

Hope Street bridge

Harrison County



The **Hope Street Bridge** carries Hope Street over Jones Run in Harrison County. It is a single span spandrel-braced concrete arch with a total length of 49.2 feet total width of 16.2 feet. The arch rings feature flat beveled edges and are supported by concrete spread footers. The deck ends are supported by concrete abutments and wingwalls. The concrete parapets feature ornamentally incised rectangular panels on their inner and outer sides.

This bridge type is characterized by having reinforced concrete spandrel braces which contain two tiers of longitudinal reinforcing rods that help support the bridge deck that is cantilevered over it. This concrete arch bridge sub-type does not feature an arch barrel ring or earth fill, which results in both a light arch and efficient construction due to minimum use of steel.

The bridge was built in 1925 by the Luten Bridge Company of York, Pennsylvania. Daniel B. Luten was a nationally recognized civil engineer and bridge designer in the late 19th and early 20th centuries. Luten specialized in designing concrete arch bridges and acquired numerous patents for his designs. Luten also sold licenses for his bridge designs to outside agents. One such agent was the Luten Bridge Co., which was incorporated in 1909 and became a prolific bridge builder in the southern and eastern US.

The Hope Street Bridge has been determined to be eligible for the National Register of Historic Places under Criterion C because it is an example of a spandrel-braced arch, an uncommon bridge type. Additionally, the bridge was built by the Luten Bridge Company of York, PA, a nationally recognized bridge company.

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This bridge is documented on WVDOH's
historic bridge website,

www.highwaysthroughhistory.com



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