

# HENRICO COUNTY FIRE STATION HENRICO, VIRGINIA

## Renovating with Green Design Strategies



*Size: 8,400*  
*Budget: \$1,951,425*  
*Bid: TBD*  
*Est. Completion: 2012*

The Henrico Fire Station No. 13 project site is located at the intersection of Lauderdale Drive and Church Road in Henrico, Virginia. The total project square feet is 8,519 with 5,319 of that square footage as the re-use of the existing structure. The renovation plus addition will house one engine, one squad and one medic unit for the County of Henrico. Spaces include a dayroom, kitchen, bunk rooms, lockers, showers, a training room, a physical training room, vehicle bays and vehicle support bays. The project is pursuing LEED® Gold certification. Notable sustainable design features include:

- encouraging alternative transportation by providing bicycle racks and preferred parking for low-emitting and fuel-efficient vehicles;
- using native and adaptive plant species for over 50 percent of the open space to reduce water use by eliminating the need for irrigation and promoting biodiversity;
- installing highly reflective roof materials to reduce the heat island effect and to help keep the building cool;
- using of low-flow fixtures will result in over a 35 percent reduction in water use;
- using energy efficient exterior envelope strategies such as low-e glass, increased insulation, and daylight sensors to reduce energy bills by a modeled 21 percent;
- promoting a healthy indoor air environment by specifying the use of non-toxic paints, adhesives and materials which contain low or no volatile organic compounds;
- implementing a green cleaning program;
- opting for increased metering to allow for measurement and verification of the building's energy and water use;
- maintaining 100 percent of the existing walls, floors, and roof; and
- providing over 75 percent of the occupied spaces with natural daylight, and over 90 percent of the spaces have direct views of the exterior.