

BUILDING[®] BRIEFS

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Creating A Good Image At Yale-New Haven Hospital

Renovating spaces quickly in a hospital environment may not be that unusual anymore, as time is of the essence in healthcare. However, when Yale-New Haven Hospital's new Pediatric Cardiac Catheterization Laboratory was recently designed and constructed in just four months, the Hospital staff was pleasantly surprised. A project of this magnitude can often take a year or more for design and construction. Petra and the design team established a plan to think through several scenarios, during which they anticipated and removed several obstacles, allowing them to meet the Hospital's critical four month schedule.

The large state-of-the-art imaging equipment, manufactured by Philips Medical Systems, is among the most advanced available to guide physicians during procedures. In healthcare, a catheter is a tube that can be inserted into the patient to allow drainage or injection of fluids or to provide access for procedural instruments. The new Pediatric Catheterization Laboratory is a hybrid procedure room. While built for a specific function, it is actually a class three procedure room, capable of accommodating most cardiac intervention procedures, pediatric or adult. It was important to complete the renovation and installations as



The newly renovated Pediatric Cardiac Catheterization Laboratory at Yale-New Haven Hospital.

quickly as possible, to support a new team of physicians at the Hospital. The advanced imaging equipment facilitates the most precise procedures, and plays a vital role in the high quality of care provided by the Hospital.

Petra's healthcare construction experience, and familiarity with hospital staff, procedures, and facilities, allowed the entire team to work efficiently, expediting the exchange of information between the construction, design and owner teams.

The project included structural reinforcement of the floors, a new partition layout, millwork, a new radiation shielding system, structural steel above the ceiling to support the new

equipment, new finishes, custom millwork and an LED ambient lighting system. Since the space was previously occupied for a different use, new HVAC, fire protection, and medical gas systems were also installed. Adding to the challenge was the proximity of other critical care spaces. The construction was directly above the Emergency Department and adjacent to active procedure rooms. Vibration, noise, and dust were closely controlled, requiring flexibility and responsiveness by the construction crews.

The work was completed in two

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shifts, sixteen hours per day, six days per week. "This was truly a collaborative effort between the design team, construction team, vendors, and hospital staff," commented Petra Healthcare Team Leader Noel Petra. During the first month, the design was adjusted on a daily basis as previously concealed conditions in the space were revealed and addressed. Infection control is critical when working in hospital environments. The space was fully contained with negative air pressure at all times. "Our Project Managers are ASHE (American Society of Healthcare Engineers) certified, so they understand the procedures and

construction methods which must be followed when working in an active hospital," added Noel. Transport of construction debris, tools, equipment, and new materials was restricted to early morning and late evening, to minimize disruption in the normally busy corridors. Maintaining high quality patient care in the Hospital was the number one priority of both the Hospital and the construction team.

The ambient LED (light emitting diode) lighting system was custom designed and installed, providing a variety of settings. This type of ambient lighting is a cutting-edge patient care technique and is used to help relax the patients and create optimal

technical lighting during procedures.

By working collaboratively, the team was able to deliver the project on a very aggressive schedule with no significant delays or issues. This allowed the Hospital to benefit from many months of additional procedures, while minimizing the impact on patient care and operations.

Petra is proud to have been a member of this project team, thereby contributing to the overall success of our long-term client, Yale-New Haven Hospital.

If you need professional assistance with your construction project, please call Guido Petra, President or Terry Wooding, Executive Vice President at 203-865-6043.

Project Profile

Owner:

Yale-New Haven Hospital
New Haven, CT

Project:

Pediatric Catheterization Laboratory
and Procedure Room

Project Delivery System:

Construction
Management

Project Team

Yale-New Haven Hospital

John Fahey, M.D.
Debbie Capone, Catheterization Lab
Manager
Elizabeth Fletcher, R.N., Patient Services
Manager
Francine LoRusso, R.H., M.H.A., Director
of Patient Services
Doug Vaughn, M.D.
Peter Focareto, Project Manager
Jeremy Asnes, M.D.
Nina Purslow, Catheterization Lab

Petra Construction Corporation

(Note: Staffing covers multiple work shifts)
Noel Petra, Senior Project Manager
James Brenia, Project Manager
Joanne Zezima, Assistant Project Manager
Mike Kiwanis, Superintendent
Joe DeAngelis, Superintendent
Terry Deveney, Superintendent
Glenn Stevens, Millshop Manager
Al Gadd, Millshop Foreman
Jim O'Brien, CAD/Draftsman
Ken Woodward, Director of Estimating

Design Team

BAM Studio

Ross Cole, AIA/IFMA
Daniel Ahn, Design Manager
Daniel Castner, Project Manager
Nicole Swerski

Engineering

Natcomm, LLC

Frank Centore, P.E., Principal
Carlo Centore, P.E., Structural Engineer
Christopher Daddi, P.E., Electrical
Engineer
Ken Siani, Project Engineer, Mechanical

Special thanks to all of Petra's jobsite trade personnel, subcontractors and material suppliers

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