

VARIOUS DRAINAGE AND CULVERT IMPROVEMENTS , TEWKSBURY, MA

Client: Town of Tewksbury, MA

Project Manager:

Daniel J. Coughlin, P.E.

This Project Summary represents several individual design and construction projects involving the evaluation, design, permitting, bidding and construction inspection and management of various culverts which were undersized and susceptible to surcharge and flooding. Mr. Coughlin completed these projects prior to forming CES. Projects involved survey, watershed assessments, hydrological evaluation, channel and culvert hydraulic evaluations, development of alternatives and costs for the Town's review, design, preparation of plans and specifications, coordination of all permitting, bidding services, construction inspection, shop drawing review and general construction management including payment requisition review and approval and change order review. Several of these projects also included property line research, utility research and wetland and habitat assessments. Design work also included several new roadway drainage designs including catch basins, drain manholes and roadway cross culverts.

Work was conducted to help alleviate recurring roadway and private property flooding as well as to improve existing facilities prior to major roadway improvement projects.

The total value of designed facilities was over \$2,000,000.

