



PARK DRIVE & RAYE ROAD DRAINAGE PROJECT

CALN TOWNSHIP, CHESTER COUNTY, PA

PARK DRIVE

Two (2) existing parallel CMP pipes crossing beneath Park Drive, which discharge into an adjacent creek, had been showing significant signs of corrosion. The deteriorating culvert was collapsing as evidenced by areas of depressed pavement in the roadway and cracked concrete along the curb line.

April Barkasi, President of CEDARVILLE Engineering Group, LLC., was the Project Manager responsible for the design and for the installation of 120 lf of new storm pipe, as well as two new inlets and a new endwall. All existing site and flow conditions were considered and evaluated in the design.



RAYE ROAD

Due to the deteriorating condition of the existing CMP culvert crossing beneath Raye Road, this culvert did not function properly during major storm events. The corroded culvert was also beginning to collapse, as evidenced by areas of depressed pavement in the roadway.

Ms. Barkasi researched existing flow conditions and designed the new system to replace 70 lf of CMP culvert as well as three damaged inlets with a new RCP culvert and three new stormwater inlets to fit the tight conditions around other existing utilities, as well



as re-contouring the roadway to create appropriate low points in the area of the two new inlets and thus alleviate ponding in the roadway.

PROJECT DETAILS

Client: Caln Township

Client Address: 253 Municipal Drive, P.O. Box 72149, Thorndale, PA 19372

Contact: Jeffrey W. McClintock (Township Engineer) - 610.933.4424

Project Address: Park Drive and Raye Road, Thorndale, PA 19372

Date of Contract: Summer 2008 - Winter 2008

Contract Cost: \$24,000

Date of Completion: December 2008

Construction Cost: \$90,000