ORDINARY IRON HIGHWAY-BRIDGES.

Brackets.—A straight bracket of __________ inch by __________ inch __________ pound angle iron is to be used to connect each post to the overhead strut. Those for the portals are to be of __________ inch by __________ inch __________ pound angle iron. They are to be connected by __________ rivets at each end.

Chord Heads.—Shall be of standard shapes, and so strong that the bar will break in the body rather than in the neighborhood of the eye.

Upset Rods.—All adjustable rods, unless otherwise specified, are to have their ends enlarged for the screw threads; so that the diameter at the bottom of the thread shall be one-sixteenth ($\frac{1}{64}$) of an inch greater than that of the body of the bar, square or flat bars being figured as if of equivalent round section.

Riveting.—Riveting shall in every respect be in accordance with standard authorities; and all riveted connections shall be designed for the rivets to resist the greatest shearing, bearing, and bending stresses that can ever come upon them, no reliance being placed upon friction between plates.

Expansion.—Shall be provided for by ____________________________________________

______________________________________________________________

______________________________________________________________

Anchorage.—At one end of the each span, the superstructure is to be anchored to the foundations by __________ bolts, each __________ inches in diameter, and at least __________ feet __________ inches long.

Camber.—Shall be at least __________ inches when the bridge is empty, and at least __________ inches when fully loaded.

Floor System.—Shall consist of __________ runs of __________ inch by __________ inch pine oak joists, dapped and spiked on the lateral struts; and the floor plank shall be of __________ inch pine or oak plank laid diagonally or square across the bridge, as may be preferred, and well spiked to the joists. A safety plank of __________ inch by __________ inch pine is to be well fastened down on each side of the bridge, and at the middle if required.

Hand Railing.—To consist of ____________________________________________

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