



SR 0026, Section 009, PA 26
Yellow Creek Bridge



SR 422, Section L12
Rosepoint Bridge Rehabilitation



SR 1087, Section B00 Mingo Bridge #2
and
SR 1087, Section B11 Crookham Bridge



Engineering Services

- ❖ Bridge Design
- ❖ Culvert Design
- ❖ Construction Services
- ❖ Hydrologic & Hydraulic Analysis
- ❖ NBIS Bridge Inspection
- ❖ Project Management
- ❖ Retaining Wall Design
- ❖ Stormwater Management
- ❖ TS&L Studies
- ❖ Utility Coordination

The Markosky Engineering Group, Inc. (MEG) has successfully completed a number of bridge design projects as a prime consultant and a subconsultant. We are consistently called upon by firms because we provide design services from engineering professionals that are innovative, design conscious, and known for meeting the most rigorous design schedules.

MEG remains competitive and able to keep up with today's fast pace marketplace by investing resources and time into our employees who are committed to getting the project completed on time and under budget.

➤ **SR 0026, Section 009, PA 26 Yellow Creek Bridge, Bedford County, PA**

MEG is the prime consultant for the two lane single span bridge project in Bedford County. Responsibilities include overall project management, bridge and roadway design, and management of subconsultants providing surveying, geotechnical, and environmental services. The final bridge alternative was a single span spread box beam structure on existing alignment. A temporary roadway / bridge were required to maintain traffic during construction.

➤ **SR 422, Section L12, Rosepoint Bridge Rehabilitation, Lawrence County, PA**

MEG is the prime consultant for this project which involved the inspection and rehabilitation of the existing reinforced concrete open spandrel arch bridge that carries SR 0422 approximately 80' over Slippery Rock Creek in Slippery Rock Township, Lawrence County PA. MEG completed the hands-on rehabilitation inspection utilizing an "under bridge inspection unit" to access the arch components. Concrete cores were obtained to determine the concrete compression strength and chloride content for the evaluation of the existing conditions.

➤ **SR 1087, Section B00 Mingo Bridge #2 and SR 1087, Section B11, Crookham Bridge, Washington County, PA**

MEG is the prime consultant for this project which involved the replacement of two existing single span bridges and the rehabilitation of approximately 900 feet of roadway. The project was completed for the Pennsylvania Department of Transportation, Engineering District 12-0, utilizing the Modified Turnkey Design/Build approach for project delivery. As part of this project, roadway plans, E&S plans, traffic control plans, conceptual structure plans, and cross sections were developed. Also included were the development of project specifications, the development of a construction schedule using Open Plan scheduling software and the development of a project cost estimate.

➤ **SR 356, Section 250, Wayne Street Viaduct, Butler County, PA**

MEG provided roadway and structural design support to Michael Baker Jr., Inc. for this major structure in Butler. The project involves the replacement of a 12 span, 865 foot long viaduct over Connoquenessing Creek, the Bessemer and Lake Erie Railroad, the Buffalo and Pittsburgh Railroad and Cliff Street. The replacement structure is proposed to be a 5 span structure, 555 feet long. MEG assigned tasks include bridge design support, retaining wall design, drainage design, signing, pavement marking plans, utility coordination, and construction consultation.

➤ **SR 0080, Section M05 Final Design for Interstate 80 from Buckhorn interchange to Lime Ridge Interchange, Columbia County, PA**

MEG is providing final structural design for the replacement of the SR 0080 Bridge over SR 4009, Columbia County, PA. The proposed replacement structure is a 65'-0" single span prestressed spread box beam bridge supported on MSE abutments and will be constructed using phased construction. MEG also completed rehabilitation plans on approximately 6 miles of roadway reconstruction of SR 0080. The rehabilitation plan set included typical sections, cross sections, roadway plans and profiles.

➤ **NBIS Bridge Safety Inspections and Analysis for 23 Bridges, Clinton County, PA**

As part of this project, MEG is performing 3 cycles of N.B.I.S. inspections on 6 bridges ranging from single span steel bridges to steel railroad deck girders. MEG is currently completing the 2nd cycle of inspections as well as the reports and analyses documentation for our assigned structures.