

# ABDULWAHAB HASAN - CONSTRUCTION MANAGEMENT PENN STATE HERSHEY MEDICAL CENTER CHILDREN'S HOSPITAL



## PROJECT TEAM

**OWNER:** PSU Hershey Medical Center  
**CM AGENCY:** L.F. Driscoll Co, LLC  
**ARCHITECT:** Payette Associates  
**STRUCTURAL ENGINEER:** Gannett Fleming INC  
**MEP ENGINEER:** BR+A Consulting Engineers, LLC  
**LANDSCAPE ARCHITECT:** Hargreaves Associates

## DESIGN/ARCHITECTURE

- Ties in to existing Cancer Institute Building.
- Aluminum Curtain Wall Facade.
- Granite and Limestone Cladding Facade.
- Out-Door Healing Garden Between the Cancer Institute and Children's Hospital.
- Pharmacy, Blood Bank, and Radiology in basement.
- Lobby, Servery and Dining Areas, as well as hematology/oncology clinic on First Floor.
- Surgery and PACU housed on the Second Floor.
- Medical and Surgical Rooms on the Third Floor.
- PICU and PIMCU Rooms on the Fourth Floor.
- Office Fitout on the Fifth Floor.

## STRUCTURAL SYSTEM

- Foundation: Column Piers + Grade Beams on Micropiles.
- 6" SOG with 5" and 8" transitions at some locations.
- 2" deep, 20 gage composite metal deck with 4-1/2" topping slab.
- Steel bay construction
- Multiply-Asphalt Built-Up roofing with EPDM membrane
- Designed to accommodate 2 future floors.



## PROJECT INFO

**NUMBER OF STORIES:** 5 Stories + 1 Underground  
**BUILDING AREA:** 262,587 GSF  
**CONTRACTED GMP:** \$115,726,613  
**CONSTRUCTION DATES:** March 2010 - August 2012

## CONSTRUCTION LOGISTICS

- 6-Detailed construction phases will take place during the construction of the new facility:
  - Initial Start
  - Sub-Grade Preparation
  - Superstructure Erection
  - Structural Skin Erection
  - Building Water Tight / Fitouts
  - Site Improvements
- ILS/ICRA plans on all construction activities is mandated per contract.
- Excessive noise and vibrations must be coordinated with Cancer Institute Facility to insure no distractions to surgical rooms, patients, and labs.

## MECH/ELEC SYSTEMS

- 5-Major AHU's supplying 350,000 CFM to CAV and VAV boxes.
- 2-Fans per AHU with 35,000 CFM output per fan.
- 2-Primary Chilled Water Pumps @ 3300 GPM each.
- 2-Primary Hot Water Pumps @ 1200 GPM each.
- Electrical power supplied by 15KV feeder.
- 13.8KV "K" Dry Type Transformer on 3-Phase 480/277 Circuit supplying power to the Hospital.



L.F. Driscoll Co., LLC

PAYETTE



<http://www.engr.psu.edu/ac/thesis/portfolios/2011/amh440/index.html>