

CASEY MOWERY
AE CONSTRUCTION MANAGEMENT

WASHINGTON CHRISTIAN ACADEMY

**FLAGSHIP SCHOOL
AND
GYMNASIUM**

Owner:
Washington Christian Academy

Architect:
Grimm + Parker Architects

Const. Manager/Design-Builder:
Forrester Construction Company

Civil Engineer:
Rodgers Consulting, Inc.

Structural Engineer:
Columbia Engineering, Inc.

Mechanical & Electrical Engineer:
L.S. Grim Consulting Engineers

Washington Christian Academy
16227 Batchellors Forest Rd
Olney, MD 20832



General Building Data:

- Size: Flagship — 67,594 SF, 3 stories / Gymnasium — 10,655 SF, 1 story
- Function: School for approx. 300 K-12 students & WCA administration offices
- Cost: \$20.7 Million including Site, Flagship, & Gymnasium

Construction:

- Project Delivery Method: Design-Build
- Dates of Construction: January 2007 — August 2008

Architecture:

- Exterior: Brick façade with prominent aluminum & glass storefront windows
- Focal Point: Traditional peaked towers with gabled roofs

Structural:

- Foundation: 5" SOG supported by continuous concrete footings & 20"x 20" reinforced concrete piers
- Envelope: Standard cavity wall system & Built-Up roof
- Superstructure: 8" CMU load bearing walls support steel joists, metal deck, & 3" concrete slab floors

Mechanical:

- Room Control: VAV fan powered terminal units with electric heat serve multiple ducts
- Roof: Roof top Air Handling Units serve entire building, typ. 480V, 3 phase

Lighting/Electrical:

- Lighting: Fluorescent lights throughout school accented with indirect wall pendants
- Electrical: Receptacles on roof for servicing mechanical equipment
- Emergency: Self-testing bodine ballasts & circuitry will automatically test emergency lights for 30 seconds every 30 days and 90 minutes per year