

PILOT GROVE APARTMENTS ON-SITE SEWAGE DISPOSAL SYSTEM DESIGN

STOW, MA

PROJECT REFERENCE:

PILOT GROVE APARTMENTS
STOW, MA

PROJECT SCHEDULE:

2003-2007 PERMITTING & CONSTRUCTION

KEY PERSONNEL:

CRAIG MARTIN, P.E., PROJECT MANAGER
ELIZABETH WHITAKER, PROJECT ENGINEER



DUCHARME & DILLIS CIVIL DESIGN GROUP, INC. PROVIDED THE DESIGN AND CONSTRUCTION SERVICES FOR A 13,400 GALLON PER DAY SEWAGE TREATMENT AND DISPOSAL SYSTEM TO REPLACE A FAILING ON-SITE SYSTEM. PILOT GROVE CONSISTS OF 120 APARTMENTS AND DUE TO EXTREME SITE CONSTRAINTS THE REPLACEMENT SYSTEM WAS LOCATED AT THE TOE OF A SLOPE IN THE SAME AREA AS THE FAILING SYSTEM. SIGNIFICANT REINFORCED CONCRETE WALLS WERE REQUIRED TO CONTAIN THE GRADING.

THE DESIGN WAS REVIEWED BY THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION AND APPROVED IN 2004. CONSTRUCTION WAS COMPLETED IN 2006.

COMPONENTS OF THE \$800,000 CONSTRUCTION CONTRACT INCLUDED; PUMPING OF EXISTING SEWAGE FLOW; 28,000 GALLON SEPTIC TANK; 24,000 GALLON PUMP CHAMBER; BIOCLERE WASTEWATER TREATMENT UNIT, 2- 10 H.P. SUBMERSIBLE WASTEWATER PUMPS; PRESSURE DISTRIBUTION TRENCH SYSTEM OF 14- 100' TRENCHES; 7,000 CUBIC YARDS OF SEPTIC SAND; ELECTRICAL INSTRUMENTATION AND CONTROLS AND 500 FEET OF REINFORCED CONCRETE RETAINING WALL.