

DEL-CR13-4.04

Delaware County, OH

CLIENT/OWNER
Delaware County Engineer
50 Channing Street
Delaware, OH 43015
Doug Riedel, PE
(740) 833-2400

COMPLETION DATE
August 2015 (Design)
November 2017
(Construction)

PROJECT COST
\$432,000 (Design)
\$2.5 Million (Construction)

E.L. ROBINSON'S ROLE
Prime Consultant
Roadway Design

PROJECT MANAGER
Brent Downing, PE

REPRESENTATIVE STAFF
Barry Logan, PE
Kevin Fahy, PE
Kevin White, PE
Erik Brokamp, PE
Matt Cornett, PE, PTOE



E.L. Robinson completed an analysis of various intersection alternatives and construction plans for upgrades to the Worthington Road and Big Walnut Road intersection. In Genoa Township, Ohio, the existing intersection is a four-way stop controlled with the two roads meeting at an angle of $53^{\circ}\pm$. Worthington Road is classified as an urban collector, while Big Walnut Road is classified as an urban minor arterial, with both containing graded shoulders, roadside ditches, and no pedestrian facilities. As part of the project, a Feasibility Study was completed that included development of intersection alternatives, cost estimates, determining right of way impacts, traffic studies, turn lane development, and determining environmental impacts. Alternatives considered were curbed and uncurbed signalized intersections and roundabouts. Roundabout alternatives were designed to accommodate future widening along the Big Walnut Road corridor. In addition, intersection alternatives were developed at the Big Walnut Road and Ketterington Lane/Satinwood Drive intersection which also included signals and roundabout concepts. The signalized intersection option at Worthington Road and Big Walnut Road was selected as the preferred alternative. Construction plans included a two-way left turn lane on Big Walnut Road from Worthington Road to Ketterington Lane/Satinwood Drive. Accommodations for a future multi-use path along Big Walnut Road were also provided.

