

BEREA BYPASS

Location:
Berea, Kentucky

Clients:
City of Berea
Mr. Randy Stone
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Ky. Department
Of Highways

Completion Dates:
Phase 1 - 1999
Phase 2 - 2003



CDP Engineers prepared Phase I roadway designs for the 5.8 mile Berea Bypass in Madison County, and has recently completed designs for the 7 miles of Phase 2. This roadway is intended to relieve congestion in downtown Berea by providing an alternate route between I-75 and KY 21, east of Berea. The western section of the bypass is to be a four-lane rural arterial, limited access, with a 40' depressed median. The eastern section reduces to a two-lane byway. Close coordination of the project with all parties was conducted. Special design considerations include:

- Acquisition of current photogrammetric mapping
- Horizontal alignment studies. The project area is rapidly developing, and an extensive study was conducted to provide an economical roadway design while minimizing impacts on adjacent properties. For the 5.8-mile project length, only 6 structures were impacted: one resident; one trailer; and the rest were barns or sheds.
- Vertical geometrics to meet design criteria while resulting in economical earthwork.
- Cross road designs for intersections with major roads.
- Bridges over a railroad, over Silver Creek, and U.S. 25 over Silver Creek.
- Environmental studies, including Phase I studies for wetlands, cultural-historical, and archaeology.
- Drainage designs for numerous culverts and open channels.
- Right of way plans.
- Several public information meetings to communicate the project purpose, scope and design elements to local residents.
- Coordination of geotechnical investigation.
- Coordination of structural designs for the 3 bridges and 12 box culverts.