ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: B0419-1981
Jackson B

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

Pages or sheets covered by this seal: E12959741 thru E12959761

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844

April 25,2019

Gilbert, Eric

IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	Jackson B
B0419-1981	A01	GABLE	1	1	E12959741
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Apr 25 06:53:55 2019 Page 1

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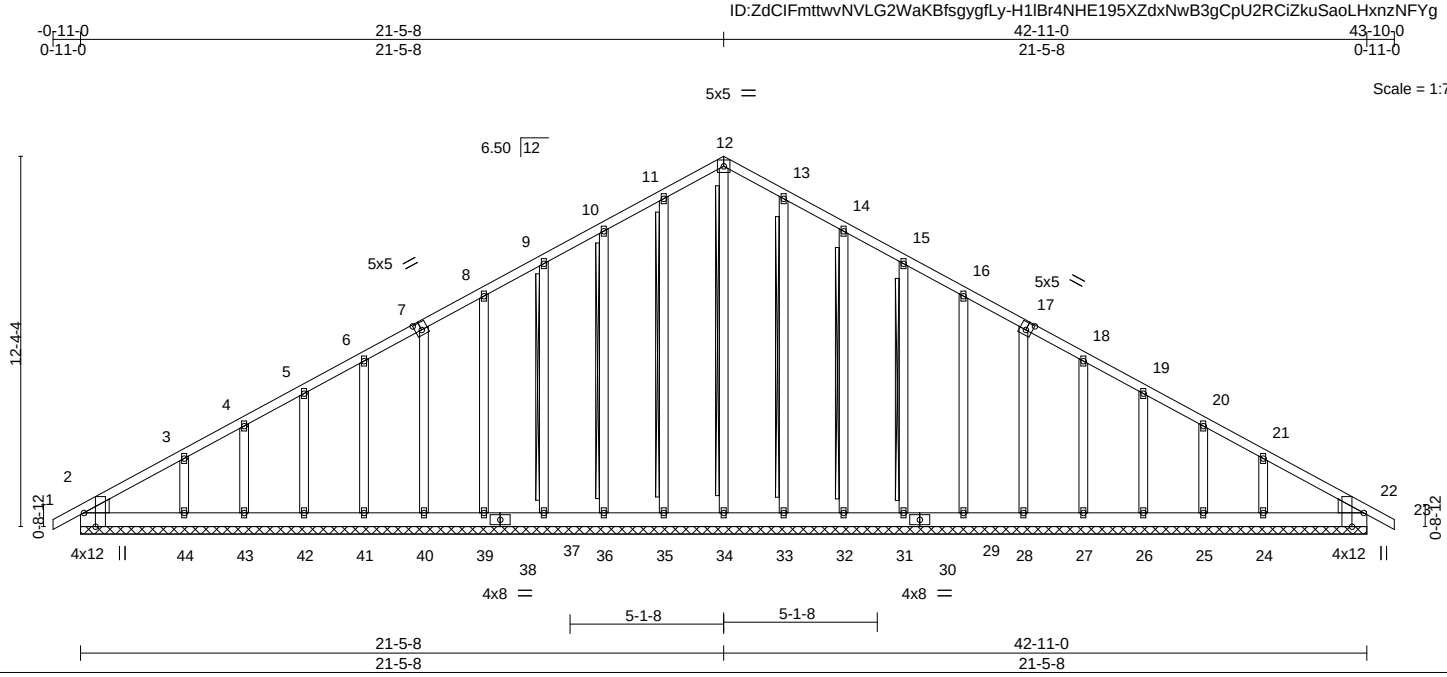

Plate Offsets (X,Y)-- [2:0-0-6,0-0-10], [2:0-0-11,0-5-10], [2:0-5-8,Edge], [7:0-2-8,0-3-0], [17:0-2-8,0-3-0], [22:0-5-8,Edge], [22:0-0-6,0-0-10], [22:0-0-11,0-5-10]

LOADING (psf)		SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.15	TC	0.09	Vert(LL)	0.00	22	n/r	120	MT20	244/190
TCDL 10.0		Lumber DOL 1.15	BC	0.04	Vert(CT)	0.00	23	n/r	120		
BCLL 0.0	*	Rep Stress Incr YES	WB	0.18	Horz(CT)	0.01	22	n/a	n/a		
BCDL 10.0		Code IRC2015/TPI2014	Matrix-S							Weight: 364 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.3 *Except*
12-34,11-35,13-33: 2x4 SP No.2
WEDGE
Left: 2x6 SP No.1, Right: 2x6 SP No.1

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 T-Brace: 2x4 SPF No.2 - 12-34, 11-35, 10-36, 9-37, 13-33, 14-32, 15-31
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 42-11-0.
(lb) - Max Horz 2=-280(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 35, 36, 37, 39, 40, 41, 42, 43, 33, 32, 31, 29, 28, 27, 26, 25 except 44=-165(LC 10), 24=-159(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 2, 22, 36, 37, 41, 42, 43, 32, 31, 27, 26, 25 except 34=313(LC 20), 35=257(LC 17), 39=252(LC 17), 40=254(LC 17), 44=275(LC 17), 33=253(LC 18), 29=252(LC 18), 28=254(LC 18), 24=270(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-345/191, 10-11=-240/284, 11-12=-280/324, 12-13=-280/324, 13-14=-240/278, 21-22=-271/180
BOT CHORD 2-44=-171/279, 43-44=-171/279, 42-43=-171/279, 41-42=-171/279, 40-41=-171/279, 39-40=-174/280, 37-39=-174/280, 36-37=-174/280, 35-36=-174/280, 34-35=-174/280, 33-34=-174/280, 32-33=-174/280, 31-32=-174/280, 29-31=-174/280, 28-29=-174/280, 27-28=-171/278, 26-27=-171/278, 25-26=-171/278, 24-25=-171/278, 22-24=-171/278

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-6-0, Exterior(2) 3-6-0 to 17-1-3, Corner(3) 17-1-3 to 21-6-0, Exterior(2) 25-10-13 to 39-5-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 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) 2, 35, 36, 37, 39, 40, 41, 42, 43, 33, 32, 31, 29, 28, 27, 26, 25 except (jt=lb) 44=165, 24=159.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

April 25,2019

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Jackson B
B0419-1981	A03	FINK	8	1	E12959742
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309 — 8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Apr 25 06:53:56 2019 Page 1

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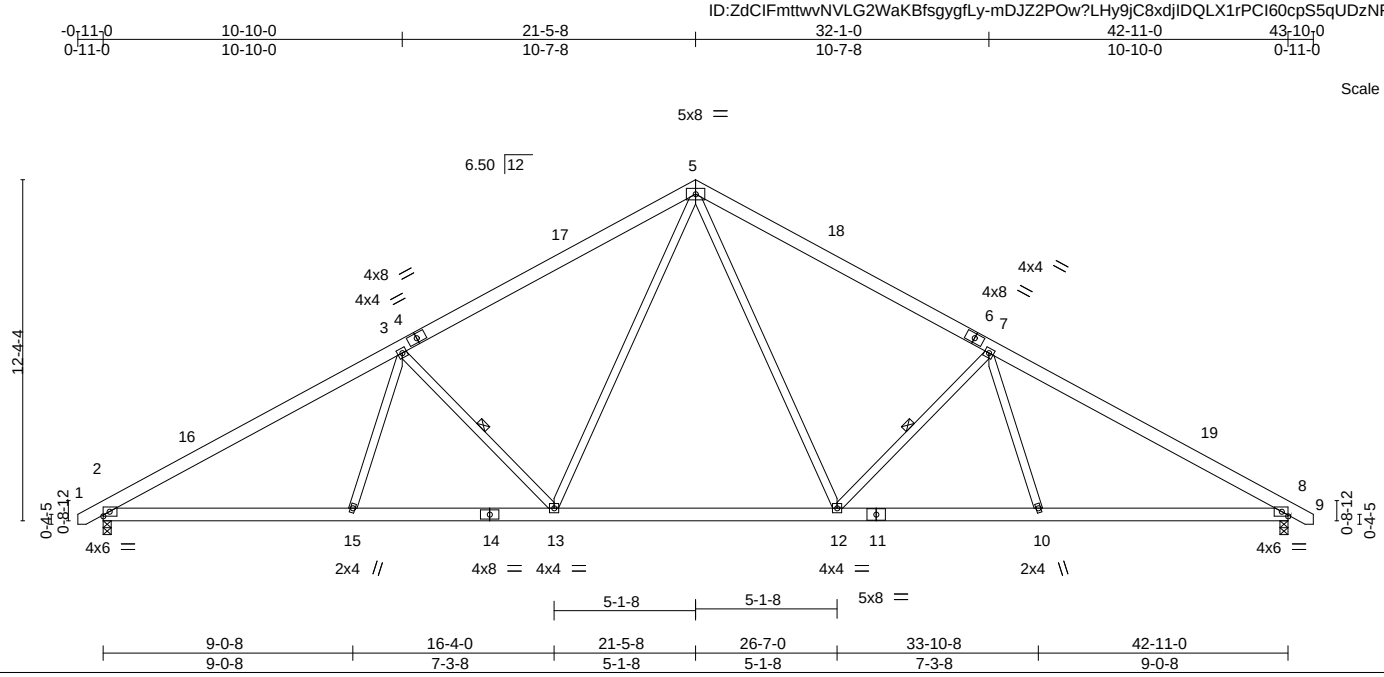

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.26	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.42	12-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.09	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.07	12-13	>999	240	Weight: 298 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.3 *Except* 5-12,5-13: 2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-11-13 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 7-12, 3-13

REACTIONS. (lb/size) 2=1760/0-3-8, 8=1760/0-3-8
Max Horz 2=-229(LC 8)
Max Uplift 2=-155(LC 10), 8=-155(LC 11)
Max Grav 2=1820(LC 17), 8=1820(LC 18)

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

TOP CHORD	2-3=-3035/628, 3-5=-2511/657, 5-7=-2511/657, 7-8=-3035/628
BOT CHORD	2-15=-391/2691, 13-15=-409/2648, 12-13=-112/1771, 10-12=-409/2477, 8-10=-391/2519
WEBS	5-12=-173/1051, 7-12=-834/341, 7-10=0/354, 5-13=-173/1051, 3-13=-834/341, 3-15=0/354

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-11 to 3-8-1, Interior(1) 3-8-1 to 17-1-3, Exterior(2) 17-1-3 to 21-6-0, Interior(1) 25-10-13 to 39-3-15 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, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=155, 8=155.

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Job	Truss	Truss Type	Qty	Ply	Jackson B
B0419-1981	A04	COMMON TRUSS	2	1	E12959743
					Job Reference (optional)

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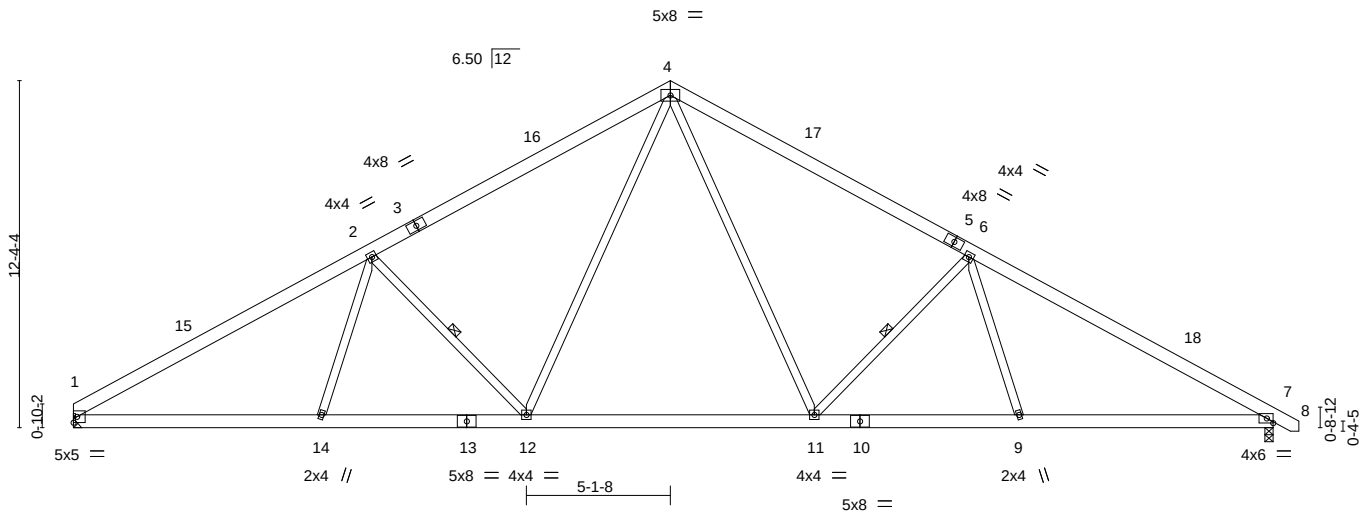
ID:ZdCIFmttwvNVLG2WaKBfsgygfLy-EPtxGlPYmfPontmKULEXmduhEFIT1Z9l26qO0fzNFYe

10-7-8	21-3-0	31-10-8	42-8-8	43-7-8
10-7-8	10-7-8	10-7-8	10-10-0	0-11-0

Scale = 1:82.0



8-10-0	16-1-8	26-4-8	33-8-0	42-8-8
8-10-0	7-3-8	10-3-0	7-3-8	9-0-8

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	0.62	Vert(LL)	-0.26	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.41	11-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.09	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.07	11-12	>999	240	Weight: 295 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.3 *Except* 4-11,4-12: 2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-9-3 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 6-11, 2-12

REACTIONS. (lb/size) 1=1696/Mechanical, 7=1752/0-3-8
Max Horz 1=-228(LC 8)
Max Uplift 1=-141(LC 10), 7=-155(LC 11)
Max Grav 1=1765(LC 17), 7=1812(LC 18)

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

TOP CHORD	1-2=-2963/624, 2-4=-2485/658, 4-6=-2496/657, 6-7=-3020/628
BOT CHORD	1-14=-390/2643, 12-14=-410/2604, 11-12=-112/1756, 9-11=-409/2463, 7-9=-391/2506
WEBS	4-11=-173/1050, 6-11=-835/342, 6-9=0/354, 4-12=-175/1029, 2-12=-801/342, 2-14=0/349

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 16-10-3, Exterior(2) 16-10-3 to 21-3-0, Interior(1) 25-7-13 to 39-0-15 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, with BCDL = 10.0psf.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=141, 7=155.

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818 Soundside Road
Edenton, NC 27932

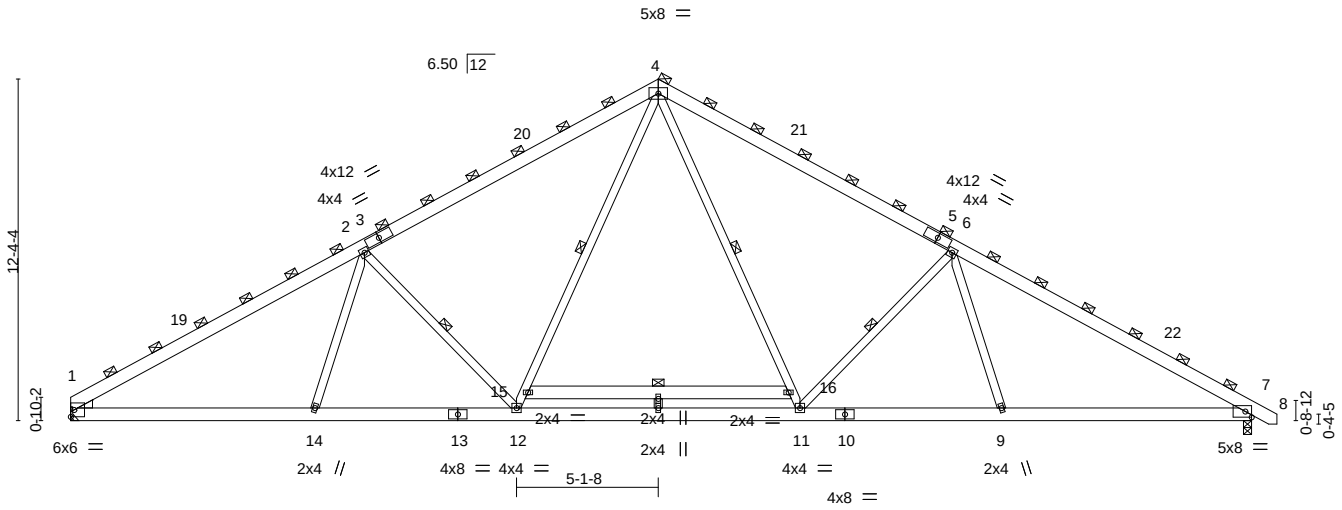
Job	Truss	Truss Type	Qty	Ply	Jackson B
B0419-1981	A05	COMMON TRUSS	2	1	E12959744
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309 — 8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Apr 25 06:53:58 2019 Page 1

ID:ZdCIFmttwvNVLG2WaKBfsgygfLy-icRJT5QAXyXfO1LW22ImIrRn2f5GmyQuGmaxY6zNFYd

10-7-8	21-3-0	31-10-8	42-8-8	43-7-8
10-7-8	10-7-8	10-7-8	10-10-0	0-11-0

Scale = 1:83.3



8-10-0	16-1-8	21-3-0	26-4-8	33-8-0	42-8-8
8-10-0	7-3-8	5-1-8	5-1-8	7-3-8	9-0-8

LOADING (psf)		SPACING-	2-1-8	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.13	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.32	11-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.11	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.10	11-12	>999	240	Weight: 319 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
4-11,4-12: 2x4 SP No.2, 15-16: 2x6 SP No.1
WEDGE
Left: 2x4 SP No.3

BRACING-

TOP CHORD 2-0-0 oc purlins (2-11-10 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-11, 6-11, 4-12, 2-12, 15-16

REACTIONS. (lb/size) 1=2096/Mechanical, 7=2152/0-3-8
Max Horz 1=-243(LC 6)
Max Uplift 1=-188(LC 10), 7=-203(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3624/824, 2-4=-2982/862, 4-6=-2994/861, 6-7=-3658/828
BOT CHORD 1-14=-554/3010, 12-14=-575/2952, 11-12=-280/2212, 9-11=-575/2987, 7-9=-556/3050
WEBS 4-16=-270/1215, 11-16=-175/879, 6-11=-871/358, 6-9=0/375, 12-15=-176/853, 4-15=-271/1188, 2-12=-830/357, 2-14=0/369

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 16-10-3, Exterior(2) 16-10-3 to 21-3-0, Interior(1) 25-7-13 to 39-0-15 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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=188, 7=203.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-64, 4-8=-64, 1-7=-21, 15-16=-60

April 25,2019

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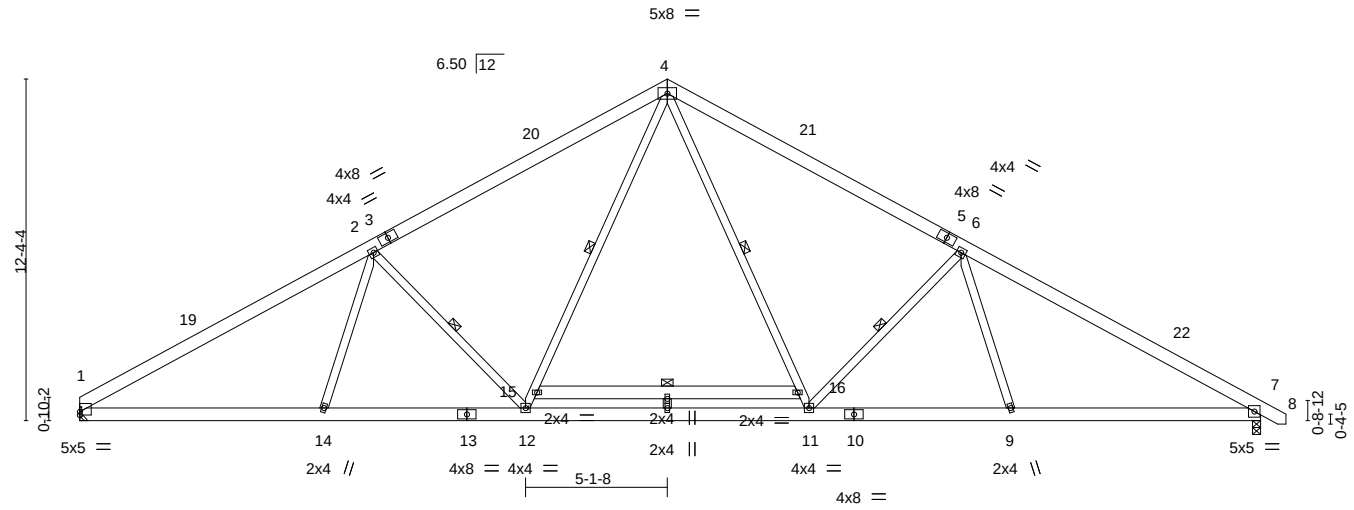
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Jackson B
B0419-1981	A06	COMMON TRUSS	1	1	E12959745
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309 — 8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Apr 25 06:53:59 2019 Page 1
ID:ZdCIFmttwvNVLG2WaKBfsgygfLy-Ao?ihRQoIGfW0BwjcmG?r2zzI2R0VPh2VQJU4YzNFYc

10-7-8	21-3-0	31-10-8	42-8-8	43-7-8
10-7-8	10-7-8	10-7-8	10-10-0	0-11-0

Scale = 1:83.3



8-10-0	16-1-8	21-3-0	26-4-8	33-8-0	42-8-8
8-10-0	7-3-8	5-1-8	5-1-8	7-3-8	9-0-8

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

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	0.84	Vert(LL)	-0.12	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.30	11-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.10	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.10	11-12	>999	240	Weight: 318 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
4-11,4-12: 2x4 SP No.2, 15-16: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-11, 6-11, 4-12, 2-12, 15-16

REACTIONS. (lb/size) 1=1990/Mechanical, 7=2043/0-3-8
Max Horz 1=-228(LC 6)
Max Uplift 1=-179(LC 10), 7=-193(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3445/785, 2-4=-2841/821, 4-6=-2852/820, 6-7=-3477/789
BOT CHORD 1-14=-529/2863, 12-14=-549/2807, 11-12=-272/2112, 9-11=-550/2841, 7-9=-531/2900
WEBS 4-16=-259/1160, 11-16=-165/827, 6-11=-819/337, 6-9=0/353, 12-15=-165/802, 4-15=-260/1136, 2-12=-780/336, 2-14=0/347

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 16-10-3, Exterior(2) 16-10-3 to 21-3-0, Interior(1) 25-7-13 to 39-0-15 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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=179, 7=193.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-8=-60, 1-7=-20, 15-16=-60

April 25,2019

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Jackson B
B0419-1981	A07	FINK	3	1	E12959746
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Apr 25 06:54:00 2019 Page 1

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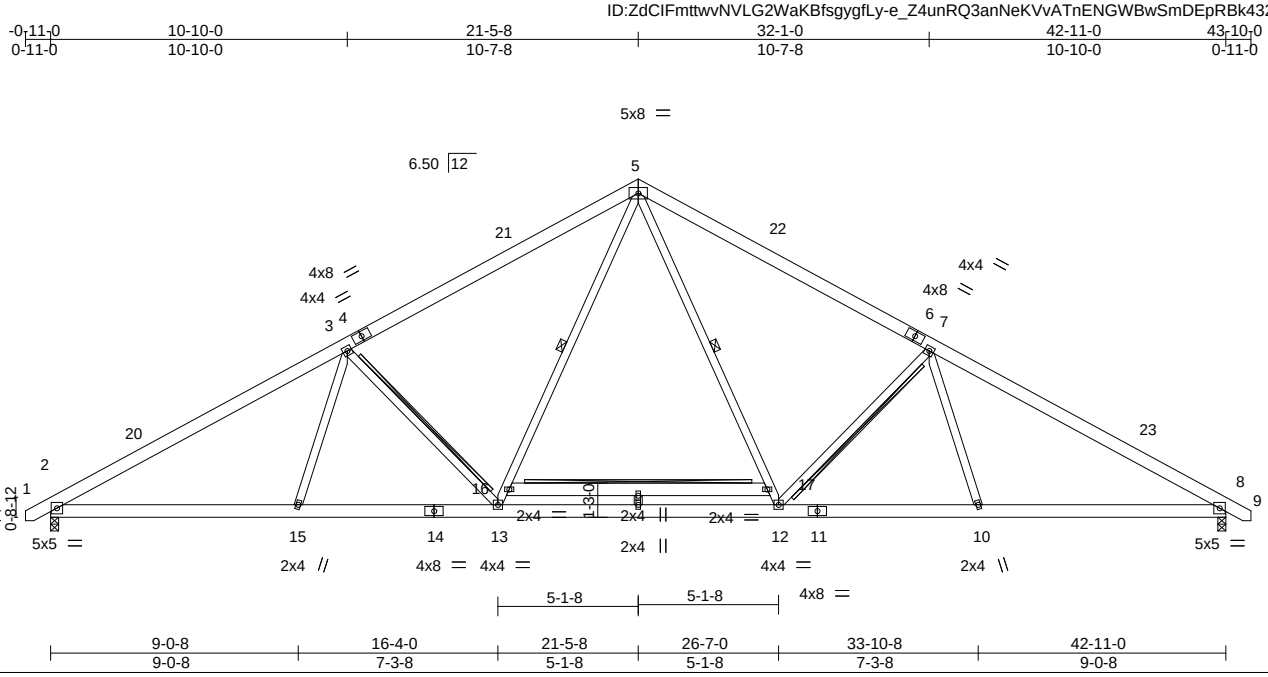

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.13	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.31	12-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.10	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.10	12-13	>999	240	Weight: 321 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
5-12,5-13: 2x4 SP No.2, 16-17: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-6-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-12, 5-13
T-Brace: 2x4 SPF No.2 - 7-12, 3-13, 16-17
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. (lb/size) 2=2052/0-3-8, 8=2052/0-3-8
Max Horz 2=229(LC 9)
Max Uplift 2=-194(LC 10), 8=-194(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3495/790, 3-5=-2871/821, 5-7=-2871/821, 7-8=-3495/790
BOT CHORD 2-15=-532/2916, 13-15=-551/2857, 12-13=-273/2129, 10-12=-551/2857, 8-10=-532/2916
WEBS 5-17=-259/1161, 12-17=-165/827, 7-12=-818/336, 7-10=0/352, 13-16=-165/827, 5-16=-259/1161, 3-13=-818/336, 3-15=0/352

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-11 to 3-8-1, Interior(1) 3-8-1 to 17-1-3, Exterior(2) 17-1-3 to 21-6-0, Interior(1) 25-10-13 to 39-3-15 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) except (jt=lb) 2=194, 8=194.
6) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 5-9=-60, 2-8=-20, 16-17=-60

April 25,2019

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Job	Truss	Truss Type	Qty	Ply	Jackson B
B0419-1981	A08	GABLE	1	1	E12959747
					Job Reference (optional)

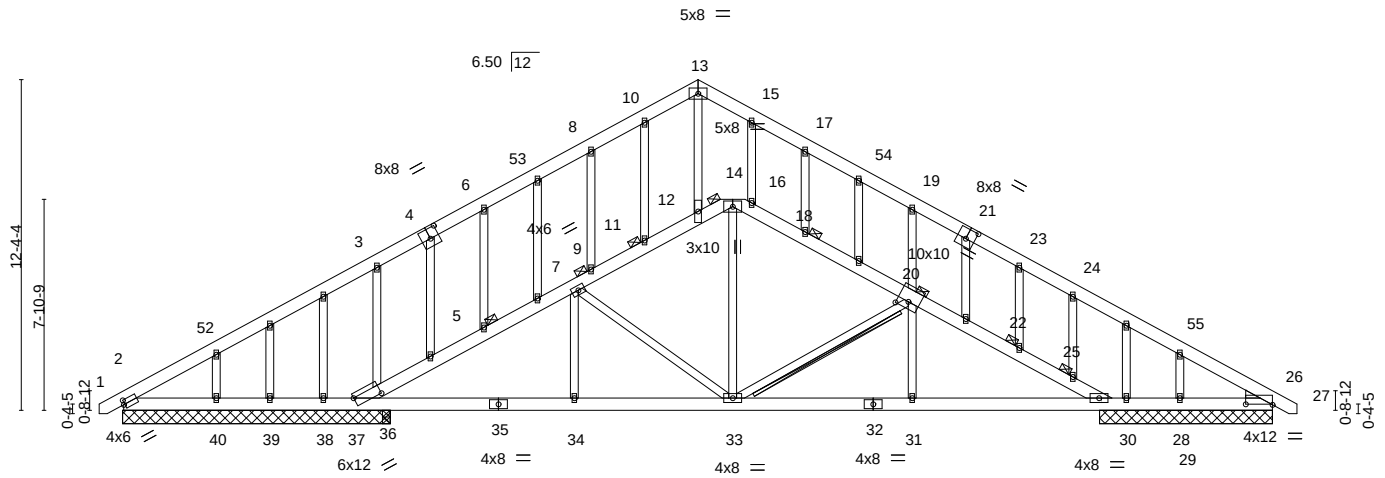
Comtech, Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Apr 25 06:54:01 2019 Page 1

ID:ZdCIFmttwvNVLG2WaKBfsgygfLy-6B7S67S2qtvEFU45jBITwT2LWs6yzOOLzkob9QzNFYa

-0-11-0 16-10-0 26-1-0 42-11-0 43-10-0

0-11-0 16-10-0 9-2-15 16-10-0 0-11-0

Scale = 1:86.1



9-8-0 16-10-0 42-11-0

0-0-8 9-8-0 7-2-0 26-1-0

Plate Offsets (X,Y)-- [2:0-0-8,0-2-0], [4:0-4-0,0-4-8], [20:0-5-0,0-3-0], [21:0-4-0,0-4-8], [26:1-0-0,0-0-4], [37:1-0-1,0-4-0]

LOADING (psf)		SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.15	TC	0.73	Vert(LL)	-0.13	31	>999	360	MT20	244/190
TCDL 10.0		Lumber DOL 1.15	BC	0.63	Vert(CT)	-0.25	29-31	>999	240		
BCLL 0.0	*	Rep Stress Incr YES	WB	0.37	Horz(CT)	0.06	26	n/a	n/a		
BCDL 10.0		Code IRC2015/TPI2014	Matrix-S		Wind(LL)	0.16	31	>999	240	Weight: 438 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
5-9-0 oc bracing: 29-30.
WEBS T-Brace: 2x4 SPF No.2 - 20-33
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.
JOINTS 1 Brace at Jt(s): 5, 22, 25, 14, 9, 11, 18, 20

REACTIONS. All bearings 10-0-0 except (jt=length) 30=6-5-8, 28=6-5-8, 26=6-5-8, 29=6-5-8, 36=0-3-8, 36=0-3-8.
(lb) - Max Horz 2=278(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 30 except 2=-217(LC 11), 38=-318(LC 10), 39=-146(LC 21), 40=-135(LC 10), 28=-189(LC 11), 26=-162(LC 11), 36=-204(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 39, 29 except 2=826(LC 1), 38=448(LC 21), 40=258(LC 21), 30=315(LC 3), 28=485(LC 1), 26=835(LC 1), 36=609(LC 1), 36=609(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1353/443, 3-6=-1427/607, 6-8=-1386/636, 8-10=-1429/667, 10-13=-1460/701, 13-15=-1356/632, 15-17=-1506/669, 17-19=-1467/608, 19-23=-1274/403, 23-24=-1390/414, 24-26=-1457/276, 5-37=-360/161, 5-7=-364/162, 7-9=-287/176, 9-11=-304/222, 11-12=-326/272, 12-14=-290/0, 16-18=-290/185, 20-22=-759/119, 22-25=-695/85, 25-29=-792/176
BOT CHORD 2-40=-51/1048, 39-40=-51/1048, 38-39=-51/1048, 37-38=-51/1048, 36-37=-64/1180, 34-36=-64/1180, 33-34=-64/1180, 31-33=-231/1861, 29-31=-231/1861, 29-30=-1140/106, 28-30=-106/1140, 26-28=-106/1140
WEBS 3-37=-698/488, 19-20=-582/386, 24-25=-390/301, 14-33=-145/748, 12-13=-423/895, 15-16=-105/279, 20-33=-994/446, 7-33=-252/109, 20-31=0/325

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-8-11 to 3-8-1, Interior(1) 3-8-1 to 15-3-5, Exterior(2) 15-3-5 to 21-6-0, Interior(1) 27-8-11 to 39-3-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2

NORTH CAROLINA PROFESSIONAL SEAL 036322 ENGINEER ERIC A. GILBERT

April 25,2019

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NOTES-

7) * 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 30 except (jt=lb) 2=217, 38=318, 39=146, 40=135, 28=189, 26=162, 36=204.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

Job	Truss	Truss Type	Qty	Ply	Jackson B
B0419-1981	B01	COMMON	1	1	E12959748
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Apr 25 06:54:02 2019 Page 1

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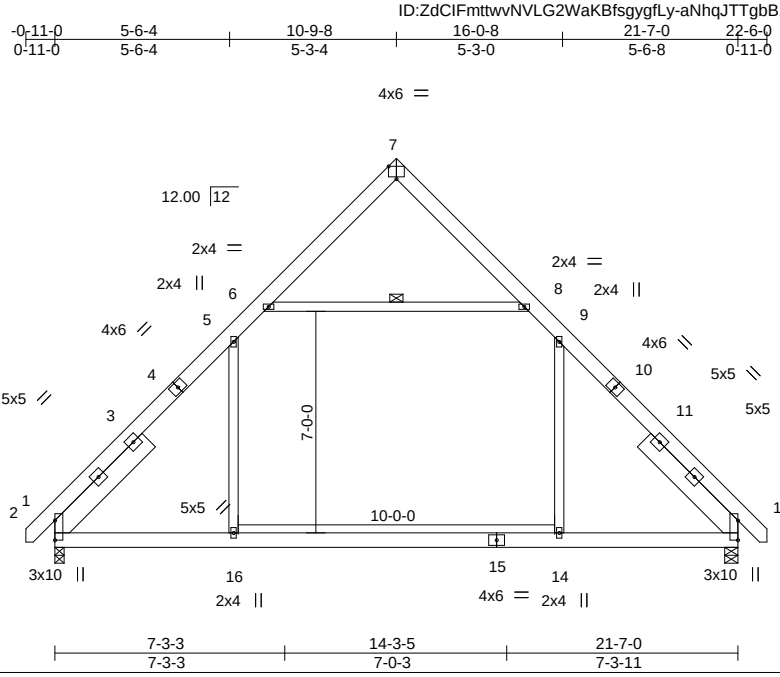

Plate Offsets (X,Y)-- [2:Edge,0-0-0], [7:0-3-0,Edge], [12:Edge,0-0-0], [12:0-0-0,0-0-0], [12:0-0-0,0-0-0]

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	0.26	Vert(LL)	-0.28	14-16	>939	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.34	14-16	>759	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.19	16	>999	240	Weight: 186 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.3
SLIDER	Left 2x8 SP No.1 4-2-0, Right 2x8 SP No.1 4-2-0

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 6-8

REACTIONS. (lb/size) 2=911/0-3-8, 12=911/0-5-0
Max Horz 2=-351(LC 6)
Max Uplift 2=-175(LC 11), 12=-175(LC 10)
Max Grav 2=1118(LC 18), 12=1118(LC 17)

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

TOP CHORD	2-5=-1485/305, 5-6=-810/335, 6-7=-257/122, 7-8=-257/122, 8-9=-810/335, 9-12=-1484/304
BOT CHORD	2-16=-102/920, 14-16=-102/921, 12-14=-102/920
WEBS	5-16=-46/708, 9-14=-46/708, 6-8=-742/400

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-9-2 to 3-7-11, Exterior(2) 3-7-11 to 6-5-3, Corner(3) 6-5-3 to 10-10-0, Exterior(2) 15-2-3 to 18-0-5 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 40.0psf 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) except (jt=lb) 2=175, 12=175.

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Job	Truss	Truss Type	Qty	Ply	Jackson B
B0419-1981	B04	COMMON	4	1	E12959749
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Apr 25 06:54:03 2019 Page 1
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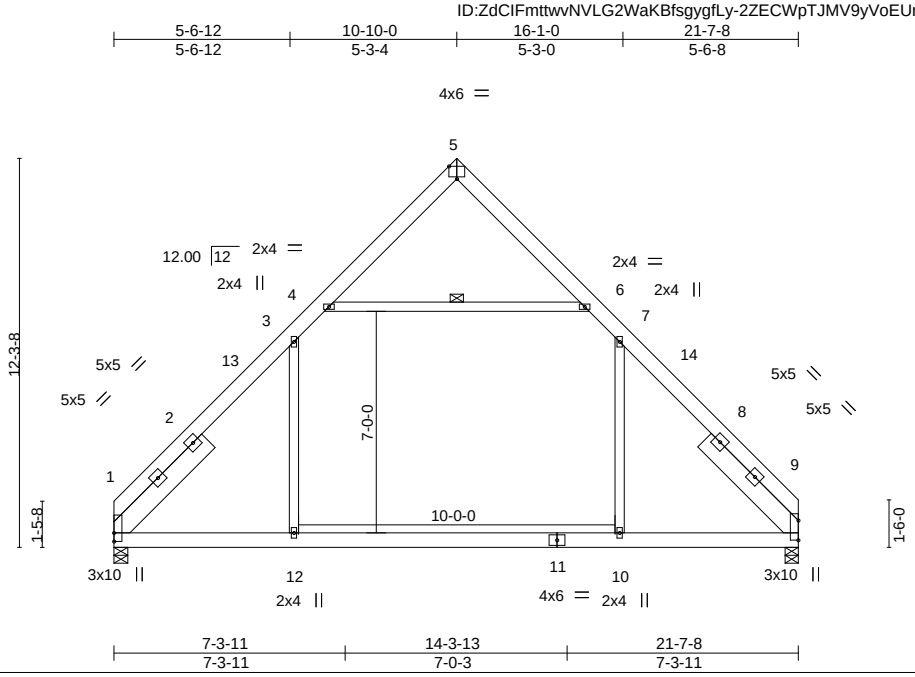

Plate Offsets (X,Y)-- [1:Edge,0-0-0], [5:0-3-0,Edge], [9:Edge,0-0-0]

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	0.26	Vert(LL)	-0.28	10-12	>937	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.34	10-12	>758	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.15	12	>999	240	Weight: 181 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP No.1 4-2-0, Right 2x8 SP No.1 4-2-0

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 4-6

REACTIONS. (lb/size) 1=865/0-5-4, 9=865/0-5-0
Max Horz 1=-281(LC 6)
Max Uplift 1=-55(LC 11), 9=-56(LC 10)
Max Grav 1=1095(LC 18), 9=1096(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1468/256, 3-4=-809/319, 4-5=-255/90, 5-6=-255/90, 6-7=-810/319, 7-9=-1472/256
BOT CHORD 1-12=-25/904, 10-12=-25/905, 9-10=-25/904
WEBS 3-12=-18/704, 7-10=-18/709, 4-6=-757/376

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 6-5-3, Exterior(2) 6-5-3 to 10-10-0, Interior(1) 15-2-3 to 17-2-11 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 40.0psf 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) 1, 9.

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Job	Truss	Truss Type	Qty	Ply	Jackson B
B0419-1981	B05	COMMON	2	1	E12959750
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Apr 25 06:54:04 2019 Page 1
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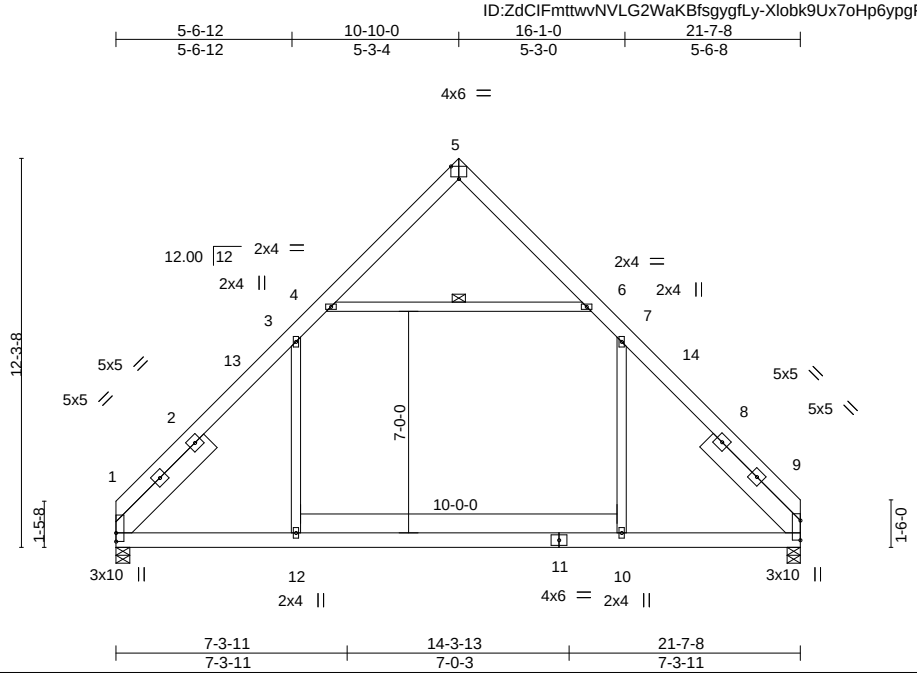

Plate Offsets (X,Y)-- [1:Edge,0-0-0], [5:0-3-0,Edge], [9:Edge,0-0-0]

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	0.26	Vert(LL)	-0.28	10-12	>937	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.34	10-12	>758	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.15	12	>999	240	Weight: 181 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP No.1 4-2-0, Right 2x8 SP No.1 4-2-0

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 4-6

REACTIONS. (lb/size) 1=865/0-5-4, 9=865/0-5-0
Max Horz 1=-281(LC 6)
Max Uplift 1=-55(LC 11), 9=-56(LC 10)
Max Grav 1=1095(LC 18), 9=1096(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1468/256, 3-4=-809/319, 4-5=-255/90, 5-6=-255/90, 6-7=-810/319, 7-9=-1472/256
BOT CHORD 1-12=-25/904, 10-12=-25/905, 9-10=-25/904
WEBS 3-12=-18/704, 7-10=-18/709, 4-6=-757/376

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 6-5-3, Exterior(2) 6-5-3 to 10-10-0, Interior(1) 15-2-3 to 17-2-11 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 40.0psf 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) 1, 9.

April 25,2019

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Job	Truss	Truss Type	Qty	Ply	Jackson B
B0419-1981	B06	Flat Girder	1	1	E12959751
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Apr 25 06:54:05 2019 Page 1

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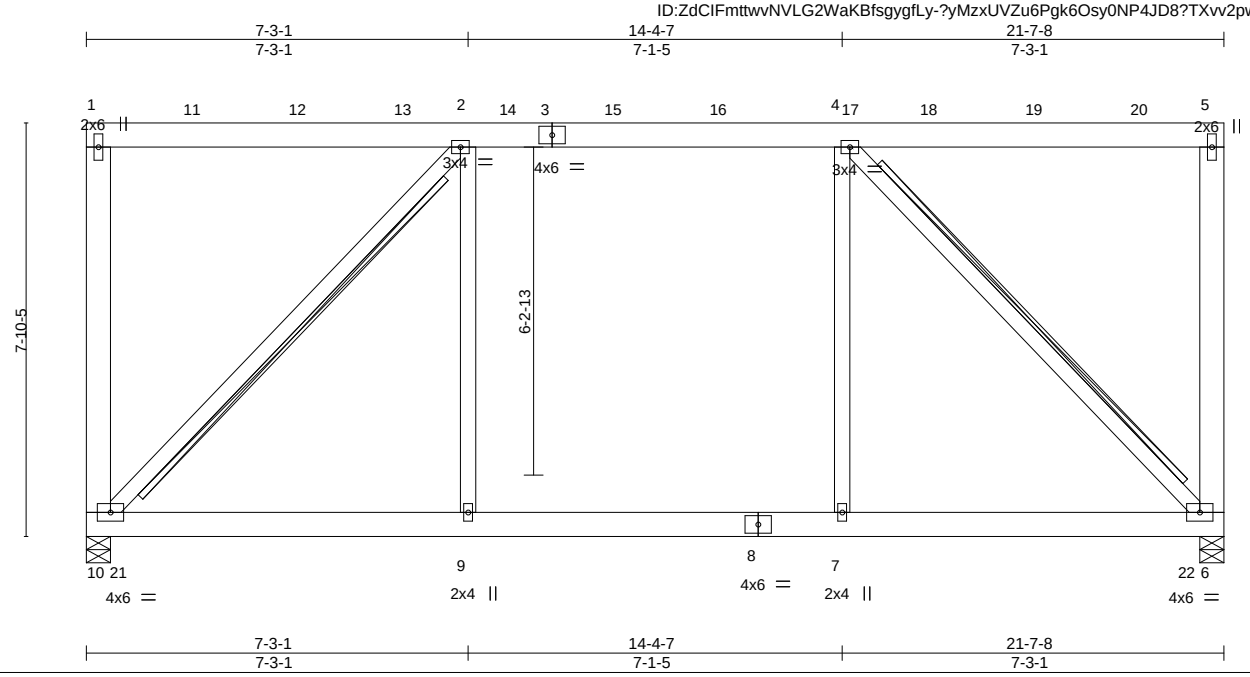

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.07	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.10	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.02	7-9	>999	240	Weight: 183 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.3 *Except* 1-10,5-6: 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.
WEBS	T-Brace: 2x4 SPF No.2 - 2-10, 4-6 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. (lb/size) 10=1537/0-5-8, 6=1110/0-5-8
Max Uplift 10=-162(LC 4), 6=-102(LC 4)
Max Grav 10=1955(LC 2), 6=1597(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-679/119, 2-4=-1124/70, 5-6=-252/59
BOT CHORD 9-10=-70/1124, 7-9=-70/1124, 6-7=-70/1124
WEBS 2-10=-1588/99, 2-9=0/750, 4-7=0/750, 4-6=-1587/99

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
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 40.0psf 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) except (jt=lb) 10=162, 6=102.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 439 lb down and 68 lb up at 0-2-12, 95 lb down and 20 lb up at 2-0-12, 95 lb down and 20 lb up at 4-0-12, 95 lb down and 20 lb up at 6-0-12, 95 lb down and 20 lb up at 8-0-12, 95 lb down and 20 lb up at 10-0-12, 95 lb down and 20 lb up at 12-0-12, 95 lb down and 20 lb up at 14-0-12, 95 lb down and 20 lb up at 16-0-12, and 95 lb down and 20 lb up at 18-0-12, and 95 lb down and 20 lb up at 20-0-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
7) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
8) 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: 1-5=-60, 6-10=-20
Concentrated Loads (lb)
Vert: 1=-439 11=-51(F) 12=-51(F) 13=-51(F) 14=-51(F) 15=-51(F) 16=-51(F) 17=-51(F) 18=-51(F) 19=-51(F) 20=-51(F)

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

Job	Truss	Truss Type	Qty	Ply	Jackson B
B0419-1981	C01	GABLE	1	1	E12959752
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Apr 25 06:54:06 2019 Page 1
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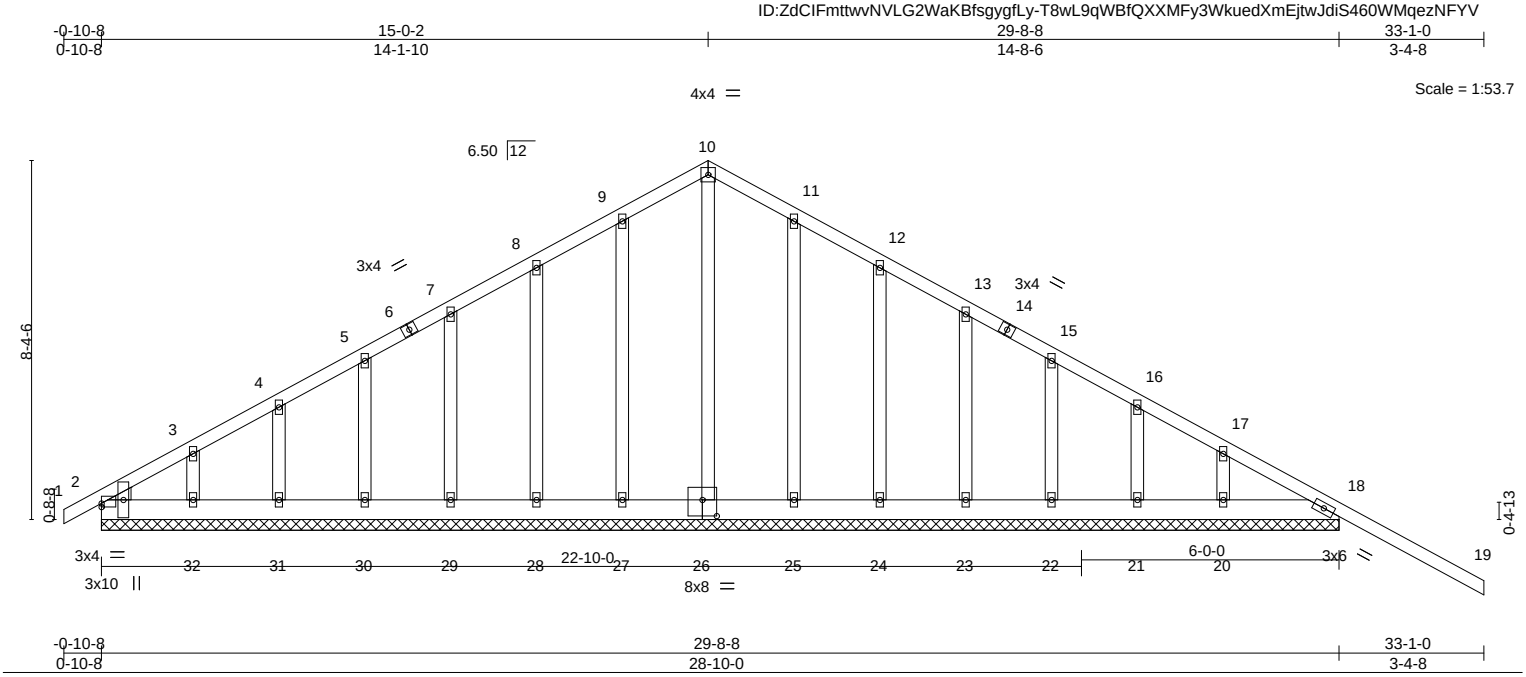

Plate Offsets (X,Y)-- [2:0-0-0,0-1-0], [26:0-4-0,0-4-8]

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	0.64	Vert(LL)	-0.14	19	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.23	19	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 205 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

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

REACTIONS. All bearings 28-10-0.
(lb) - Max Horz 2=-231(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 27, 28, 29, 30, 31, 25, 24, 23, 22, 20 except 18=-157(LC 11), 32=-115(LC 10), 21=-121(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 2, 28, 29, 30, 31, 32, 24, 23, 22, 21, 20 except 18=464(LC 1), 26=277(LC 20), 27=255(LC 17), 25=267(LC 18)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 9-8-13, Corner(3) 9-8-13 to 14-1-10, Exterior(2) 18-6-7 to 27-9-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 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) 2, 27, 28, 29, 30, 31, 25, 24, 23, 22, 20 except (jt=lb) 18=157, 32=115, 21=121.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Job	Truss	Truss Type	Qty	Ply	Jackson B
B0419-1981	C03	COMMON	10	1	E12959753
					Job Reference (optional)

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ID:ZdCIFmttwvNVLG2WaKBfsgygfLy-xKUjMAWpPjgOzPXF4RPtAkIO6HCMM4_DLgFvN4zNFYU

-0-10-8	6-8-9	14-1-10	21-9-6	28-10-0	32-2-8
0-10-8	6-8-9	7-5-1	7-7-12	7-0-10	3-4-8

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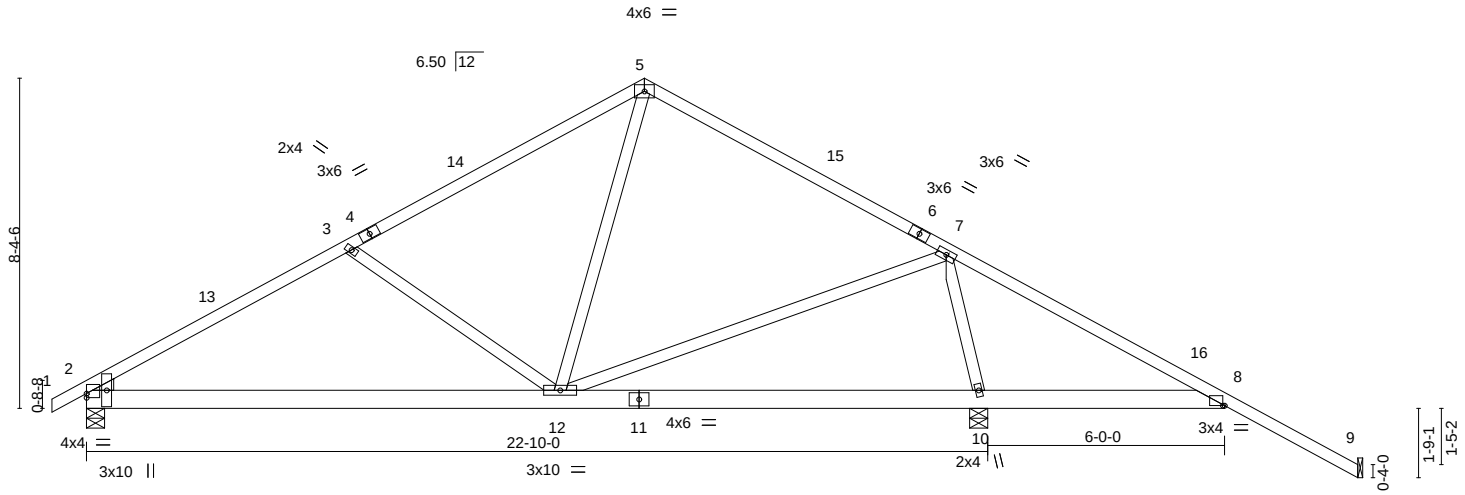

12-0-0	22-7-4	28-10-0	32-2-8
12-0-0	10-7-4	6-2-12	3-4-8

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

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	0.66	Vert(LL)	-0.12	2-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.26	2-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.03	2-12	>999	240	Weight: 166 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
7-12: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 2=848/0-5-8, 10=1672/0-5-8, 9=109/Mechanical
Max Horz 2=-190(LC 6)
Max Uplift 2=-101(LC 10), 10=-141(LC 11), 9=-19(LC 11)
Max Grav 2=848(LC 1), 10=1672(LC 1), 9=111(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1109/319, 3-5=-760/250, 5-7=-696/250, 7-8=-191/890
BOT CHORD 2-12=-136/926, 10-12=-446/198, 8-10=-765/298
WEBS 3-12=-474/272, 5-12=-12/363, 7-12=-94/917, 7-10=-1501/448

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 9-8-13, Exterior(2) 9-8-13 to 14-1-10, Interior(1) 18-6-7 to 27-8-15 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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 2=101, 10=141.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	Jackson B
B0419-1981	D01	GABLE	1	2	E12959754
					Job Reference (optional)

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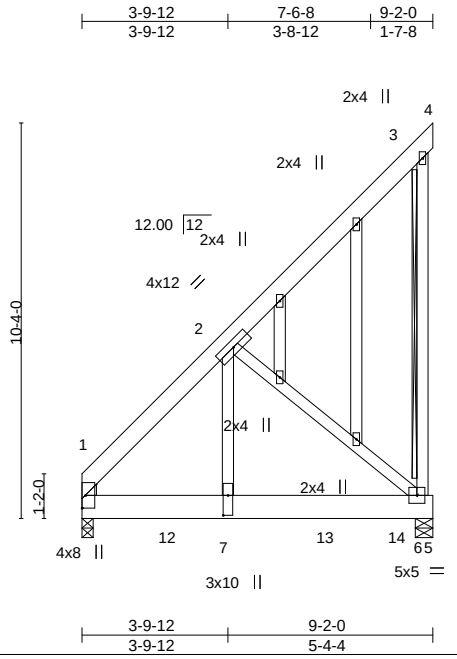

Plate Offsets (X,Y)-- [1:0-1-0,0-3-6], [1:0-0-8,0-0-8], [7:0-6-4,0-1-8]

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	0.32	Vert(LL)	-0.04	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.08	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.03	6-7	>999	240	Weight: 201 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x8 SP No.1
WEBS	2x4 SP No.3 *Except* 2-7: 2x4 SP No.2
OTHERS	2x4 SP No.3
WEDGE Left:	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - 3-6 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. (lb/size) 6=4921/0-5-8, 1=3585/0-3-8
Max Horz 1=453(LC 8)
Max Uplift 6=-798(LC 8), 1=-212(LC 4)

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

TOP CHORD	1-2=-4115/301
BOT CHORD	1-7=-463/2629, 6-7=-464/2648
WEBS	2-7=-416/5036, 2-6=-3458/605

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
   Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
4) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=798, 1=212.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1696 lb down and 161 lb up at 2-2-12, 2075 lb down and 209 lb up at 4-1-4, and 2075 lb down and 209 lb up at 6-4-4, and 1970 lb down and 199 lb up at 8-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

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LOAD CASE(S) Standard

Continued on page 2

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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=-20, 1-5=-20
   Concentrated Loads (lb)
   Vert: 7=-2075(B) 12=-1676(B) 13=-2075(B) 14=-1970(B)

Job	Truss	Truss Type	Qty	Ply	Jackson B
B0419-1981	E01	COMMON TRUSS	1	1	E12959755
					Job Reference (optional)

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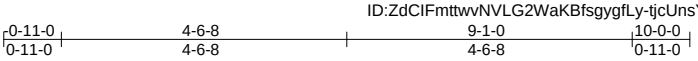

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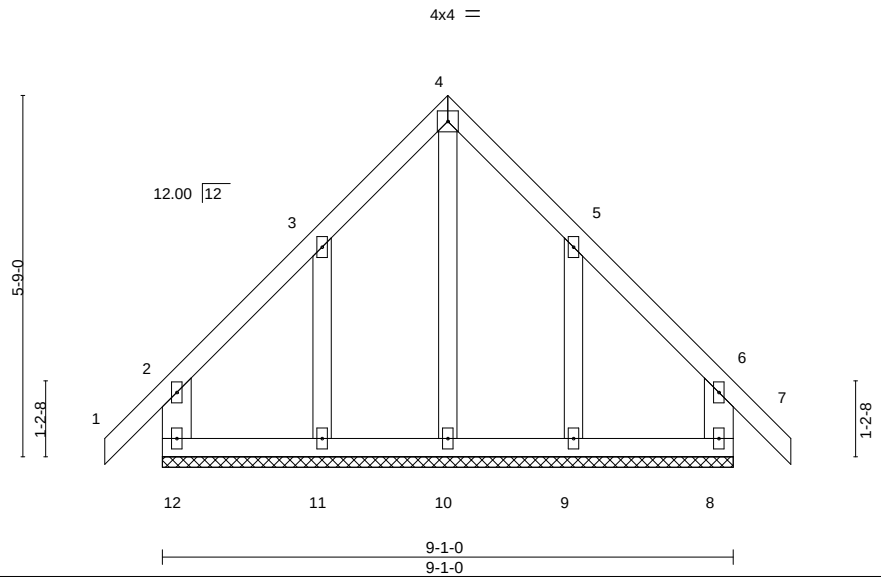

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.00	7	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-R							Weight: 59 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. All bearings 9-1-0.

(lb) - Max Horz 12=-164(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) except 12=-122(LC 11), 8=-116(LC 10), 11=-212(LC 10), 9=-208(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 12, 8, 10 except 11=260(LC 17), 9=256(LC 18)

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

TOP CHORD 3-4=-212/258, 4-5=-212/258

WEBS 4-10=-284/172

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 0-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 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.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 12, 116 lb uplift at joint 8, 212 lb uplift at joint 11 and 208 lb uplift at joint 9.

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818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	Jackson B
B0419-1981	J01	GABLE	1	1	E12959756
					Job Reference (optional)

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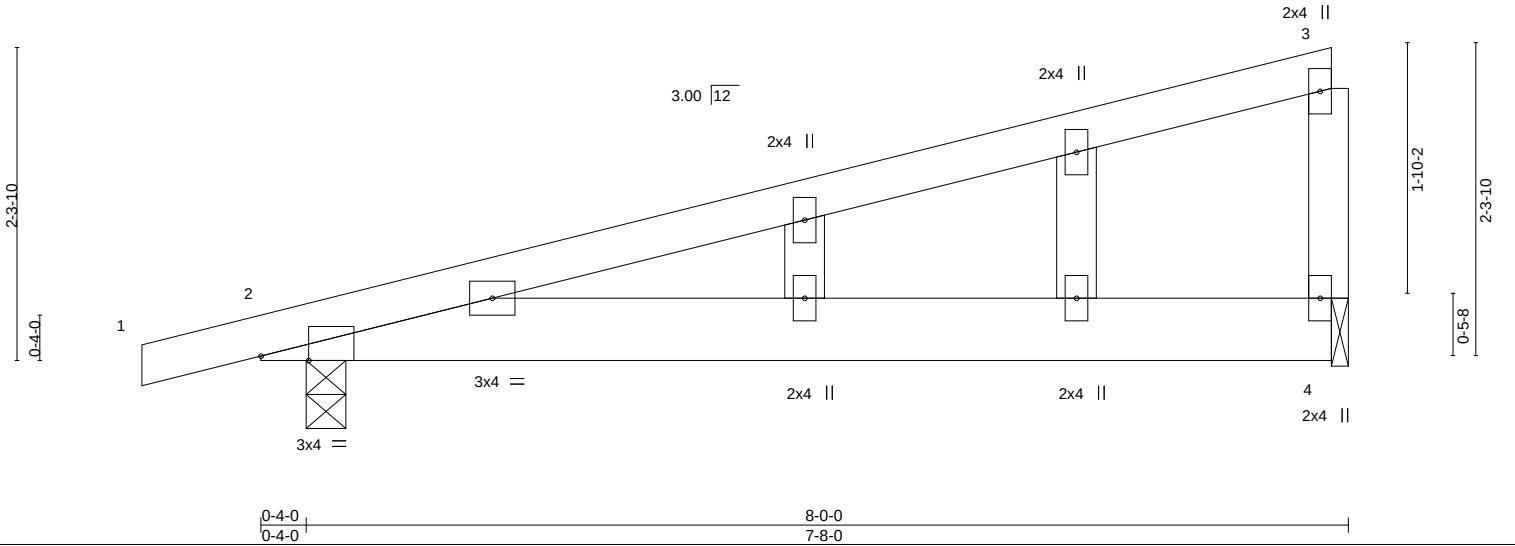

0-4-0 8-0-0

0-4-0 7-8-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.05	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.10	2-4	>969	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 37 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 2=374/0-3-8, 4=303/0-1-8
Max Horz 2=106(LC 6)
Max Uplift 2=-140(LC 6), 4=-104(LC 10)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable studs spaced at 2-0-0 oc.
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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 140 lb uplift at joint 2 and 104 lb uplift at joint 4.

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Job	Truss	Truss Type	Qty	Ply	Jackson B
B0419-1981	J02	MONOPITCH	10	1	E12959757
					Job Reference (optional)

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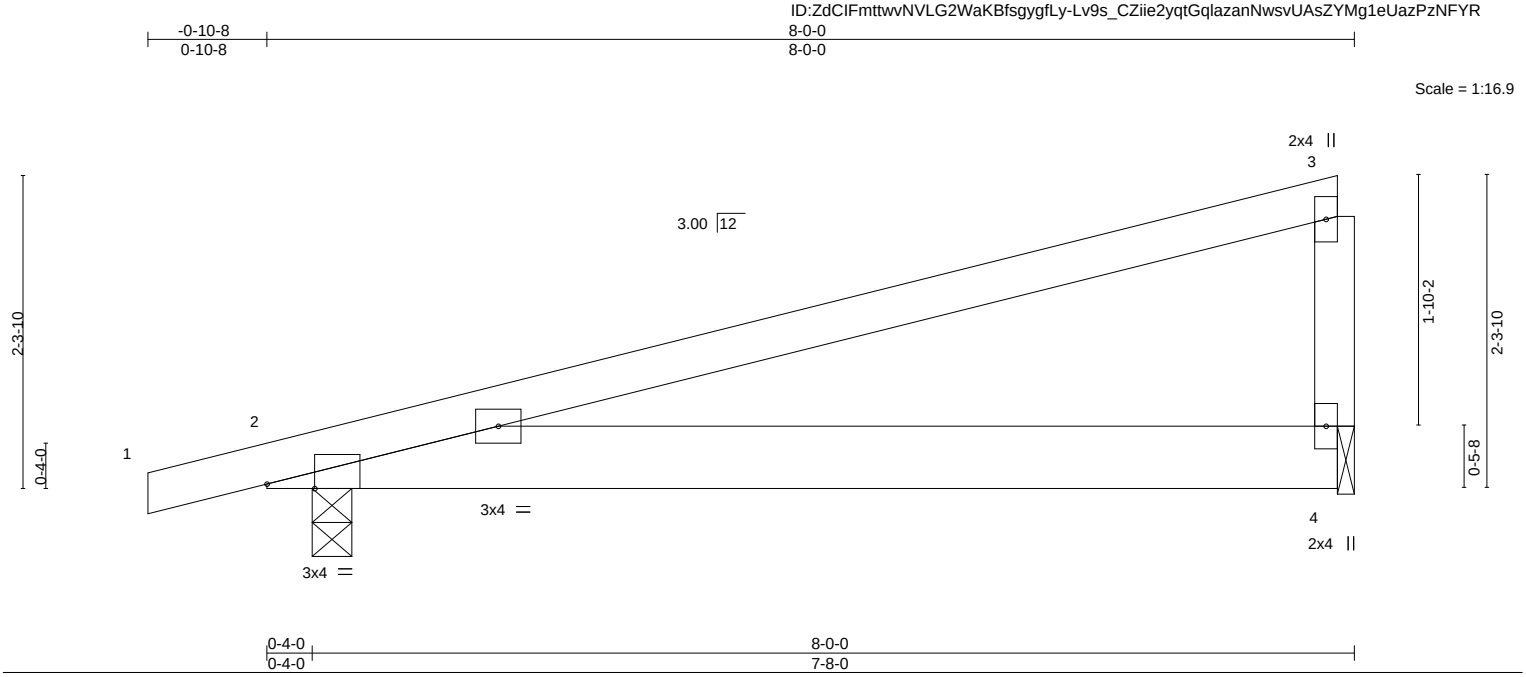

Plate Offsets (X,Y)-- [2:0-4-3,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.05	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.10	2-4	>969	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.10	2-4	>886	240	Weight: 34 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 2=374/0-3-8, 4=303/0-1-8
Max Horz 2=75(LC 6)
Max Uplift 2=-159(LC 6), 4=-132(LC 6)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 159 lb uplift at joint 2 and 132 lb uplift at joint 4.

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A MiTek Affiliate
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Jackson B
B0419-1981	J03	GABLE	1	1	E12959758
					Job Reference (optional)

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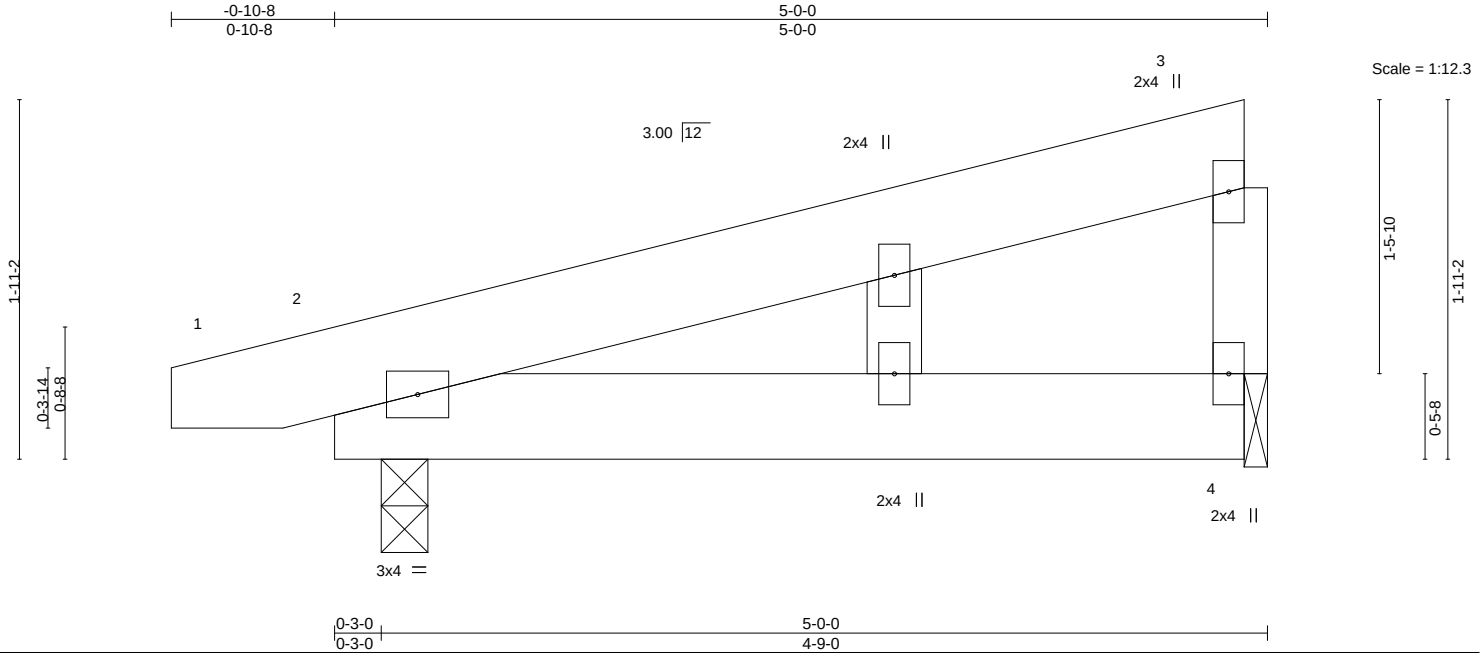

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.01	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.01	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.02	2-4	>999	240	Weight: 28 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 4=184/0-1-8, 2=234/0-3-0
Max Horz 2=64(LC 10)
Max Uplift 4=-118(LC 6), 2=-139(LC 6)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable studs spaced at 2-0-0 oc.
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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 4 and 139 lb uplift at joint 2.

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Job	Truss	Truss Type	Qty	Ply	Jackson B
B0419-1981	J04	MONOPITCH	4	1	E12959759
					Job Reference (optional)

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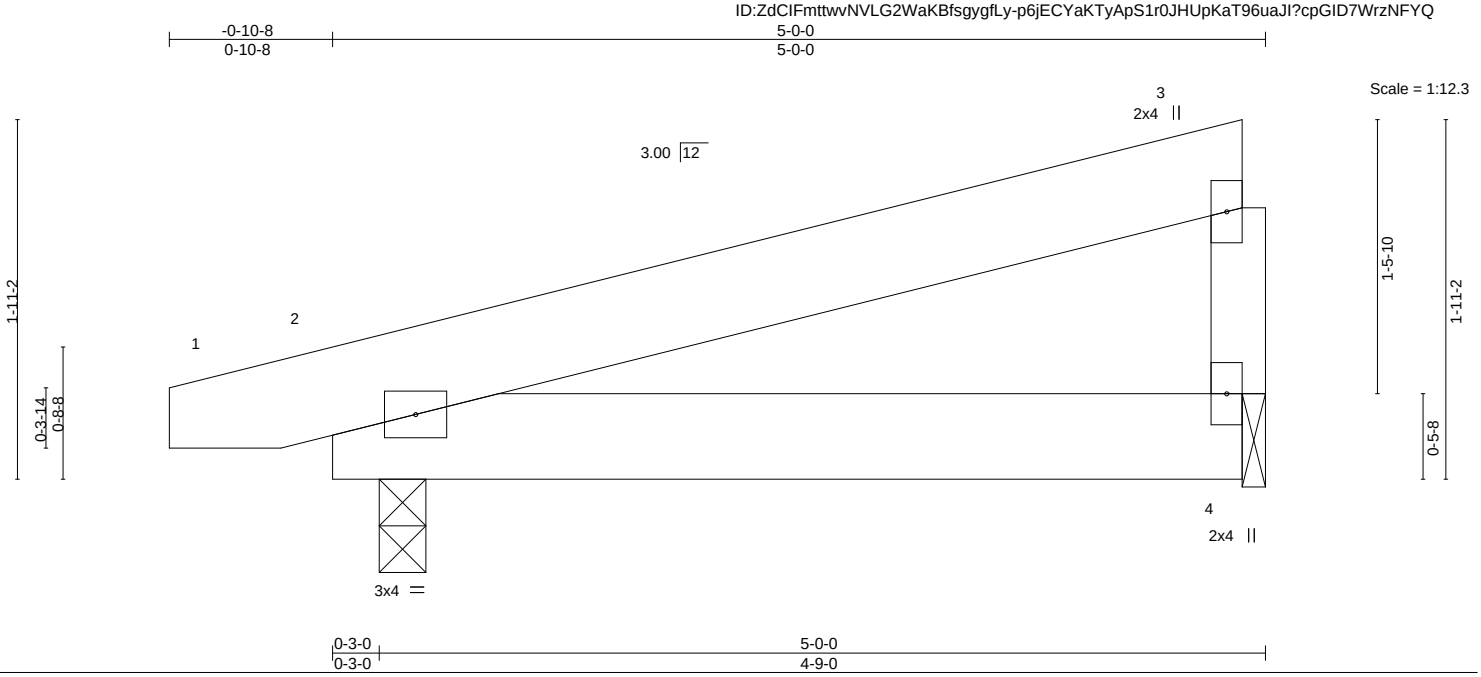

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.01	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.01	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		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
WEBS 2x4 SP No.3

BRACING-

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

REACTIONS. (lb/size) 4=184/0-1-8, 2=234/0-3-0
Max Horz 2=45(LC 10)
Max Uplift 4=-82(LC 6), 2=-98(LC 6)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 4 and 98 lb uplift at joint 2.

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Job	Truss	Truss Type	Qty	Ply	Jackson B
B0419-1981	J05	MONOPITCH	6	1	E12959760
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Apr 25 06:54:12 2019 Page 1

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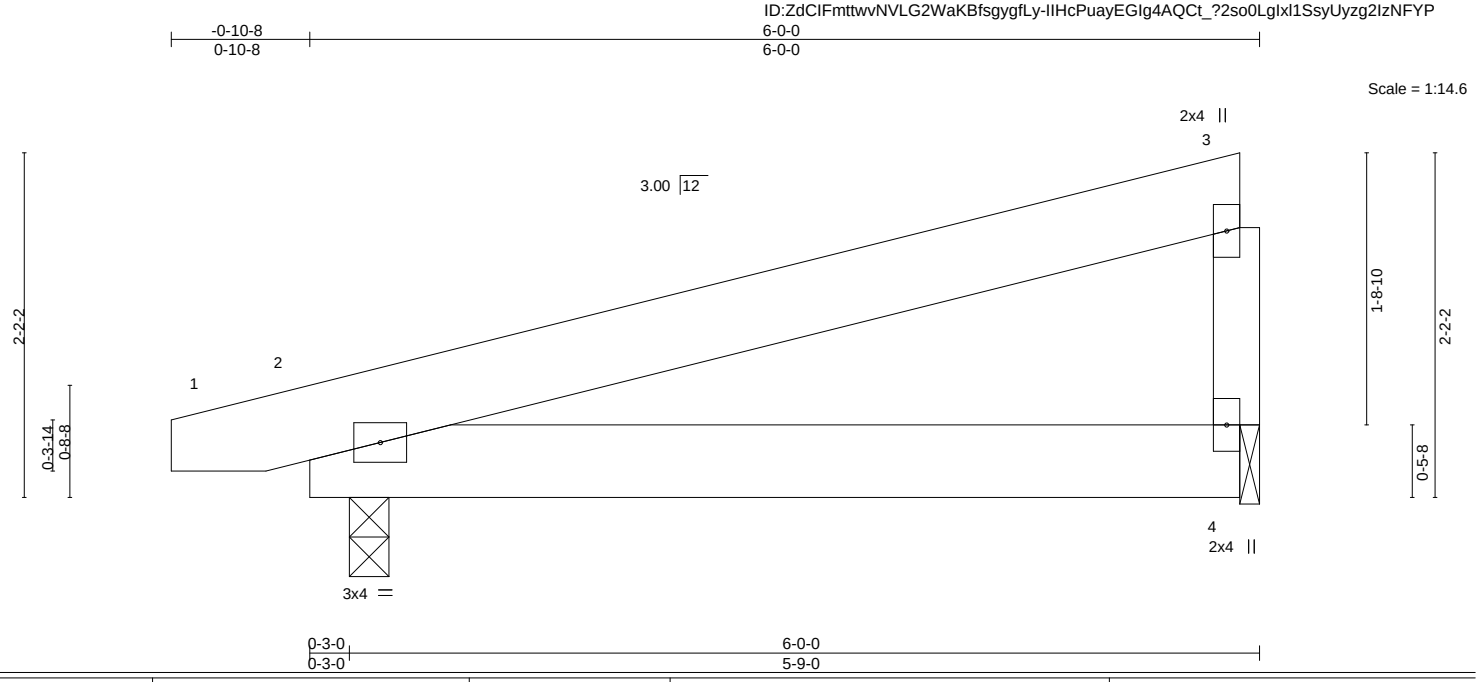

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.01	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.03	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 32 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 2=274/0-3-0, 4=225/0-1-8
Max Horz 2=53(LC 10)
Max Uplift 2=-49(LC 6), 4=-37(LC 10)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 2 and 37 lb uplift at joint 4.

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Job	Truss	Truss Type	Qty	Ply	Jackson B
B0419-1981	V01	GABLE	1	1	E12959761
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Apr 25 06:54:13 2019 Page 1
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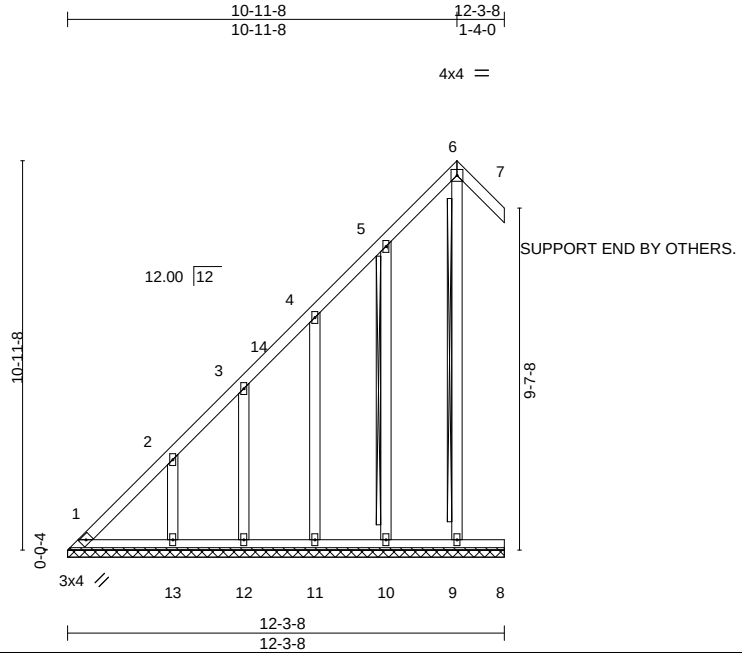

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	-0.01	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 91 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3 *Except*
6-9: 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 T-Brace: 2x4 SPF No.2 - 6-9, 5-10
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 12-3-8.
(lb) - Max Horz 1=461(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 7, 9 except 1=-118(LC 8), 10=-150(LC 10), 11=-147(LC 10), 12=-127(LC 10), 13=-195(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 7, 8, 9, 12 except 1=385(LC 10), 10=296(LC 17), 11=288(LC 17), 13=255(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-584/455, 2-3=-414/307, 3-4=-291/213

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 4-11-8, Interior(1) 4-11-8 to 6-6-11, Exterior(2) 6-6-11 to 10-11-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 9 except (jt=lb) 1=118, 10=150, 11=147, 12=127, 13=195.
8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

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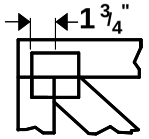
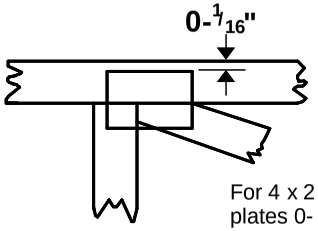
Edenton, NC 27932

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.

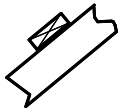
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

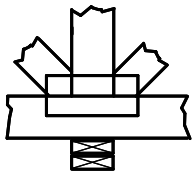
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

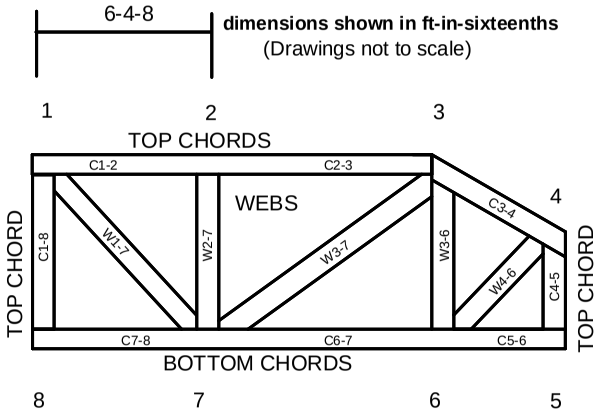


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.