

TABLE VIII.

TABLE OF SIZES OF HIP VERTICALS FOR BRIDGES OF CLASS C,

In which the live load is eighty pounds per square foot of floor, and the working-stress on the verticals is five tons to the square inch.

The upper figures give the sizes of the hip verticals; the lower ones, the sections required.

Panel Length.	12' Roadway.	14' Roadway.	16' Roadway.	18' Roadway.	20' Roadway.	22' Roadway.	24' Roadway.	Panel Length.
10'	2 $\frac{3}{4}$ " □ 0.60 □"	2 $\frac{3}{4}$ " □ 0.69 □"	2 $\frac{3}{4}$ " □ 0.79 □"	2 $\frac{3}{4}$ " □ 0.89 □"	2 $\frac{3}{4}$ " □ 1.00 □"	2 $\frac{3}{4}$ " □ 1.12 □"	2 $1\frac{1}{8}$ " □ 1.21 □"	10'
11'	2 $\frac{3}{4}$ " □ 0.65 □"	2 $\frac{3}{4}$ " □ 0.75 □"	2 $\frac{3}{4}$ " □ 0.87 □"	2 $\frac{3}{4}$ " □ 0.98 □"	2 $\frac{3}{4}$ " □ 1.10 □"	2 $1\frac{1}{8}$ " □ 1.22 □"	2 $\frac{7}{8}$ " □ 1.33 □"	11'
12'	2 $\frac{3}{4}$ " □ 0.71 □"	2 $\frac{3}{4}$ " □ 0.82 □"	2 $\frac{3}{4}$ " □ 0.95 □"	2 $\frac{3}{4}$ " □ 1.07 □"	2 $1\frac{1}{8}$ " □ 1.20 □"	2 $1\frac{1}{8}$ " □ 1.33 □"	2 $\frac{7}{8}$ " □ 1.45 □"	12'
13'	2 $\frac{3}{4}$ " □ 0.77 □"	2 $\frac{3}{4}$ " □ 0.89 □"	2 $\frac{3}{4}$ " □ 1.03 □"	2 $1\frac{1}{8}$ " □ 1.16 □"	2 $1\frac{1}{8}$ " □ 1.30 □"	2 $\frac{7}{8}$ " □ 1.43 □"	2 $1\frac{1}{8}$ " □ 1.57 □"	13'
14'	2 $\frac{3}{4}$ " □ 0.83 □"	2 $\frac{3}{4}$ " □ 0.97 □"	2 $\frac{3}{4}$ " □ 1.11 □"	2 $1\frac{1}{8}$ " □ 1.25 □"	2 $\frac{7}{8}$ " □ 1.40 □"	2 $\frac{7}{8}$ " □ 1.54 □"	2 $1\frac{1}{8}$ " □ 1.69 □"	14'
15'	2 $\frac{3}{4}$ " □ 0.89 □"	2 $\frac{3}{4}$ " □ 1.04 □"	2 $1\frac{1}{8}$ " □ 1.19 □"	2 $\frac{7}{8}$ " □ 1.34 □"	2 $\frac{7}{8}$ " □ 1.50 □"	2 $1\frac{1}{8}$ " □ 1.65 □"	2 1" □ 1.81 □"	15'
16'	2 $\frac{3}{4}$ " □ 0.95 □"	2 $\frac{3}{4}$ " □ 1.11 □"	2 $1\frac{1}{8}$ " □ 1.27 □"	2 $\frac{7}{8}$ " □ 1.42 □"	2 $1\frac{1}{8}$ " □ 1.60 □"	2 $1\frac{1}{8}$ " □ 1.76 □"	2 1" □ 1.92 □"	16'
17'	2 $\frac{3}{4}$ " □ 1.01 □"	2 $1\frac{1}{8}$ " □ 1.18 □"	2 $\frac{7}{8}$ " □ 1.35 □"	2 $\frac{7}{8}$ " □ 1.51 □"	2 $1\frac{1}{8}$ " □ 1.70 □"	2 1" □ 1.87 □"	2 $1\frac{1}{8}$ " □ 2.04 □"	17'
18'	2 $\frac{3}{4}$ " □ 1.07 □"	2 $1\frac{1}{8}$ " □ 1.25 □"	2 $\frac{7}{8}$ " □ 1.43 □"	2 $1\frac{1}{8}$ " □ 1.60 □"	2 1" □ 1.81 □"	2 1" □ 1.99 □"	2 $1\frac{1}{8}$ " □ 2.16 □"	18'
19'	2 $\frac{3}{4}$ " □ 1.13 □"	2 $1\frac{1}{8}$ " □ 1.32 □"	2 $\frac{7}{8}$ " □ 1.51 □"	2 $1\frac{1}{8}$ " □ 1.70 □"	2 1" □ 1.92 □"	2 $1\frac{1}{8}$ " □ 2.11 □"	2 $1\frac{1}{8}$ " □ 2.30 □"	19'
20'	2 $1\frac{1}{8}$ " □ 1.21 □"	2 $\frac{7}{8}$ " □ 1.41 □"	2 $1\frac{1}{8}$ " □ 1.61 □"	2 1" □ 1.80 □"	2 $1\frac{1}{8}$ " □ 2.03 □"	2 $1\frac{1}{8}$ " □ 2.23 □"	2 $1\frac{1}{8}$ " □ 2.43 □"	20'
21'	2 $1\frac{1}{8}$ " □ 1.28 □"	2 $\frac{7}{8}$ " □ 1.50 □"	2 $1\frac{1}{8}$ " □ 1.71 □"	2 1" □ 1.91 □"	2 $1\frac{1}{8}$ " □ 2.16 □"	2 $1\frac{1}{8}$ " □ 2.36 □"	2 $1\frac{3}{8}$ " □ 2.58 □"	21'
22'	2 $\frac{7}{8}$ " □ 1.36 □"	2 $1\frac{1}{8}$ " □ 1.58 □"	2 1" □ 1.81 □"	2 1" □ 2.02 □"	2 $1\frac{1}{8}$ " □ 2.28 □"	2 $1\frac{1}{8}$ " □ 2.50 □"	2 $1\frac{3}{8}$ " □ 2.73 □"	22'
23'	2 $\frac{7}{8}$ " □ 1.44 □"	2 $1\frac{1}{8}$ " □ 1.67 □"	2 1" □ 1.90 □"	2 $1\frac{1}{8}$ " □ 2.13 □"	2 $1\frac{1}{8}$ " □ 2.40 □"	2 $1\frac{1}{8}$ " □ 2.64 □"	2 $1\frac{1}{4}$ " □ 2.88 □"	23'
24'	2 $\frac{7}{8}$ " □ 1.55 □"	2 $1\frac{1}{8}$ " □ 1.75 □"	2 1" □ 2.00 □"	2 $1\frac{1}{8}$ " □ 2.24 □"	2 $1\frac{1}{8}$ " □ 2.52 □"	2 $1\frac{1}{8}$ " □ 2.78 □"	2 $1\frac{1}{4}$ " □ 3.03 □"	24'