



High-Profile FOCUS: HEALTHCARE FACILITIES DEVELOPMENT NEWS

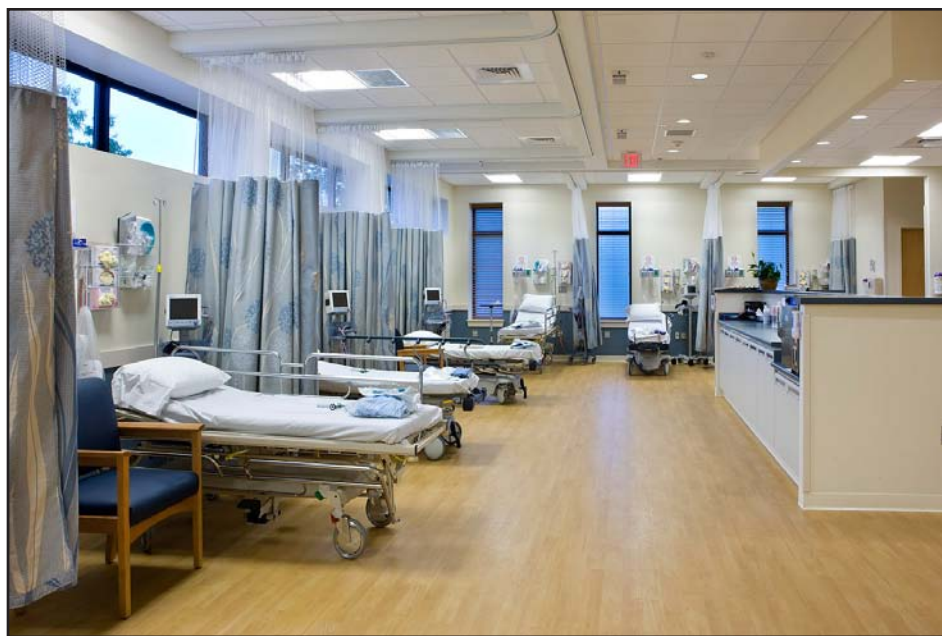


Healthcare Design Goes High Tech and 'Lean'

Worcester, MA - Designing for healthcare facilities requires a process that extends past architecture and design. Margulies Perruzzi Architects' (MPA) design philosophy involves the collaborative effort of the client and design team, the use of technology to optimize design decisions, and an understanding of operational efficiencies to create a healthcare environment that facilitates and supports the health and well-being of both patients and staff. For MPA and Fallon Clinic, the largest multi-specialty group healthcare practice in central Massachusetts, the collaborative effort has produced three health facilities that achieve these goals.

For Fallon's New England Scope center in Worcester, MPA provided the creative vision to transform a steel-frame, former warehouse and office space into a welcoming and comfortable outpatient services facility. The project team, including construction manager Consigli Construction Co., Inc., created a new building from the existing structure, reusing only the slab and steel frame to produce the new exterior and interior design. The facility was designed interactively with direct input from Fallon's medical staff.

The new 10,000sf outpatient endoscopic center includes four procedure rooms with recovery areas, patient prep areas, waiting areas, and exam and consult rooms. MPA retrofitted the largely windowless and open structure into an intimate and circular floor plan, allowing patients to move discretely from reception, prep and



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Lean design and BIM were used to create the most efficient, organized, and streamlined atmosphere.

procedure areas, and recovery rooms with a measure of privacy. The firm also redesigned the entrance and provided a new reception area more fitting to a medical environment. To complete the transition, ribbon windows positioned high in the walls of the recovery area add natural light and airiness without compromising patient privacy.

MPA's team of talented architects and interior designers use an interactive design approach and cutting-edge technology, such as BIM (building information

modeling) and the Lean process management philosophy, to integrate the input of those who will use the space into every aspect of the design. The term "Lean design" is the collaborative effort by all involved in any process to reduce waste, increase efficiency, eliminate redundancy, and increase value. The advantages of BIM include reducing the number of costly changes during construction, enhancing communication and coordination between project team members, and providing better visualization of the project design.

For both projects, MPA and Fallon used the Lean process to analyze and simplify daily functions, and used BIM to allow project team members, as well as various community stakeholders, to see the designed space in 3D. Fallon Clinic completed studies of their processes before and after redesign, and determined that as a result of MPA's design using the Lean method, the total wait time at the Leominster family practice was cut from 33 minutes to just nine minutes. This will enable the clinic to increase throughput of



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Fallon's New England Scope center

patients by 31%. Because the increase in efficiency, rather than new employees or any other fixed cost, the clinic will see a 31% increase in profits. The improved layout at the ReadyMED Clinic promises an increased efficiency of 29% by reducing wasteful waiting time, lost effort, and uncertainty.

Lean process discussions and BIM-based design can help make healthcare construction less costly, as well as improve the way clinical and administrative processes are performed.

For the design of Fallon Clinic's new ReadyMED urgent care facility in Shrews-

bury, as well as a pilot "medical home" family practice in Leominster, MPA's goal was to use Lean design, as well as BIM, to create the most efficient, organized, and streamlined atmosphere. Over the course of a weeklong meeting, MPA and Fallon worked together to understand what patients go through on a typical visit to a medical office and how an improved layout and design could improve the process and the experiences of staff and patients alike.



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