

BRIDGE REPLACEMENT OF SALEM ROAD BRIDGE OVER FLAT SHOALS CREEK

MA's structural Vice President, Joe McGrew, P.E., served as project manager and Stephen Jing, PE was the lead Structural Design Engineer on this project. Ralph Ramsdell, a senior roadway designer in our highway group, provided approach roadway design assistance. MA's structural division includes 3 registered professionals, 4 engineers, a design technician and over a dozen bridge inspectors. Our structural designers are also supported by MA's in house surveyors, geotechnical staff, materials laboratory, environmental specialists, hydrology experts and architectural designers to provide complete design services for a wide range of bridge and culvert designs.



Joe McGrew, PE
Structural VP/
Project Manager



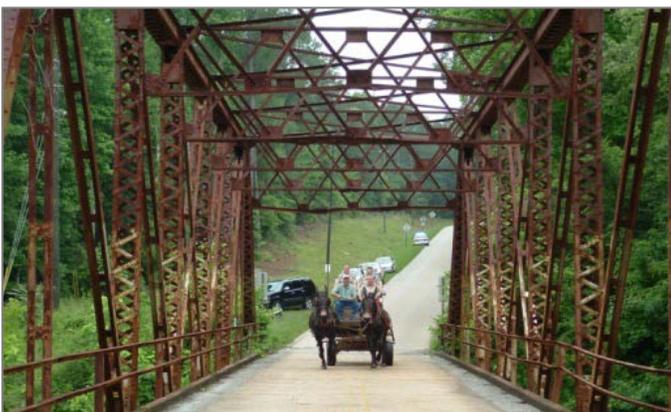
that prohibited school buses and emergency vehicles from crossing. The replacement needed to be as similar as possible in design to the old bridge. Multiple plans were put forward and many public meetings took place in response to the need to replace the bridge.

The style of the new bridge, which was determined by a town hall meeting vote that received unanimous support, is reflective of the old bridge's visual characteristics. The main span is 143 feet long and uses maintenance-free weathering steel construction to enhance its rustic appearance, reminiscent of the beloved old bridge.

Construction economy and schedule were important considerations in selecting a design for the new bridge. Eliminating the load posting so that emergency vehicles and buses could cross safely was of the utmost importance to the County Commission.



The Salem Road Bridge over Flat Shoals Creek, built in 1929, was Troup County's last remaining steel truss bridge. The bridge was a highly sentimental part of the community's past and when County Commissioners announced that the bridge had to be replaced, citizens throughout Troup County expressed sadness.



Replacement was necessary due to height restrictions, narrow width, poor ride quality, and the recently reduced 5-ton load rating

Several months of project schedule were saved through careful selection of the foundation and substructure designs, which would allow the bridge to be replaced without having to file a Section 404 permit. Additionally, the prefabricated truss saved significant construction time as well as enhancing constructability. Overall, the choice of a steel truss for this location addressed all of the project objectives and resulted in an economical solution with significant added value to the community. Troup County is proud of this very successful project.

PRESIDENT'S MESSAGE

MA is honored to be chosen the recipient of GPTQ's 2015 Preconstruction Award for Bridge/Structural Design for the Bridge Replacement of Salem Road Bridge over Flat Shoals Creek in Troup County. We have a long history of providing services in Troup County and when our staff saw the past, in the form of the old Salem Road Bridge, and brought the spirit and charm of that structure into the future – that's something very special.



Buddy Gratton, PE – President
Moreland Altobelli Associates, Inc.