

West Virginia's Department of Highway's Maintenance Crew Installs InQuik Bridge in 5 Days



County Rd 72/1 (Little Creek Rd)

Charleston, WV

When repeated flooding damaged a vital rural bridge near Charleston, WV—cutting off the only access to a local community—the West Virginia Department of Highways (WV-DOH) needed a resilient, long-term solution. The department selected the InQuik Bridge system, a **pre-engineered, modular** design known for its **rapid installation** and **durability**. The project served as a practical case study in rural infrastructure replacement, highlighting an approach that required **minimal equipment, limited road closure**, and materials designed to resist corrosion and flood-related damage.



InQuik®
accelerated construction

OVERVIEW

Dimensions

45' L x 17 1/2' W

Client

West Virginia DOH

Type

County Road

Original Structure

Steel Beam Bridge

KEY POINTS

Critical Rural Road

Integral Bridge

Flood Resilient

Rapid Replacement

State DOT

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Originally, WV DOH planned to replace only the bridge deck, upgrading from the existing steel beams, wood decking, and asphalt overlay to concrete components. However, upon evaluating the new and innovative bridge system, the team recognized that a full bridge replacement would be more **cost-effective** and better suited to **withstand future disasters**. WV-DOH District 1 engineers collaborated with CMC, and the team designed a new integral bridge that could be built quickly and withstand harsh environmental conditions common to the narrow, flood-prone valley.

To maintain access during construction, WV-DOH maintenance crews first built a temporary causeway, demolished the old structure and completed pile driving for the foundation. They then installed the new InQuik Bridge system in just **five days**, completing critical tasks such setting the InQuik abutments, placing the ready-mix concrete, and assembling the prefabricated superstructure. The bridge design included **corrosion-resistant GalvaBar** and was entirely **cast-in-place**, resulting in a single concrete mass. This disaster resilient structure ensures continued access for the community while **reducing long-term maintenance costs**.



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