Lateral Brace Rods for one Span.

15 rods each 16 feet 9 inches long 1 inch diameter 655 pounds

Small Bolts for one Span.

60 bolts, through arches, 47 inches long 1 inch diam. 622 lbs
60 bolts, through chords and posts, 34 inches long \( \frac{3}{4} \) inch diam. 255 "
30 roof-bolts 36 inches long \( \frac{1}{2} \) inch diam. 135 "
224 spikes for braces \( \frac{1}{4} \) pound each 168 "

Dimensions and Data for Calculation of Bridge at Sherman's Creek.

Span at skew-backs 148 ft. 3 in.
Whole length of truss for one span 154 "
Out to out of chords 20 "
Middle to middle of chords 19 "
Resisting cross-section of upper chords 400 sq. in.
Resisting cross-section of 6 lower chords, deductions for splice, check-brace and bolt, and allowing for scarf-key 220 sq. in.
Versed sine of lower arch 20 feet.
Cross-section of 8 arches 800 sq. in.
Span 148\( \frac{1}{4} \), and rise 20, will give radius 172.25 feet.
And 172-25, 152-25, and 74-125, express the proportion of the hypothenuse, perpendicular, and base of skew-back.

Hypothenuse of skew-back covered by arches 18 inches.
Perpendicular " " " 16 "
Base " " " 7.6 "
Distance from skew-back to bottom of chord 4 1/2 "
" middle of skew-back to middle of chord 4 ft. 5 in.
Width from out to out of chords 16 " 2 "
" between chords in the clear 11 "
Distance from centre to centre of floor-beams 5 1/2 feet.