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Description of the New Bridge

The new Pacific Highway Bridge just completed is a steel cantilever structure, in which are combined the features of the "Through" Truss and the "Deck" Truss cantilever.

The main span is 541 feet and four inches in length and consists of two anchor arms, two cantilever arms and a suspended span each 135 feet and four inches, and 58 feet, and 154 feet and eight inches in length respectively. In addition to the main span there are 620 feet of steel approach and 140 feet of timber approach, making in all a structure 1301 feet and four inches in length, containing 427 tons of steel and 168,000 board feet of lumber.

It has a roadway twenty-one feet and six inches in width from center to center of trusses and is designed for ordinary highway traffic. From the ends of the approaches to the main span the roadway is on a five per cent grade. At the span the roadway continues on a three per cent grade to the end of the suspended span, over which the roadway is level. The elevation of the floor is 59 feet above the low water mark of the Lewis river.

The sub-structure consists of four concrete piers, sixty-two concrete pedestals and the necessary river protection, containing 1350 cubic yards of concrete and 9305 linear feet of piling. The concrete piers are constructed on piling driven to an average depth of forty feet below the base of the piers.

—Cowlitz County Chronicle, May 15, 1913,