

The Montgomery County Conference Center and Hotel (MCCCH)

Rockville, MD - Jessica R. Baker, Mechanical Option



Architecture

- ~ 3rd largest conference center and hotel in the Washington, D.C. area, 240,000 sq. ft.
- ~ Two story conference center
- ~ Ten story hotel with lower level service area
- ~ Conference center ballroom capacity 2,535 max
- ~ 225 guestroom hotel

Structural

- ~ Hotel-structural concrete columns and girders with two-way slabs
- ~ Conference center-combination of structural concrete and steel (open web steel joists span large open areas)
- ~ Foundation is concrete spread footings on geopiers

Electrical/Lighting

- ~ 265/460V, 3 phase, primary voltage in conference center/4000A switchboard and 3 step-down transformers to 120/208V
- ~ 120/208V, 3 phase, primary voltage in hotel/2-2500A switchboards
- ~ 15KVA, 208V UPS for conference center and hotel main lobby
- ~ 500kW diesel engine emergency generator
- ~ Custom incandescent lighting fixtures for public areas with back-of-house 2x2 and 2x4 fluorescents
- ~ Battery powered compact fluorescents for emergency lighting

Primary Project Team

Building Owners: Maryland Stadium Authority/Office of Economic Development for Montgomery County and IRP/QDC White Flint Associates

Operator: Marriott International

Architect: RTKL Associates

Interior Design: Soe Lin & Associates

Structural Engineer: KTLH Engineers

MEP Engineers: Engineering Design Group and Golden Engineering, Inc.

Civil Engineer: Delon Hampton & Associates

Audio/Visual Design: Electro-Media Design, Ltd.

Kitchen Design: Cini-Little International, Inc.

Vertical Transportation: Lerch Bates N. A., Inc.

General Contractor/CM: Hitt Contracting

Mech./Plumb. Contractor: Southland Industries

Electrical Contractor: J.E. Richards

Mechanical

- ~ 9 AHU's ranging 1,400 - 50,000 cfm
- ~ VAV units with electric reheat distribute air to individual spaces in conference center and hotel public areas
- ~ CV systems are provided for kitchen, exercise room, and pool area
- ~ 2 make-up air units are used in kitchen area
- ~ Vertical fan coil units in hotel guestrooms
- ~ 2-300 ton/5000MBH direct fired absorption chillers for chilled and hot water
- ~ 2-1300 gpm cooling towers

Construction/Special Features

- ~ Overall project cost: \$45 million
- ~ Mech./Plumb. cost: \$7 million
- ~ Start Date: Jan. 2003
- ~ Turnover Date: Oct. 2004
- ~ Delivery: Design-Bid-Build
- ~ Extensive Audio/Visual System for C.C.
- ~ 126-seat amphitheatre and C.C. veranda area