

Children's Hospital of Orange County, Bill Holmes Tower

Orange, California, USA



- Owner: Children's Hospital of Orange County
- CM: Jacobs
- Completed: December 2012
- Value: US\$307,700,000
- Delivery Method: CM Multi-Prime for make-ready;
Design-assist GMP for construction

A Major Expansion

- Area's only pediatric ER, with 31 treatment rooms
- Pediatric heart institute
- 28 new patient beds
- Operating rooms
- Radiology, pathology labs
- Enhanced family amenities
- Space for future expansion

A Multi-Phase Upgrade

- Reduced 17 design phases to 9
- Trimmed \$88 million from budget
- Continued use of current facilities during work
- Three phases:
 - Make-ready: Reconfigure part of current facility
 - Demolition: medical building, parking, stair tower
 - New construction

Innovation and Creativity



- Just-in-time delivery of all materials and removal of dirt and debris
 - BIM modeling
 - Prefabrication of most systems, delivered ready to install
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- “Blending” old and new mechanical/electrical components: Old systems remained active as new ones were installed
 - “Parallel” systems linked antiquated and cutting-edge tech

CM's Leadership Role

- Served as owner's rep throughout project
- Coordinated architects, multi-prime contractors, general contractor
- Open communication among all participants



Keeping Up to Date



- Technology would become obsolete during project timeline
- “Re-validated” all equipment and tech specs with expert consultant
- Updated spatial issues, M/E/P, changing loads

A Unique Environment

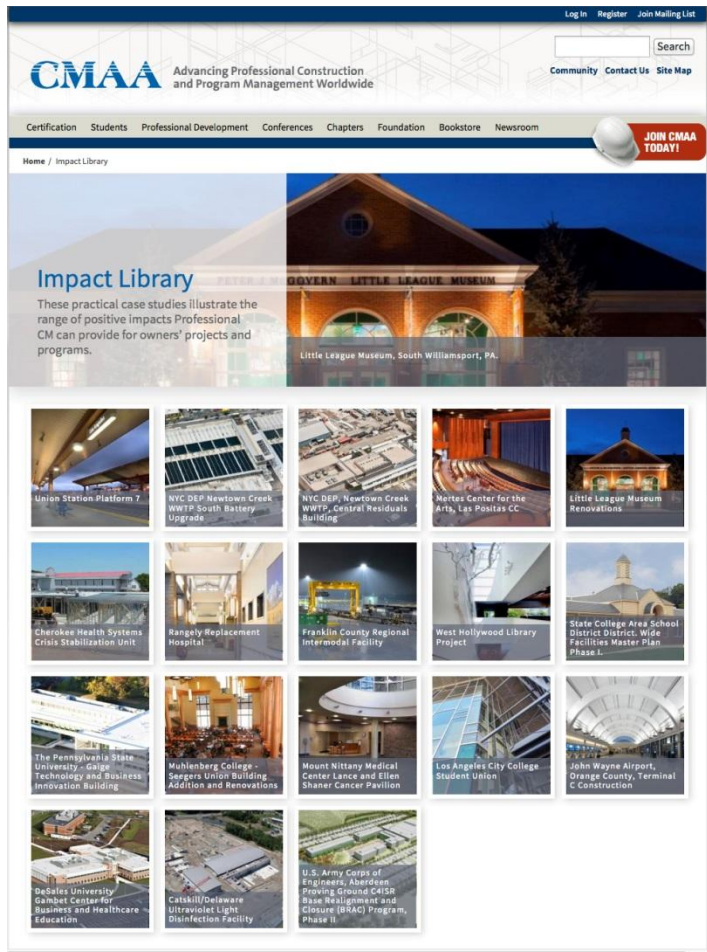
- Walt Disney Imagineering
- Themed floors, from “beach” to “birds and sky”
- Family Resource Center
- Interactive media rooms
- Teen rooms
- Play area



Outcomes

- 64 days ahead of schedule
- \$60 million budget savings
- Comprehensive safety program to create a “culture of safety”
- 2,277,837 labor hours with 15 recordable injuries

For More Examples



- Online Impact Library with case studies of successful CM/PM
- Access at:
 - www.cmaanet.org/impact-library