

Douglas County,

I have the honor to report that I have examined the new Iron Bridge on Mud Creek and find the same in all respects in accordance with the contract. The Workmanship is in every respect first class, all material is perfect and conforms to the Strain Sheet.

I would therefore recommend its acceptance
(Signed) T. J. Sternburgh

Co. Surveyor

On Motion the Bridge was accepted and the Clerk was instructed to draw orders on the County Treasurer according to the terms of their Contract for the payment of the same.

In the Matter of the
Sigel Bridge

The County Surveyor made the following report of the examination of the Bridge built by Messrs Raymond and Campbell across the Wakarusa Creek at Sigel.

To the Hon Board of County Commissioners of Douglas County Gentlemen

I have the honor to hand you my report on the Sigel Bridge.

This being one of the first Iron bridges built in this County, I deem it but proper to enter somewhat into detail, for the benefit of future reference.

The Bridge was designed by Mr. C. E. Campbell, engineer of the firm of Raymond and Campbell, of Council Bluffs Ia. and its Construction was personally superintended by them. The length of the span is 126 ft, the width of roadway is sixteen feet; the height of trusses eighteen feet, and is proportioned to carry a moving load of 1250 lbs per lineal foot, in addition to its own weight, which is 550 lbs per lineal foot, making a total of 1800 pounds per lineal foot.

The several members of the bridge are so constructed that the passage of the above mentioned load will not strain the iron more than 12500 pounds per square inch in tension and 9125 pounds per square inch in compression.

The material is all of first quality, and of the dimensions marked on the strain sheet accompanying the Contract, with the exception of portions of the bottom chords, which contain more sectional area than the Contract calls for, and is in favor of the County.