Reinforced Concrete Bridges

The Lyndhurst reinforced concrete bridge, St. Thomas, Ont., shown herewith, has a clear span of 116 feet, and is said to be the longest span of its kind in Canada. The bridge is 22 feet wide. It has a 16-foot roadway and a 4-foot sidewalk, and, including rail, floor, etc., contains about 1,470 cubic yards of concrete.

A 50-foot Arch Bridge at Buttonville, Ont., built at a cost of $2,400.

The intrados of the arch is a three-centred circle, having radii of 4 feet, 30 feet and 162 feet. The extrados is a segment of a circle with a radius of 323 feet. The intrados at the crown was 30 feet 6 inches above the footing, the arch having a rise of 18 feet, being 2 feet thick at the crown and 3 feet thick at a point 24 feet out from the crown. The arch was filled in at each end with creek gravel, well packed and rammed before the floor was laid.

Lyndhurst Arch Bridge, St. Thomas, Ont.

The abutments rested on hard pan, and the footings were 4 feet below the bed of the creek. The concrete in the abutments is composed of one part cement and nine