

# ESSROC RAILROAD BRIDGE

MARTINSBURG, WEST VIRGINIA



**CLIENT:**

Amtrac Railroad Contractors of MD, Inc.

**CONTRACT AMOUNT:**

\$1.4 million

**DELIVERY METHOD:**

Design/Bid/Build

**CONTRACTOR:**

Shirley Contracting Company

**DESIGNER:**

Alpha Associates, Inc.

**COMPLETION DATE:**

May 2012

Shirley Contracting Company, LLC (Shirley) constructed the Winchester & Western Railroad rail spur bridge to ESSROC Corporation's cement plant in Martinsburg, West Virginia. Under a contract with Amtrac Railroad Contractors of Maryland, Inc., Shirley constructed the bridge that would provide rail service from the ESSROC plant facility to the W&W Railroad. The bridge is a three simple span steel structure approximately 205 feet long over US Route 11 Winchester Ave. The project connects the cement plant directly to the Winchester & Western Railroad's tracks that run through Berkeley County from south of Winchester to Hagerstown.

The bridge construction included substructure excavation, pile driving, substructure concrete, setting bearing assemblies, erecting structural steel, installation of cross frames, a walkway/steel platform, forming overhangs and false work, installation of reinforcing steel and bulkheads, pouring concrete bridge deck and parapets, deck drainage and complete waterproofing membrane installation on the deck. All work was performed while maintaining traffic on Route 11, working around utility conflicts, and minimizing disruptions to the mine. All bridge work was constructed in accordance with West Virginia DOT Highway Standards and AREMA Standards. Despite unforeseen utility conflicts encountered, the project was completed ahead of schedule.

Winchester & Western's line connects with the Norfolk Southern Railway and CSX Transportation railroads, giving Essroc direct access to both of the east coast's major rail lines. Having access to these two railroads will increase ESSROC's ability to ship larger quantities of cement product to customers via rail versus standard trucking operations, ultimately increasing sales volumes, improving shipping efficiency and lowering delivery costs. Construction of this bridge and associated track will allow for the ESSROC's expanded plant to generate additional revenue with the increase in shipping efficiency provided by having expanded rail access.