

KERSEY CREEK ELEMENTARY SCHOOL HANOVER COUNTY, VIRGINIA

**Public School
Commitment to
High Performance
Design**



*Size: 90,000 S.F.
Bid: \$15,800,000
Completed: August 2006
Mr. Paul Carper
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Construction
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This new elementary school design is based on solar orientation for enhanced daylighting potential in the two-story academic portion of the building. This orientation results in a strong “street presence” for visitors, and the 900 students attending the school will enjoy a playful combination of two different colors of glass. This high performance facility has been certified with the US Green Building Council as a Leadership in Energy and Environmental Design (LEED®) silver building. High performance features include:

- a preserved area of open area space equal to the building’s footprint;
- full cutoff exterior lighting fixtures (Dark Sky compliant);
- native and adaptive plant species that do not require permanent irrigation;
- waterless and water-efficient plumbing fixtures that contribute to a 41 percent reduction in water use;
- HVAC&R equipment that is free of CFCs, HCFCs, and halons;
- a modeled reduction in energy use of 27 percent;
- FSC certified wood doors and sports flooring;
- regionally manufactured building materials that contain recycled content as well as low-emitting adhesives, sealants, paints, and carpets;
- CO₂, temperature, and humidity monitoring systems; and
- outdoor views for 94 percent of the building spaces.

This school is the first building in Hanover County, Virginia to make a public commitment to high performance design. As such, the building will be used as a tool to educate students on “green” features.

