

South Nassau Communities Hospital North Addition

Oceanside, New York



Carl Speroff

Lighting/Electrical Option

Project Team

Owner: South Nassau Communities Hospital
Architect: Cannon Design
Engineers: Cannon Design
Communications: Gene Burton & Associates
Civil Engineer: Cameron Engineering & Associates
Construction Manager: Bovis Lend Lease
General Contractor: KLMK Group

Building Statistics

Occupancy Type: Group I-2, Group A-3
Building Area: 160,000 SF
Number of Stories: 5 (All above grade)
Dates of Construction: December 2003 - May 2005
Actual Construction Cost: \$64,100,000
Delivery Method: Guaranteed Maximum Price

Architecture

- Creates a new modern image while accentuating strengths of existing historical building
- Façade composed of brick, Indian sandstone, and glazing
- Central conservatory serves as a transition between lobby and existing hospital
- 108 new medical rooms
- 300 seat auditorium

Structure

- Foundation consists of spread footings with grade beams
- Ground floor is covered by 5" slab on grade
- Upper floors composed of 3 ¼" min. lightweight concrete over 2" composite metal decking
- Floors supported by steel framing with a W18x40 typical beam size
- Lateral forces supported by braced framing

Lighting / Electrical

- Primary service at 5 kV stepped down to 480Y/277V, 3Ph, 4W secondary
- 480Y/277V transformed down to 208Y/120V, 3Ph, 4W as necessary
- Three 750 kW and one 400 kW 480Y/270V emergency generators serve existing hospital and new addition
- Luminaire types include fluorescent, metal halide, and halogen lamps

Mechanical

- Steam provided by existing boiler plant
- 750-ton liquid cooled centrifugal chiller
- Four rooftop air handling units with a total capacity of 90,000 CFM serve floors one through four
- Microprocessor based direct digital controls (DDC) energy management system

