

# Charlottesville Community Hospital

Charlottesville, VA

## Structural System

The Hospital is built predominantly of a cast in place concrete structure, which includes concrete beams, columns, slabs, and shear walls. The foundation incorporates grade beams and 88 total caissons. Steel beams support the Northwest cantilevering corner of the building on floors two-six.

## Mechanical System

An air to air mechanical system is implemented with the use of 3 air handling units stationed on the roof. A water to air system is also evident by use of VAVs. These are found in a majority of rooms on every floor. Two chilled water pumps service the buildings VAV system.

## Electrical System

The electrical system consists of a three phase 480Y/277V main switch board and has a max load of 4000 amps. In addition, 480Y/277V is the main utility transformer, which has a max load of 2500KVA. For added insurance, a diesel powered emergency generator is provided, with output capacities of 1500KW/1875KVA.



View looking Southeast from 1223 West Main Street, Charlottesville, VA

## Building Information

- 200,000 Gross SF
- LEED Silver (pending)
- \$141.6 million
- 7 above grade floors

## Architecture

The Building's façade includes brick on the East and South faces, and glass on the North and West. The glass faces of the structure are taken into consideration when orienting the interior. Reception areas, play spaces, and general waiting areas are located near these faces to provide nature light, while exam rooms, operating rooms, and nurse stations are located in the center of the building and towards the rear brick walls.

**Completion Date:**  
**Summer 2014**

**Joe Bonacci**  
Construction

Special Thanks to

**ISEC**  
beyond boundaries