PRINCE FREDERICK HALL

College Park, Maryland 20742

General Information

- Occupancy: Multi-use Dormitory
- Construction dates: May 2012- Aug 2014
- Approximate Size: 185,500 gsf
- Stories: 7 Stories, 1 underground

Architecture

- Multipurpose dormitory
- 70 Percent Residential
- 16 Percent Academic
- 10 Percent Other
- 4 Percent Offices
- Single and double occupant Dormitories, house over 450 students
- Red Traditional Brick is on most of the façade
- First floor has limestone masonry to break up the façade colors.

Primary Project Team

- Owner: The University of Maryland
- Architect: WDG Architecture PLLC
- Contractor: Clark Construction LLC
- Civil Engineer: Site Resources Inc.
- Structural Engineer: Cagley & Associates Inc.

Structure

- Construction material: Cast in place concrete
- Slab System: 2-way slab with typical depth 9 inches
- Lateral System: 7 Concrete shear walls
- Columns: Multi- sized square concrete columns, rebar reinforced.
- Foundation: Mix of spread footers and strip footers.

Lighting and Electrical

- Interior lighting is mostly fluorescent.
- Housed in troffers and recessed down lights
- Exterior lighting is done with LED.
- Two 3000 kVa transformers feed the building from the north side.
- Power is transformed to 208Y-120V for receptacles and lighting

Mechanical

- There are 2 roof top units and 6 air handling units. The 6 air handling units run with economizers and distribute to the VAV system for ventilation. There are also 2 main chillers for the building.

Christopher Cioffi

CPEP SITE: http://www.engr.psu.edu/ae/thesis/portfolios/2014/cjc5333/index.html

STRUCTURAL OPTION