



Plate Offsets (X,Y): [E:0-1-8,Edge], [F:0-1-8,0-0-0], [K:0-1-8,Edge], [N:0-1-8,Edge], [O:0-1-8,Edge]

LOADING (psf)	SPACING	1-4-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plates Increase 1.00		TC 0.45	Vert(LL) -0.26	N-O >909	480		MT20	169/123
TCDL 10.0	Lumber Increase 1.00		BC 0.99	Vert(TL) -0.47	O-Q >506	360			
BCLL 0.0	Rep Stress Incr YES		WB 0.37	Horz(TL) 0.09	L n/a	n/a			
BCDL 10.0	Code IBC2006/TPI2002		(Matrix)					Weight: 68 lb	FT = 10%F, 0%E

LUMBER
 TOP CHORD 2x4 SPF-S No.2(flat)
 BOT CHORD 2x4 SPF-S No.2(flat)
 WEBS 2x4 SPF-S No.2(flat)

BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (lb/size) R=786/0-5-8 (min. 0-1-8), L=786/0-5-8 (min. 0-1-8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-2077/0, C-D=-2077/0, D-E=-2840/0, E-F=-2840/0, F-G=-2840/0, G-H=-2077/0, H-I=-2077/0, I-J=-2077/0
 BOT CHORD Q-R=0/1200, P-Q=0/2593, O-P=0/2593, N-O=0/2840, M-N=0/2593, L-M=0/1200
 WEBS J-L=-1386/0, B-R=-1386/0, J-M=0/1022, B-Q=0/1022, G-M=-602/0, D-Q=-602/0, G-N=-4/474, D-O=-4/474

- NOTES**
- Unbalanced floor live loads have been considered for this design.
 - As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - This truss is designed in accordance with the 2006 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard