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Bovis Lend Lease Healthcare is a highly specialized group of construction professionals committed to addressing the distinct objectives of the ever-changing healthcare market through the collaboration of the group's strengths and expertise. The professionals comprising this group have dedicated their careers to healthcare facility construction.

Focusing its services on the specialized needs of the medical facility construction, Bovis Lend Lease Healthcare has fine-tuned its services addressing unique requirements inherent with working in and around patients in a sterile environment.

Bovis Lend Lease Healthcare provides customized planning, project and construction management and consultancy services, delivering projects in a cost efficient and timely manner whilst setting benchmark standards in quality.

Numerous Bovis Lend Lease healthcare projects have received recognition for construction excellence and safety.

The depth of knowledge available in the Healthcare Group is evidenced by its range of projects.

Project Case Studies

North Shore-Long Island Jewish Health System

Medical City Dallas Hospital

Guadalupe Regional Medical Center

Underwood Memorial Hospital — Additions/Renovations

Premier Medical Plaza

North Shore-Long Island Jewish Health System

New Hyde Park, NY



Parking Garage

The construction of a seven-story, 310,000 square foot parking garage providing 1,200 vehicle spaces, manager's office and restroom was completed in 13 months. (US\$28,000,000; 2008)

Neonatal Intensive Care Unit

The two-story, 15,000 square foot addition expanded the neonatal intensive care unit, providing an additional 24 beds, and provided office space for faculty. The courtyard was enclosed with a 50-foot high skylight. (US\$15,193,000; 2008)

Cogeneration Equipment Room

The project involved the construction of a new cogeneration equipment room within the Energy Center, capable of producing 2.8 Mega Watts of power with heat recovery and high-pressure steam production. The new equipment connects into the existing MEP services and modifies the electrical distribution in the Energy Center. (US\$6,000,000; 2008)

Emergency Generator Room

The project included the construction of a new emergency generator room within the existing Energy Center, the addition of a new 2000 KW generator with associated switchgear and provisions for a future third generator. The new equipment connects to the existing MEP services and modifies the electric distribution in the Energy Center, existing generator room and Emergency Department building. (US\$4,000,000; 2008)

Dietary Overbuild

A 22,000 square foot, 26-bed Intensive Care Unit addition, atop the dietary department (that remained operational throughout construction); new MEP infrastructure supports the kitchen and intensive care unit suite. The addition also provided space for administrative offices, a family lounge, a pediatric holding area, conference room and staff area. (US\$18,000,000; 2007)

Emergency Department — Make Ready

Work included the relocation of underground utilities including water, 5kv electrical services, site lighting, oxygen, signals and storm sewers to outside the footprint of the new emergency department expansion (US\$2,600,000; 2006)

Site Distribution and Utilities

The 52-acre distribution and utilities project involved an underground network of steam, chilled water, high-pressure natural gas, water, 5kv normal power, 480v emergency power, copper and fiber optic tele/data, and pneumatic tubes for both existing and planned buildings. (US\$11,000,000; 2006)



Zucker Hillside Ambulatory Care Pavilion

Demolition and construction of an 87,000 square foot building housing administrative space, classrooms, kitchen/dining area and a gymnasium for patient use; basement area houses electrical switchgear, fire pump, elevator equipment and shell space, which was subsequently fit-out for the child psychology suite. (US\$23,000,000; 2005)

Demolition

Demolition of the boiler/refrigeration plant after the new energy center was completed and online. (US\$737,000; 2005)



Child Psychology Ambulatory Care Pavilion

The Zucker Hillside Ambulatory Care Pavilion fit out resulted in more than 12,000 square feet of finished spaces including approximately 50 psychiatric evaluation rooms, three waiting rooms, two new public toilets and two suite toilets. The work, which also included interior demolition, existing ductwork and portions of the slab on grade for new underground plumbing, was completed in an occupied building on a active psychiatric campus. All deliveries were scheduled so as to not interfere or co-mingle with the patient population. (US\$2,200,000; 2005)



Teaching Center

This gut renovation of existing area provided space for the relocation of the hospital conference center. Work included construction of a new board room which also serves as the hospital emergency command center. (US\$2,900,000; 2005)

North Shore-Long Island Jewish Health System New Hyde Park, NY

Motor Parkway

The project involved the construction of a new roadway and utility infrastructure, including storm and sanitary sewers, a 16-tank storm retention system, water service, landscaping and irrigation at the Zucker Hillside Ambulatory Care Pavilion. (US\$2,000,000; 2004)



PBX/CDF Room

Demolition, renovation and fit-out of a 500 square foot telephone frame room, which included raised flooring, an eight-ton split air conditioning system and five-ton backup, new electrical and sprinkler pre-action systems, and a new cable tray raceway system connecting the new room with the existing telephone frame room. (US\$500,000; 2004)



Energy Center

Construction of a 20,000 square foot energy center, intended to meet future needs at the campus, as well as provide for steam and water needs, and additional emergency power capacity.

Six thousand tons of refrigeration equipment, three boilers providing 104,000 pph of steam and a 2,000 kW diesel engine generator with all related switchgear was installed, as well as ancillary equipment including cooling towers, pumps and heat exchangers.

Also included within the project scope was approximately two acres of site utility work including a new storm water retention system, sanitary connection, extension of water services, catch basins, roadway, and new topsoil and landscaping. (US\$24,000,000; 2003)



Radiation and Oncology Department Addition

A below grade addition to the radiation and oncology department housing a linear accelerator, dressing rooms, exam rooms and offices; two openings cut into the foundation wall of the oncology building provide access to the addition. (US\$3,100,000; 2003)

Glen Cove Campus

Occupational Therapy/Physical Therapy

The upgrade/expansion to the physical therapy and occupational therapy center involved a curtain wall replacement of the existing laboratory and the build out of a new training apartment, which included a full, working kitchen, display laundry and training bathroom.

Boiler Room Upgrade

The boiler upgrades involved numerous projects:

- Electrical systems — upgrade to one of the electrical systems including a cross radial 15 kv feed to the Long Island Power Authority, a new 480 volt, below grade transformer and vault, concrete encased primary and secondary feeders, new 2,500 amp switchboards and the installation of a back feed to an existing 120.280 volt switchgear.
- Steam boiler plant — upgrade to the high-pressure, steam boiler plant with three 400 bhp units and auxiliaries, and roof replacement; completed while maintaining service utilizing two 600 bhp temporary units.
- Chiller Plant — the chiller plant upgrade included a new 450-ton, electrical chiller and modifications of the well water system.

The hospital remained operational throughout all construction.

North Shore-Long Island Jewish Health System

New Hyde Park, NY

Client

North Shore Long Island Jewish Health System

Value

US\$204,000,000 — Completed

US\$220,000,000 — Under Construction

Completion

2011

Assignment

Construction Management

Bovis Lend Lease has worked with the North Shore-Long Island Jewish Health System since 2001, successfully completing numerous projects on both the New Hyde Park and Glen Cove campuses.

New Hyde Park Campus



Katz Women's Hospital

Bovis Lend Lease is managing the construction of the 291,325 square foot, nine-story, oval-shaped Katz Women's Hospital at Long Island Jewish Medical Center. The new building will provide a main entrance, two-story lobby, meditation room with reflecting pool and retail space, and will provide 14 labor/delivery rooms, 16 ante partum rooms, 60 post partum rooms, 12 gynecological rooms, four caesarean section operating rooms, a neonatal stabilization area, a well baby nursery and shell space for future expansion.

The project also includes 5,240 square feet of renovations for examination/treatment rooms, patient preparation/receiving offices, family waiting rooms and staff support space; the second and third floors will connect with the main hospital tower. (US\$190,000,000; 2011)

Hematology and Oncology — Fourth Floor Fit-Out

The 5,000 square foot build-out of fourth floor shell space provides a 300 square foot pharmacy, approximately 3,000 square feet of clinical space for hematology and oncology outpatient services, and staff office space and a reception area. (US\$2,200,000; 2009)



Schneider Children's Hospital

Bovis Lend Lease provided pre-construction services for this five-story, 110,000 square foot in-patient building; the new building will link to the existing hospital and will include a pediatric emergency department, a pediatric bed, a PICU and a general pediatric floor, along with a new emergency medical services entrance. (US\$70,000,000; 2009)

Main Building Decanting

The 18,000 square foot interior renovation included abatement and demolition, while the adjacent areas remained occupied. A new temporary entrance, patient drop off and canopy were provided along with several new spaces including security, respiratory, medical records, dentistry, nursing administration, chaplaincy and a surgeon's lounge. (US\$9,091,000; 2008)

Roadway Upgrade

The multi-phased roadway upgrade included both resurfacing of the existing roadway and parking area, and construction of a new roadway, sidewalk, drainage and exterior lighting. (US\$4,000,000; 2008)

Emergency Department and Intensive Care Unit Overbuild

A multi-phased, construction/renovation project providing 74 new/updated beds, office space, four resuscitation rooms including two pediatric trauma rooms, 27 examination rooms with designated areas for pediatrics, obstetrics and gynecology, otolaryngology, ophthalmology, orthopedic surgery and minor surgery. (US\$28,000,000; 2008)

Medical City Dallas Hospital Dallas, TX

114 beds. The extremely tight site created logistical challenges; there was no onsite parking and materials were installed as delivered. The construction included concrete piers, an extensive retention system, dewatering and utilization of two tower cranes.

Building E Parking Garage

The 145,000 square foot, cast-in-place structure features 419 vehicle spaces. Built concurrently with Building E, pre-cast façade ties in with the critical care tower. The garage features three levels of parking with one half level below grade and two hydraulic elevators.

Soil was excavated and removed to a depth of 45 feet; new fill was provided from an off-site source.

North Tower Vertical Expansion and Central Power Plant Expansion

The 40,000 square foot vertical expansion to the eighth and ninth floors for the postpartum nursing and pediatric care units provided an additional 58 beds. Seven elevators were extended to accommodate the new floors; one new elevator was installed. This was an extremely tight site; a hoist and tower crane provided access. A pedestrian tunnel maintained an emergency exit.

The 4,880 square foot central utility plant expansion to accommodate the new floor areas included a new boiler, chiller, cooling tower, emergency generator and fire pump.

Outpatient Admitting and Radiology Renovation

The 10,000 square foot gut renovation of the radiology area included two radiographic fluoroscopy rooms, two computed tomography scans, mammography and support facilities; the outpatient admitting lobby features cherry millwork.

Forest Lane Parking Garage

The 129,400 square foot, cast-in-place, post-tensioned concrete parking structure has three levels above grade and one below grade accommodates 380 vehicles.

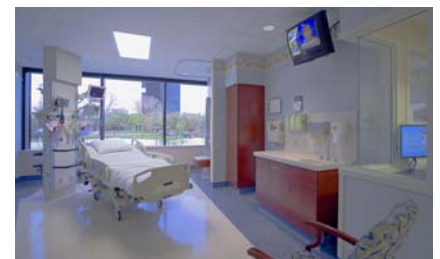
It is connected to an existing parking garage and provides lateral access on two levels. A soil retention system was used to allow vertical excavation for the lower level.

Phase II work included the upgrade of two operating rooms, staff lockers and lounge areas and additional post anesthesia care unit space.

Phase III work included the installation of new mechanical equipment, pediatric post anesthesia care space, nine new operating rooms and a new pharmacy.



North Tower — Patient Room



Building E — Operating Room

Guadalupe Regional Medical Center Sequin, TX

Client

Guadalupe Regional Medical Center

Value

US\$61,000,000

Completion

2010

Assignment

Construction Management

Awards

*2008 Top Texas Projects —
Ranked 30*
Texas Construction



Bovis Lend Lease is managing 140,000 square feet of new construction including a three-story bed tower, emergency suite, outpatient services and central plant, and 65,000 square feet of renovations to the pharmacy, laboratory, surgery, endoscopies, radiology, dietary and physical therapy areas.

The medical center will remain operational during multi-phased construction and renovation program.

Sustainable initiatives include sorting recyclable material on site, installing a storm water retention and treatment system and operable window to optimize the quality of the interior environment.

The foundations consist of caissons and continuous footings; the structures include masonry, reinforced concrete and steel, and the external skin is curtain wall, dryvit, masonry and metal panel, and the roofing is modified bitumen.

The project team utilized Building Information Modeling (BIM) and/or clash detection in the shop drawing/submittal phases.

Underwood Memorial Hospital — Additions/Renovations

Woodbury, NJ

Client
Underwood-Memorial Hospital

Value
US\$45,956,000

Completion
2009

Assignment
Construction Management



Bovis Lend Lease managed the multi-phased, expansion/renovation project, which included two, three-story additions expanding the emergency, and physical medicine and rehabilitation departments.

The project work scope included:

- the expansion of surgical support areas,
- the addition of two, seven-stop staff elevators for patient transport,
- demolition of the existing family practice center and nurse education building,
- construction of the new Family Practice Building,
- expansion/renovation of the central sterile supply,
- interior renovations for a new computed tomography scan and emergency department radiology,
- complete renovation of patient floor,
- MEP infrastructure upgrades to support the expansion/renovation work, and



- expansion of the parking garage and construction of a new, surface parking area.

Premier Medical Plaza High Point, NC

Client

Premier Medical Properties, LLC
(Joint venture between Cornerstone
Health Care, Inc. and High Point
Regional Health Systems)

Value

US\$22,400,000

Completion

2010 — Interior Up Fit
2009 — Base Building

Assignment

Construction Management



Bovis Lend Lease managed the construction of the four-story medical office building, which accommodates several Cornerstone Health Care physician practices, and will house an Ambulatory Surgery Center in the future.

The 128,500 square foot facility has a steel frame, masonry skin with punched windows and curtain wall mix. Each floor contains a common lobby and reception area that are shared by the respective practices.

Bovis Lend Lease also managed the interior up fit of the following:

- First floor — orthopedics
- Second floor — pediatrics, family practice, oncology and internal medicine
- Third floor — neurology, gastroenterology, behavioral health and cardiology,
- Fourth floor — laboratory, medical administration and obstetrics/gynecology

The project scope also included site development including the removal of approximately seven wooded acres of timber, demolition of five private residences, grading, road improvements and widening of both Wendover Avenue and Premier Drive.

