

Quality By design.

Electrical Engineering

Some of the different services we have provided:

- Designs for emergency and normal power distribution, lighting, telecommunications, security, and fire alarm systems for a new 85,000 sq. ft., five-story, state-of-the-art campus building. The design included a complete addressable smoke detection and voice alarm system, two elevator banks with recall, and network connections to the campus police station. Programming changes for the main fire alarm panel were included as part of the design.
- Provided engineering and code review services for a 3,000 sq. ft. building serving the County's E-9-1-1 system. Due to the critical nature of the building's operation, the design incorporated redundancy of HVAC systems and emergency power via engine generators. Other design criteria included a grounding system to eliminate potential damage resulting from transient voltages and radio system inference.
- Analysis of transmission capacity for a small municipal power system. Analysis of system components for existing and future loads was performed, as well as analysis of safety implications for high loading conditions and several protective relaying schemes.
- Design of special power wiring for sensitive computer loads, lighting VDT usage per IES guidelines, and a fire alarm system that complies with new ADA guidelines for high-rise office building. The project included the design of several telecommunications rooms as well as extensive telecommunications infrastructure that incorporated both power and Cat. 5 data wiring.

A commitment to client satisfaction and a reputation for unsurpassed quality have placed Clough Harbour & Associates LLP (CHA) at the forefront of the electrical engineering world. As an Engineering News-Record top-120 multi-disciplined firm, we offer the strength and resources of a large company, yet we maintain a level of personalized service more frequently associated with smaller firms. This emphasis on quality and client satisfaction has set us apart from the competition, and continues to make CHA the choice of public and private clients alike, including General Electric, Fleet Bank, and the New York State Thruway Authority.



Our Services Include:

- Grounding
- Telecommunications
- Power Distribution & Generation
- Instrumentation and Control
- Interior Lighting
- Fire Alarm
- Security Systems



Clough Harbour & Associates LLP
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"Satisfying our Clients with Dedicated People Committed to Total Quality"