



Innovative Onsite Wastewater Systems

Housing Assistance Corporation

In collaboration with the Housing Assistance Corporation (HAC), the Horsley Witten Group, Inc. led the survey, site design and permitting of two affordable housing developments located in West Barnstable, Massachusetts. Kimber Woods is located on 7.2 acres and offers seven four-family townhouses, comprised of 18 two-bedroom units and ten 3-bedroom units. Lombard Farms is situated on 8.3 acres and consists of a twelve-unit building, designated for residents of age 55 years and older, and designed to complement the historical nature of the site.

Both sites also have state-of-the-art advanced de-nitrifying wastewater systems. The wastewater system for Kimber Woods utilizes a FAST treatment system for enhanced treatment. Wastewater is collected and transported to the treatment system through a gravity sewer main. From the treatment system, treated effluent is pumped through a force main to the leaching fields for disposal. The system was designed to treat to a 19 mg/L standard for total nitrogen.

The wastewater system for Lombard Farms consists of a 6,000 gallon septic tank, Bioclere 24/30 advanced treatment unit. Wastewater flows by gravity from the proposed building, into the 6,000 gallon septic tank for primary settling. From the septic tank, wastewater flow continues by gravity to the Bioclere unit. After treatment in the Bioclere unit, wastewater flows by gravity through the 9-outlet distribution box for disposal in the 6-68 foot long leaching trenches.



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