

DGL Consulting Engineers, LLC

Project Name:

WOO-20-10.80 - U.S. 20/S.R. 420/Pemberville Road
Interchange

Client Name:

ODOT, District 2

Construction Costs:

\$ 19,000,000



Description:

The purpose of this project was to eliminate a hazardous, at-grade intersection at the south terminus of S.R. 420 at U.S. 20, by constructing an interchange at the site. Due to a directional ramp carrying S.R. 420 to U.S. 20 passing through the Pemberville Road intersection, a grade separation and interchange ramps at Pemberville Road was also required.

The work included widening and pavement replacement of 1.87 miles of U.S. 20, design of structures S.R. 420 and Pemberville Road over U.S. 20, design of ramp interconnects, interchange approach work and associated drainage, maintenance of traffic and traffic control work items. The two bridges consisted of:

S.R. 420 Bridge: Two– span prestressed concrete I-beam on semi-integral abutments and cap & column pier.

Pemberville Rd. Bridge: Two-span continuous ASTM A572 steel girder bridge on semi-integral abutments and cap & column pier.

Highlights:

- MSE walls were used in front of both structures to reduce the required span lengths and total construction costs for the bridges.
- Maintenance of Traffic plans resulted in uninterrupted traffic flow
- Improved access throughout area has benefited business development



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