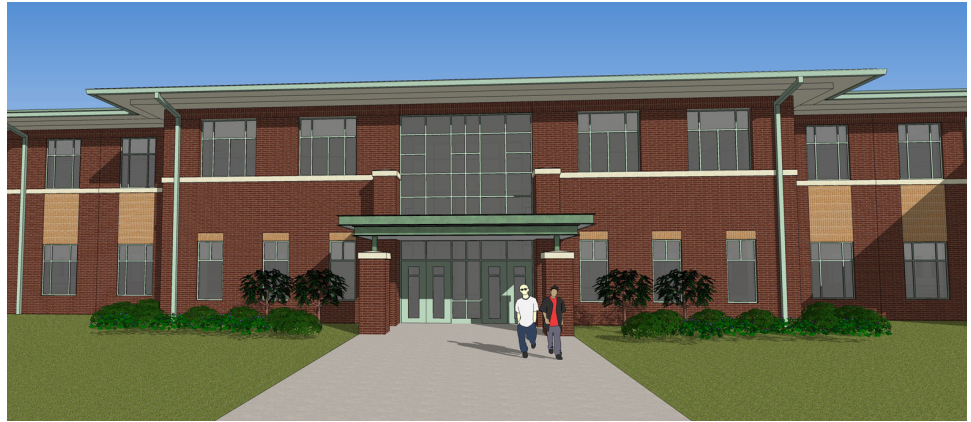


LOCUST GROVE MIDDLE SCHOOL ORANGE COUNTY, VIRGINIA

First LEED Endeavor for Orange County Public Schools

Size: 169,320 S.F.
Budget: \$37,500,000
Bid: \$30,407,000
Est. Completion: 2011



With a growing student population, Orange County recognized the need for a larger middle school in the northeastern portion of the county. This need translated into designing a two-story facility to accommodate 1,200 students. The school will be divided into grade houses for sixth through eighth grades. Spaces will include exploratory, special education, music, and general classrooms; science laboratories; a library; a commons area with stage; athletic gyms; locker rooms; kitchen; administration offices; a central courtyard; and various athletic fields.

The School Board decided to pursue Leadership in Engineering and Environmental Design (LEED®) certification for the county's first LEED project. The facility is currently LEED registered and will aim for Silver certification upon completion. Some of the high performance and sustainable design features being planned for the school include:

- providing bicycle lanes and racks, and preferred parking and drop-off areas for low-emitting and fuel-efficient vehicles and for carpool vehicles;
- selecting roof colors that will prevent excessive heat gain to the building;
- using low-flow plumbing fixtures and low water use kitchen equipment to reduce water use by at least 40 percent;
- selecting suitable mechanical equipment; using high-performance glazing, and choosing energy-efficient lighting to reduce energy use by at least 30 percent;
- diverting construction waste from landfills;
- using wood products, such as doors and wood flooring, constructed of timber obtained from Forest Stewardship Council (FSC)-certified forest managers;
- providing an increased level of lighting and thermal controllability for building occupants' comfort;
- providing views to the outside for 90 percent of regularly occupied spaces;
- employing green housekeeping and mold prevention plans to enhance and protect indoor air quality.