

# Butler Memorial Hospital | New Inpatient Tower Butler, PA



## Project Team

**Owner:** Butler Healthcare Providers  
**General Contractor:** Turner Construction  
**Owners Rep:** Ritter Construction  
**Architect:** Design Group  
**Engineers:** Hammel, Green, & Abrahamson

## Mechanical

Comprised mainly of (3) large rooftop air handlers supplying 62,000 CFM each with (5) smaller air handling units supplying the balance. In the mechanical room at ground level, (2) 400 ton chillers and (1) 119 ton chiller supply the air handlers with cool water., while (2) 7200 MBH boilers supply hot water used for heating. The system also takes advantage of variable air volume boxes and finned radiant heat along the perimeter of the building in patient rooms.

## Electrical

The hospital is serviced with 3 phase, 4 wire incoming service at 480/277V. The high voltage is used primarily for running heavy equipment, motors, and fans as well as fluorescent lights before being stepped down to 208/120V. The lower voltage is for general use throughout the hospital.

## Structural

The hospital is supported by steel wide flange beams and columns which are carried by poured concrete caissons and grade beams. Resting on top of the wide flange beams is a composite metal deck system with shear studs and 3-1/2" of concrete topping. Columns are laterally braced using K frame braces. Typical exterior wall construction is face brick with 2" rigid insulation mounted on 6" steel studs with gypsum wall board on both sides.

## Statistics

**Occupancy:** Hospital: Surgery, Recovery, CCU  
**Cost:** 93 Million (Guaranteed Maximum Price)  
**Size:** 209,678 Square Feet  
**Levels:** 6 Above Grade - 2 Below Grade  
**Construction:** September 2008 – July 2010  
**Delivery:** Design – Bid – Build

## Architecture

The state of the art hospital welcomes patients and visitors with a grand atrium invigorating guests with hope and light. An abundance of natural daylight and cheerful colors splash off the interior of the hospital creating a youthful vibe within the confines. Cutting edge operating and recovery rooms allow patients to experience the finest in healthcare quality.

The exterior of the hospital bridges the contemporary hospital interior with the historic reverence of a town like Butler, Pennsylvania. Red brick veneer and a series of aluminum curtain wall systems are the main highlight as the north façade gently curves around to the west taking into account the natural lay of the land.



**Matthew S. Geary | Mechanical Option**