



# Baltimore Hilton

## Baltimore, MD



### **Project Overview**

Size: 850,000 Sq. Feet

Cost: \$250 Million

Construction Dates: February 2006- August 2008

Delivery Method: Design-Build

Building Use: 757 hotel guest rooms, grand/junior ballrooms, conference/meeting rooms

### **Project Team**

Owner: Baltimore Hotel Corp.

Architecture: RTKL

Structural: RTKL, Hope Furrer

Mechanical: Southland Industries

Electrical: M.C. Dean

GC: Hensel Phelps

### **Architecture**

- Walking bridge over Eutaw St. connecting 3-story east podium and 21 story west podium
- Lower levels enclosures are brick and glazed aluminum curtain wall, while towers are metal panel walls with fixed aluminum windows
- Green roof utilized, and towers have PVC membrane roof



### **MEP**

- 8 AHU's (274,000 cfm) serving VAV systems in public spaces and lower levels
- 4 MAU's (86,000 cfm) supply conditioned outdoor air to guest rooms
- 1100 KW Emergency Generator
- 2000A 480/277 serves the East Podium
- Two 4000A 480/277 serves the West Podium

### **Structural**

#### Foundation

- Columns bearing on drilled caissons
- Spread footings bearing on reinforced soil

#### Lateral Systems

- Curtain walls
- Stairwells and Elevator Shaft walls are shear walls

#### Gravity System

- Concrete columns
- Concrete frames
- Steel brace frames and trusses

# Christopher A. Simmons

Structural Option

<http://www.engr.psu.edu/ae/thesis/portfolios/2010/cas5098/index.html>