

-0-10-8 0-10-8	25-0-0 25-0-0	50-0-0 25-0-0
-------------------	------------------	------------------

Scale = 1:92.3

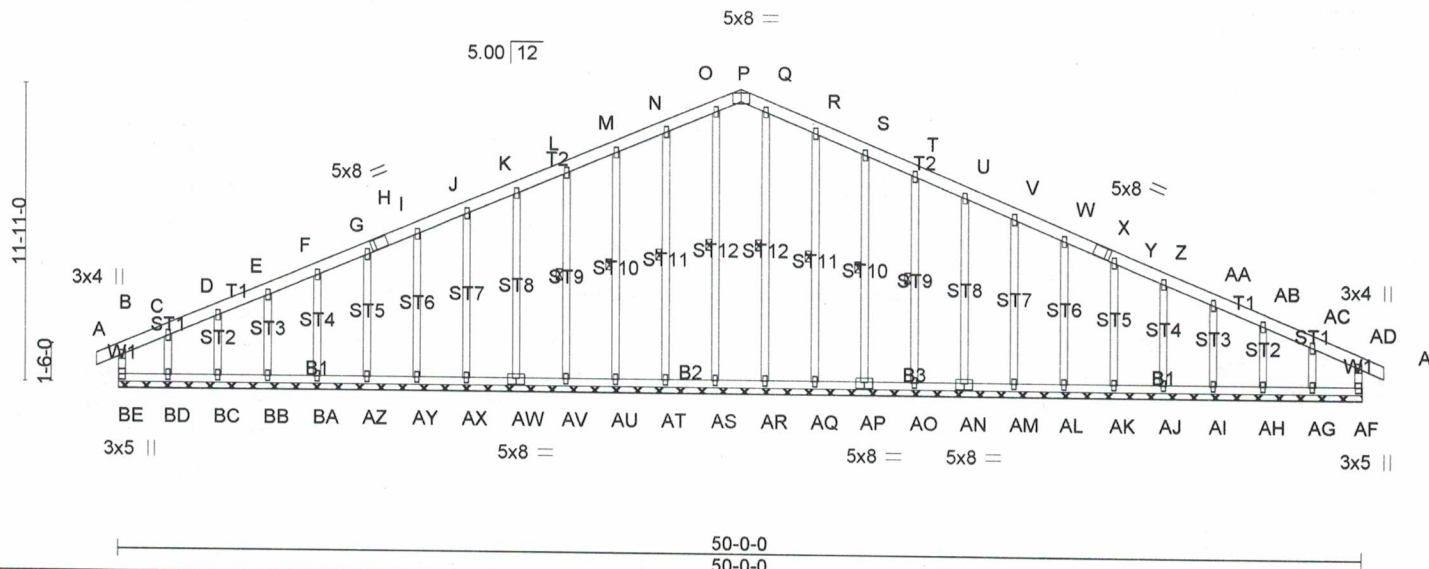


Plate Offsets (X,Y) - [H:0-2-1,0-2-8], [P:0-4-0,Edge], [X:0-2-1,0-2-8], [AN:0-4-0,0-3-0], [AP:0-4-0,0-3-0], [AW:0-4-0,0-3-0]

LOADING (psf)	SPACING 2-0-0	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.38	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(LL) -0.00 AD n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Vert(TL) -0.00 AD n/r 90		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-R	Horz(TL) 0.01 AF n/a n/a		
				Weight: 430 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt O-AS, N-AT, M-AU, L-AV, Q-AR, R-AQ, S-AP, T-AO

REACTIONS. (lb/size) BE=144/50-0-0, AF=144/50-0-0, AS=159/50-0-0, AT=160/50-0-0, AU=160/50-0-0, AV=160/50-0-0, AW=160/50-0-0, AX=160/50-0-0, AY=160/50-0-0, AZ=160/50-0-0, BA=160/50-0-0, BB=160/50-0-0, BC=163/50-0-0, BD=145/50-0-0, AR=159/50-0-0, AQ=160/50-0-0, AP=160/50-0-0, AO=160/50-0-0, AN=160/50-0-0, AM=160/50-0-0, AL=160/50-0-0, AK=160/50-0-0, AJ=160/50-0-0, AI=160/50-0-0, AH=163/50-0-0, AG=145/50-0-0

Max Horz BE=226(LC 5)
Max Uplift BE=154(LC 6), AF=109(LC 5), AT=119(LC 5), AU=114(LC 5), AV=102(LC 5), AW=103(LC 5), AX=103(LC 5), AY=103(LC 5), AZ=103(LC 5), BA=102(LC 5), BB=109(LC 5), BC=73(LC 5), BD=250(LC 5), AQ=120(LC 6), AP=115(LC 6), AO=102(LC 6), AN=103(LC 6), AM=103(LC 6), AL=103(LC 6), AK=103(LC 6), AJ=102(LC 6), AI=108(LC 6), AH=80(LC 6), AG=215(LC 6)

Max Grav BE=144(LC 1), AF=144(LC 1), AS=197(LC 6), AT=163(LC 9), AU=161(LC 9), AV=160(LC 1), AW=160(LC 1), AX=160(LC 9), AY=160(LC 1), AZ=160(LC 9), BA=160(LC 1), BB=160(LC 9), BC=163(LC 1), BD=146(LC 9), AR=179(LC 5), AQ=163(LC 10), AP=161(LC 10), AO=160(LC 1), AN=160(LC 1), AM=160(LC 10), AL=160(LC 1), AK=160(LC 10), AJ=160(LC 1), AI=160(LC 10), AH=163(LC 1), AG=145(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD B-BE=127/144, A-B=0/24, B-C=152/152, C-D=64/175, D-E=27/218, E-F=27/258, F-G=27/299, G-H=27/331, H-I=4/339, I-J=27/380, J-K=27/420, K-L=27/461, L-M=27/501, M-N=27/544, N-O=28/590, O-P=27/529, P-Q=27/524, Q-R=28/574, R-S=27/509, S-T=27/459, T-U=27/419, U-V=27/379, V-W=27/338, W-X=4/298, X-Y=27/289, Y-Z=27/257, Z-AA=27/217, AA-AB=27/176, AB-AC=26/134, AC-AD=103/104, AD-AE=0/24, AD-AF=127/109

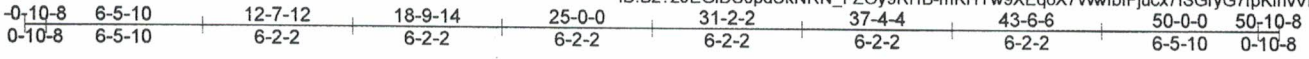
BOT CHORD BD-BE=15/173, BC-BD=15/173, BB-BC=15/173, BA-BB=15/173, AZ-BA=15/173, AY-AZ=15/173, AX-AY=15/173, AW-AX=15/173, AV-AW=15/173, AU-AV=15/173, AT-AU=15/173, AS-AT=15/173, AR-AS=15/173, AQ-AR=15/173, AP-AQ=15/173, AO-AP=15/173, AN-AO=15/173, AM-AN=15/173, AL-AM=15/173, AK-AL=15/173, AJ-AK=15/173, AI-AJ=15/173, AH-AI=15/173, AG-AH=15/173, AF-AG=15/173

WEBS O-AS=173/0, N-AT=123/143, M-AU=121/138, L-AV=120/126, K-AW=120/127, J-AX=120/127, I-AY=120/127, G-AZ=120/127, F-BA=120/127, E-BB=120/129, D-BC=123/114, C-BD=105/207, Q-AR=155/0, R-AQ=123/144, S-AP=121/139, T-AO=120/126, U-AN=120/127, V-AM=120/127, W-AL=120/127, Y-AK=120/127, Z-AJ=120/127, AA-AI=120/128, AB-AH=123/118, AC-AG=105/185

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCCL=6.0psf, BCCL=6.0psf, h=25ft; Cat. II; Exp B; Enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only.
 - 4) All plates are 2x5 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 154 lb uplift at joint BE, 109 lb uplift at joint AF, 119 lb uplift at joint AT, 114 lb uplift at joint AU, 102 lb uplift at joint AV, 103 lb uplift at joint AW, 103 lb uplift at joint AX, 103 lb uplift at joint AY, 103 lb uplift at joint AZ, 102 lb uplift at joint BA, 109 lb uplift at joint BB, 73 lb uplift at joint BC, 250 lb uplift at joint BD, 120 lb uplift at joint AQ, 115 lb uplift at joint AP, 102 lb uplift at joint AO, 103 lb uplift at joint AN, 103 lb uplift at joint AM, 103 lb uplift at joint AL, 103 lb uplift at joint AK, 102 lb uplift at joint AJ, 108 lb uplift at joint AI, 80 lb uplift at joint AH and 215 lb uplift at joint AG.

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Benjamin Chappell 8,220 s Aug 13 2018 MiTek Industries, Inc. Thu Dec 13 09:33:20 2018 Page 1

ID: Bz7z9EGIDS0pdCkNRN_FZOy9RHB-mKHYw9XEgoX7VWwibFJucx7ISGryG7fpKinvVMY9R5D



Scale = 1:94.7

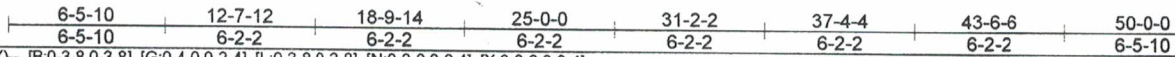
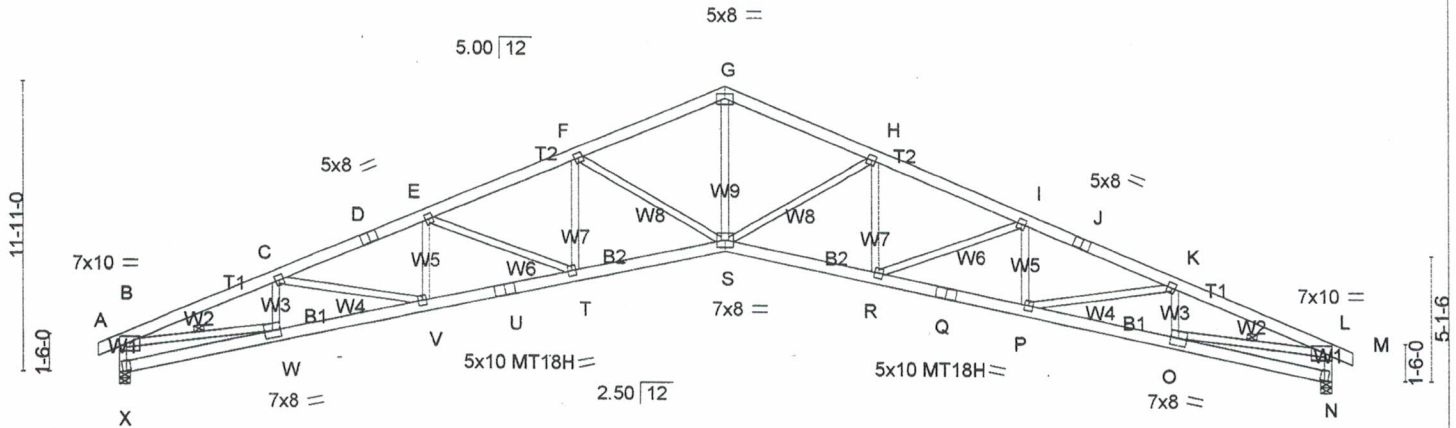


Plate Offsets (X,Y) - [B:0-3-8,0-3-8], [G:0-4-0,0-2-4], [L:0-3-8,0-3-8], [N:0-2-0,0-2-4], [X:0-2-0,0-2-4]

LOADING (psf)	SPACING - 2-0-0	CSI	DEFL		PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.62	in (loc) l/defl L/d		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.63	Vert(LL) 0.59 S-T >999 240		MT18H	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.99	Vert(TL) -1.09 R-S >546 180			
BCDL 10.0	Code IRC2009/TPI2007	Matrix-MSH	Horz(TL) 0.67 N n/a n/a			
					Weight: 367 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 3-1-2 oc purins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-5-5 oc bracing.
WEBS 1 Row at midpt B-W, L-O

REACTIONS. (lb/size) X=2050/0-5-8, N=2050/0-5-8
Max Horz X=226(LC 5)
Max Uplift X=937(LC 5), N=937(LC 6)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/24, B-C=4880/2149, C-D=5470/2358, D-E=5396/2373, E-F=5088/2133, F-G=4327/1723, G-H=4327/1744, H-I=5088/1945, I-J=5396/2204, J-K=5470/2190, K-L=4880/2022, L-M=0/24, B-X=2019/1024, L-N=2019/978
BOT CHORD W-X=389/402, V-W=2075/4514, U-V=2129/5112, T-U=2115/5125, S-T=1734/4742, R-S=1437/4742, Q-R=1725/5125, P-Q=1739/5112, O-P=1726/4514, N-O=157/402
WEBS G-S=1075/2904, H-S=899/659, H-R=162/428, I-R=499/437, I-P=91/126, K-P=169/613, K-O=665/391, F-S=899/645, F-T=151/428, E-T=499/418, E-V=91/110, C-V=128/613, C-W=665/414, B-W=1653/4030, L-O=1537/4030

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) All plates are 5x4 MT20 unless otherwise indicated.
 - 5) The solid section of the plate is required to be placed over the splice line at joint(s) S.
 - 6) Plate(s) at joint(s) S checked for a plus or minus 2 degree rotation about its center.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Bearing at joint(s) X, N considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 937 lb uplift at joint X and 937 lb uplift at joint N.
 - 11) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 18121379	Truss A1G	Truss Type COMMON SUPPORTED GAB	Qty 2	Ply 1	GLB Church Plans
------------------------	---------------------	---	-----------------	-----------------	-------------------------

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Benjamin Chappell

Job Reference (optional)
8.220 s Aug 13 2018 MITek Industries, Inc. Thu Dec 13 09:33:26 2018 Page 2

NOTES-
11) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

