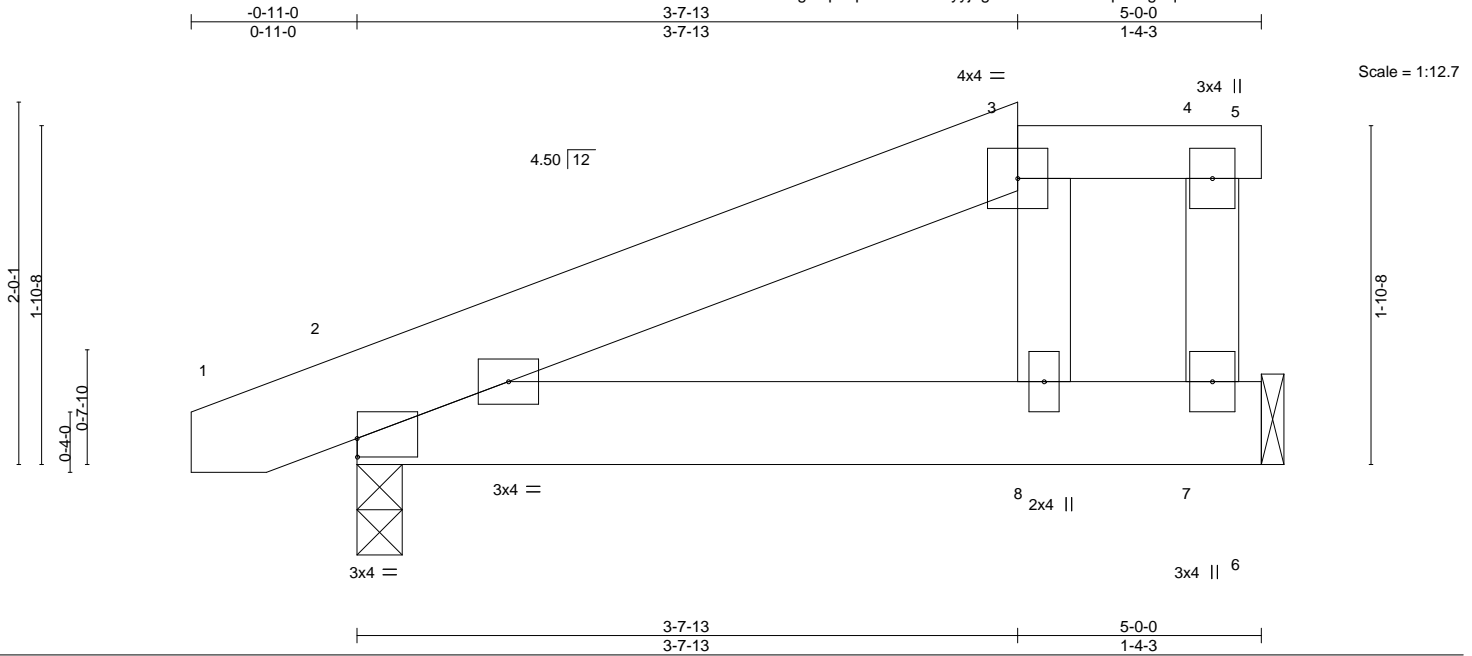
March 21, 2024

Job J0324-1345	Truss H4	Truss Type JACK-OPEN	Qty 2	Ply 1	6085 Cool Springs Rd / Broadway, NC Job Reference (optional)	164344124
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:29:05 2024 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) 0.02 2-8 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Vert(CT) -0.01 2-8 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.00 7 n/a n/a		
	Code IRC2021/TPI2014			Weight: 29 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 3-5: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 7=Mechanical, 2=0-3-0
 Max Horz 2=52(LC 12)
 Max Uplift 7=-71(LC 8), 2=-91(LC 8)
 Max Grav 7=191(LC 1), 2=238(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; porch left 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 21, 2024

Job	Truss	Truss Type	Qty	Ply	6085 Cool Springs Rd / Broadway, NC	I64344125
J0324-1345	H5	JACK-OPEN	2	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:29:05 2024 Page 1
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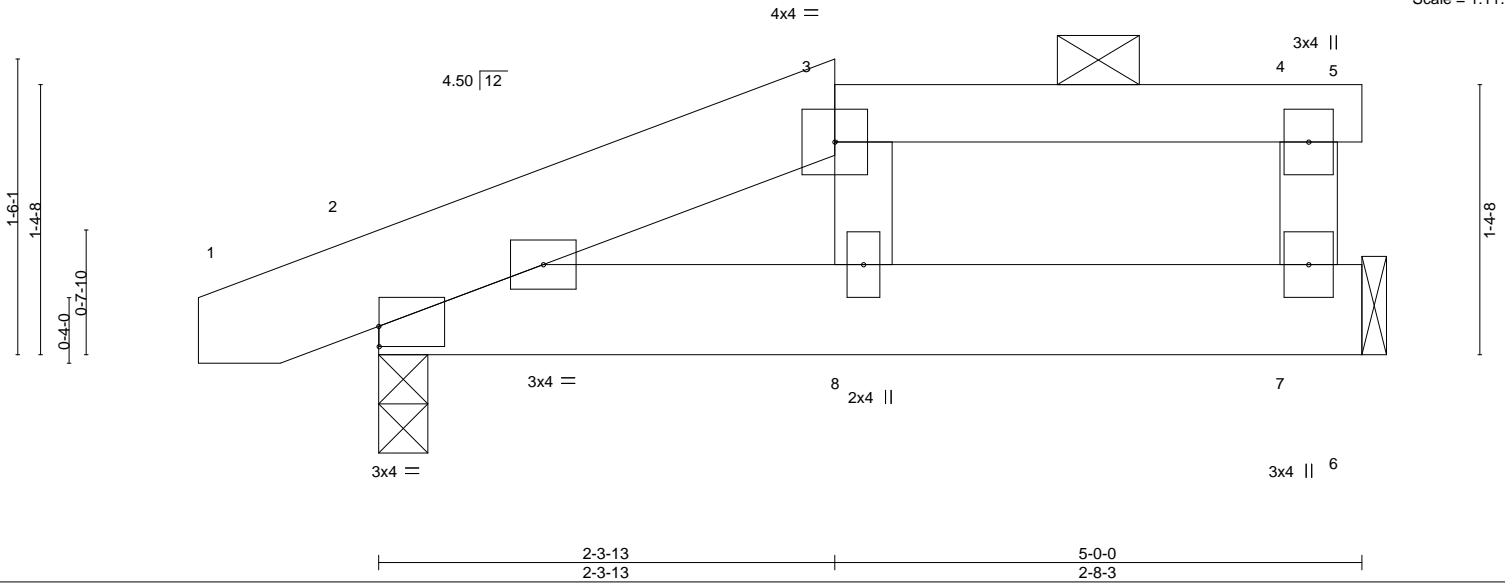


Plate Offsets (X,Y)--	[2:Edge,0-1-4]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	-0.00	8	>999
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	-0.01	8	>999
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	-0.00	7	n/a
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S	Wind(LL)	0.01	8	>999
							PLATES
							MT20
							GRIP
							244/190
							Weight: 26 lb
							FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1 *Except*
 3-5: 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2

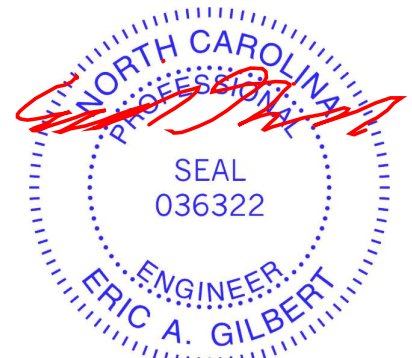
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=Mechanical, 2=0-3-0
 Max Horz 2=36(LC 8)
 Max Uplift 7=68(LC 8), 2=96(LC 8)
 Max Grav 7=191(LC 1), 2=238(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; porch left 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 21, 2024

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	6085 Cool Springs Rd / Broadway, NC	I64344126
J0324-1345	H6	JACK-OPEN	2	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:29:06 2024 Page 1

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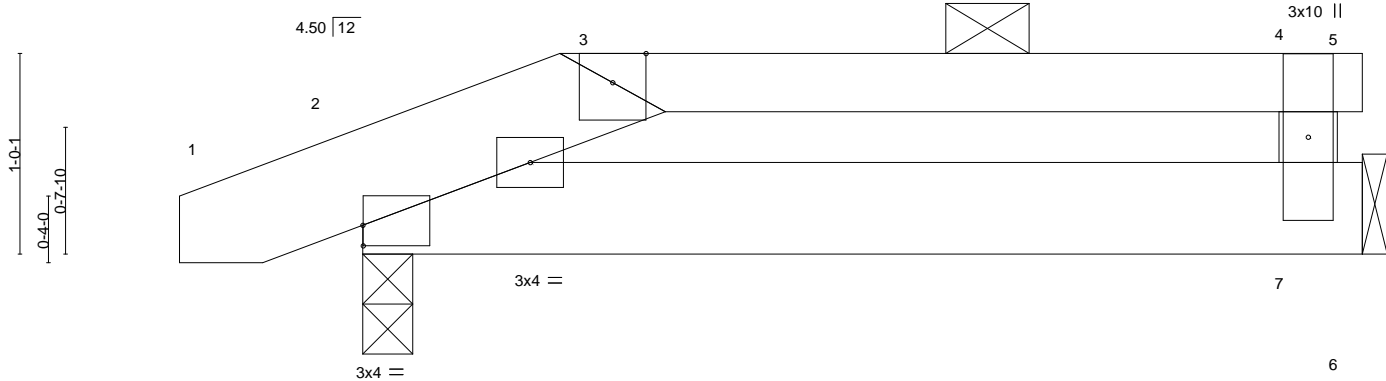


Plate Offsets (X,Y)-- [2:Edge,0-1-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.20	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.08	Vert(LL) -0.00 2-7 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.01 2-7 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) -0.00 7 n/a n/a		
	Code IRC2021/TPI2014		Wind(LL) 0.01 2-7 >999 240	Weight: 24 lb	FT = 20%

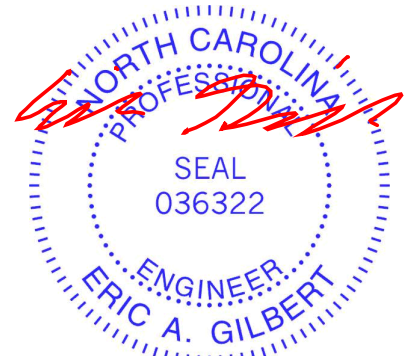
LUMBER-
TOP CHORD 2x6 SP No.1 *Except*
3-5: 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=Mechanical, 2=0-3-0
Max Horz 2=24(LC 8)
Max Uplift 7=67(LC 8), 2=99(LC 8)
Max Grav 7=191(LC 1), 2=238(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-242/333, 3-4=-190/327
BOT CHORD 2-7=-327/190

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Refer to girder(s) for truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 21, 2024

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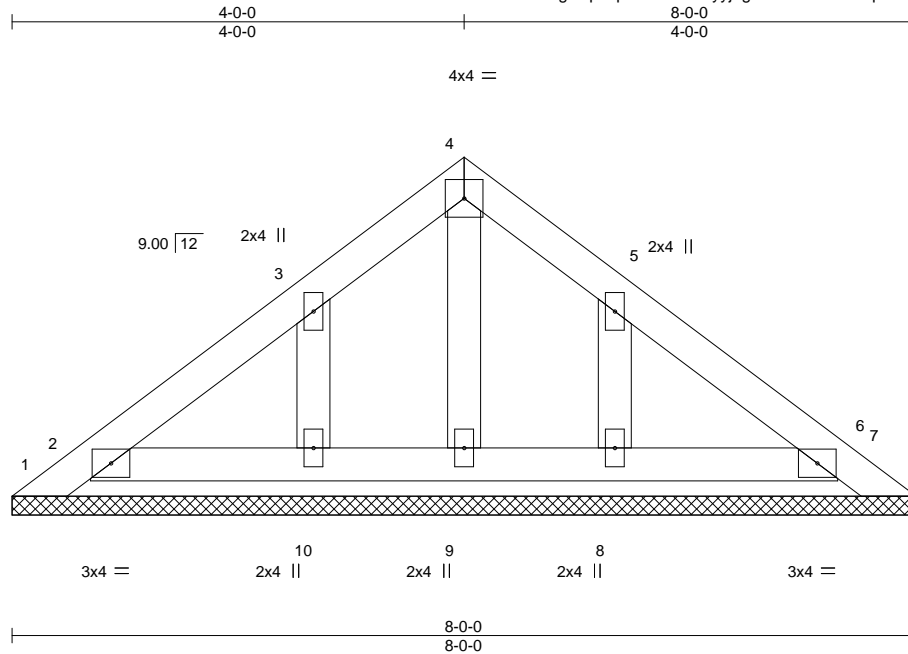


818 Soundside Road
Edenton, NC 27932

Job J0324-1345	Truss PB1	Truss Type GABLE	Qty 2	Ply 1	6085 Cool Springs Rd / Broadway, NC 164344127
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:29:07 2024 Page 1
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Scale = 1:20.4

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.05	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 32 lb	FT = 20%
	Code IRC2021/TPI2014							

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

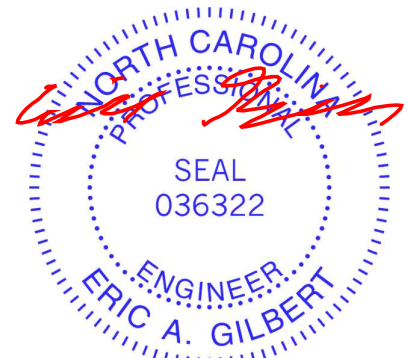
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 8-0-0.
 (lb) - Max Horz 1--84(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 2, 6, 10, 8
 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) 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 1-4-0 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 with a clearance greater than 6-0-0 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) 1, 7, 2, 6, 10, 8.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 21, 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)

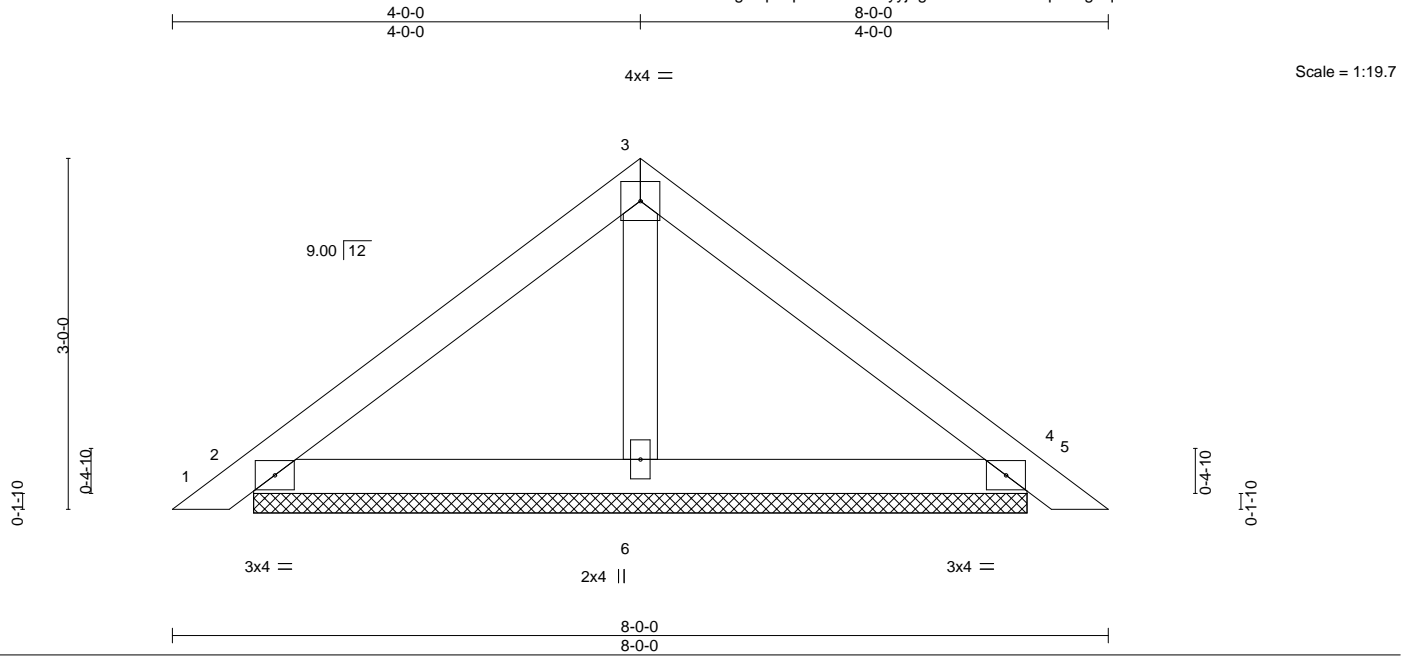


818 Soundside Road
Edenton, NC 27932

Job J0324-1345	Truss PB2	Truss Type PIGGYBACK	Qty 12	Ply 1	6085 Cool Springs Rd / Broadway, NC 164344128
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:29:07 2024 Page 1
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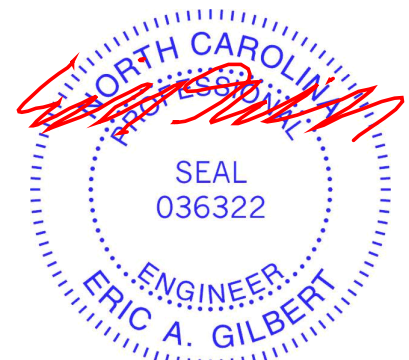
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	Vert(LL)	0.00	5	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.08	Vert(CT)	0.01	5	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 28 lb	FT = 20%
	Code IRC2021/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=6-7-5, 4=6-7-5, 6=6-7-5
 Max Horz 2=68(LC 10)
 Max Uplift 2=31(LC 12), 4=37(LC 13)
 Max Grav 2=177(LC 1), 4=177(LC 1), 6=228(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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 with a clearance greater than 6-0-0 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.

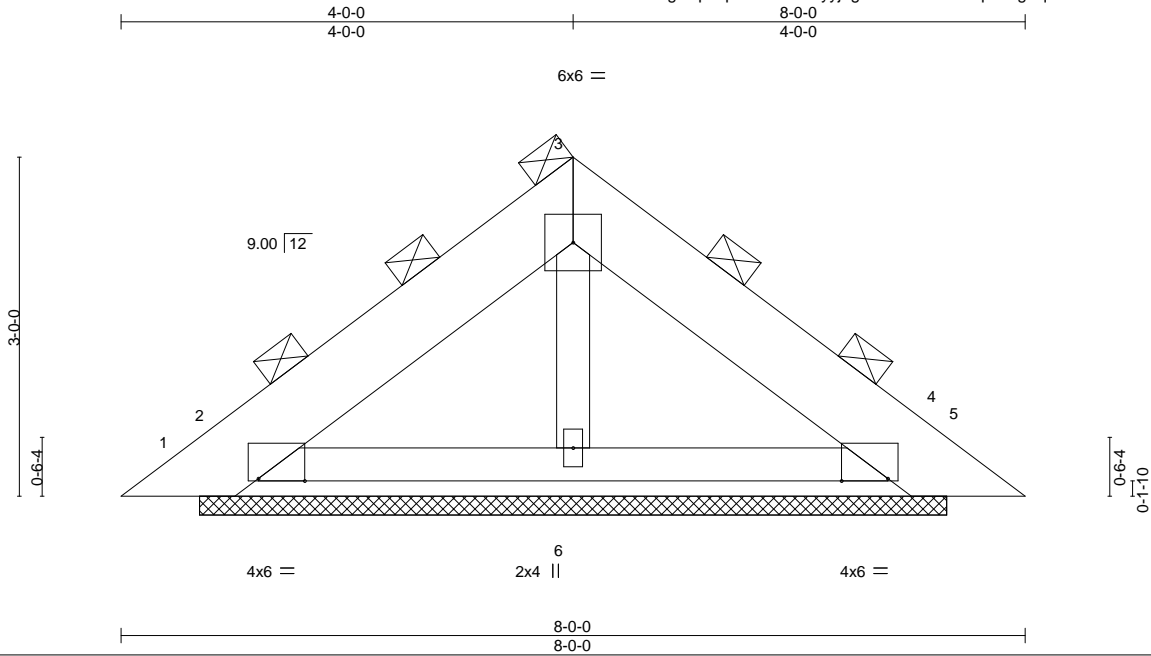


March 21, 2024

Job J0324-1345	Truss PB3	Truss Type PIGGYBACK	Qty 2	Ply 1	6085 Cool Springs Rd / Broadway, NC 164344129
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:29:08 2024 Page 1
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Scale = 1:20.4

Plate Offsets (X,Y)--	[2:0-4-15,Edge], [4:0-4-15,Edge]				
LOADING (psf)	SPACING- 4-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.02	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-P		Weight: 42 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x8 SP No.1	TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
BOT CHORD 2x4 SP No.1	(Switched from sheeted: Spacing > 2-8-0).
OTHERS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 6-7-5.
 (lb) - Max Horz 1=-126(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) except 1=-141(LC 19), 5=-101(LC 20), 2=-187(LC 12), 4=-176(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 2=524(LC 19), 4=507(LC 20), 6=334(LC 3)

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 1, 101 lb uplift at joint 5, 187 lb uplift at joint 2 and 176 lb uplift at joint 4.
 - 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



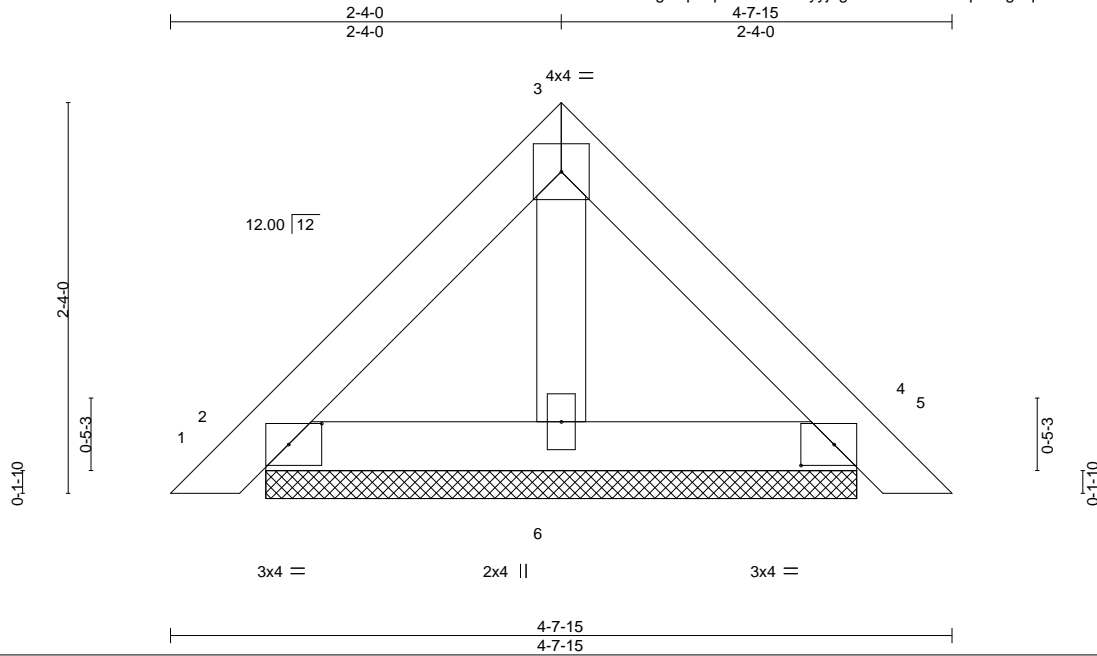
March 21, 2024

<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/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)</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job J0324-1345	Truss PB4	Truss Type Piggyback	Qty 23	Ply 1	6085 Cool Springs Rd / Broadway, NC 164344130
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Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:29:09 2024 Page 1
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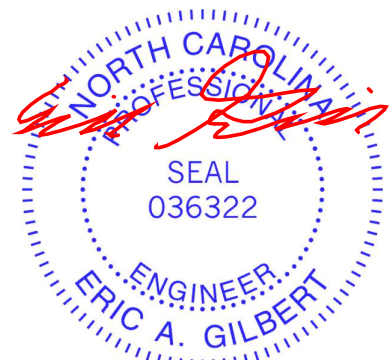
Plate Offsets (X,Y)--	[2:0-2-6,0-1-8], [4:0-2-6,0-1-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL) 0.00 4 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) 0.00 4 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.01	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-P		Weight: 17 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-7-15 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=3-6-5, 4=3-6-5, 6=3-6-5
 Max Horz 2=-64(LC 10)
 Max Uplift 2=-36(LC 12), 4=-43(LC 13)
 Max Grav 2=110(LC 1), 4=110(LC 1), 6=109(LC 3)

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; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 2 and 43 lb uplift at joint 4.
 - 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



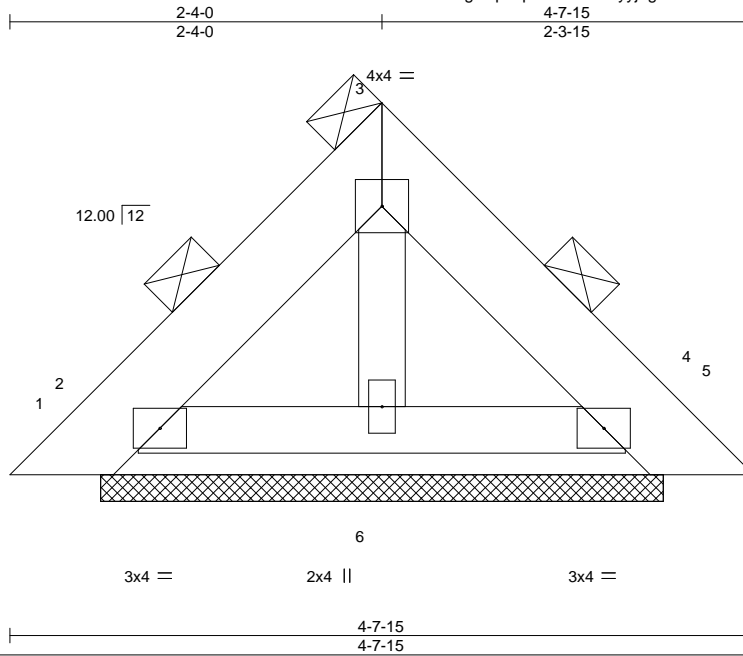
March 21, 2024

<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>ENGINEERING BY</p>  <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job J0324-1345	Truss PB5	Truss Type PIGGYBACK	Qty 1	Ply 1	6085 Cool Springs Rd / Broadway, NC I64344131
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:29:10 2024 Page 1
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Scale = 1:14.4

LOADING (psf)	SPACING-	3-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
BCLL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P						Weight: 22 lb	FT = 20%

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

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

REACTIONS. All bearings 3-6-5.
 (lb) - Max Horz 1=72(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 4
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4, 6

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Bearing at joint(s) 1, 5, 2, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 21, 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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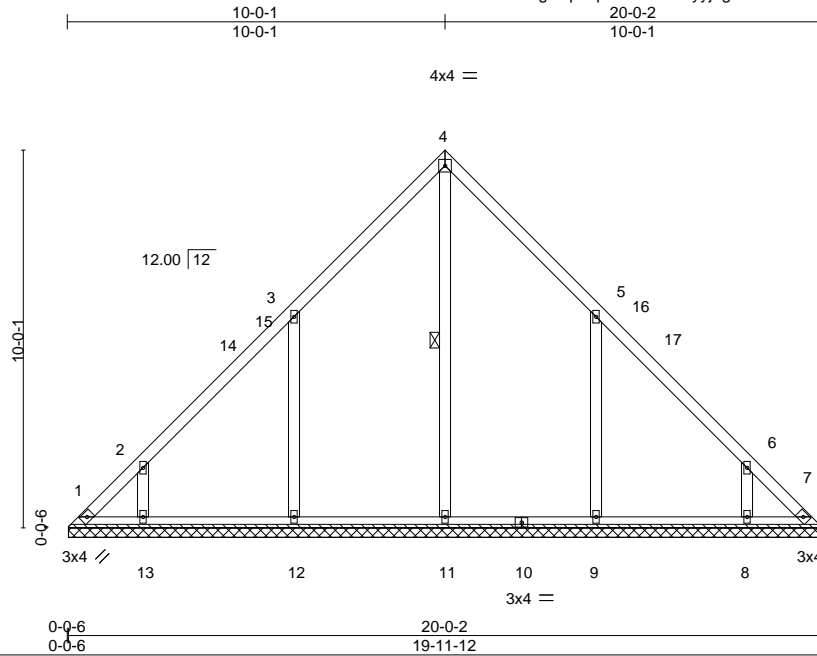


818 Soundside Road
 Edenton, NC 27932

Job J0324-1345	Truss VF-1	Truss Type Valley	Qty 1	Ply 1	6085 Cool Springs Rd / Broadway, NC Job Reference (optional)	I64344132
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:29:10 2024 Page 1
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Scale = 1:61.0

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 0.16	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S					Weight: 105 lb	FT = 20%

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.
WEBS 1 Row at midpt 4-11

REACTIONS. All bearings 19-11-6.
(lb) - Max Horz 1=231(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 7 except 1=115(LC 10), 12=185(LC 12), 13=133(LC 12), 9=184(LC 13), 8=133(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=437(LC 22), 12=490(LC 19), 13=283(LC 19), 9=490(LC 20), 8=284(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-265/202, 6-7=-254/153
WEBS 3-12=-319/310, 5-9=-319/310

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 10-0-1, Exterior(2R) 10-0-1 to 14-4-14, Interior(1) 14-4-14 to 19-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 1=115, 12=185, 13=133, 9=184, 8=133.



March 21, 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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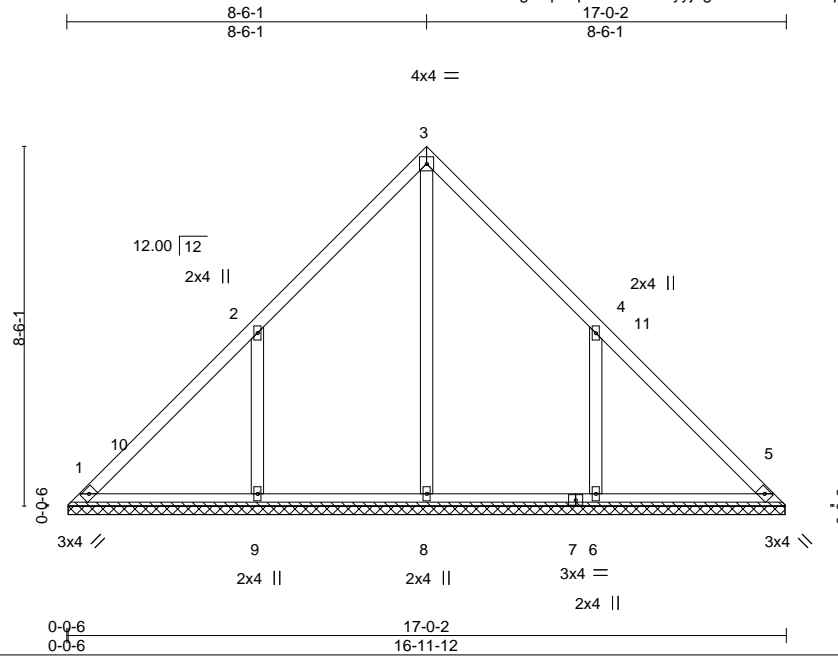


818 Soundside Road
Edenton, NC 27932

Job J0324-1345	Truss VF-2	Truss Type Valley	Qty 1	Ply 1	6085 Cool Springs Rd / Broadway, NC Job Reference (optional)	I64344133
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:29:11 2024 Page 1
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Scale = 1:54.5

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)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 83 lb	FT = 20%

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 16-11-6.
(lb) - Max Horz 1=-196(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-205(LC 12), 6=-205(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=416(LC 22), 9=532(LC 19), 6=531(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-343/347, 4-6=-343/347

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-4 to 4-6-1, Interior(1) 4-6-1 to 8-6-1, Exterior(2R) 8-6-1 to 12-10-14, Interior(1) 12-10-14 to 16-7-15 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 with a clearance greater than 6-0-0 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 100 lb uplift at joint(s) 1 except (jt=) 9=205, 6=205.



March 21, 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/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)

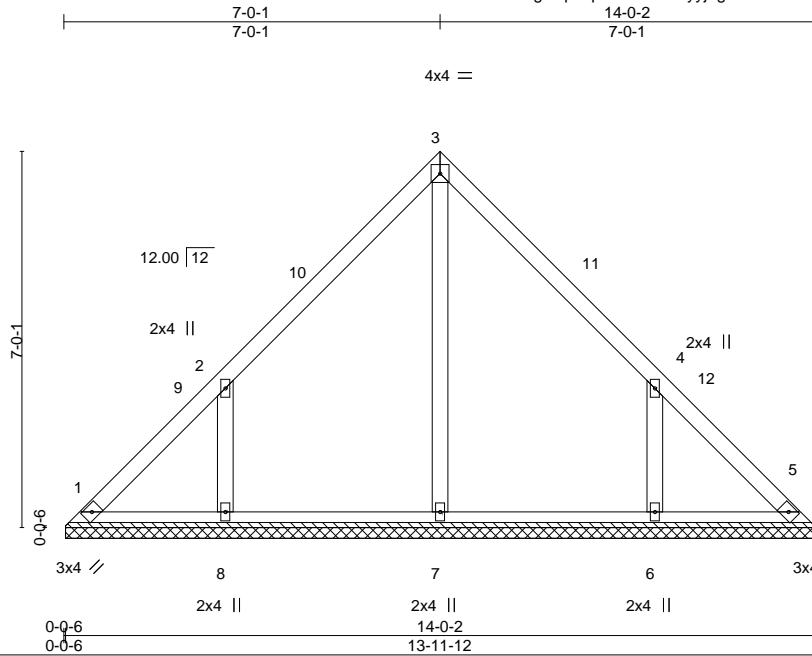


818 Soundside Road
Edenton, NC 27932

Job J0324-1345	Truss VF-3	Truss Type Valley	Qty 1	Ply 1	6085 Cool Springs Rd / Broadway, NC I64344134
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:29:12 2024 Page 1
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Scale = 1:42.9

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 0.15	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S					Weight: 66 lb	FT = 20%

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 13-11-6.
(lb) - Max Horz 1=-160(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-170(LC 12), 6=-170(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=416(LC 19), 8=456(LC 19), 6=455(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-299/353, 4-6=-299/353

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 7-0-1, Exterior(2R) 7-0-1 to 11-4-14, Interior(1) 11-4-14 to 13-7-15 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 with a clearance greater than 6-0-0 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 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=170, 6=170.



March 21, 2024

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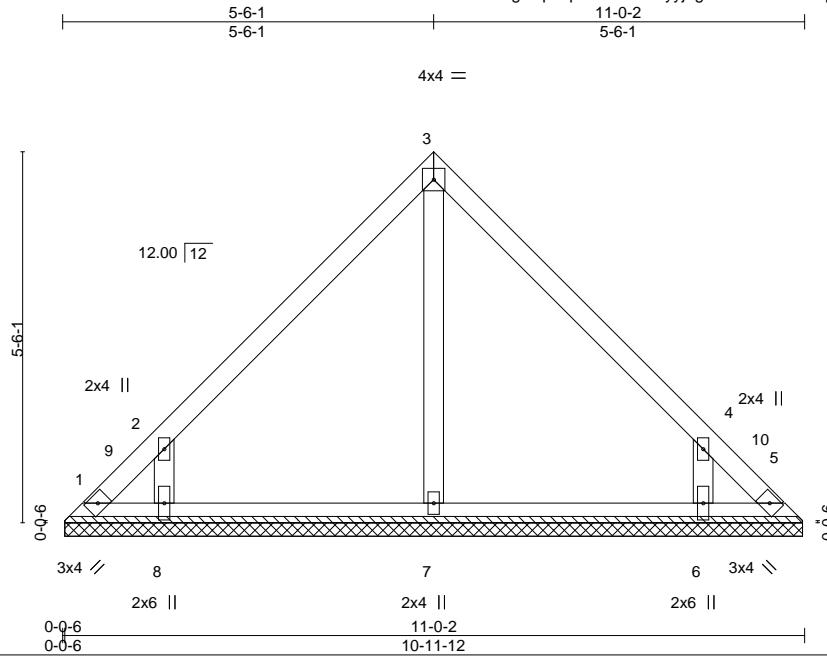


818 Soundside Road
Edenton, NC 27932

Job J0324-1345	Truss VF-4	Truss Type Valley	Qty 1	Ply 1	6085 Cool Springs Rd / Broadway, NC 164344135
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:29:12 2024 Page 1
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Scale = 1:34.2

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 0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 48 lb	FT = 20%

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

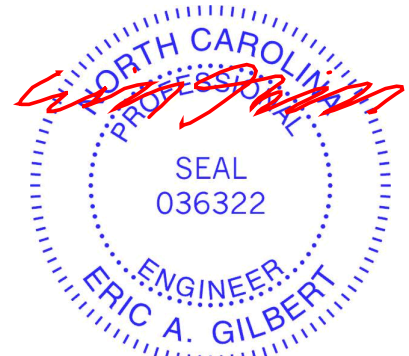
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 10-11-6.
(lb) - Max Horz 1=124(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=167(LC 12), 6=167(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=350(LC 19), 6=349(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-324/455, 4-6=-324/455

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 5-6-1, Exterior(2R) 5-6-1 to 9-10-14, Interior(1) 9-10-14 to 10-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 with a clearance greater than 6-0-0 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) 1, 5 except (jt=lb) 8=167, 6=167.



March 21, 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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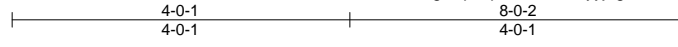


818 Soundside Road
Edenton, NC 27932

Job J0324-1345	Truss VF-5	Truss Type Valley	Qty 1	Ply 1	6085 Cool Springs Rd / Broadway, NC Job Reference (optional)	I64344136
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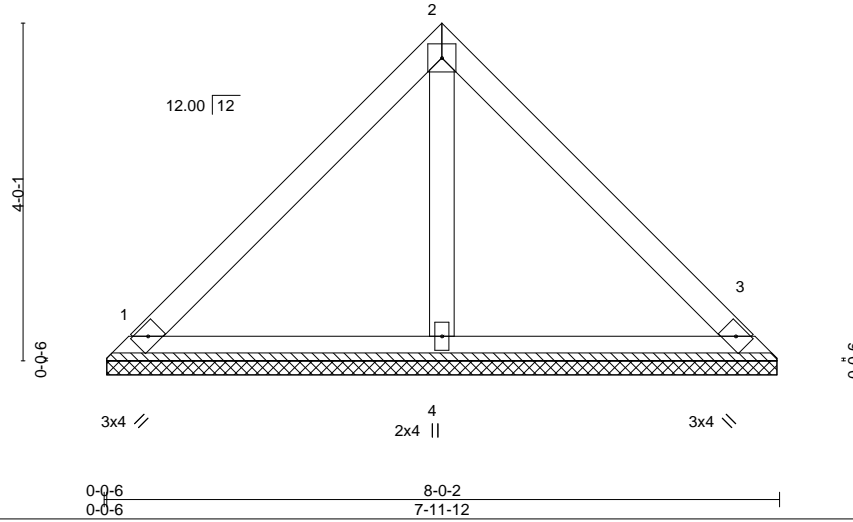
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:29:13 2024 Page 1
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4x4 =

Scale = 1:27.3



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 0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P						Weight: 32 lb	FT = 20%

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. (size) 1=7-11-6, 3=7-11-6, 4=7-11-6
Max Horz 1=88(LC 8)
Max Uplift 1=32(LC 13), 3=32(LC 13)
Max Grav 1=178(LC 1), 3=178(LC 1), 4=229(LC 1)

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 with a clearance greater than 6-0-0 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) 1, 3.



March 21, 2024

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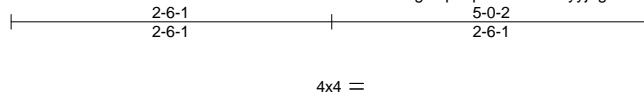
818 Soundside Road
Edenton, NC 27932

Job J0324-1345	Truss VF-6	Truss Type Valley	Qty 1	Ply 1	6085 Cool Springs Rd / Broadway, NC I64344137
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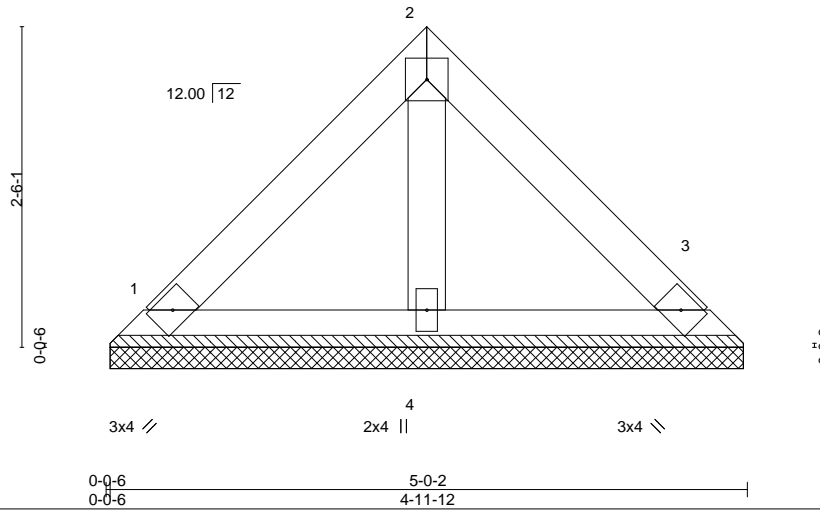
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 19 14:29:13 2024 Page 1

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Scale = 1:18.0



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 0.08	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P					Weight: 19 lb	FT = 20%

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 5-0-2 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-11-6, 3=4-11-6, 4=4-11-6
 Max Horz 1=-52(LC 8)
 Max Uplift 1=-19(LC 13), 3=-19(LC 13)
 Max Grav 1=105(LC 1), 3=105(LC 1), 4=135(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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 with a clearance greater than 6-0-0 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) 1, 3.



March 21, 2024

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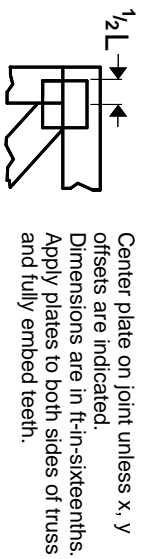
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



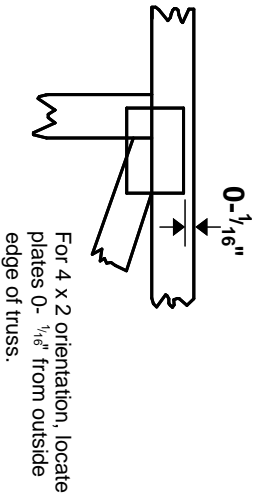
818 Soundside Road
 Edenton, NC 27932

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.



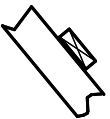
This symbol indicates the required direction of slots in connector plates.

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

PLATE SIZE

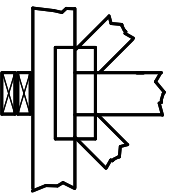
4 X 4
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

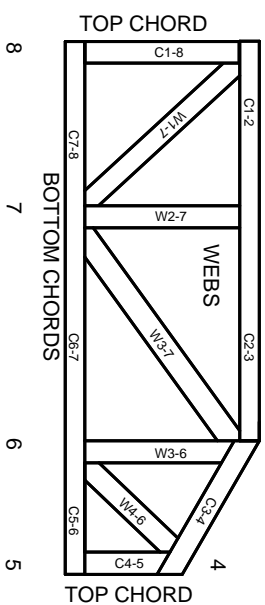
Industry Standards:

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
A MITek Affiliate

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