

# THE HILTON BALTIMORE CONVENTION CENTER HOTEL BALTIMORE, MD



## Project Overview

- Size: 850,000 square feet
- Cost: \$250 million, \$16 million mechanical
- Construction Dates: February 2006-August 2008
- Delivery Method: Design-Build
- Building Use: 750 hotel guest rooms, conference/meeting rooms, restaurant, grand and junior ballrooms, swimming pool, and parking garage

## Mechanical

- Comfort Link district chilled water with two 1,000 ton heat exchangers
- Trigen district steam at 150 psig
- 8 AHUs (274,000 cfm) serving VAV systems in public spaces and lower levels
- 4 MAUs (86,000 cfm) supply conditioned outdoor air to guest room towers
- 750 Guest rooms conditioned by 2-pipe vertical FCU's with electric resistance heat

## Structural

- Steel encased concrete columns
- Two way flat concrete slab floor construction
- Exterior walls are non-load bearing
- Columns bear on drilled caissons or caisson cap
- Spread footings bear on reinforced soil
- Connecting bridges supported by steel beams

## Project Team

- Owner: Baltimore Hotel Corp.
- GC: Hensel Phelps
- Architect: RTKL
- Mechanical: Southland Industries
- Structural: RTKL; Hope Furrer
- Electrical: MC Dean
- Civil: Whitney, Balley, Cox, and Magnani

## Architecture

- Three story East Podium and 21 story West Podium with guest towers are connected by a walking bridge over Eutaw St.
- Lower levels are brick and glazed aluminum curtain wall, while guest room towers are silver metal wall panels with fixed aluminum windows
- Both podiums utilize a green roof system, and guest room towers have a traditional PVC membrane roof

## Electrical

- BGE service enters West Podium and splits three ways. 2000A 480/277 serves East Podium while two 4000A 480/277 serve West Podium
- 1100KW Emergency Generator
- Public spaces lit by recessed and surface mounted compact fluorescent lamps

ANDREW RHODES

MECHANICAL OPTION

<http://www.arche.psu.edu/thesis/eportfolio/2007/portfolios/ARR171/>