ed from the footbridge by inclined suspenders (see Fig 1). These "storm ropes" are assisted by a number of storm stays, which reach from the tower out as far as the first cradles. In the landspans the storm guys are anchored in the ground. This whole system of guying has proved very successful, as even in heavy gales the motion of the bridge is confined to a small lateral displacement.

The maximum load coming on one footbridge cable is 62123 lbs. creating a tension of 86 tons. This is resisted by the aggregate strength of the 2\(\frac{3}{4}\)" and 1\(\frac{1}{4}\)" inch rope amounting to 318 tons; hence the margin of safety is 3.7 times.

All the ropes used for the footbridge, cradles, etc., were manufactured in the works of John A. Roebling's Sons, Trenton, N.J.