

Macomb Street Bridge Rehabilitation

Monroe, Michigan



The Macomb Street Bridge project, over the River Raisin, involves the complete replacement of the bridge superstructure, including deck, beams, sidewalk, railings and approaches, as well as, rehabilitation of the existing substructure. After a careful study of the stability of the piers, it was determined that they, for the most part, will

remain in place. In addition, this project involved the replacement of an existing 12" diameter water main and public utility relocation.

An elaborate containment system was put in place to protect the river from debris during the demolition process, as stipulated in the DEQ Permit. Environmental concerns continued to be addressed throughout the construction period.

The three-span, three-lane bridge consists of reinforced concrete beams, which are pre-fabricated and pre-stressed. There is a six-foot wide pedestrian walkway on each side, with the entire bridge measuring 56 feet wide and 230 feet long.

Spalding DeDecker Associates, Inc. (SDA) was retained by the City of Monroe to provide the Design, Contract Administration, Construction Observation and Construction Layout Staking for this public project.

BRIDGE CONSTRUCTION ENGINEERING

SDA's Construction Engineering Department is providing full-time oversight and documentation using MDOT guidelines and FieldManager software. The Project Manager was responsible for all elements of bridge construction, and materials being installed according to the specifications. He oversaw scheduling, grading and drainage, environmental protection, safety procedures, utility coordination, testing, traffic and signage, construction project record review and contractors' claim procedures. This Project, being Davis-Bacon compliant, had wage rate interviews being done, and Certified Payrolls reviewed regularly. SDA is responsible for the design, construction observation and contract administration of the bridge, approaches, and utility relocation.

TRAFFIC AND SAFETY INSPECTION SERVICES

SDA provided inspection services for proper design, placement, uniformity, and operation of traffic control and safety devices for MDOT compliance. This includes: inspection of pavement markings, signing, guardrails, impact attenuators, work zone traffic control setup and removal operations.



OWNER / CLIENT

City of Monroe

PROJECT START - END

July 2012 – December 2012

SDA PROJECT No.

RB11-002