

Stahlheber Road and Bridge, Butler County, Ohio

This project consisted of a realignment of about 1,500 feet of roadway (to improve vertical and horizontal sight distances) and a bridge replacement. The suggested realignment called for 6.5' of fill above the elevation of the existing structure. The existing structure was a concrete slab bridge on full-height reinforced concrete abutments with a clear span of about 24'.

CEC studied the feasibility of a three-sided culvert structure and selected a 28' arch-topped culvert. The arch structure was selected due to the high fill. Had the three-sided structure not been used, the replacement structure would have been a beam type structure with a total span length of more than 100'. The culvert replacement cost was about half of what a bridge would have cost. This project was highlighted in an article in *County Engineer* magazine in 1996.



Gregory J. Wilkens P.E., P.S.
Butler County Engineer
1921 Fairgrove Avenue
Hamilton, OH 45011-1999
(513) 867-5744