

Plate Offsets (X,Y)-- [2:0-3-0,0-10-1], [2:0-0-9,0-1-10], [5:0-3-0,0-1-8], [8:0-0-11,0-1-8], [14:0-4-12,0-1-8], [15:0-2-0,0-3-0]

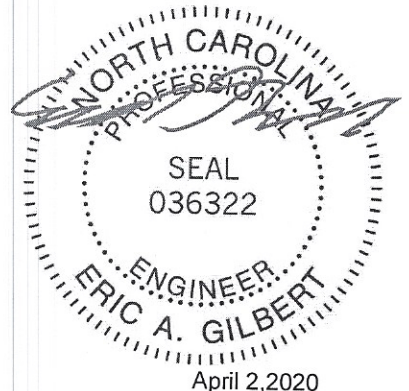
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	2-0-0	TC	0.94	in (loc)	l/defl	L/d	MT20	244/190	
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.74	Vert(LL)	-0.20 15-16 >999	240			
TCDL	10.0	Rep Stress Incr	YES	WB	0.64	Vert(CT)	-0.44 15-16 >786	180			
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S		Horz(CT)	0.26 12 n/a	n/a			
BCDL	10.0								Weight: 154 lb	FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Sheathed.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
WEDGE			
Left: 2x4 SP No.3 , Right: 2x4 SP No.3			

REACTIONS. (size) 2=0-3-8, 12=0-3-8
 Max Horz 2=-144(LC 10)
 Max Uplift 2=-24(LC 12), 12=-22(LC 12)
 Max Grav 2=1217(LC 2), 12=1285(LC 2)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/11, 2-3=-3638/0, 3-5=-2664/0, 5-7=-2192/57, 7-8=-2290/14, 8-9=-159/0, 9-10=-122/0, 10-11=0/12
 BOT CHORD 2-16=0/3229, 15-16=0/3149, 14-15=0/1728, 13-14=0/1500, 12-13=0/1456, 10-12=0/121
 WEBS 3-16=0/353, 3-15=-811/129, 5-15=0/1538, 5-14=-42/506, 7-14=-326/93, 8-14=0/553, 8-13=-292/46, 9-12=-185/42, 8-12=-1658/23

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
 - 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 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.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 2 and 12 lb uplift at joint 12.



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