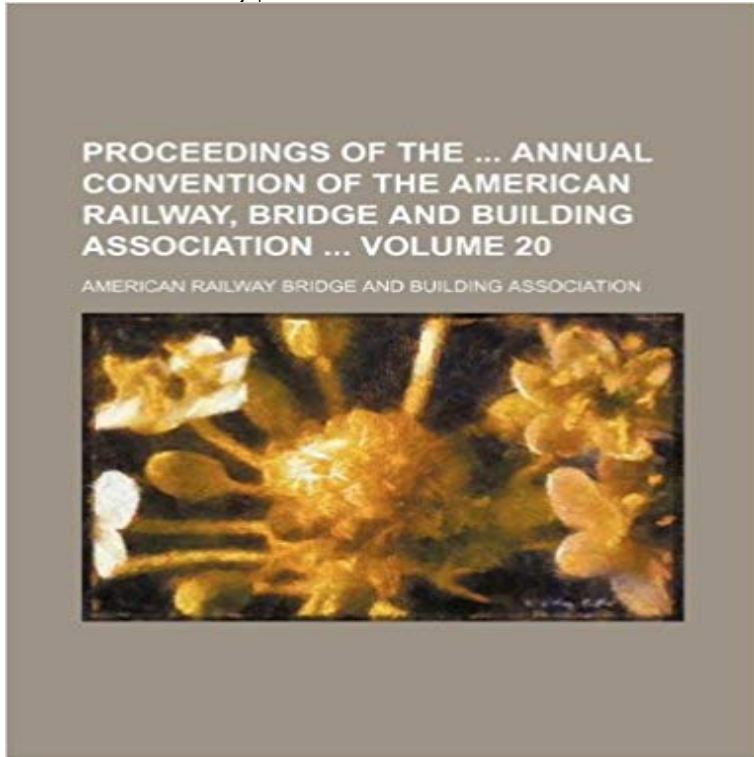


Proceedings of the annual convention of the American Railway, Bridge and Building Association Volume 20



This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1911 Excerpt: ...of sufficient depth and width is recommended, but we believe the timber bedding is equally as good and the cost will be only one-third as much as that of concrete. F. O. Draper, Illinois Central R. R.--I attach two copies of blue prints showing our method of holding pipe in place in sliding fills, at the time it is placed; also showing a method of holding pipe in fills that are moving, where the pipe is gradually separated. You will note that we put side rods on the pipe, in place, at the time the pipe is laid. The inside rod is used on pipe that is not equipped with these rods on the outside, to hold the pipe from opening, as the fill settles. I have had considerable experience in this class of work and I find that a rod of these dimensions is very satisfactory and will hold the pipe. The rod shown on the inside does not catch rubbish or driftwood during high water. It can be put in along the sides of the pipe and held in position by a small band supported from the bottom of the pipe. J. M. Caldwell, C. I. & L. Ry.--I most generally lay a floor of old bridge stringers the full length of the pipe. The 16-foot stringers are cut in two in the middle and laid crosswise, making the floor 8 feet wide by the length of the pipe culvert. We have placed a great many pipes in this manner, in soft ground, and we have had but one or two cases where the pipe has pulled apart. The pipe I refer to is standard cast iron water pipe with hub and spigot ends. We never use galvanized pipe. To repair the pipe when it has pulled apart, I use old boiler iron bent to the diameter of the pipe, placing two pieces, with flanges, at the top side of the pipe and bolting them together through the flanges. We have discontinued using ordinary cast iron pipe and now have

cast iron pip...

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American Railway and Building Association Successor to the Association of Railway Superintendents of Bridges and Buildings, Held in Washington, D. C., October 20, Vol. 19 of 20. Proceedings of the American Railway Engineering Association, 1988 by **Proceedings of the Eighteenth Annual Convention of the American** T. Richards 121
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