

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0920-4155
Westan/Lot 39 Fairwinds/Johnston

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: E15218166 thru E15218199

My license renewal date for the state of North Carolina is December 31, 2020.

North Carolina COA: C-0844



December 16, 2020

Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218166
J0920-4155	A1	PIGGYBACK BASE	5	1	Job Reference (optional)	

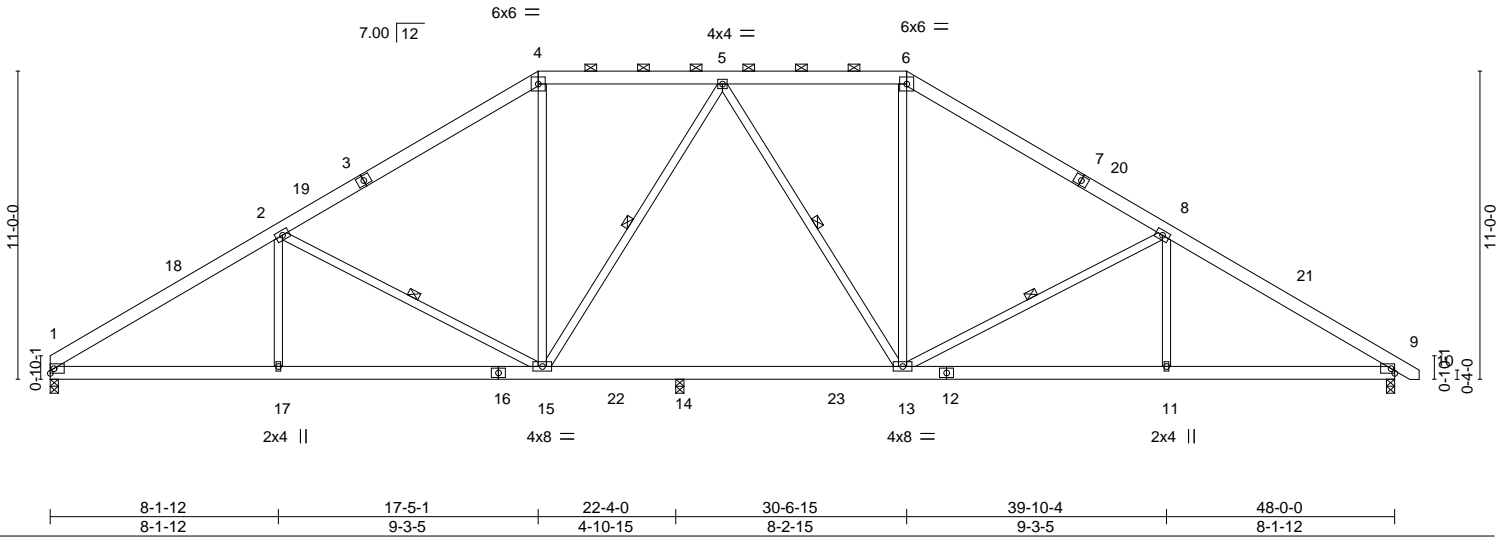
Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:31:39 2020 Page 1

ID:mHVPTvPrIWfejLznULY80lyxYfS-ibnzpc?b0T0A7gp7iyQ7gFwwT0J03zWhhdEr5my8Q4I



Scale = 1:82.3



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.54	Vert(LL) -0.12	15-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.60	Vert(CT) -0.27	15-17	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.43	Horz(CT) 0.10	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09	15-17	>999	240		
							Weight: 350 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-1 oc purlins, except 2-0-0 oc purlins (5-9-6 max.): 4-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 2-15, 5-15, 5-13, 8-13

REACTIONS.

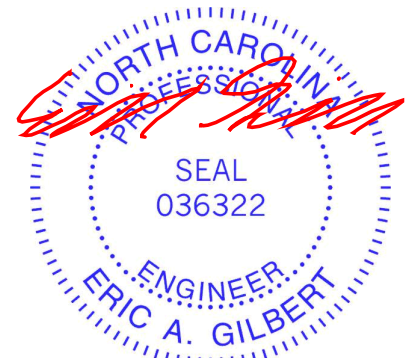
(size) 1=0-3-8, 9=0-3-8, 14=0-3-8
 Max Horz 1=-253(LC 10)
 Max Uplift 1=-104(LC 12), 9=-115(LC 13)
 Max Grav 1=1746(LC 1), 9=1817(LC 1), 14=604(LC 18)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2882/703, 2-4=-2162/676, 4-5=-1741/662, 5-6=-1782/661, 6-8=-2208/669, 8-9=-2935/699
 BOT CHORD 1-17=-496/2367, 15-17=-496/2367, 14-15=-305/1877, 13-14=-305/1877, 11-13=-487/2388, 9-11=-487/2388
 WEBS 2-17=0/419, 2-15=-839/280, 4-15=-107/560, 5-15=-428/211, 5-13=-358/229, 6-13=-102/582, 8-13=-824/279, 8-11=0/397

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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(2) 0-1-12 to 4-11-6, Interior(1) 4-11-6 to 17-5-1, Exterior(2) 17-5-1 to 24-0-0, Interior(1) 24-0-0 to 30-6-15, Exterior(2) 30-6-15 to 37-4-6, Interior(1) 37-4-6 to 48-8-8 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.
- All plates are 4x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 1 and 115 lb uplift at joint 9.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

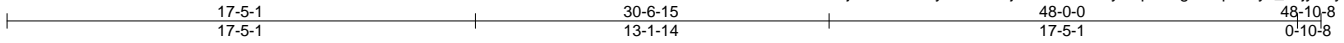


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218167
J0920-4155	A1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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ID:mHVptvPrIWfejLZnULY80lyxYfS-ezvjDI0rY4GuMzyWqNTbig?Ofq8RXyk_9xjyAey8Q4G



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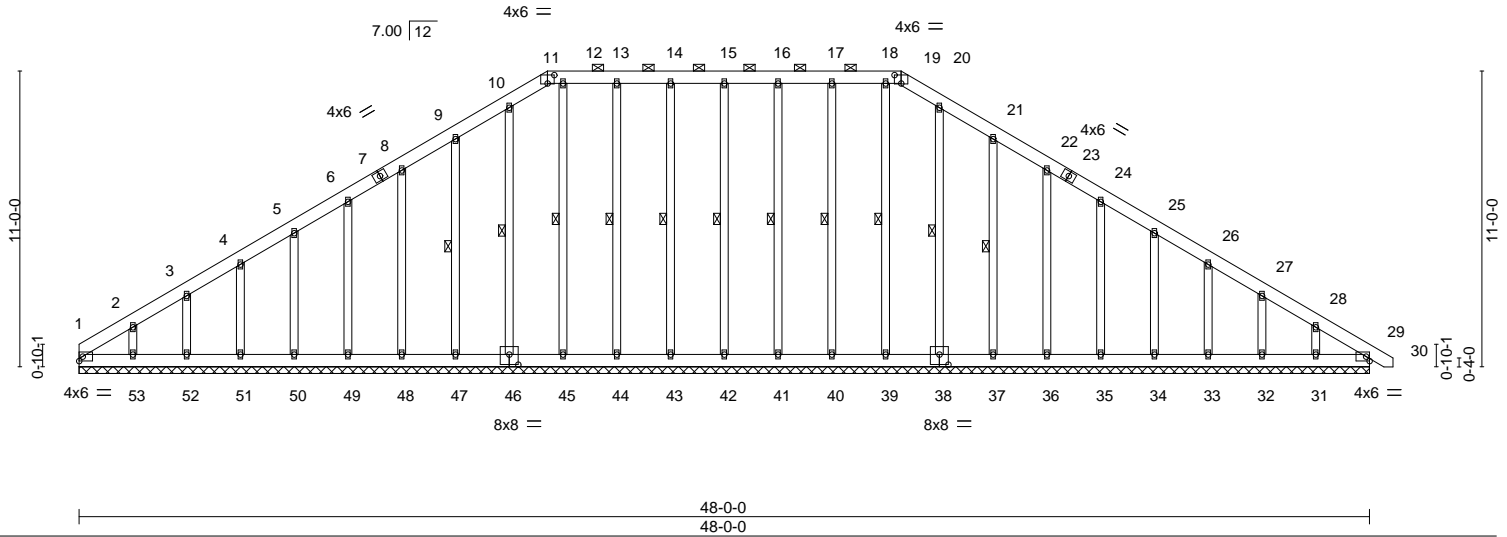


Plate Offsets (X,Y)-- [11:0-3-0,0-3-12], [19:0-3-0,0-3-12], [38:0-4-0,0-4-8], [46:0-4-0,0-4-8]

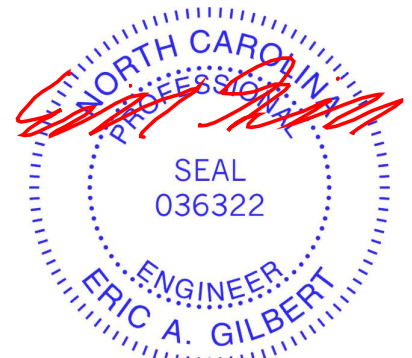
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) 0.00	29	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) 0.00	29	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.01	29	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 469 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.): 11-19.
BOT CHORD 2x6 SP No.1	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	WEBS 1 Row at midpt 15-42, 14-43, 13-44, 12-45, 10-46, 9-47, 16-41, 17-40, 18-39, 20-38, 21-37

REACTIONS. All bearings 48-0-0.
(lb) - Max Horz 1=-317(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 29, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32 except 1=-114(LC 10), 53=-137(LC 12), 31=-119(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 29, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-338/277, 9-10=-238/284, 10-11=-259/297, 11-12=-245/288, 12-13=-245/288, 13-14=-245/288, 14-15=-245/288, 15-16=-245/288, 16-17=-245/288, 17-18=-245/288, 18-19=-245/288, 19-20=-259/297, 20-21=-238/270

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; 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 and C-C Corner(3) 0-0-0 to 4-9-10, Exterior(2) 4-9-10 to 17-5-1, Corner(3) 17-5-1 to 22-0-0, Exterior(2) 22-0-0 to 30-6-15, Corner(3) 30-6-15 to 35-4-9, Exterior(2) 35-4-9 to 48-8-8 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 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32 except (jt=lb) 1=114, 53=137, 31=119.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 16, 2020

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



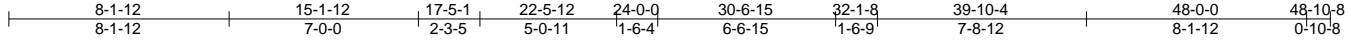
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218168
J0920-4155	A2	ROOF TRUSS	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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ID:mHVptvPrIwfeJLZnULY80lyxYfS-aMOUe_254hWcbH6uxoV3q54fBdkF?h0HcFC2EXy8Q4E



Scale = 1:85.2

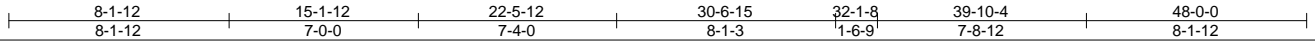
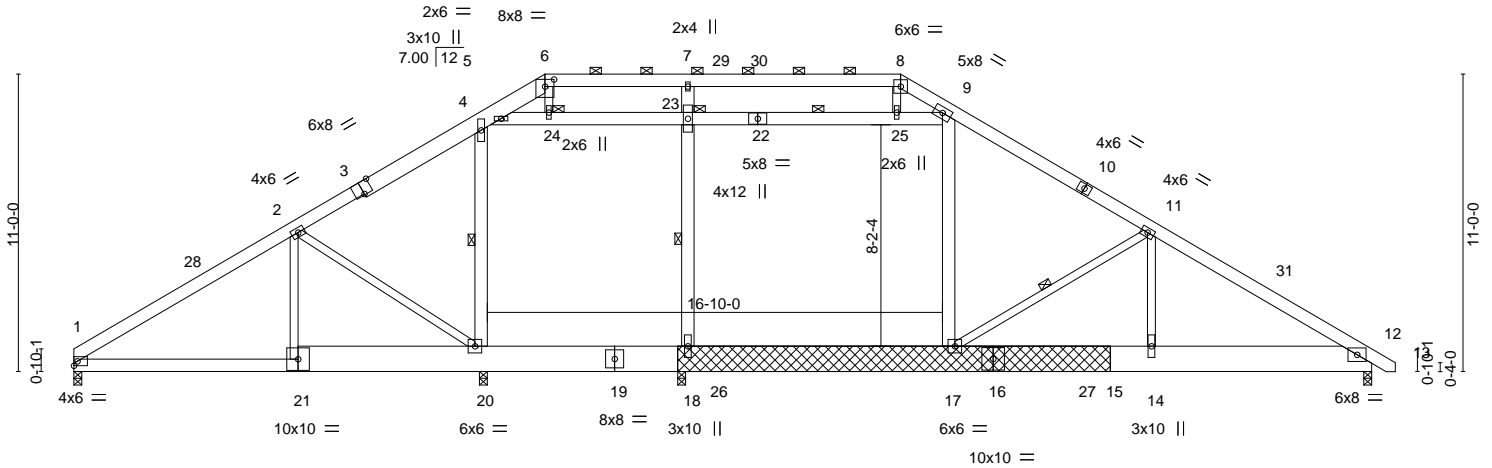


Plate Offsets (X,Y)-- [3:0-4-0,Edge], [6:0-4-0,0-3-3]

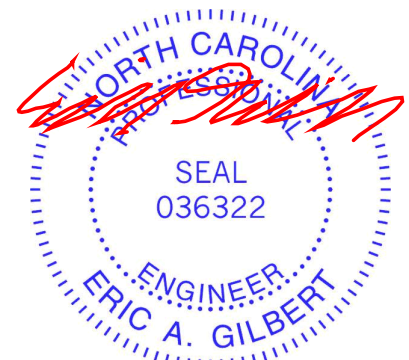
LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.37	Vert(LL) -0.09	14-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(CT) -0.20	14-17	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.78	Horz(CT) 0.04	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.06	14-17	>999	240		
							Weight: 636 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 3-6: 2x8 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-9-5 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD 2x12 SP 2400F 2.0E *Except* 1-21: 2x6 SP No.1, 19-21: 2x12 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except* 2-21,2-20,11-17,11-14,6-24,8-25: 2x4 SP No.2	WEBS 1 Row at midpt 11-17, 4-20, 18-23, 9-23
OTHERS 2x12 SP 2400F 2.0E	JOINTS 1 Brace at Jt(s): 23, 24
LBR SCAB 15-18 2x12 SP 2400F 2.0E both sides	

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 1=254(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) except 20=205(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) except 1=1290(LC 21), 20=558(LC 24), 18=2366(LC 2), 12=1617(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2124/156, 2-4=-1682/144, 4-5=-1287/183, 5-6=-509/78, 6-7=-411/76, 7-8=-410/77,
 8-9=-539/98, 9-11=-1619/122, 11-12=-2593/160
 BOT CHORD 1-21=-2/1683, 20-21=0/1688, 18-20=0/1268, 17-18=0/1268, 14-17=-20/2101,
 12-14=-20/2101
 WEBS 2-21=0/358, 2-20=-681/235, 11-17=-1037/254, 11-14=0/616, 4-20=-147/386,
 9-17=-22/264, 18-23=-802/85, 5-24=-1053/162, 23-24=-1042/167, 23-25=-1042/167,
 9-25=-1066/162, 7-23=-509/259

- NOTES-**
- Attached 16-0-0 scab 15 to 18, both face(s) 2x12 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-4-8 from end at joint 18, nail 2 row(s) at 4" o.c. for 2-0-0;
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; 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(2) 0-1-12 to 4-11-6, Interior(1) 4-11-6 to 17-5-1, Exterior(2) 17-5-1 to 24-2-8, Interior(1) 24-2-8 to 30-6-15, Exterior(2) 30-6-15 to 37-4-6, Interior(1) 37-4-6 to 48-8-8 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 4-5, 5-24, 23-24, 23-25, 9-25; Wall dead load (5.0psf) on member(s). 4-20, 9-17, 18-23
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-20, 17-18
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 205 lb uplift at joint 20.



Computer generated representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218168
J0920-4155	A2	ROOF TRUSS	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:31:43 2020 Page 2
 ID:mHVPTvPrIWfejLZnULY80lyxYfS-aM0Ue_254hWcbH6uxoV3q54fBdkF?h0HcFC2EXy8Q4E

NOTES-

11) Attic room checked for L/360 deflection.

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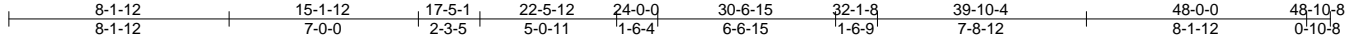
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218169
J0920-4155	A2X	ROOF TRUSS	0	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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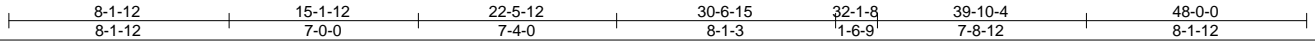
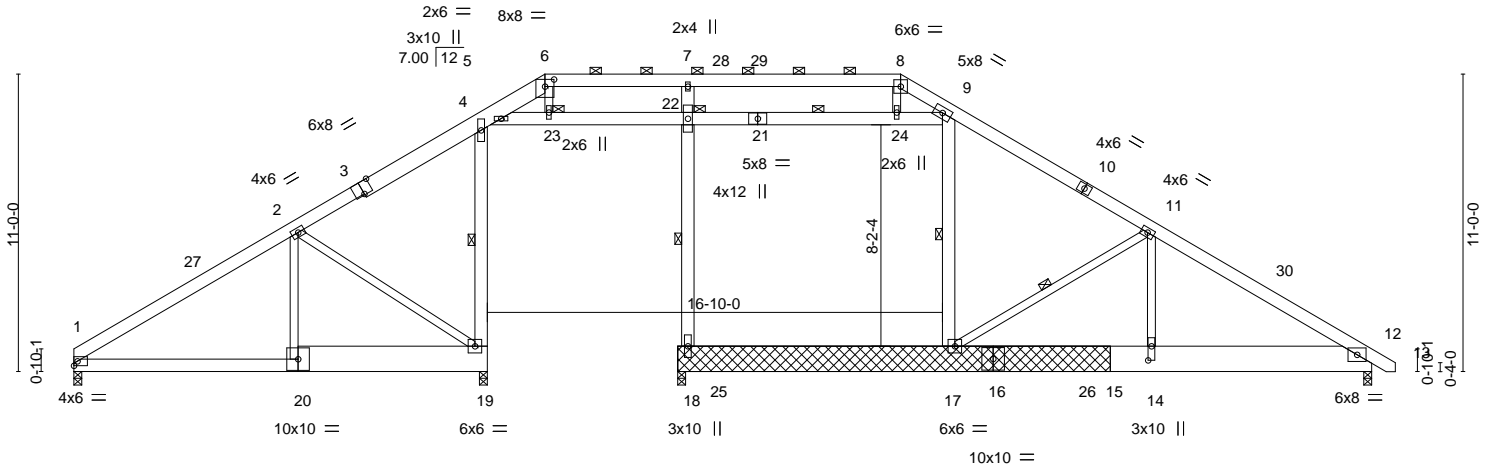


Plate Offsets (X,Y)-- [3:0-4-0,Edge], [6:0-4-0,0-3-3], [14:0-6-4,0-1-8]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.56	Vert(LL) -0.24 17 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.31	Vert(CT) -0.51 14-17 >592 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.83	Horz(CT) 0.28 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.10 14-17 >999 240	Weight: 602 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*
3-6: 2x8 SP No.1
BOT CHORD 2x12 SP 2400F 2.0E *Except*
1-20: 2x6 SP No.1, 19-20: 2x12 SP No.1
WEBS 2x6 SP No.1 *Except*
2-20,2-19,11-17,11-14,6-23,8-24: 2x4 SP No.2
OTHERS 2x12 SP 2400F 2.0E
LBR SCAB 15-18 2x12 SP 2400F 2.0E both sides

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 11-17, 4-19, 9-17, 18-22, 9-22
JOINTS 1 Brace at Jt(s): 22, 23

REACTIONS.

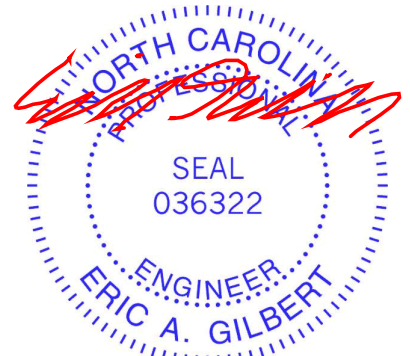
All bearings 0-3-8.
(lb) - Max Horz 1=254(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 12 except 1=108(LC 13), 19=153(LC 9)
Max Grav All reactions 250 lb or less at joint(s) except 1=586(LC 24), 19=808(LC 24), 18=2324(LC 2), 12=1209(LC 21)

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

TOP CHORD 1-2=-829/366, 2-4=-354/368, 4-5=-354/363, 5-6=-80/367, 6-7=-6/355, 7-8=-6/353, 8-9=-43/354, 9-11=-365/370, 11-12=-1945/281
BOT CHORD 1-20=-179/588, 19-20=-177/593, 14-17=-122/1550, 12-14=-122/1550
WEBS 2-20=0/372, 2-19=-724/215, 11-17=-1846/145, 11-14=0/1390, 4-19=-382/146, 9-17=-532/0, 18-22=-1077/44, 5-23=-509/269, 22-23=-514/270, 22-24=-514/270, 9-24=-492/275, 7-22=-623/241

NOTES-

- Attached 16-0-0 scab 15 to 18, both face(s) 2x12 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-4-8 from end at joint 18, nail 3 row(s) at 7" o.c. for 2-0-0; starting at 9-0-4 from end at joint 18, nail 2 row(s) at 7" o.c. for 3-7-12; starting at 14-0-0 from end at joint 18, nail 3 row(s) at 4" o.c. for 2-0-0.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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(2) 0-1-12 to 4-11-6, Interior(1) 4-11-6 to 17-5-1, Exterior(2) 17-5-1 to 24-2-8, Interior(1) 24-2-8 to 30-6-15, Exterior(2) 30-6-15 to 37-4-6, Interior(1) 37-4-6 to 48-8-8 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 5-23, 22-23, 22-24, 9-24; Wall dead load (5.0psf) on member(s). 9-17, 18-22
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 17-18
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb)



December 16, 2020

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218169
J0920-4155	A2X	ROOF TRUSS	0	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:31:44 2020 Page 2
 ID:mHVptvPrIWfejLZnULY80lyxYfS-2YassK2jr?eTDRh5VV0lNjdnw15kk8VRvycmzy8Q4D

NOTES-

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



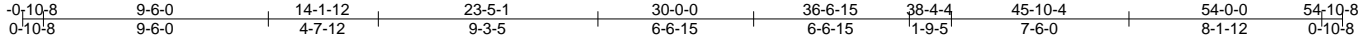
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218170
J0920-4155	A3	ROOF TRUSS	2	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:31:45 2020 Page 1

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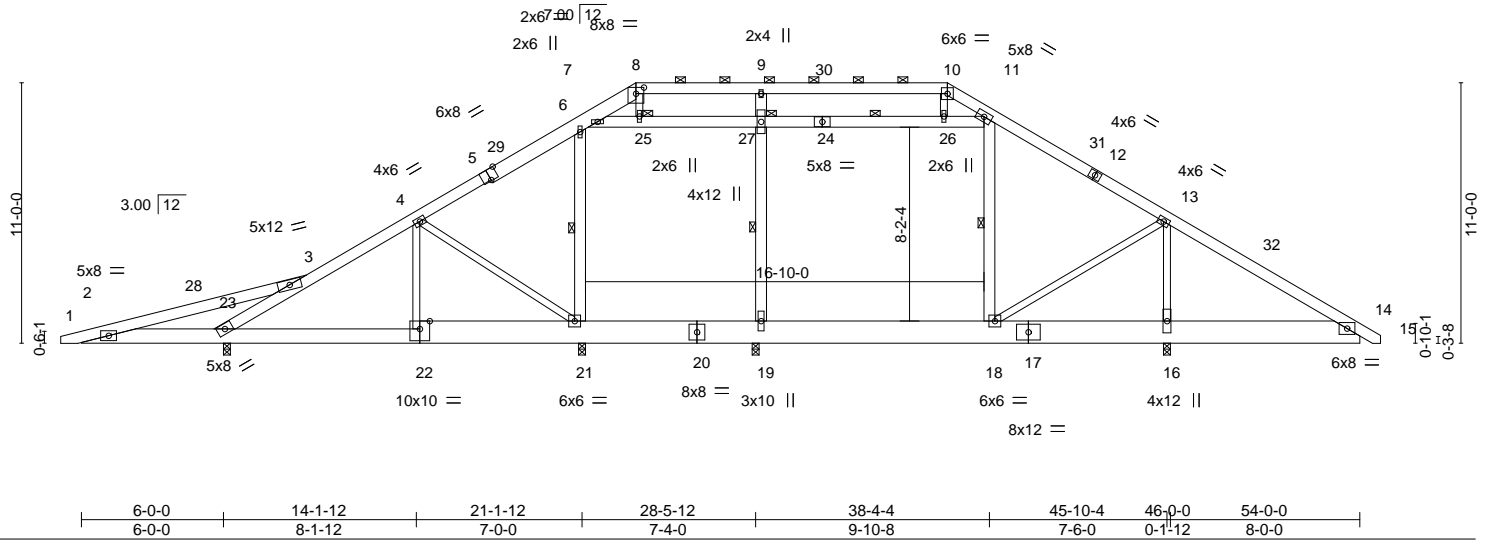


Plate Offsets (X,Y)-- [5:0-4-0,Edge], [8:0-4-0,0-3-3]

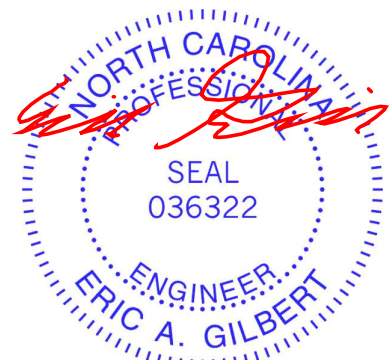
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.41	Vert(LL) -0.03	18-19	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.67	Vert(CT) -0.07	18-19	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.55	Horz(CT) 0.01	16	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) -0.02	22-23	>999	240		
							Weight: 532 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 5-8: 2x8 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.): 3-23, 8-10.
BOT CHORD 2x12 SP 2400F 2.0E *Except* 2-22: 2x8 SP No.1, 20-22: 2x12 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except* 4-21, 13-18, 13-16, 4-22, 8-25, 10-26: 2x4 SP No.2	WEBS 1 Row at midpt 6-21, 11-18, 11-27, 19-27
	JOINTS 1 Brace at Jt(s): 25, 27

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 23=254(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 21 except 23=-170(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) except 21=981(LC 20), 16=1905(LC 21), 19=1792(LC 2), 23=1413(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-886/1064, 3-23=-1902/536, 3-4=-1041/0, 4-6=-818/14, 6-7=-687/0, 7-8=-516/17, 8-9=-402/11, 9-10=-401/12, 10-11=-504/27, 11-13=-796/0, 13-14=-469/617
 BOT CHORD 2-23=-969/918, 22-23=0/909, 21-22=0/912, 19-21=0/611, 18-19=0/611, 16-18=-438/506, 14-16=-438/506
 WEBS 4-21=-484/147, 13-18=-8/1082, 13-16=-1598/332, 6-21=-450/229, 11-18=-487/203, 7-25=-341/79, 25-27=-328/84, 26-27=-328/84, 11-26=-346/79, 9-27=-482/247, 19-27=-734/71

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; 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(2) 0-6-3 to 4-10-10, Interior(1) 4-10-10 to 23-5-1, Exterior(2) 23-5-1 to 28-8-8, Interior(1) 28-8-8 to 36-6-15, Exterior(2) 36-6-15 to 41-11-12, Interior(1) 41-11-12 to 54-8-8 zone; cantilever left and 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 6-7, 7-25, 25-27, 26-27, 11-26; Wall dead load (5.0psf) on member(s).6-21, 11-18, 19-27
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-21, 18-19
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21 except (jt=lb) 23=170.
 - Gabled 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.



December 16, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

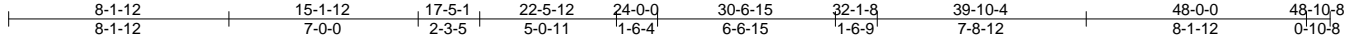
ENGINEERING BY TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218172
J0920-4155	A3AX	ROOF TRUSS	0	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:31:48 2020 Page 1

ID:mHVptvPrIwFjeLZnULY80lyxYfS-xJqNih6EvE9vi2?skL5EX9nUOeRHgxQ0mWwpvky8Q49



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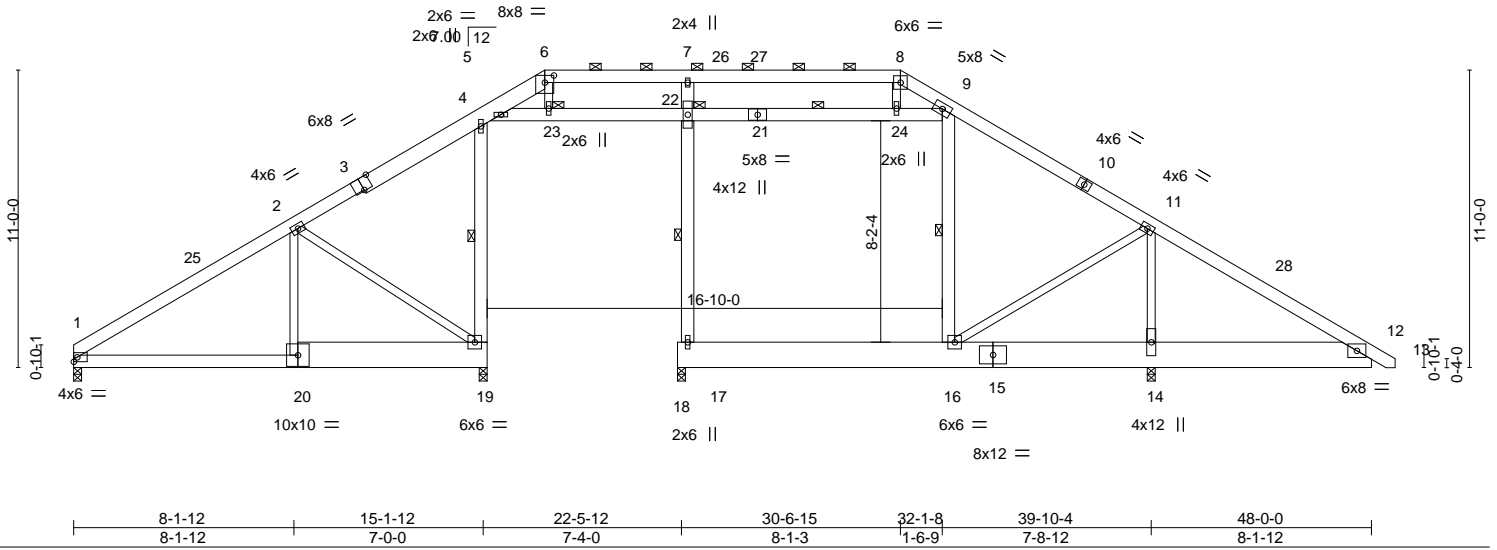


Plate Offsets (X,Y)--	[3:0-4-0,Edge], [6:0-4-0,0-3-3]
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LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.40	Vert(LL) -0.21 16-17 >983 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.39	Vert(CT) -0.42 16-17 >493 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.90	Horz(CT) 0.48 17 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) -0.08 16 >999 240		
				Weight: 449 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 3-6: 2x8 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.): 6-8.
BOT CHORD 2x12 SP 2400F 2.0E *Except* 1-20: 2x6 SP No.1, 19-20: 2x12 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except* 2-20,2-19,11-16,11-14,6-23,8-24: 2x4 SP No.2	WEBS 1 Row at midpt 4-19, 9-16, 17-22, 9-22
	JOINTS 1 Brace at Jt(s): 22, 23

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 1=-254(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) except 1=-107(LC 13), 19=-148(LC 9), 14=-146(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 1=588(LC 24), 19=839(LC 24), 14=1674(LC 25), 17=1744(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-833/365, 2-4=-356/367, 4-5=-402/400, 5-6=-210/407, 6-7=-161/381, 7-8=-162/382, 8-9=-218/458, 9-11=-367/356, 11-12=-556/540
 BOT CHORD 1-20=-179/592, 19-20=-176/597, 14-16=-402/582, 12-14=-402/582
 WEBS 2-20=0/372, 2-19=-729/214, 11-16=-693/479, 11-14=-1088/996, 4-19=-410/142, 9-16=-583/60, 17-22=-952/0, 7-22=-561/184

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; 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(2) 0-1-12 to 4-11-6, Interior(1) 4-11-6 to 17-5-1, Exterior(2) 17-5-1 to 24-2-8, Interior(1) 24-2-8 to 30-6-15, Exterior(2) 30-6-15 to 37-4-6, Interior(1) 37-4-6 to 48-8-8 zone; cantilever 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 5-23, 22-23, 22-24, 9-24; Wall dead load (5.0psf) on member(s).9-16, 17-22
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 16-17
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 1, 148 lb uplift at joint 19 and 146 lb uplift at joint 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.



December 16,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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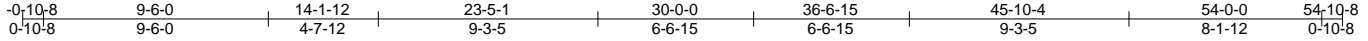
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218173
J0920-4155	A3X	ROOF TRUSS	0	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:31:49 2020 Page 1

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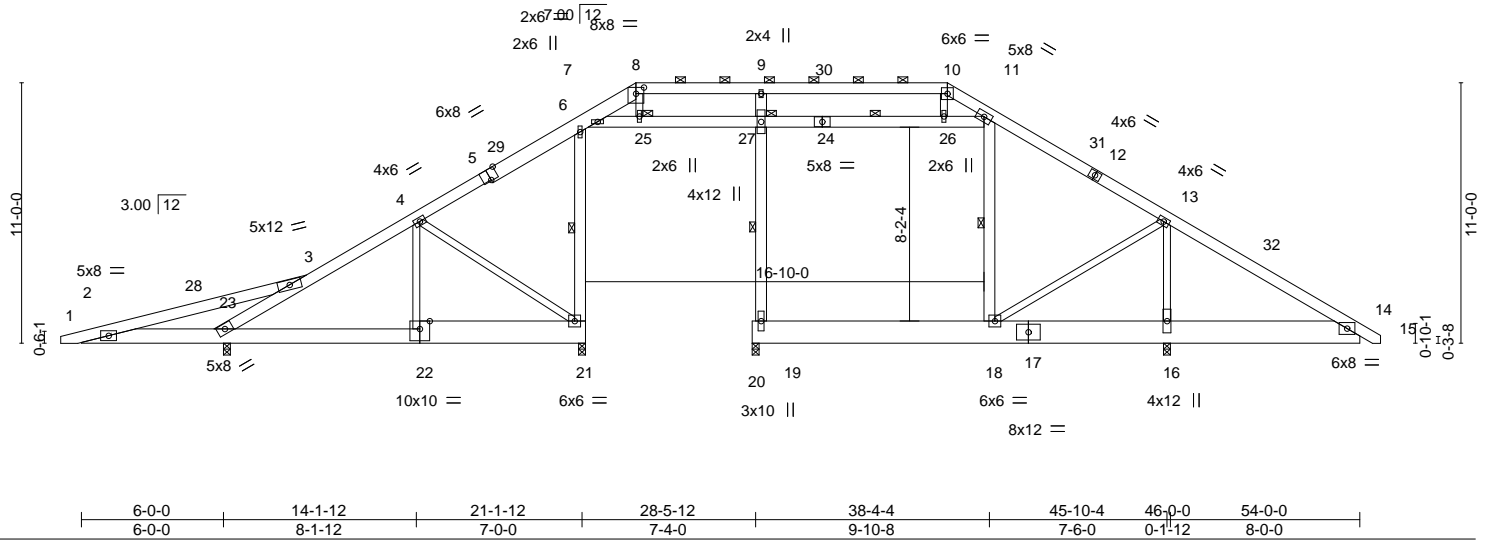


Plate Offsets (X,Y)-- [5:0-4-0,Edge], [8:0-4-0,0-3-3]

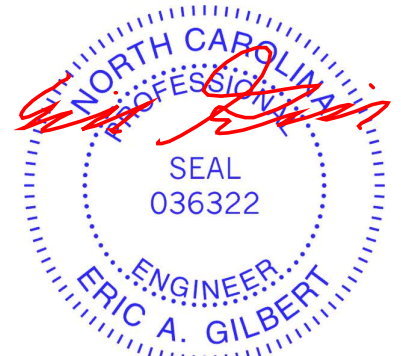
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.41	Vert(LL) -0.21 18-19 >983 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(CT) -0.42 18-19 >493 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.90	Horz(CT) 0.48 19 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) -0.09 18 >999 240	Weight: 499 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 5-8: 2x8 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.): 3-23, 8-10.
BOT CHORD 2x12 SP 2400F 2.0E *Except* 2-22: 2x8 SP No.1, 21-22: 2x12 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except* 4-21,13-18,13-16,4-22,8-25,10-26: 2x4 SP No.2	WEBS 1 Row at midpt 6-21, 11-18, 11-27, 19-27
	JOINTS 1 Brace at Jt(s): 25, 27

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 23=254(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) except 21=146(LC 9), 16=146(LC 13), 23=308(LC 8)
Max Grav All reactions 250 lb or less at joint(s) except 21=778(LC 20), 16=1673(LC 25), 19=1737(LC 23), 23=1206(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=861/1086, 3-23=1538/976, 3-4=659/263, 4-6=336/339, 6-7=406/406, 7-8=200/404, 8-9=142/370, 9-10=143/370, 10-11=200/448, 11-13=366/359, 13-14=559/541
BOT CHORD 2-23=991/894, 22-23=103/421, 21-22=100/425, 16-18=402/587, 14-16=402/587
WEBS 4-21=519/122, 13-18=699/479, 13-16=1087/1004, 6-21=471/155, 4-22=0/266, 11-18=583/58, 7-25=263/171, 25-27=258/167, 26-27=258/167, 11-26=252/193, 9-27=558/170, 19-27=946/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; 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(2) -0-6-3 to 4-10-10, Interior(1) 4-10-10 to 23-5-1, Exterior(2) 23-5-1 to 28-8-8, Interior(1) 28-8-8 to 36-6-15, Exterior(2) 36-6-15 to 41-11-12, Interior(1) 41-11-12 to 54-8-8 zone; cantilever left and 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 7-25, 25-27, 26-27, 11-26; Wall dead load (5.0psf) on member(s).11-18, 19-27
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-19
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint 21, 146 lb uplift at joint 16 and 308 lb uplift at joint 23.
 - 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.



December 16, 2020

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218174
J0920-4155	A4	ROOF TRUSS	3	1	Job Reference (optional)	

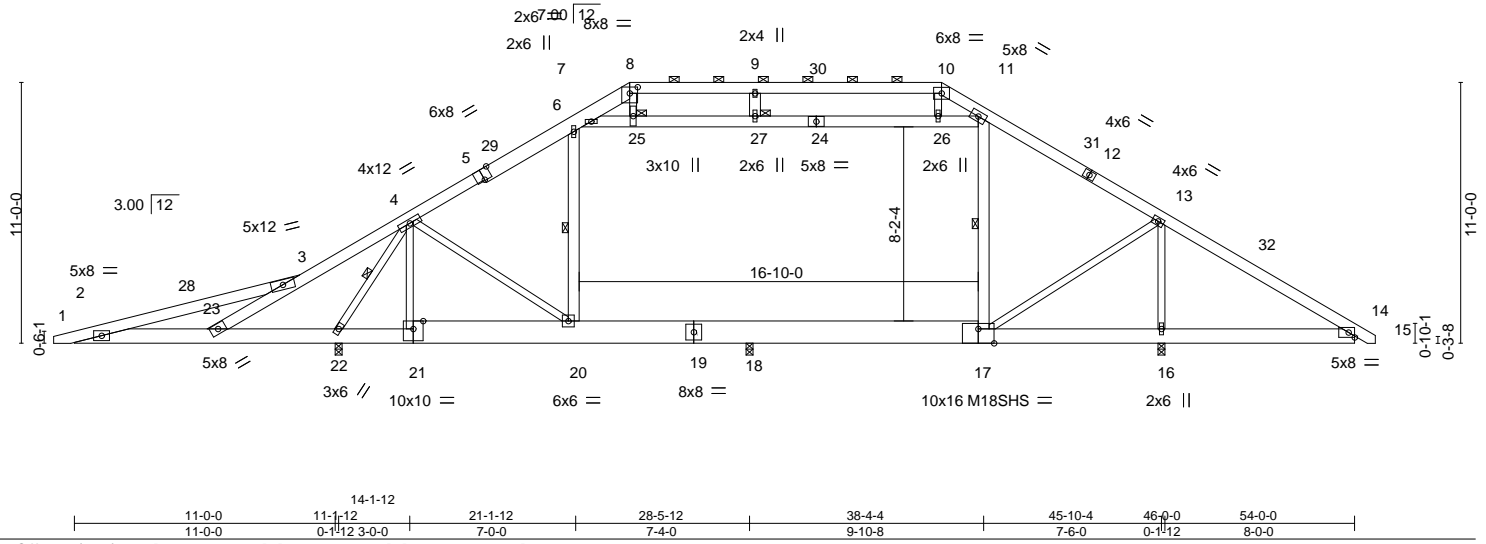
Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:31:50 2020 Page 1

ID:mHVptvPrIWfeJLznULY80lyxYfS-tix76N7UqrPdxM8Erm7icatqCS658syJDqPw_dy8Q47

0-10-8	9-6-0	14-1-12	23-5-1	30-0-0	36-6-15	38-4-4	45-10-4	54-0-0	54-10-8
0-10-8	9-6-0	4-7-12	9-3-5	6-6-15	6-6-15	1-9-5	7-6-0	8-1-12	0-10-8

Scale = 1:97.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.44	Vert(LL) -0.14 20 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.20 20-21 >999 180	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.77	Horz(CT) 0.01 16 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Attic -0.05 18-20 3559 360		
				Weight: 496 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*
5-8: 2x8 SP No.1
BOT CHORD 2x8 SP No.1 *Except*
17-19,19-21: 2x12 SP No.1
WEBS 2x4 SP No.2 *Except*
6-20,11-17,11-24,7-24,9-27: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-6 oc purlins, except 2-0-0 oc purlins (5-6-4 max.): 3-23, 8-10.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 18-20,17-18.
WEBS 1 Row at midpt 6-20, 11-17, 4-22
JOINTS 1 Brace at Jt(s): 25, 27

REACTIONS.

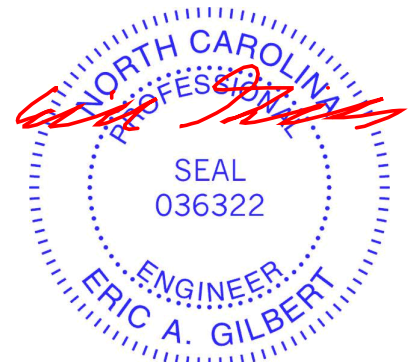
(size) 16=0-3-8, 22=0-3-8, 18=0-3-8
Max Horz 22=255(LC 11)
Max Uplift 22=-191(LC 8)
Max Grav 16=2170(LC 25), 22=2438(LC 24), 18=1444(LC 20)

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

TOP CHORD 2-3=-880/1222, 3-23=-526/514, 3-4=-1383/1804, 4-6=-1064/0, 6-7=-997/53, 7-8=-1652/299, 8-9=-1467/269, 9-10=-1465/269, 10-11=-1611/291, 11-13=-1041/0, 13-14=-476/689
BOT CHORD 2-23=-1122/913, 22-23=-1504/1366, 21-22=-172/871, 20-21=-170/875, 18-20=0/838, 17-18=0/843, 16-17=-484/494, 14-16=-483/493
WEBS 4-20=-609/1029, 13-17=-47/1431, 13-16=-1935/408, 6-20=-653/303, 4-21=-88/402, 11-17=-576/317, 7-25=-321/770, 25-27=-318/823, 26-27=-318/823, 11-26=-326/749, 8-25=-77/473, 10-26=0/390, 4-22=-2584/923

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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(2) 0-6-3 to 4-10-10, Interior(1) 4-10-10 to 23-5-1, Exterior(2) 23-5-1 to 28-8-8, Interior(1) 28-8-8 to 36-6-15, Exterior(2) 36-6-15 to 41-11-12, Interior(1) 41-11-12 to 54-8-8 zone; cantilever left and 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.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 6-7, 7-25, 25-27, 26-27, 11-26; Wall dead load (5.0psf) on member(s).6-20, 11-17
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-20, 17-18
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 22.
- 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.



December 16, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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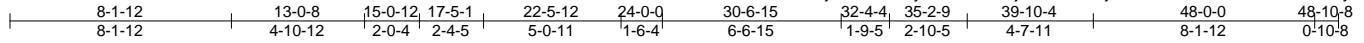
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218175
J0920-4155	A5	ROOF TRUSS	1	1	Job Reference (optional)	

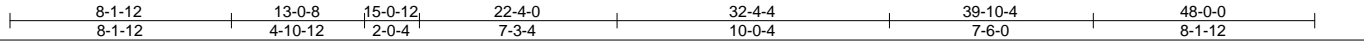
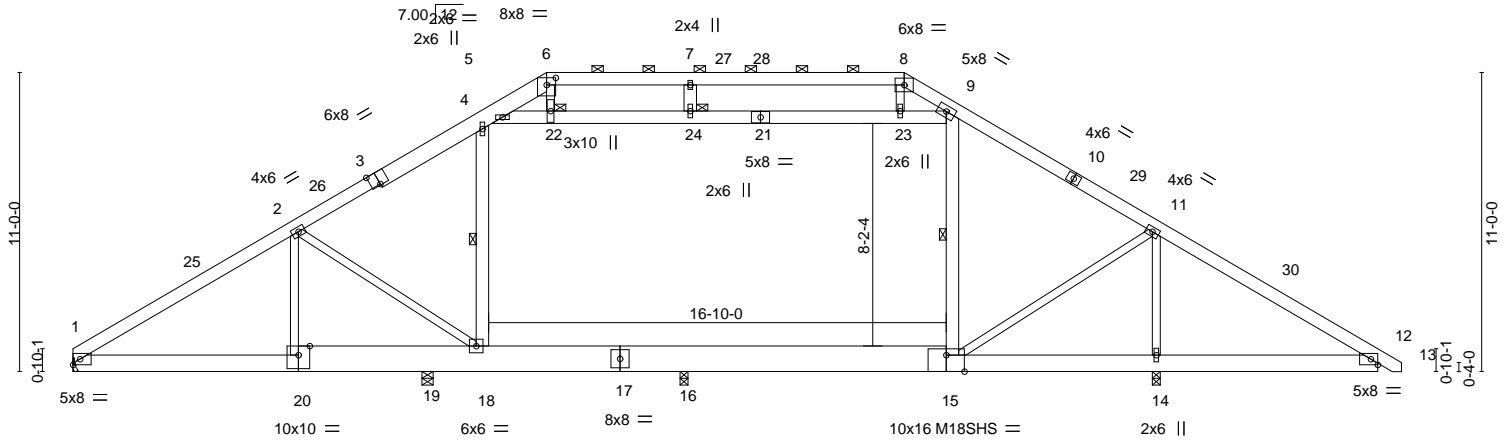
Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:31:51 2020 Page 1

ID:mHVptvPrIWfejLZnULY80lyxYfS-LuVVKj86B9XTZwJRPtTex9nP?vsSbtJMSSU8TW3y8Q46



Scale = 1:84.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.45	Vert(LL) -0.04 15-16 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.42	Vert(CT) -0.06 15-16 >999 240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.76	Horz(CT) 0.01 14 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02 1-20 >999 240		
				Weight: 444 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 3-6: 2x8 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-9-6 oc purlins, except 2-0-0 oc purlins (5-6-6 max.): 6-8.
BOT CHORD 2x8 SP No.1 *Except* 15-17,17-20: 2x12 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 14-15,12-14.
WEBS 2x4 SP No.2 *Except* 9-15,9-21,4-18,7-24,5-21: 2x6 SP No.1	WEBS 1 Row at midpt 9-15, 4-18
	JOINTS 1 Brace at Jt(s): 22, 24

REACTIONS. All bearings 0-3-8 except (jt=length) 1=Mechanical, 19=0-4-15.
 (lb) - Max Horz 1=252(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) except 19=101(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) except 1=886(LC 21), 14=2166(LC 25), 19=1158(LC 20), 16=1380(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1358/0, 2-4=-1069/37, 4-5=-988/83, 5-6=-1664/337, 6-7=-1462/303,
 7-8=-1460/304, 8-9=-1592/328, 9-11=-1036/0, 11-12=-475/680
 BOT CHORD 1-20=0/1036, 19-20=0/1038, 18-19=0/1033, 16-18=0/813, 15-16=0/818, 14-15=-471/492,
 12-14=-469/491
 WEBS 2-18=-463/191, 11-14=-1930/419, 9-15=-573/319, 11-15=-62/1399, 5-22=-324/788,
 22-24=-331/843, 23-24=-331/843, 9-23=-334/776, 6-22=-63/492, 8-23=-2/364,
 4-18=-664/283

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; 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(2) 0-1-4 to 4-10-14, Interior(1) 4-10-14 to 17-5-1, Exterior(2) 17-5-1 to 24-2-8, Interior(1) 24-2-8 to 30-6-15, Exterior(2) 30-6-15 to 37-4-6, Interior(1) 37-4-6 to 48-8-8 zone; cantilever 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.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 4-5, 5-22, 22-24, 23-24, 9-23; Wall dead load (5.0psf) on member(s).9-15, 4-18
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 16-18, 15-16
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at joint 19.
 - 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.



December 16, 2020

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 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

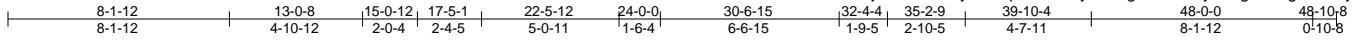
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218176
J0920-4155	A6	ROOF TRUSS	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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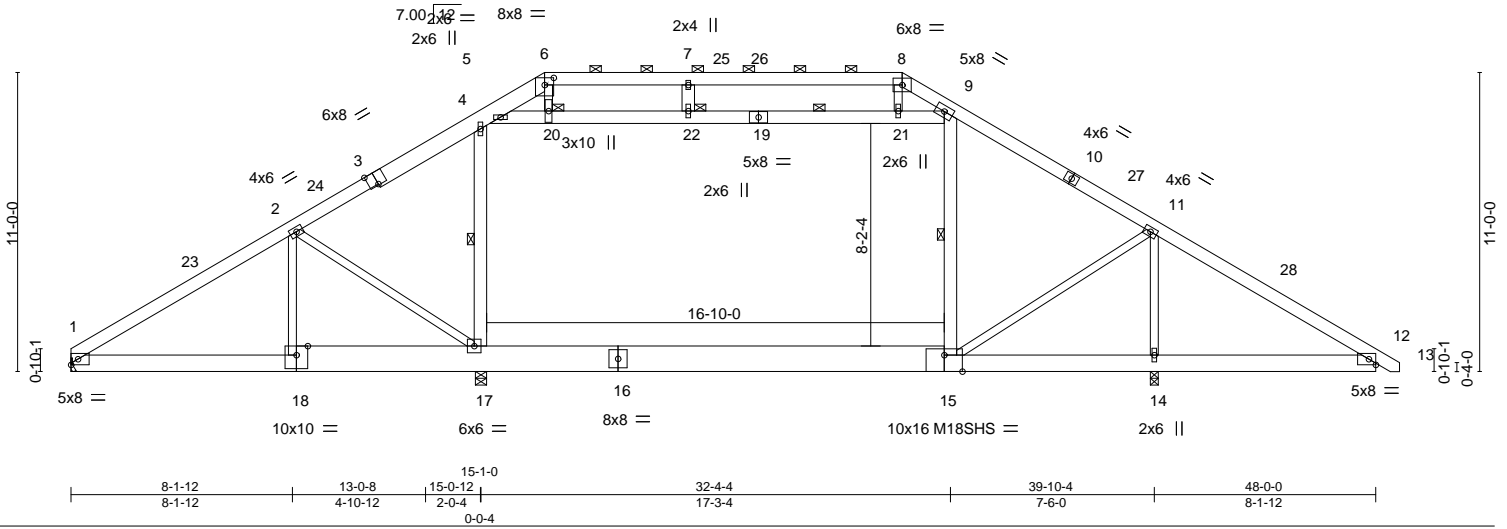


Plate Offsets (X,Y)-- [3:0-4-0,Edge], [6:0-4-0,0-3-3], [15:0-8-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.45	Vert(LL)	-0.28	15-17	>999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.94	Vert(CT)	-0.42	15-17	>707	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.97	Horz(CT)	0.02	14	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.01	15	>999		
							Weight: 444 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 3-6: 2x8 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-9-2 oc purlins, except 2-0-0 oc purlins (5-5-11 max.): 6-8.
BOT CHORD 2x8 SP No.1 *Except* 15-16,16-18: 2x12 SP No.1	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 9-15,9-19,4-17,7-22,5-19: 2x6 SP No.1	WEBS 1 Row at midpt 9-15, 9-22, 4-17
	JOINTS 1 Brace at Jt(s): 20, 22

REACTIONS. (size) 1=Mechanical, 17=0-4-15, 14=0-3-8
 Max Horz 1=252(LC 11)
 Max Grav 1=1041(LC 21), 17=1831(LC 20), 14=2540(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1625/0, 2-4=-1538/0, 4-5=-1340/13, 5-6=-1694/321, 6-7=-1488/287,
 7-8=-1486/287, 8-9=-1620/310, 9-11=-1500/0, 11-12=-467/696
 BOT CHORD 1-18=0/1316, 17-18=0/1314, 15-17=0/1215, 14-15=-482/485, 12-14=-482/484
 WEBS 2-18=-331/179, 2-17=-494/312, 11-14=-2465/311, 9-15=-461/367, 11-15=0/1907,
 5-20=-396/639, 20-22=-396/696, 21-22=-396/696, 9-21=-410/628, 6-20=-61/507,
 8-21=0/392, 4-17=-572/333

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; 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(2) 0-1-4 to 4-10-14, Interior(1) 4-10-14 to 17-5-1, Exterior(2) 17-5-1 to 24-2-8, Interior(1) 24-2-8 to 30-6-15, Exterior(2) 30-6-15 to 37-4-6, Interior(1) 37-4-6 to 48-8-8 zone; cantilever 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.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 4-5, 5-20, 20-22, 21-22, 9-21; Wall dead load (5.0psf) on member(s).9-15, 4-17
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-17
 - Refer to girder(s) for truss to truss connections.
 - 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.



December 16, 2020

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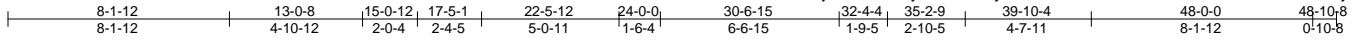
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218177
J0920-4155	A7	ROOF TRUSS	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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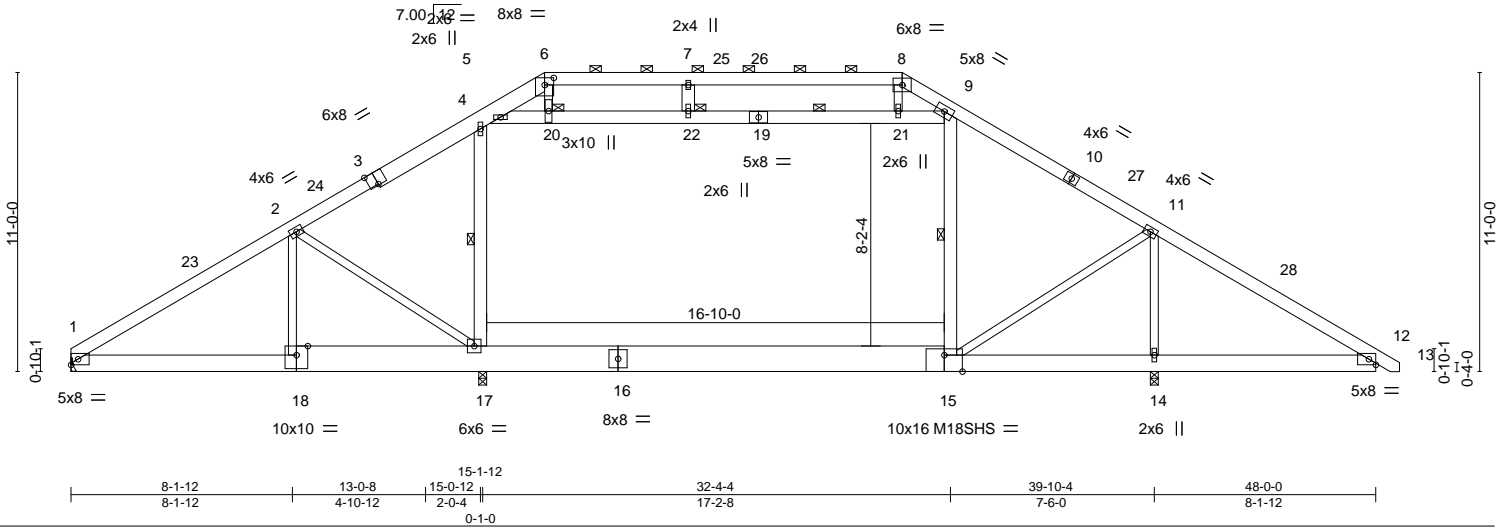


Plate Offsets (X,Y)-- [3:0-4-0,Edge], [6:0-4-0,0-3-3], [15:0-8-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.45	Vert(LL) -0.28	15-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.94	Vert(CT) -0.42	15-17	>707	240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.97	Horz(CT) 0.02	14	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.01	15	>999	240		
							Weight: 444 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*
3-6: 2x8 SP No.1
BOT CHORD 2x8 SP No.1 *Except*
15-16,16-18: 2x12 SP No.1
WEBS 2x4 SP No.2 *Except*
9-15,9-19,4-17,7-22,5-19: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-2 oc purlins, except 2-0-0 oc purlins (5-5-11 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 9-15, 9-22, 4-17
JOINTS 1 Brace at Jt(s): 20, 22

REACTIONS.

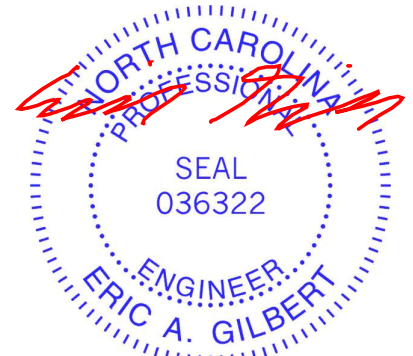
(size) 1=Mechanical, 17=0-3-8, 14=0-3-8
Max Horz 1=252(LC 11)
Max Grav 1=1041(LC 21), 17=1831(LC 20), 14=2540(LC 27)

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

TOP CHORD 1-2=-1625/0, 2-4=-1538/0, 4-5=-1340/13, 5-6=-1694/321, 6-7=-1488/287,
7-8=-1486/287, 8-9=-1620/310, 9-11=-1500/0, 11-12=-467/696
BOT CHORD 1-18=0/1316, 17-18=0/1314, 15-17=0/1215, 14-15=-482/485, 12-14=-482/484
WEBS 2-18=-331/179, 2-17=-494/312, 11-14=-2465/311, 9-15=-461/367, 11-15=0/1907,
5-20=-396/639, 20-22=-396/696, 21-22=-396/696, 9-21=-410/628, 6-20=-61/507,
8-21=0/392, 4-17=-572/333

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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(2) 0-1-4 to 4-10-14, Interior(1) 4-10-14 to 17-5-1, Exterior(2) 17-5-1 to 24-2-8, Interior(1) 24-2-8 to 30-6-15, Exterior(2) 30-6-15 to 37-4-6, Interior(1) 37-4-6 to 48-8-8 zone; cantilever 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.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 5-20, 20-22, 21-22, 9-21; Wall dead load (5.0psf) on member(s).9-15, 4-17
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-17
- Refer to girder(s) for truss to truss connections.
- 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.



December 16, 2020

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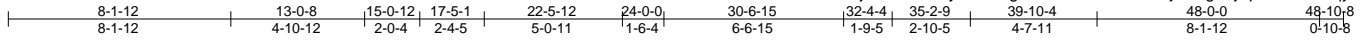
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218178
J0920-4155	A8	ROOF TRUSS	4	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:31:55 2020 Page 1

ID:mHVptvPrIWfejLZnULY80lyxYfs-Egl0A4BdFN1v171CeJtJdageTJBp7V2N66hfqy8Q42



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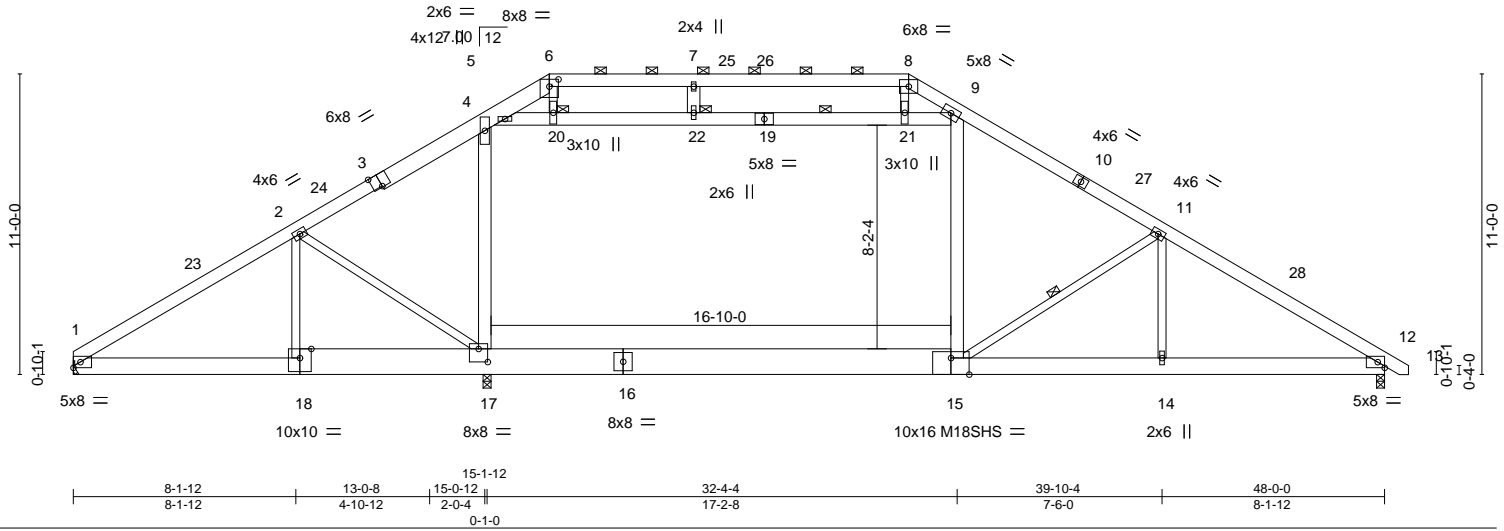


Plate Offsets (X,Y)-- [3:0-4-0,Edge], [6:0-4-0,0-3-3], [15:0-8-0,Edge], [17:0-4-0,0-5-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.30	15-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.82	Vert(CT) -0.53	15-17	>743	240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.75	Horz(CT) 0.08	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.10	14-15	>999	240		
							Weight: 444 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*
3-6: 2x8 SP No.1
BOT CHORD 2x8 SP No.1 *Except*
15-16: 2x12 SP No.1, 16-18: 2x12 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
9-15,9-19,4-17,7-22,5-19: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-8-2 oc purlins, except 2-0-0 oc purlins (5-0-13 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 9-7-14 oc bracing.
WEBS 1 Row at midpt 11-15, 9-22
JOINTS 1 Brace at Jt(s): 20, 22

REACTIONS.

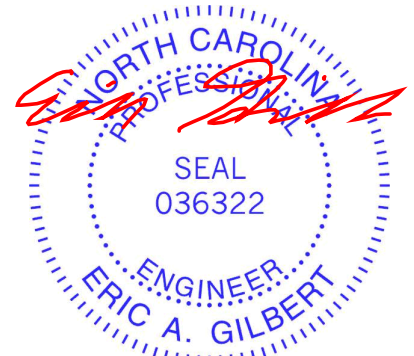
(size) 1=Mechanical, 17=0-3-8, 12=0-3-8
Max Horz 1=252(LC 11)
Max Uplift 17=-149(LC 9)
Max Grav 1=2124(LC 21), 17=987(LC 26), 12=2503(LC 21)

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

TOP CHORD 1-2=-3652/225, 2-4=-3777/144, 4-5=-3036/240, 5-6=-1953/360, 6-7=-1726/324, 7-8=-1723/324, 8-9=-1913/354, 9-11=-3709/135, 11-12=-4172/189
BOT CHORD 1-18=-57/2967, 17-18=-55/2962, 15-17=0/3100, 14-15=-47/3428, 12-14=-47/3427
WEBS 2-18=-481/71, 2-17=-302/414, 11-14=0/324, 9-15=0/1160, 11-15=-642/275, 5-20=-1821/0, 20-22=-1760/0, 21-22=-1760/0, 9-21=-1866/0, 6-20=-76/622, 8-21=-23/585, 4-17=0/1036

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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(2) 0-1-4 to 4-10-14, Interior(1) 4-10-14 to 17-5-1, Exterior(2) 17-5-1 to 24-2-8, Interior(1) 24-2-8 to 30-6-15, Exterior(2) 30-6-15 to 37-4-6, Interior(1) 37-4-6 to 48-8-8 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.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 5-20, 20-22, 21-22, 9-21; Wall dead load (5.0psf) on member(s).9-15, 4-17
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-17
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 149 lb uplift at joint 17.
- 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.



December 16, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218180
J0920-4155	A9GE	ROOF TRUSS	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:31:57 2020 Page 1

ID:mHVptvPrIWfejLZnULY80lyxYfS-A2smamDtn?HdHRBamkLP2f07GPzH1TLqQbokjy8Q40



Scale = 1:84.3

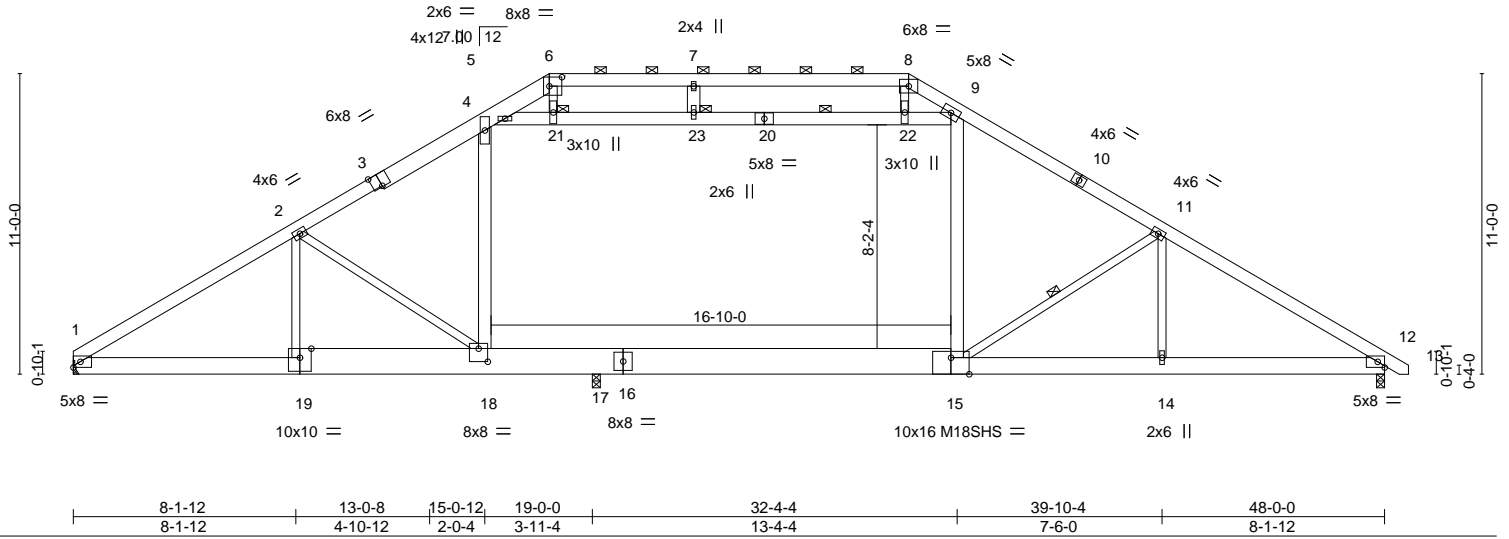


Plate Offsets (X,Y)-- [3:0-4.0,Edge], [6:0-5.8,0-4.0], [15:0-8.0,Edge], [18:0-4.0,0-5-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.29	15-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.80	Vert(CT) -0.51	15-17	>672	240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.72	Horz(CT) 0.08	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.17	14-15	>999	240		
							Weight: 444 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*
3-6: 2x8 SP No.1
BOT CHORD 2x8 SP No.1 *Except*
15-16,16-19: 2x12 SP No.1
WEBS 2x4 SP No.2 *Except*
9-15,9-20,4-18,7-23,5-20: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-13 oc purlins, except
2-0-0 oc purlins (5-1-10 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 9-6-8 oc bracing.
WEBS 1 Row at midpt 11-15, 9-23
JOINTS 1 Brace at Jt(s): 21, 23

REACTIONS.

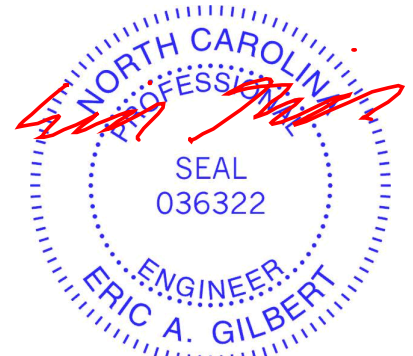
(size) 1=Mechanical, 17=0-3-8, 12=0-3-8
Max Horz 1=315(LC 11)
Max Uplift 1=-64(LC 13), 17=-134(LC 9), 12=-199(LC 13)
Max Grav 1=1985(LC 2), 17=1287(LC 20), 12=2293(LC 21)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3386/409, 2-4=-3254/312, 4-5=-2682/390, 5-6=-1917/451, 6-7=-1683/418,
7-8=-1681/418, 8-9=-1864/460, 9-11=-3251/325, 11-12=-3810/388
BOT CHORD 1-19=-218/2789, 18-19=-216/2789, 17-18=0/2729, 15-17=0/2734, 14-15=-196/3128,
12-14=-196/3127
WEBS 2-18=-565/527, 11-14=0/378, 9-15=0/984, 11-15=-707/359, 5-21=-1658/226,
21-23=-1600/227, 22-23=-1600/227, 9-22=-1682/228, 6-21=-88/641, 8-22=-46/527,
4-18=-116/822

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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 and C-C Corner(3) 0-1-4 to 4-10-14, Exterior(2) 4-10-14 to 17-5-1, Corner(3) 17-5-1 to 22-2-11, Exterior(2) 22-2-11 to 30-6-15, Corner(3) 30-6-15 to 35-4-9, Exterior(2) 35-4-9 to 48-8-8 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.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 5-21, 21-23, 22-23, 9-22; Wall dead load (5.0psf) on member(s). 9-15, 4-18
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 17-18, 15-17
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 1, 134 lb uplift at joint 17 and 199 lb uplift at joint 12.
- 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.



December 16, 2020

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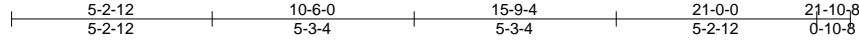


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218181
J0920-4155	B1	QUEENPOST	2	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:31:58 2020 Page 1
ID:mHVptvPrIWfejLZnULY80lyxYfS-eFQ9o6DVYIPUublnJRgaxGCHQgsI0bQU34LLG9y8Q4?



5x5 =

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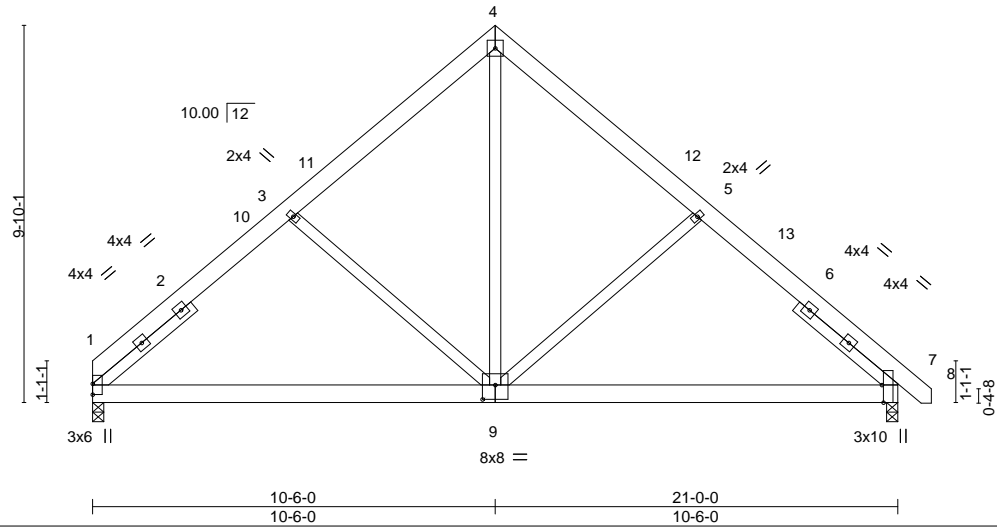


Plate Offsets (X,Y)-- [7:0-5-8,Edge], [9:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.11	Vert(LL) -0.06	1-9	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.35	Vert(CT) -0.12	1-9	>999	240			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.29	Horz(CT) 0.01	7	n/a	n/a			
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.01	9	>999	240			
								Weight: 160 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 7=0-3-8, 1=0-3-8
 Max Horz 1=-224(LC 8)
 Max Uplift 7=-44(LC 13), 1=-34(LC 12)
 Max Grav 7=885(LC 1), 1=839(LC 1)

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

TOP CHORD 1-3=-983/269, 3-4=-796/274, 4-5=-796/270, 5-7=-983/263
 BOT CHORD 1-9=-85/738, 7-9=-79/669
 WEBS 3-9=-329/237, 4-9=-169/676, 5-9=-331/235

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 10-6-0, Exterior(2) 10-6-0 to 14-10-13, Interior(1) 14-10-13 to 21-8-14 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 7 and 34 lb uplift at joint 1.



December 16, 2020

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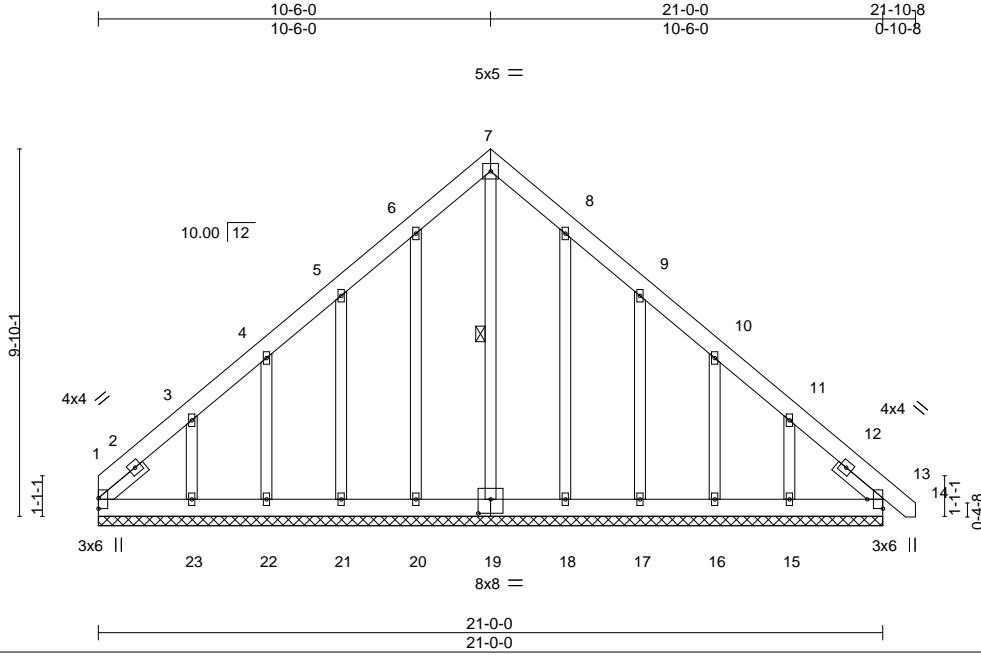


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218182
J0920-4155	B1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:31:59 2020 Page 1
 ID:mHVptvPrIWfejLZnULY80lyxYfS-6R_X?SE7JcXLWkKzt9npUTIT54HOI4zeHk4uoby8Q4_



Scale = 1:61.7

Plate Offsets (X,Y)-- [13:Edge,0-5-0], [19:0-4-0,0-4-8]

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 0.05	Vert(LL)	0.00	13	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	0.00	13	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.00	13	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S							
									Weight: 191 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 OTHERS 2x4 SP No.2
 SLIDER Left 2x4 SP No.2 -H 1-6-10, Right 2x4 SP No.2 -H 1-6-10

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 7-19

REACTIONS. All bearings 21-0-0.
 (lb) - Max Horz 1=-280(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 13, 1, 20, 22, 18, 16 except 21=-127(LC 12), 23=-227(LC 12), 17=-129(LC 13), 15=-211(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 13, 1, 19, 20, 21, 22, 18, 17, 16, 15 except 23=269(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-304/215, 11-13=-250/141

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; 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 and C-C Corner(3) 0-0-0 to 4-6-0, Exterior(2) 4-6-0 to 10-6-0, Corner(3) 10-6-0 to 14-10-13, Exterior(2) 14-10-13 to 21-8-14 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 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 1, 20, 22, 18, 16 except (jt=lb) 21=127, 23=227, 17=129, 15=211.



December 16, 2020

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



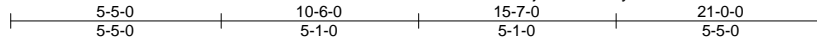
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218183
J0920-4155	B1GR	FINK	1	3	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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ID:mHVptPrIWfejLZnJULY80lyxYfS-adYvDoFm4wfC8uv9RsJ20hHWTUZFUUNnWOqSK2y8Q3z



5x8 ||

Scale = 1:59.3

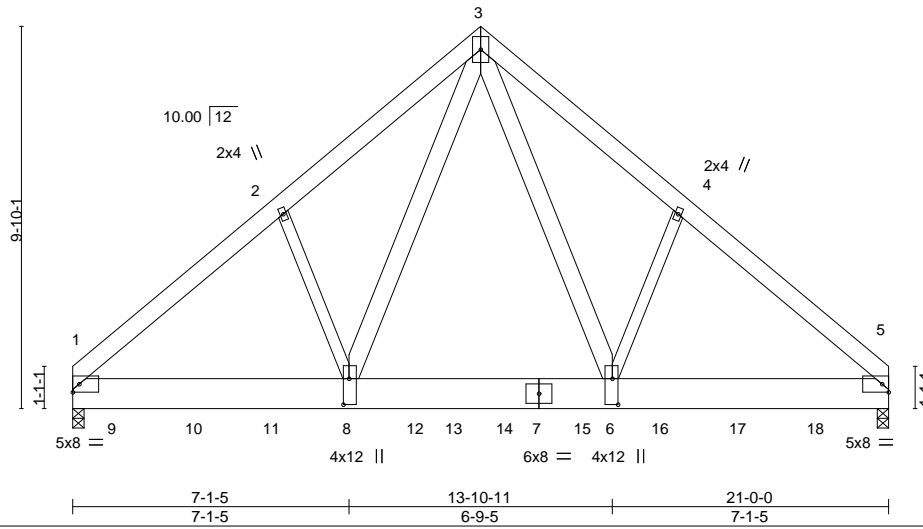


Plate Offsets (X,Y)--	[6:0-8-0,0-1-12], [8:0-8-0,0-1-12]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.52	Vert(LL) -0.06	6-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(CT) -0.13	6-8	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.32	Horz(CT) 0.02	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) -0.00	8	>999	240		
							Weight: 614 lb	FT = 20%

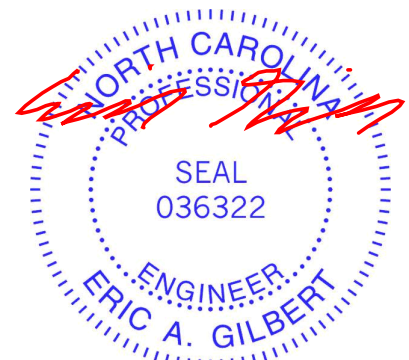
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x10 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except* 2-8,4-6: 2x4 SP No.2	

REACTIONS. (size) 1=0-3-8, 5=0-3-8
 Max Horz 1=-219(LC 25)
 Max Grav 1=8620(LC 2), 5=10003(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-10560/0, 2-3=-10221/0, 3-4=-11050/0, 4-5=-11397/0
 BOT CHORD 1-8=0/7664, 6-8=0/5692, 5-6=0/8292
 WEBS 2-8=-57/585, 3-8=0/6144, 3-6=0/7976, 4-6=-49/608

- NOTES-**
- 3-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: 2x10 - 2 rows staggered at 0-4-0 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 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 831 lb down at 1-0-12, 1005 lb down at 3-0-12, 1005 lb down at 5-0-12, 2075 lb down at 7-0-12, 2075 lb down at 9-0-12, 2075 lb down at 11-0-12, 2075 lb down at 13-0-12, 1963 lb down at 15-0-12, and 1963 lb down at 17-0-12, and 1963 lb down at 19-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-5=-20, 1-3=-60, 3-5=-60



Continued on page 2

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

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218183
J0920-4155	B1GR	FINK	1	3	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:32:00 2020 Page 2
 ID:mHVptvPrfWfejLZnJULY80lyxYfS-adYvDoFm4wfC8uv9RsJ20hHWTUZFUUNnWOqSK2y8Q3z

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 8=-1956(F) 9=-813(F) 10=-950(F) 11=-950(F) 13=-1956(F) 14=-1956(F) 15=-1956(F) 16=-1922(F) 17=-1922(F) 18=-1922(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218184
J0920-4155	C1	COMMON	3	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:32:01 2020 Page 1
 ID:mHVpTvPrIWfejLZnULY80lyxYfS-2p6HQ8GOrDn3l2UM?aqHZuqhGuuVDxaxl2Z?sUy8Q3y

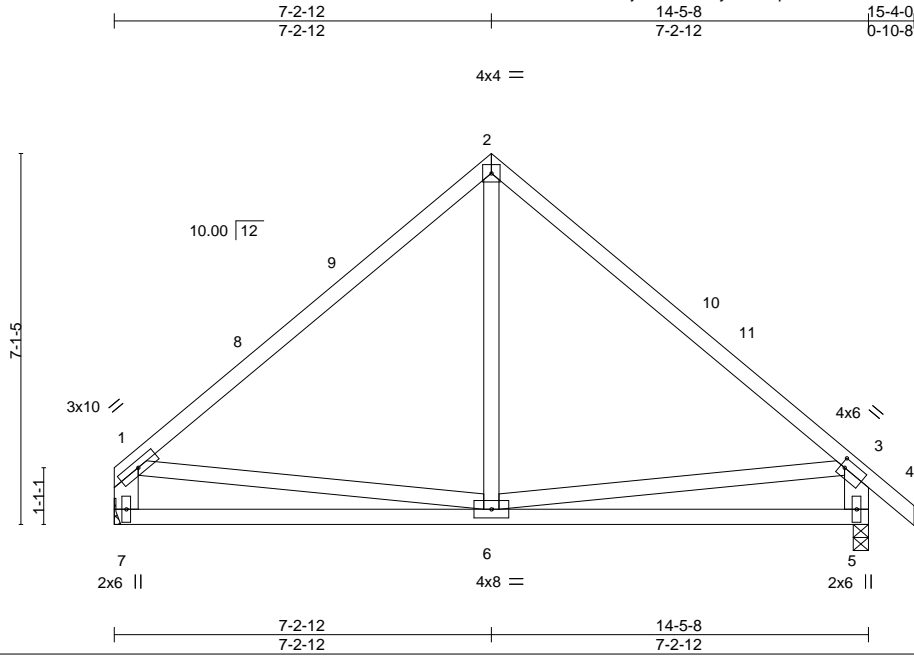


Plate Offsets (X,Y)-- [3:0-1-0-0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.52	Vert(LL) -0.04	5-6	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(CT) -0.08	5-6	>999	240			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.32	Horz(CT) 0.01	5	n/a	n/a			
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09	5-6	>999	240			
								Weight: 85 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.2 *Except*
 1-7,3-5: 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 9-10-14 oc bracing.

REACTIONS.

(size) 7=Mechanical, 5=0-3-8
 Max Horz 7=-155(LC 10)
 Max Uplift 7=-68(LC 9), 5=-72(LC 8)
 Max Grav 7=557(LC 1), 5=629(LC 1)

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

TOP CHORD 1-2=-556/506, 2-3=-567/514, 1-7=-496/416, 3-5=-567/475
 BOT CHORD 6-7=-246/324, 5-6=-360/439
 WEBS 2-6=-409/289, 3-6=-221/286

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; 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(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 7-2-12, Exterior(2) 7-2-12 to 11-7-9, Interior(1) 11-7-9 to 15-4-0 zone; porch left and right 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.



December 16, 2020

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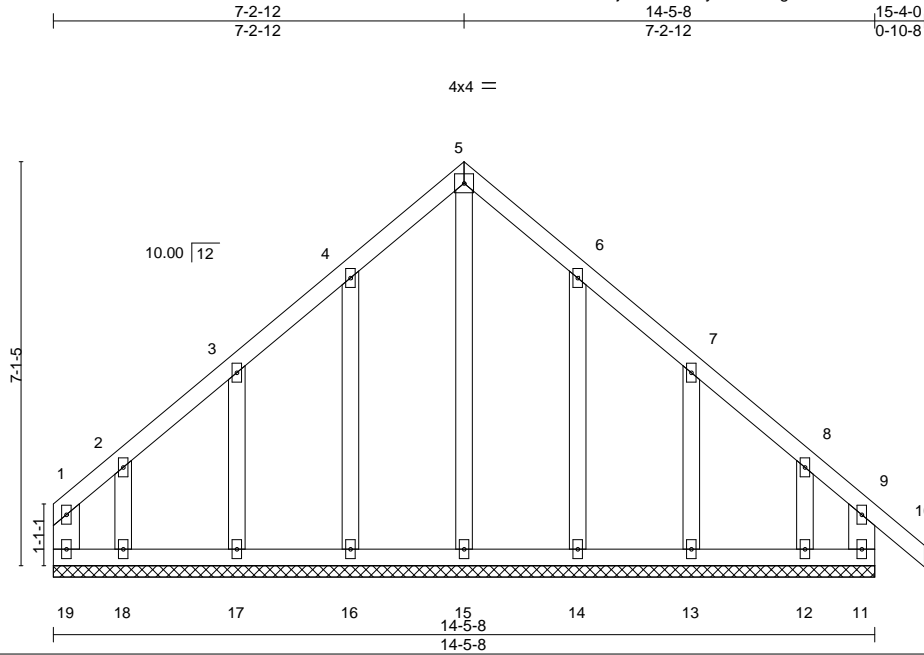
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218185
J0920-4155	C1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:32:02 2020 Page 1

ID:mHVptvPrIWfejLZnULY80lyxYfs-W0gfeTG0cXwwNC3YYHLW66Nz?HHeyR?4_iJZOwy8Q3x



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 0.07	Vert(LL)	-0.00	10	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.00	10	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.00	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						Weight: 94 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.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 6-0-0 oc bracing.

REACTIONS.

All bearings 14-5-8.
 (lb) - Max Horz 19=-193(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) except 19=-163(LC 10), 11=-127(LC 9), 16=-112(LC 12), 17=-105(LC 12), 18=-211(LC 12), 14=-111(LC 13), 13=-106(LC 13), 12=-206(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 19, 11, 15, 16, 17, 18, 14, 13, 12

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-2-12 to 4-7-9, Exterior(2) 4-7-9 to 7-2-12, Corner(3) 7-2-12 to 11-7-9, Exterior(2) 11-7-9 to 15-4-0 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.
- Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 19, 127 lb uplift at joint 11, 112 lb uplift at joint 16, 105 lb uplift at joint 17, 211 lb uplift at joint 18, 111 lb uplift at joint 14, 106 lb uplift at joint 13 and 206 lb uplift at joint 12.



December 16, 2020

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218186
J0920-4155	M1GR	MONOPITCH GIRDER	1	2	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:32:02 2020 Page 1
ID:mHVptvPrIWfejLZnULY80lyxYfS-W0gfeTG0cXwwNC3YYHLW66NzwHEQySH4_jJZOwy8Q3x



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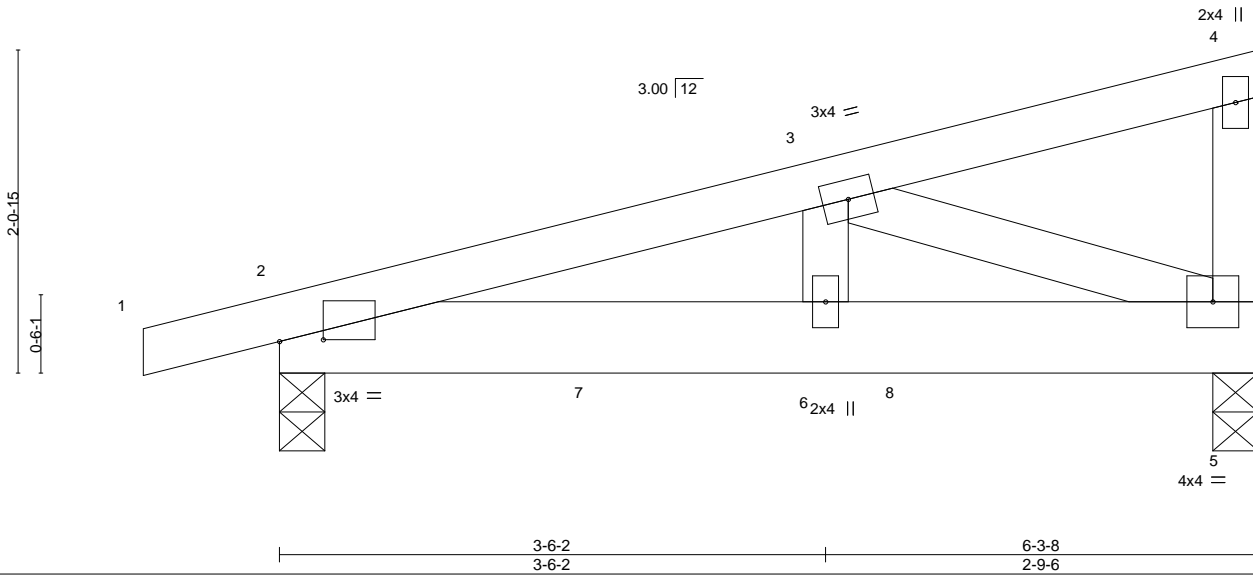


Plate Offsets (X,Y)--	[2:0-3-6,0-0-2]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL) -0.01	2-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.27	Vert(CT) -0.02	2-6	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.10	Horz(CT) 0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.01	2-6	>999	240	Weight: 65 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 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	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 5=0-3-8, 2=0-3-8
 Max Horz 2=59(LC 19)
 Max Uplift 5=-215(LC 4), 2=-184(LC 4)
 Max Grav 5=1303(LC 1), 2=859(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1589/249
 BOT CHORD 2-6=-270/1494, 5-6=-270/1494
 WEBS 3-6=-114/838, 3-5=-1598/289

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 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.
 - Wind: ASCE 7-10; 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 and right exposed; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 215 lb uplift at joint 5 and 184 lb uplift at joint 2.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 537 lb down and 88 lb up at 2-0-12, and 537 lb down and 88 lb up at 4-0-12, and 545 lb down and 80 lb up at 6-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-60, 2-5=-20
 Concentrated Loads (lb)
 Vert: 5=-545(F) 7=-537(F) 8=-537(F)

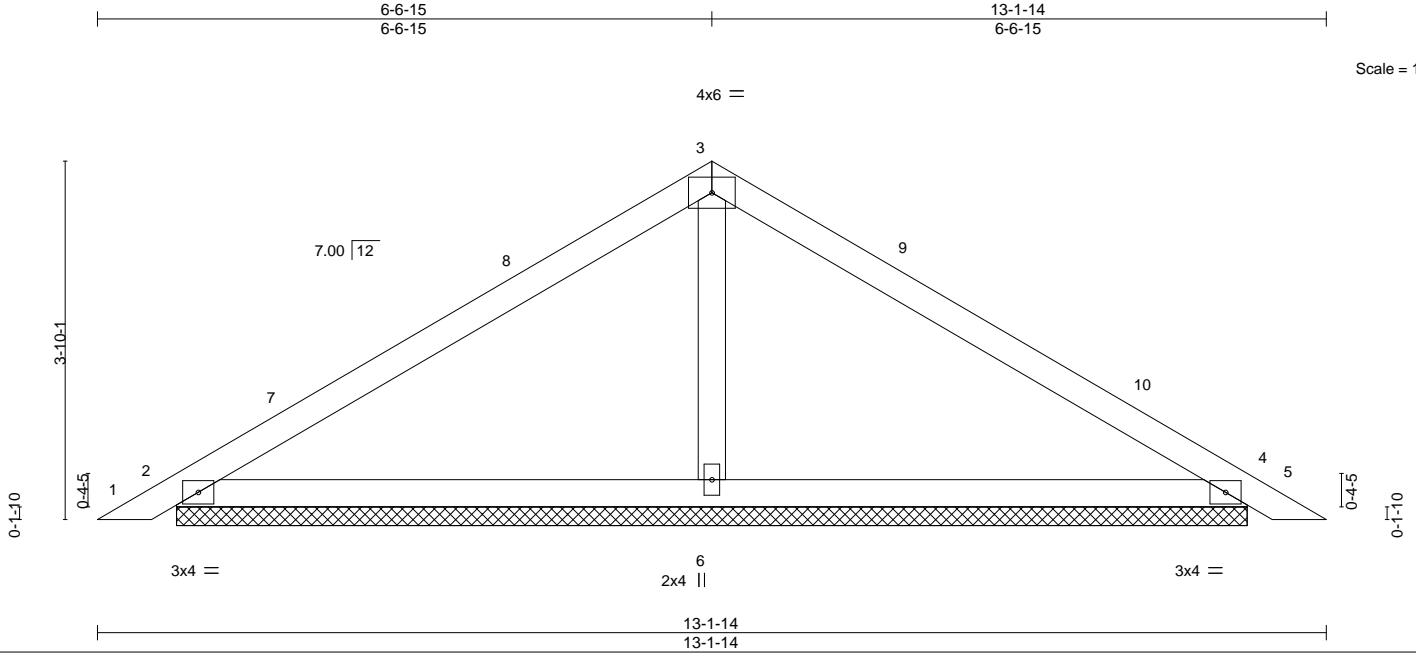


December 16, 2020

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218187
J0920-4155	PB	PIGGYBACK	22	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:32:03 2020 Page 1
ID:mHVptvPrIWfejLZnULY80lyxYfS-?CE2rpHeMr2n?Mek6?slEjv4fhhEhV6DCM26wNy8Q3w



Scale = 1:24.7

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 0.24	Vert(LL) 0.02 5 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(CT) 0.03 5 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 4 n/a n/a		
	Code IRC2015/TPI2014			Weight: 44 lb	FT = 20%

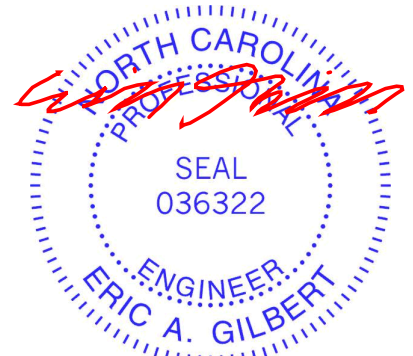
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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) 2=11-5-9, 4=11-5-9, 6=11-5-9
Max Horz 2=-88(LC 10)
Max Uplift 2=-36(LC 12), 4=-45(LC 13)
Max Grav 2=253(LC 1), 4=253(LC 1), 6=478(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-303/127

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; 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(2) 0-3-8 to 4-8-4, Interior(1) 4-8-4 to 6-6-15, Exterior(2) 6-6-15 to 10-11-12, Interior(1) 10-11-12 to 12-10-6 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 2 and 45 lb uplift at joint 4.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



December 16, 2020

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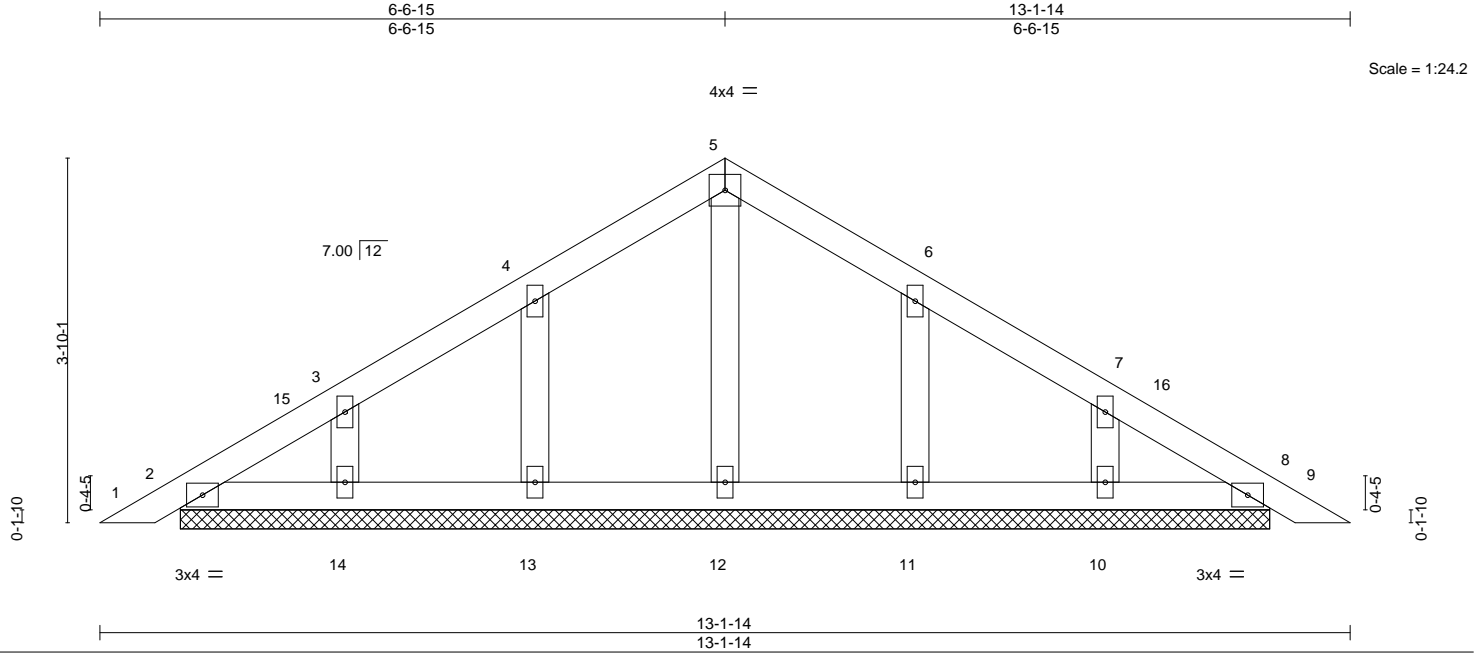
ENGINEERING BY
TRENCO
A MiTek Affiliate

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218188
J0920-4155	PBGE	GABLE	2	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:32:04 2020 Page 1
ID:mHVptvPrIWfejLZnULY80lyxYfS-TOoQ29IG78AdcWDxgiN_BXSJ45_sQN4NR0ofTpy8Q3v



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 0.03	Vert(LL)	0.00	8	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	8	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	8	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S						Weight: 53 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 11-5-9.
(lb) - Max Horz 2=-110(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-3-8 to 4-6-15, Interior(1) 4-6-15 to 6-6-15, Exterior(2) 6-6-15 to 10-11-12, Interior(1) 10-11-12 to 12-10-6 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 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



December 16, 2020

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218189
J0920-4155	VB1	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:32:05 2020 Page 1
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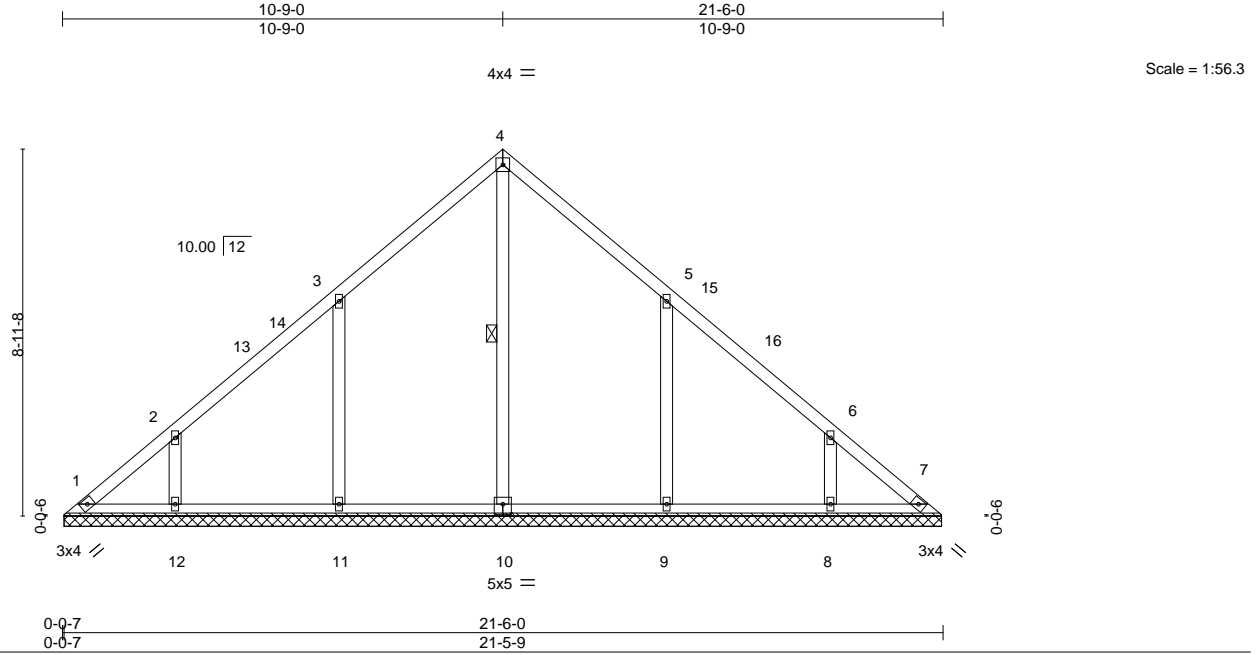


Plate Offsets (X,Y)-- [5:0-0-0,0-0-0], [6:0-0-0,0-0-0], [10:0-2-8,0-3-0]

LOADING (psf)	SPACING-	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	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.19	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.17	Horz(CT) 0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/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 4-10

REACTIONS.

All bearings 21-5-2.
(lb) - Max Horz 1=207(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 11=140(LC 12), 12=108(LC 12), 9=140(LC 13), 8=108(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=446(LC 22), 11=472(LC 19), 12=295(LC 19), 9=471(LC 20), 8=295(LC 20)

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

WEBS 3-11=-356/253, 2-12=-284/214, 5-9=-356/253, 6-8=-284/214

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 10-9-0, Exterior(2) 10-9-0 to 15-1-13, Interior(1) 15-1-13 to 21-1-3 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 11=140, 12=108, 9=140, 8=108.



December 16, 2020

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218190
J0920-4155	VB2	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:32:06 2020 Page 1
ID:mHVPTvPrIWfejLZnULY80lyxYfS-PnvATrJWfmQLspNjn7PSGyXdgvekuFbguKHmXhy8Q3t

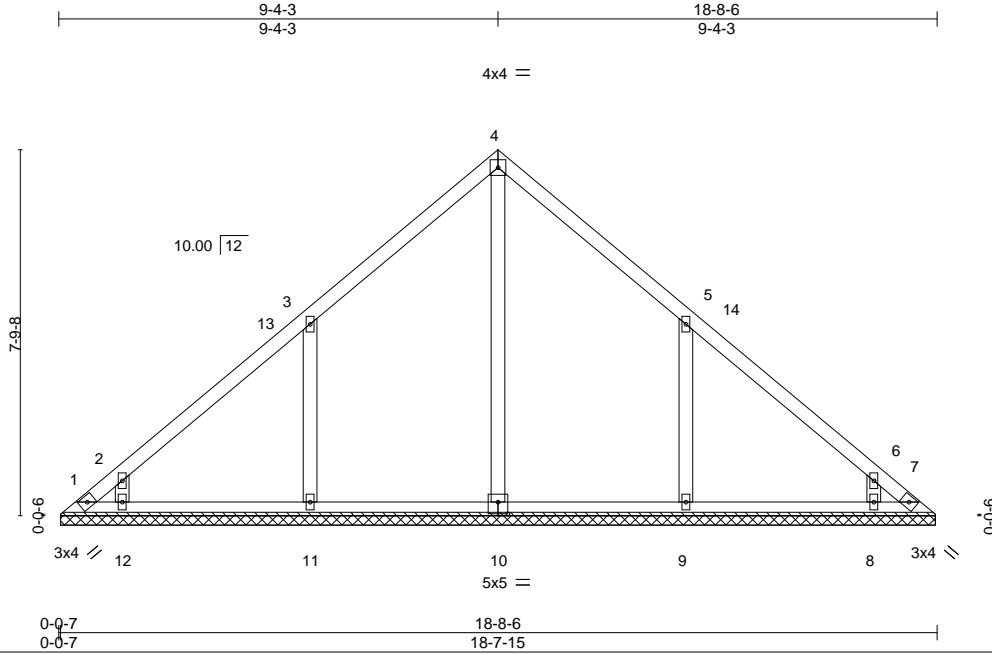


Plate Offsets (X,Y)-- [5:0-0-0,0-0-0], [6:0-0-0,0-0-0], [10:0-2-8,0-3-0]

LOADING (psf)	SPACING-	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	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.19	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT) 0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 86 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 18-7-8.
(lb) - Max Horz 1=179(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 7 except 1=124(LC 10), 11=141(LC 12), 12=104(LC 12), 9=141(LC 13), 8=104(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=434(LC 22), 11=474(LC 19), 12=279(LC 19), 9=474(LC 20), 8=279(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-11=-356/255, 2-12=-288/233, 5-9=-356/254, 6-8=-288/234

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; 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(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 9-4-3, Exterior(2) 9-4-3 to 13-9-0, Interior(1) 13-9-0 to 18-3-9 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 where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 1=124, 11=141, 12=104, 9=141, 8=104.



December 16, 2020

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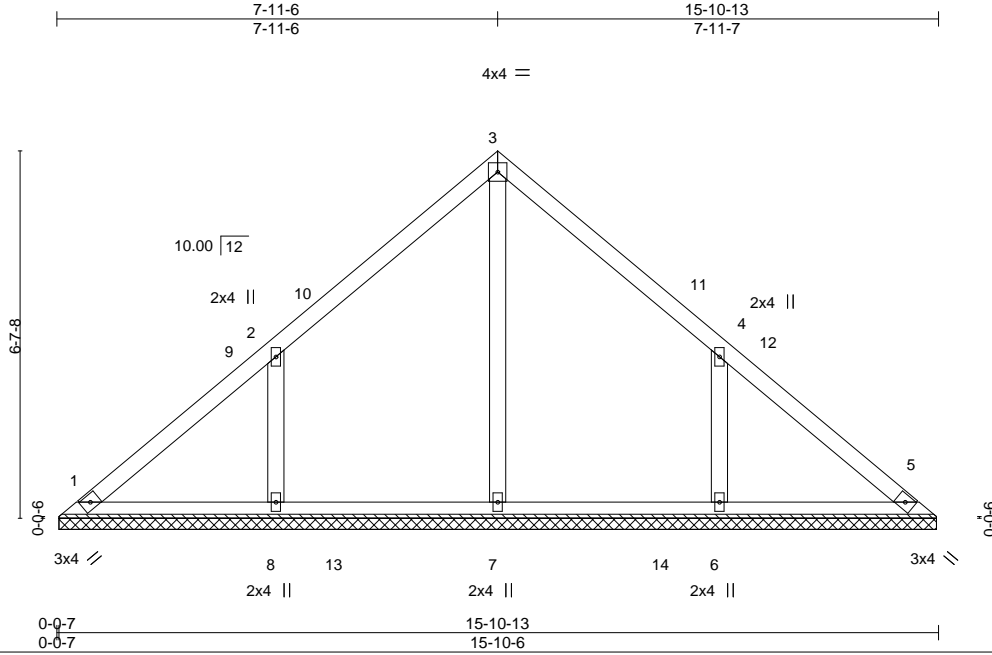
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218191
J0920-4155	VB3	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:32:07 2020 Page 1
 ID:mHVpTvPrWfeJLZnULY80lyxYfS-tzTYhBK9Q3YCUzyVLqxo94oQI_DdjWp7_0K38y8Q3s



Scale = 1:41.6

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

LOADING (psf)	SPACING-	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	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 70 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 15-9-15.
 (lb) - Max Horz 1=151(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=144(LC 12), 6=144(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=412(LC 19), 8=437(LC 19), 6=437(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-360/256, 4-6=-360/256

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; 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(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 7-11-6, Exterior(2) 7-11-6 to 12-4-3, Interior(1) 12-4-3 to 15-6-0 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 bracing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=144, 6=144.



December 16, 2020

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218192
J0920-4155	VB4	VALLEY	1	1	Job Reference (optional)	

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8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:32:07 2020 Page 1
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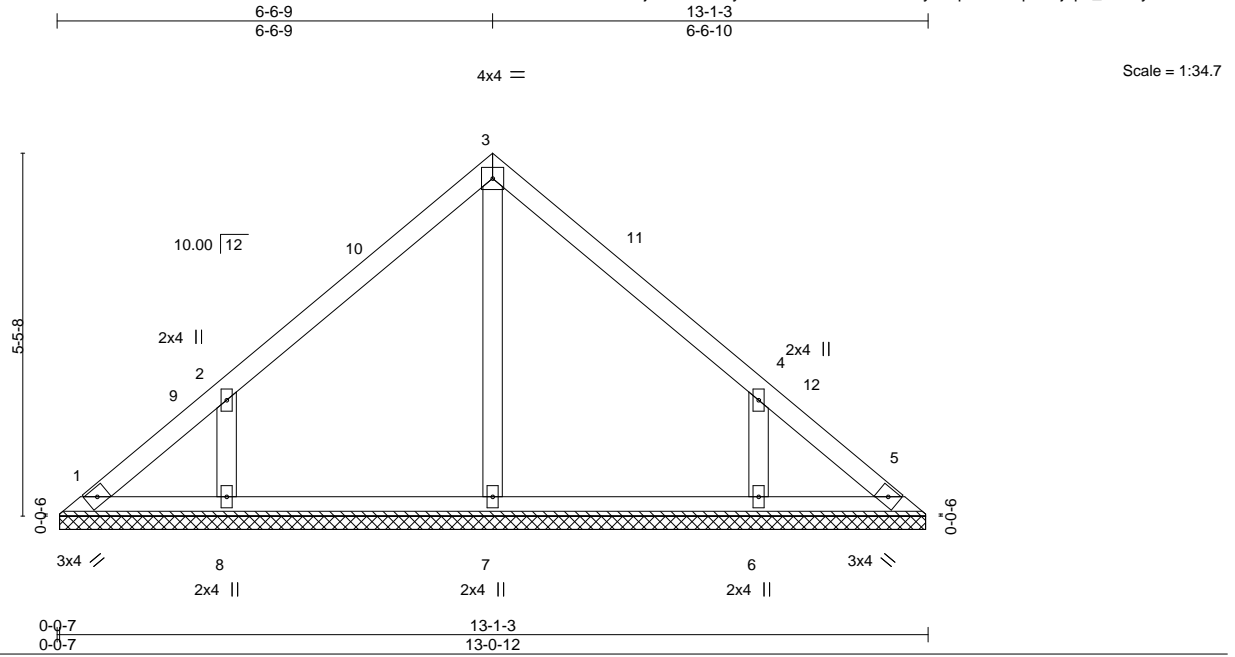


Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.13	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 0.07	Horz(CT) 0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 55 lb	FT = 20%

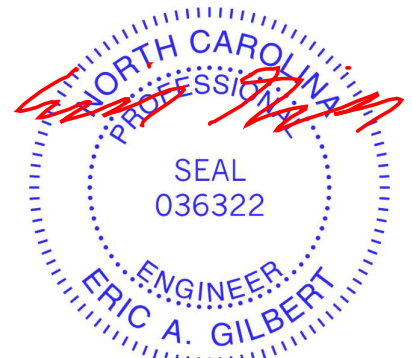
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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 13-0-5.
(lb) - Max Horz 1=123(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=125(LC 12), 6=125(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=332(LC 19), 6=332(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-315/239, 4-6=-315/239

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; 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(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 6-6-9, Exterior(2) 6-6-9 to 10-11-6, Interior(1) 10-11-6 to 12-8-6 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=125, 6=125.



December 16, 2020

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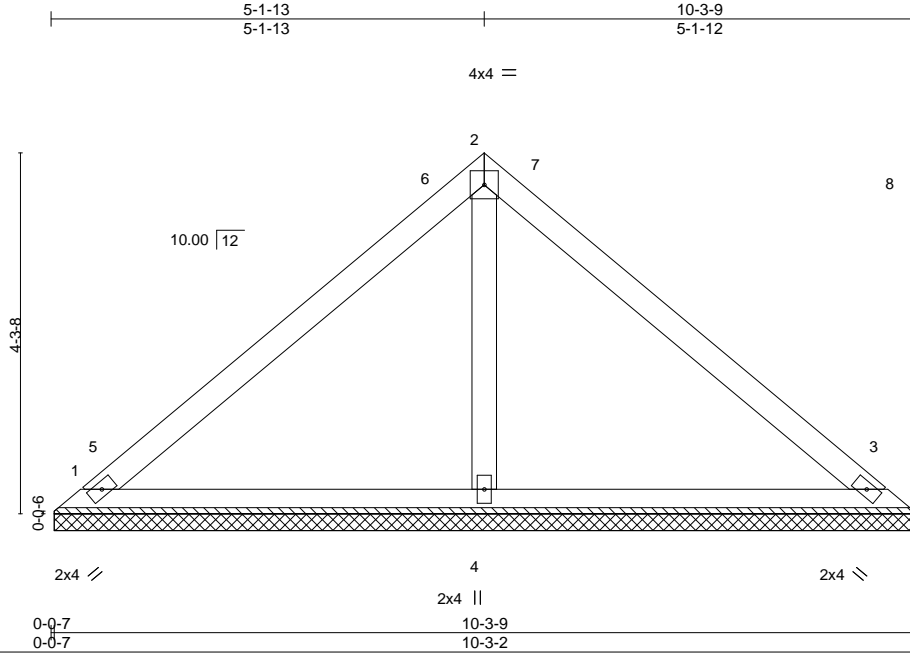
ENGINEERING BY
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A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218193
J0920-4155	VB5	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:32:08 2020 Page 1
ID:mHVpTvPrIWfejLZnULY80lyxYfS-LA1xuXLnBNg357WivYSwLNcyviJWMASzMentcay8Q3r



Scale = 1:27.4

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.24	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.17	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 3 n/a n/a	Weight: 39 lb	FT = 20%
	Code IRC2015/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.

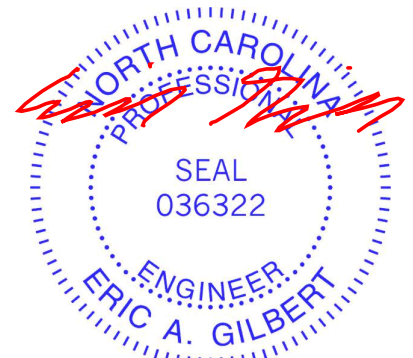
REACTIONS.

(size) 1=10-2-11, 3=10-2-11, 4=10-2-11
Max Horz 1=-95(LC 8)
Max Uplift 1=-22(LC 13), 3=-31(LC 13)
Max Grav 1=203(LC 1), 3=203(LC 1), 4=354(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 7-10; 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(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 5-1-13, Exterior(2) 5-1-13 to 9-6-9, Interior(1) 9-6-9 to 9-10-12 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



December 16, 2020

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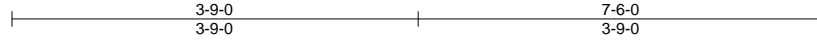


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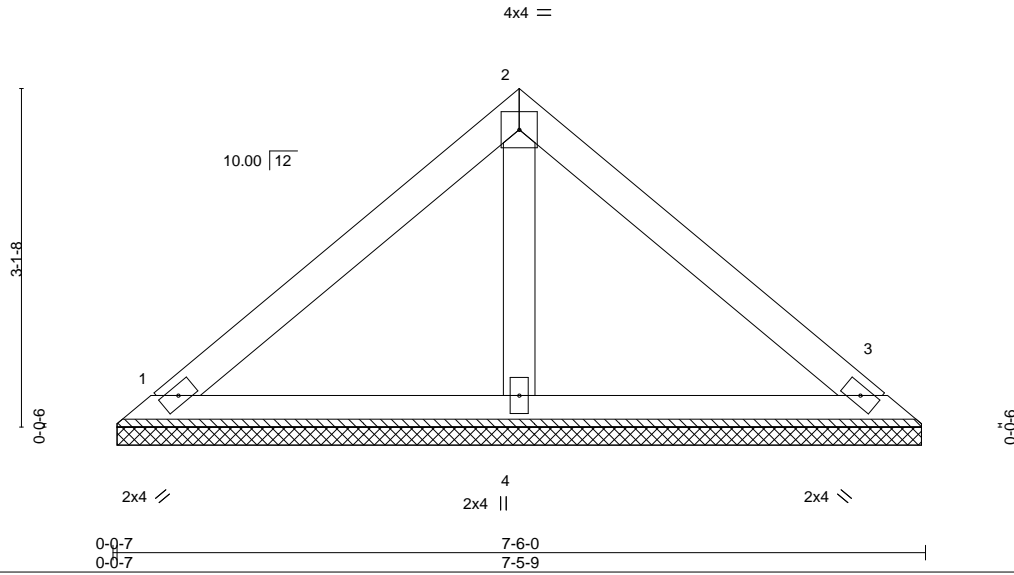
Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218194
J0920-4155	VB6	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:32:09 2020 Page 1
ID:mHVPtVPrIWfejLZnULY80lyxYfS-pMbj6tMPyhowjH5uTFz9ua98p6g25dF6bHVQ80y8Q3q



Scale = 1:21.3



LOADING (psf)	SPACING-	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	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P						Weight: 28 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=7-5-2, 3=7-5-2, 4=7-5-2
Max Horz 1=-67(LC 8)
Max Uplift 1=-23(LC 13), 3=-29(LC 13)
Max Grav 1=155(LC 1), 3=155(LC 1), 4=226(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 7-10; 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(2) 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



December 16, 2020

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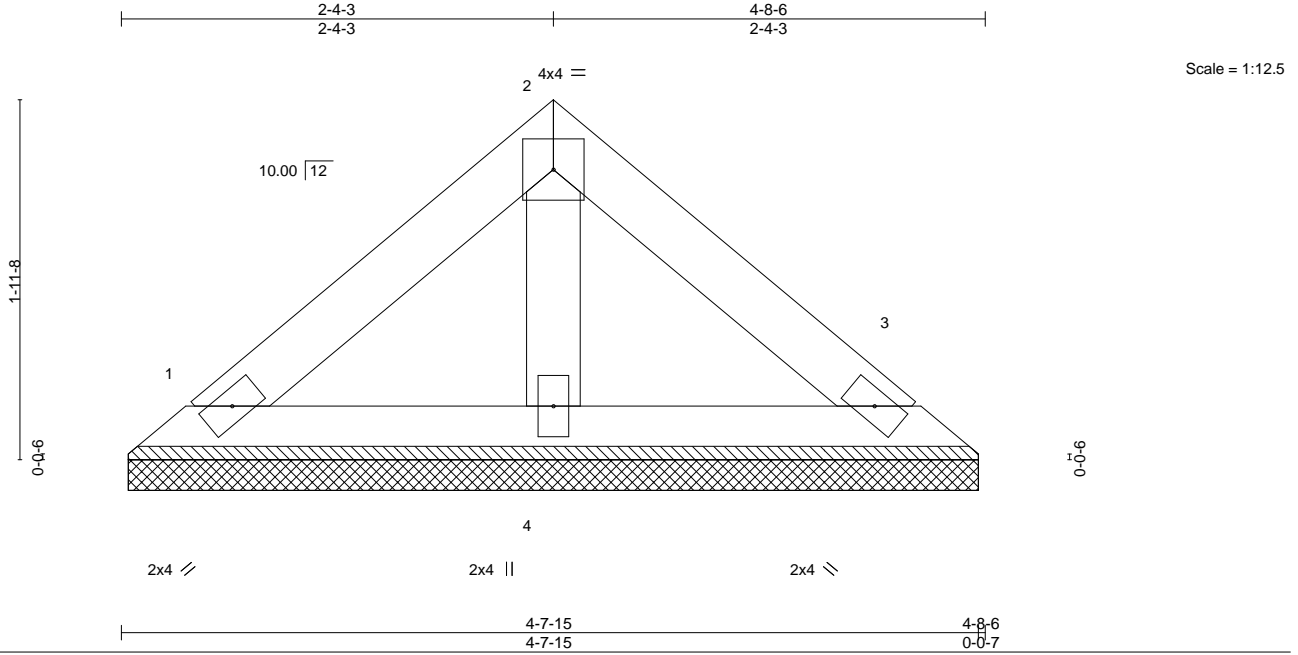
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218195
J0920-4155	VB7	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:32:09 2020 Page 1

ID:mHVpTvPrIWfejLZnJLY80lyxYfS-pMbJ6tMPyhowjH5uTFz9ua9AY6hv5dS6bHVQ80y8Q3q



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.05	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a	Weight: 16 lb	FT = 20%
	Code IRC2015/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 4-8-6 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=4-7-8, 3=4-7-8, 4=4-7-8
 Max Horz 1=-39(LC 8)
 Max Uplift 1=-14(LC 13), 3=-17(LC 13)
 Max Grav 1=90(LC 1), 3=90(LC 1), 4=131(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 7-10; 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(2) 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



December 16, 2020

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218196
J0920-4155	VC1	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:32:10 2020 Page 1
 ID:mHVPtPrWfeJLznULY80lyxYfS-IY9hJDN1j_wnLRg40zUOQoiJ4W0Aq4uFpxF_gTy8Q3p

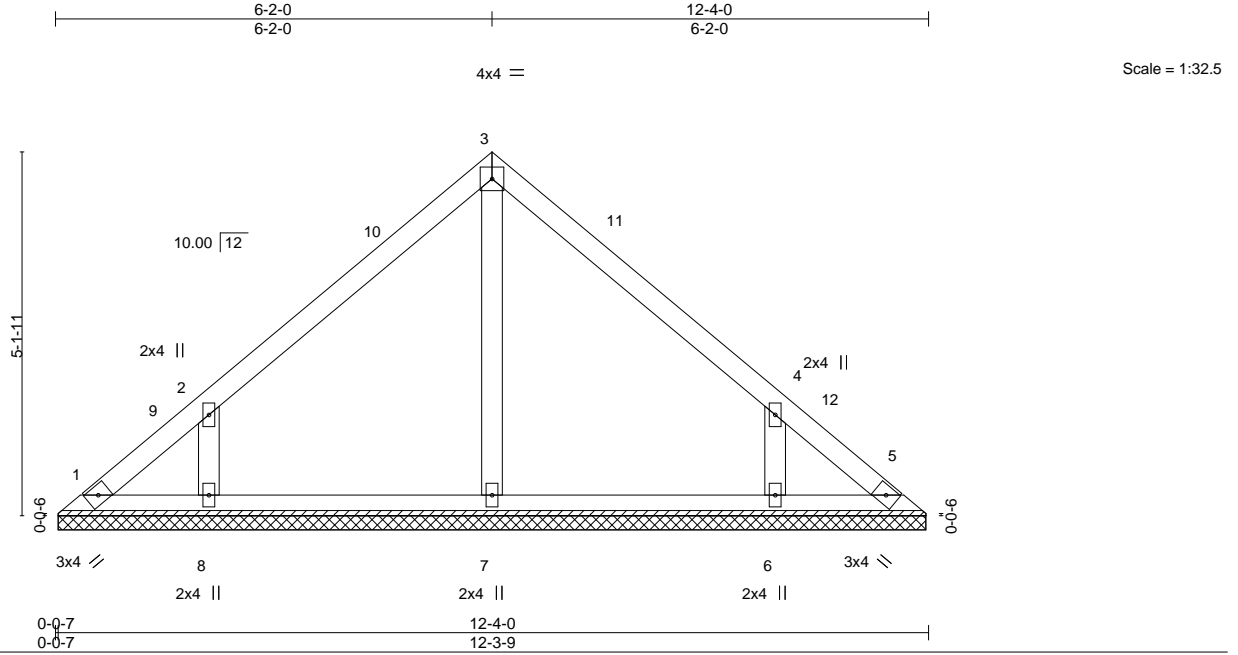


Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.13	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 0.06	Horz(CT) 0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 51 lb	FT = 20%

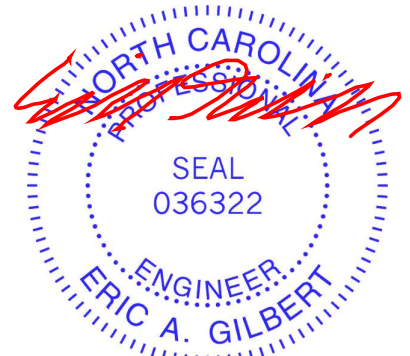
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.2

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 12-3-1.
 (lb) - Max Horz 1=115(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=123(LC 12), 6=123(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=325(LC 19), 6=325(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-312/242, 4-6=-312/242

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; 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(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 6-2-0, Exterior(2) 6-2-0 to 10-6-13, Interior(1) 10-6-13 to 11-11-3 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 where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=123, 6=123.
 - Non Standard bearing condition. Review required.



December 16, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



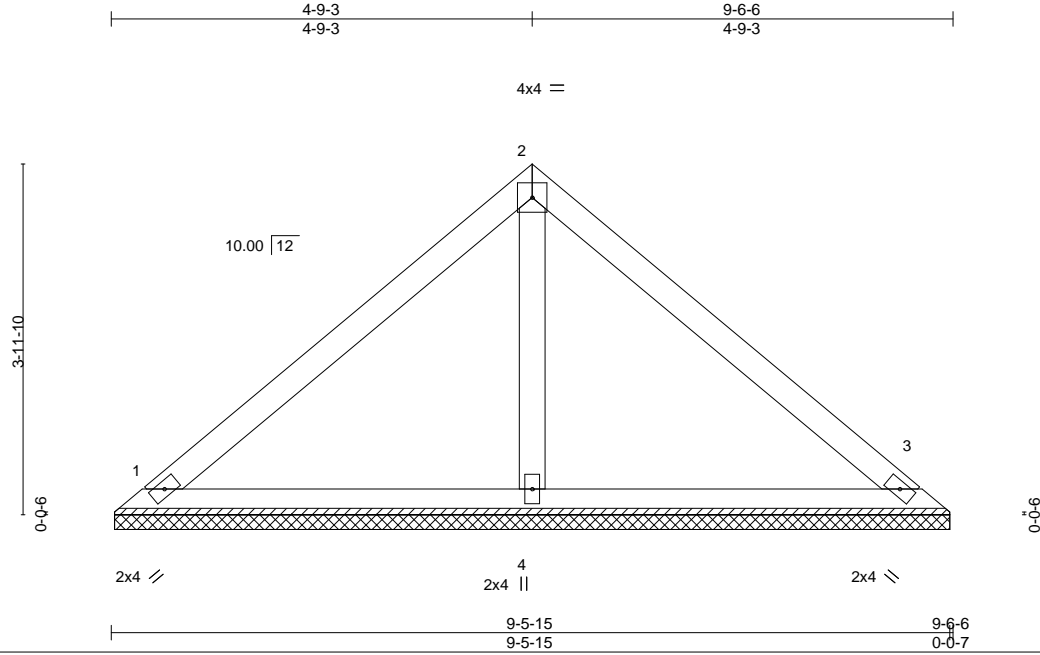
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218197
J0920-4155	VC2	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:32:11 2020 Page 1

ID:mHVptvPrIwfejLZnULY80lyxYfS-mlj3WYNfUI2eyaFHag?dz?ETmwLcZXOP2b_XCvy8Q3o



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 0.14	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 3 n/a n/a	Weight: 36 lb	FT = 20%
	Code IRC2015/TPI2014				

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

REACTIONS. (size) 1=9-5-8, 3=9-5-8, 4=9-5-8
 Max Horz 1=-87(LC 8)
 Max Uplift 1=-20(LC 13), 3=-28(LC 13)
 Max Grav 1=186(LC 1), 3=186(LC 1), 4=325(LC 1)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; 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
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



December 16, 2020

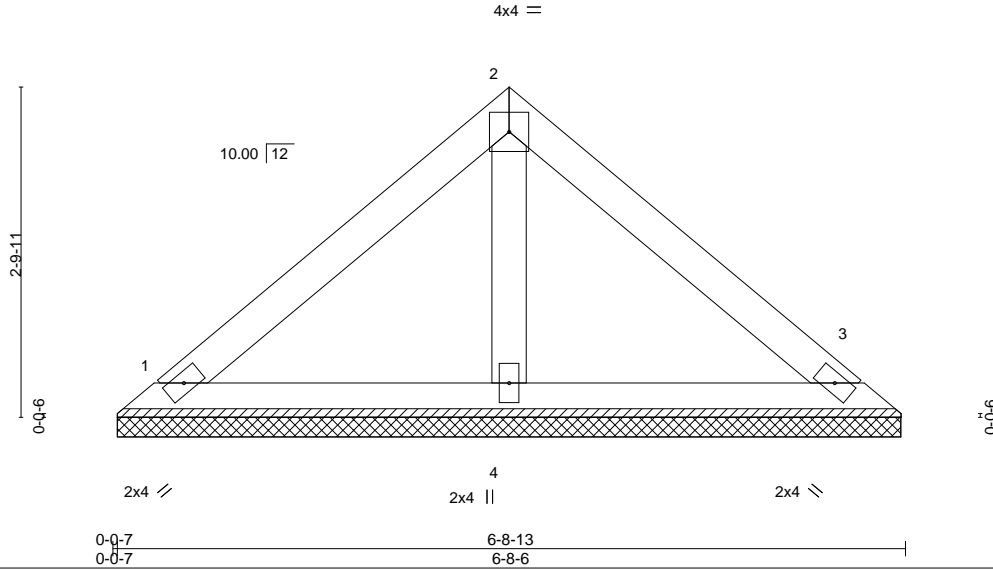
Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218198
J0920-4155	VC3	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:32:11 2020 Page 1
 ID:mHVptvPr1WfejLZnULY80lyxYfS-mlj3WYNfUI2eyaFHag?dz?EVuwMoZXqP2b_XCvy8Q3o



Scale = 1:19.6



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.07	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 25 lb	FT = 20%
	Code IRC2015/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.

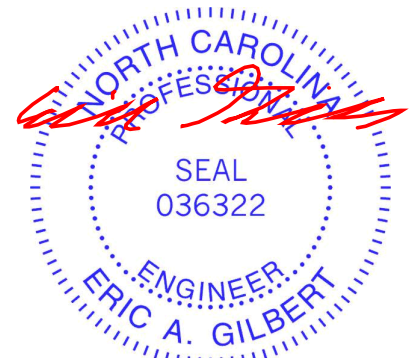
REACTIONS.

(size) 1=6-7-14, 3=6-7-14, 4=6-7-14
 Max Horz 1=59(LC 11)
 Max Uplift 1=-21(LC 13), 3=-26(LC 13)
 Max Grav 1=137(LC 1), 3=137(LC 1), 4=200(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 7-10; 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(2) 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- Non Standard bearing condition. Review required.



December 16, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

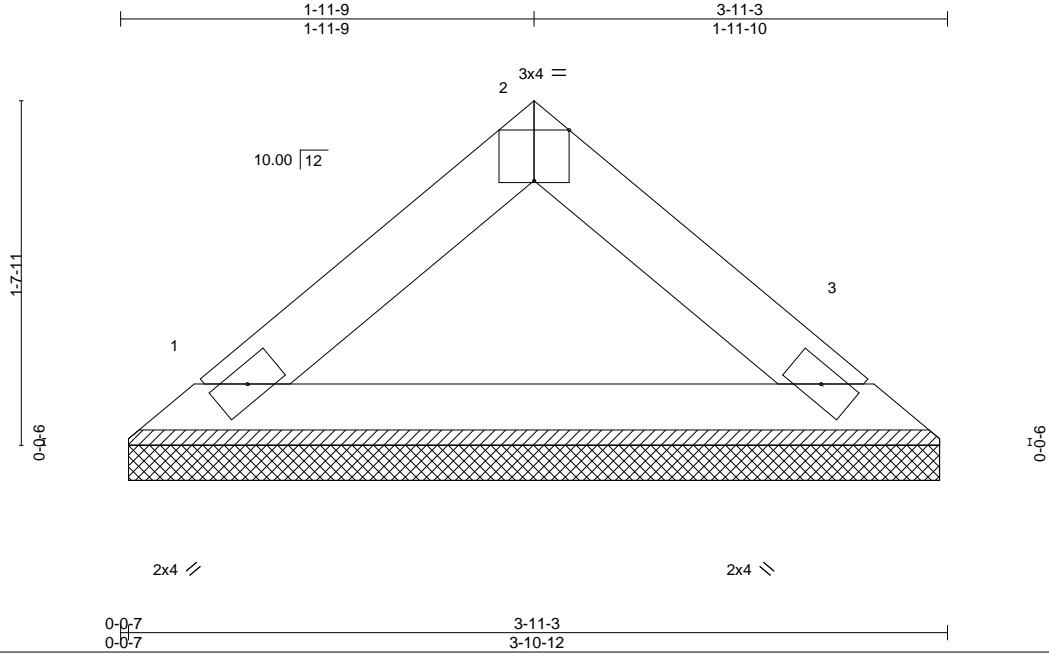


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Westan/Lot 39 Fairwinds/Johnston	E15218199
J0920-4155	VC4	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Dec 16 10:32:12 2020 Page 1
 ID:mHVpTvPrIWfejLZnULY80lyxYfS-ExGRkuOHFcAVakqT8OWsVDnh5Jijl_LYHFk4Ly8Q3n



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.03	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 0.00	Horz(CT) 0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P					Weight: 12 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-11-3 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-10-5, 3=3-10-5
 Max Horz 1=-31(LC 8)
 Max Uplift 1=-5(LC 12), 3=-5(LC 13)
 Max Grav 1=125(LC 1), 3=125(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 7-10; 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(2) 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



December 16, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

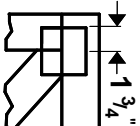
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
 A MiTek Affiliate

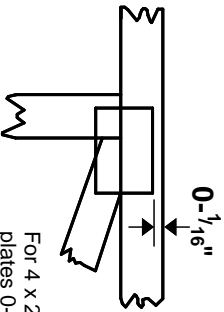
818 Soundside Road
 Edenton, NC 27932

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 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



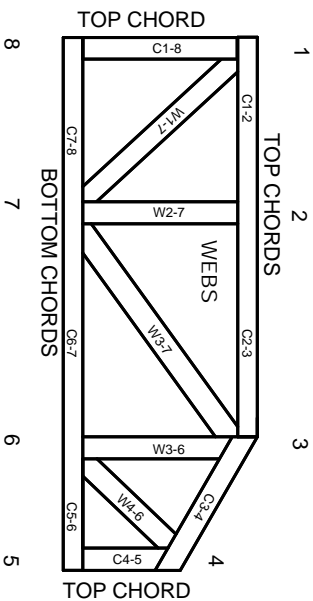
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TFP 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



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/TFP 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020



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/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 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. Rewriting pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TFP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.