



Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Criteria Wind Std: ASCE 7-16 Speed: 120 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 26.52 ft TCDL: 6.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 4.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.165 K 999 240 VERT(CL): 0.337 K 999 240 HORZ(LL): 0.068 H - - HORZ(TL): 0.139 H - - Creep Factor: 2.0 Max TC CSI: 0.445 Max BC CSI: 0.891 Max Web CSI: 0.732 VIEW Ver: 21.02.01.1115.20	▲ Maximum Reactions (lbs) <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>1631</td> <td>/-</td> <td>/-</td> <td>/929</td> <td>/272</td> <td>/240</td> </tr> <tr> <td>H</td> <td>1631</td> <td>/-</td> <td>/-</td> <td>/929</td> <td>/272</td> <td>/-</td> </tr> </tbody> </table> Wind reactions based on MWFRS B Brg Wid = 7.3 Min Req = 2.6 (Truss) H Brg Wid = 7.3 Min Req = 2.6 (Truss) Bearings B & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) <table border="1"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>B - C</td> <td>1002 -2918</td> <td>E - F</td> <td>804 -1842</td> </tr> <tr> <td>C - D</td> <td>942 -2638</td> <td>F - G</td> <td>941 -2638</td> </tr> <tr> <td>D - E</td> <td>804 -1842</td> <td>G - H</td> <td>1002 -2918</td> </tr> </tbody> </table>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	1631	/-	/-	/929	/272	/240	H	1631	/-	/-	/929	/272	/-	Chords	Tens.Comp.	Chords	Tens. Comp.	B - C	1002 -2918	E - F	804 -1842	C - D	942 -2638	F - G	941 -2638	D - E	804 -1842	G - H	1002 -2918
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Lumber
 Top chord: 2x4 SPF #1/#2;
 Bot chord: 2x4 SPF #1/#2;
 Webs: 2x4 SPF Stud;

Bracing
 (a) Continuous lateral restraint equally spaced on member.

Wind
 Wind loads based on MWFRS with additional C&C member design.
 Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - L	2545 -791	K - J	2069 -536
L - K	2069 -563	J - H	2545 -773

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
L - D	534 -72	K - F	386 -696
D - K	386 -696	F - J	534 -72
E - K	1163 -393		

PRELIMINARY-NOT FOR CONSTRUCTION

