

PAINT BRANCH HIGH SCHOOL MONTGOMERY COUNTY, MARYLAND

Expansion Meets Environmental Performance



*Size: 330,000 S.F.
Budget: \$85,000,000
Completion: 2010*

The modernization of Paint Branch High School in Montgomery County, Maryland will expand the existing facility's area by over 20 percent to accommodate up to 2,400 students, vastly improving the amenities available to staff and students alike. Taking further advantage of this unique opportunity for modernization, the county has also decided to pursue Leadership in Energy and Environmental Design (LEED®) certification for its facility. By following the guidelines set forth by the U.S. Green Building Council, the new school will reduce energy consumption, water use, and environmental impact through the following strategies.

- Linking with public bus lines, conveniently located bike racks, and preferred parking for fuel-efficient vehicles/carpools to encourage alternative commuter transportation.
- Preserving open space and the surrounding ecosystem.
- Managing stormwater both reduce runoff quantity and improve quality.
- Using white reflective roof surfaces combined with a vegetated "green roof" portion to reduce heat island effects and provide for student learning opportunities.
- Installing water-conserving, low-flow and dual-flush plumbing fixtures.
- Purchasing 35 percent of the building's energy from clean and renewable "green power" sources.
- Diverting construction "waste" from landfills that can instead be reused, recycled, and resold.
- Adhering to indoor air quality management plans and using low-emitting building materials to safeguard occupant health.
- Utilizing an environmentally-friendly housekeeping program and green user education.