

LINCOLN COUNTY BRIDGE #1310005

LINCOLN COUNTY, MISSOURI



PROJECT DESCRIPTION

McClure was hired by Lincoln County to design a replacement structure on 5th Street in Elsberry, MO using Off-System Bridge Replacement and Rehabilitation Program (BRO) funds. With the structure located within the city limits and on a city street, McClure helped coordinate between the county and city throughout the project. The design consisted of precast concrete box girders on a Geosynthetic Reinforced Soil Integrated Bridge System abutments keyed into limestone. The innovative design uses masonry blocks, geotextile fabric and gravel in layers to create a rigid bearing surface to support the superstructure. The GRS-IBS Abutment also reduces the potential for scour. The new structure is longer to provide increased water flow, wider for a safer passage, and increased guardrail length for better protection for the traveling public. McClure also provided survey, hydraulic analysis, right-of-way negotiation services, utility coordination, geotechnical engineering, bidding assistance, construction observation, materials testing coordination, and permitting services.

PROJECT HIGHLIGHTS:

- Innovative GRS-IBS design
- Safer structure for area residents
- Successful collaboration between the county and city.

COMPLETION DATE

2021

COST OF SERVICES

\$88,500

REFERENCE

Eric Tapley

County Road and Bridge Supervisor