Hilton Hotel at BWI Airport

Linthicum Heights, MD

Project Information

Estimated Project Cost: $27 million
Size: 277,000 sq ft (gross)
Project Delivery Method: Design-Build
Construction: June 2005–October 2006
Stories: 11 above grade and a penthouse, 1 below grade parking garage level
Function: Full-service hotel
Occupancy: Guest rooms, restaurant, bar, meeting rooms, offices, pool, exercise room

Project Team

Owner: Buccini/Pollin Group, Inc
GC: Hitt Contracting, Inc
Architect: Brennan Beer Gorman Monk PLLC
Interior Designer: PGAL
Civil Engineer: Century Engineering, Inc
Structural Engineer: Holbert Apple Assoc, Inc
MEP Engineer: RG Vanderweil Engineers

Architecture

- Modern exterior design w/ curtain walls, metal panels, and pre-cast concrete panels
- Modern interior feel w/ wood paneling walls and metal detailing throughout
- Ornamental sun shades above south-facing windows
- Covered porte cochere valet parking area and entrance

Structural System

- Cast-in-place concrete framed slabs 9 in thick on ground, second, and third floors
- Post-tensioned concrete beams, columns, and 7-1/2 in slabs on fourth through eleventh floors
- Various W-shaped structural steel members and open-web joists in porte cochere, lobby, meeting rooms, and pool areas

Lighting/Electrical System

- 480Y/277V, 3Φ, 4W service from (1) 1500kVA and (1) 2500kVA transformer, (14) 30–500kVA transformers to 208Y/120V, 3 Φ, 4W service
- (1) 600kW diesel standby generator
- 120V and 277V fixtures: wall washers, recessed fluorescent troffers, and various downlights

Mechanical System

- VAV system w/ hot water reheat coils in public spaces on ground and second floors
- Individual guest room 11 or 13.6 btuh water source heat pumps w/ master thermostats
- (3) 3350 MBH fossil-fuel boilers
- (1) 2-cell, 2540 gpm, 848 ton, 247,100 cfm cooling tower for condenser water system
- (4) 7500-25,000 cfm, 364-1754 MBH AHUs
- (6) 3400-11,100 cfm, 115-833 MBH RTUs

Nathan Patrick — **Mechanical Option**

http://www.arche.psu.edu/thesis/eportfolio/current/portfolios/ntp111/

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