

## Downtown Storm Sewer Project

project description | storm sewer

### location

Georgetown, Kentucky

### client

City of Georgetown, Kentucky

### completion date

2000



The area north of Main Street in downtown Georgetown has experienced periodic flooding in the past, due to insufficient capacity in the storm sewer system. The existing system is generally undersized, and has some sections in deteriorating condition and others with adverse slopes. CDP Engineers was selected to develop solutions to the drainage problems. The scope of work was to provide consulting engineering services related to the design, bidding, and construction administration of drainage projects to alleviate flooding problems in downtown Georgetown. CDP utilized modern hydrologic and storm sewer computer models to develop cost-effective recommendations. For budgetary reasons, specific work elements were provided in four separate phases:

**phase I:** Design of the lower section of the system, from Royal Spring Creek to North Broadway (U.S. 25). This section included approximately 1000 linear feet of 15"-42" storm sewer, 200 linear feet of channel improvements, complex utility conflict resolutions, and coordination with the Kentucky Department of Highways. The existing trunk sewer in this area was in good condition; it was designed to remain in service to minimize the size and cost of a new parallel system.

**phase II:** Design of the middle portion of the system, from North Broadway to a proposed detention basin east of North Mulberry Street. This section included approximately 1300 linear feet of 24"-60" storm sewer, reconstruction of numerous deteriorated catch basins, design of a detention basin to minimize downstream storm sewer costs, utility conflict resolutions and abandonment of a section of the existing system located beneath the Justice Center.

**phase III:** Design of the upper portion of the system, intended to address several additional drainage problems and provide additional reduction in peak flood discharges in the downtown area by extending the storm sewers approximately 1200 feet, from the proposed Phase II detention basin to a second proposed detention basin behind the police facility on Chambers Avenue.

**phase IV:** Design of a smaller storm sewer along Chambers Avenue, from the upper end of the Phase III detention basin to the intersection of Chambers Avenue and Prospect Street.