



PROJECT NEWS

State Electric in Progress with Ruth Mulan Chu Chao Center at Harvard Business School, Allston, MA

Architect: Goody Clancy, Boston; GC: Lee Kennedy Co., Inc., Quincy, MA; EE: Vanderweil Engineers, Boston, MA



Rendering: Goody Clancy

ALLSTON, MA – State Electric Corporation, headquartered in Bedford, MA, is underway with the comprehensive electrical construction of Harvard Business School's (HBS) Ruth Mulan Chu Chao Center. The new, four-story, 90,000 square-foot Executive Education building will house reception space, flexible classrooms, project rooms, offices and

dining facilities.

The Chao Center will serve as the gateway to the Harvard Business School campus for more than 10,000 executives from around the world who attend programs at the internationally acclaimed school each year. It will also serve as a hub for Executive Education participants, comprised of faculty and students from the School's

MBA and Doctoral programs.

State Electric's scope at the Chao Center includes providing the building's primary and emergency power systems, lighting, fire alarm, tel/data, and A/V systems. Electrical service will originate from a 15kV switchboard in the building's basement. Provisions for a roll-up generator will be installed as a back-up to the shared main generator, which is located on the roof of the adjacent Tata Hall.

Contemporary, energy-efficient lighting, controlled via a Lutron lighting control system, will be featured throughout the facility's dining, meeting and classroom spaces. Custom lighting fixtures will be a focal point in entryways and the main hub area, which will include stadium seating. State Electric is also installing courtyard and walkway lighting to connect the Chao Center with the rest of the HBS campus.

The facility's fire alarm system will be in keeping with Harvard's fire alarm system

standard, and will incorporate virtually all aspects of the facility's MEP system. Extensive Tel/Data and A/V networks will be installed throughout the facility to dynamically accommodate communications and audio-visual requirements.

State Electric is supervising a field crew ranging upwards of 18 IBEW Local 103 electricians and technicians at peak construction in the nearly two-year project, which is scheduled for completion in April 2016. The project team is headed by Project Manager Paul Higgins, Supervisor and Foreman Tom Page, and Virtual Coordinator Rocco Capalino. The State Electric team was able to complete conduit infrastructure installations in the basement structure despite extreme weather and ground conditions this past winter.

When construction is complete, a comprehensive commissioning process will be undertaken, including a site area power drop test that will assess how

multiple buildings and systems respond in the event of a loss of utility power, and ensure reliability of all systems.

The project is designed by architectural firm Goody Clancy Associates of Boston to achieve LEED Gold+ Certification.

The Ruth Mulan Chu Chao Center is funded by a gift of \$40 million dollars from Dr. James Si-Cheng Chao and Family Foundation as a tribute to the late Ruth Mulan Chu Chao, the matriarch of the accomplished Chinese American family. Dr. James S.C. Chao and Ruth Mulan Chu Chao's family is the only family in HBS history to have had four daughters attend the School. The gift was made in 2012 during the 50th anniversary celebration of the admission of women to Harvard's two-year MBA program and the 375th anniversary of Harvard University. As part of the gift, the Chao family has also endowed the Ruth Mulan Chu and James S. C. Chao Family Fellowship Fund to outstanding students in need.

T&T Electrical Contractors Completes Troy Boston at 275 Albany Street

NECA Contractor teams with Architect: ADD Inc, Boston, MA; GC: Suffolk Construction Company, Boston, MA; EE: WSP, Boston, MA; Developer: Gerding Edlen, Portland, OR

BOSTON, MA – T&T Electrical Contractors, based in Everett, MA, has completed the electrical construction of Troy Boston, a 378-unit apartment complex located at 275 Albany Street in Boston's South End. The development includes 38 residences that are classified affordable housing.

Troy Boston is a 334,000 square-foot development, comprised of two connected towers, an 11-story structure and another that rises 19 stories. The residential/mixed-use project includes 6,000 square-feet of retail – shops and restaurants – at ground level. The development includes an above-ground parking facility for 180 vehicles.

T&T's project scope included providing installation of the facil-

ity's primary and emergency power and electrical distribution systems, lighting and lighting control systems, fire alarm system, and the conduit infrastructure for tel/data and security systems. The contractor also provided temporary power to the site in the early construction phase.

Troy Boston is expected to achieve LEED Gold certification as its energy-efficient systems are designed to save more than 1,379,700 kW hours of electricity and more than 3.8 million gallons of water. More than 95% of all lighting installed by T&T at the facility is LED lighting, consuming approximately 20% of the power of conventional lighting. Apartments feature a Nest Learning Thermostat –

a wi-fi enabled programmable, self-learning thermostat that conserves energy by optimizing the heating and cooling. Amenities include a yoga and fitness studio, an outdoor pool and a rooftop terrace complete with a demonstration kitchen and dining area, barbecues and fire pits.

BIM coordination was critical to the project from its earliest planning stages, as it enabled T&T to navigate a virtually impassable pathway due to numerous underground obstacles, including structural caps and piling. In a unique aspect of the project, the NSTAR vault that provides power to the facility was among the last phases of the project to be completed,



Rendering: ADD Inc

as T&T started all electrical distribution from the middle and worked in two directions simultaneously in order to keep the project on schedule.

T&T supervised a field crew

of 49 IBEW Local 103 journeymen and apprentices in the fast-track 13-month construction project. The first mid-rise was completed in March 2015 and final turnover was in June 2015.

LEGISLATIVE NEWS

Telecom Licensing Bill H.242 Reintroduced to Massachusetts Legislature

Legislation sponsored by Rep. Harold P. Naughton, Jr. (D-Clinton)



Left to right: Sue Mailman of Coghlin Electrical, IBEW technician Kelly Nygren, Joseph Bodio of LAN-TEL Communications and President of NECA Boston Chapter, and Sean Callaghan, IBEW Local 103 Business Agent were at the State House June 2nd presenting the merits of Telecommunications Licensing.

BOSTON, MA – On June 2nd, representatives from NECA Boston Chapter and IBEW Local 103 presented the union electrical construction industry's position strongly supporting telecom licensing legislation, House Bill No. 242, which is again being considered by the Massachusetts state legislature. Sue Mailman, principal of Coghlin Electrical, IBEW technician Kelly Nygren, Joseph Bodio, principal of LAN-TEL Communications and President of NECA Boston Chapter, and Sean Callaghan, IBEW Local 103 Business Agent, provided testimony to the Joint Committee on Consumer Protection and Professional Licensure. The group presented the importance of telecommunications licensing, covering these points:

- The telecom bill would establish professional standards for those that design, install, and service telecommunications systems and require that all who practice in the trade be adequately trained and licensed.

- Public safety and quality are paramount. The intricate details in telecommunications system installation require knowledge of relevant codes and regulations, particularly the National Electrical Code (NEC) and standards issued by the American National Standards Institute. Training and licensing are critical, both from a public safety perspective and a quality assurance perspective.
- Current laws regarding telecommunications were passed more than 25 years ago, and Massachusetts telecom contractors and technicians are finding it difficult to compete with surrounding states. Because technicians in Massachusetts are not licensed, they are not able to cross borders to work, while workers in those states are able to work here. This bill would be positive for Massachusetts, our economy, and the industry.

INDUSTRY NEWS

NECA 2015 San Francisco, Oct. 3 - 6, Open for Registration

BETHESDA, MD – NECA 2015 San Francisco, the electrical industry's largest convention and trade show, will be held October 3 - 6. The NECA trade show will feature more than 300 exhibitors, comprised of the industry's leading manufacturers, distributors and service companies showcasing thousands of innovative products and service solutions. The show floor is a virtual classroom providing the latest technological advances in such areas as power supply, security, tools, integrated building systems, lighting and controls, solar/PV, other energy markets, and more.

NECA 2015 will also feature workshops and educational tracks that keep NECA contractors the best informed and most productive in the industry. Workshops will cover virtually every important topic impacting the industry, including:

- 2014 NEC Significant Changes
- Effective Safety Programs and Policies
- Significant Changes in NFPA 70E 2015 and Employer Responsibilities
- Safety
- Smart Grid Installations
- Integrated Project Delivery
- Prefabrication
- Lightning Protection System Installation and Maintenance
- Arc Flash Hazards – Enhancing Personnel Safety
- Taking

Control with Lighting Controls

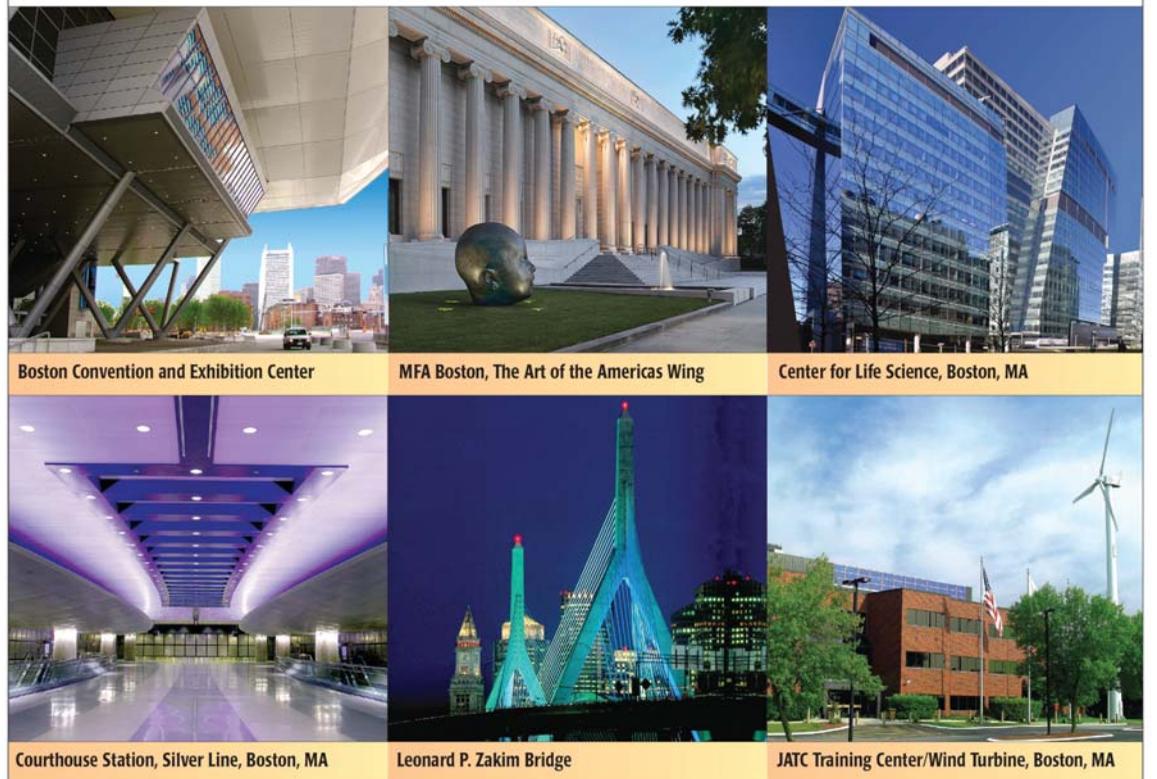
- Energy Storage and Microgrids
- Selecting the Right LED for Energy-Efficient Lighting Retrofits
- Electrical Submetering Strategies for Energy Efficiency and Cost Reduction
- Electric Vehicle Charging Stations, and many others.

For details and to register, visit www.necaconvention.org.



EASTERN NEW ENGLAND SETS ITS SITES ON QUALITY AND SAFETY IN ELECTRICAL AND TELECOM CONSTRUCTION.

NECA and IBEW set the standard for excellence in electrical, telecom, and renewable energy projects throughout Eastern New England.



In the world of construction, quality and safety are critical to every project. Which is why leading architects, general contractors, building owners, and facility managers throughout Eastern New England rely on the skilled union electricians of Local 103 of the International Brotherhood of Electrical Workers (IBEW) and the professional electrical contractors of the Greater Boston Chapter of the National

Electrical Contractors Association (NECA). For more than a century, IBEW and NECA have literally helped build our region. From our most cherished historical sites and renowned educational institutions, to major transportation projects, leading technology companies, community schools, and libraries, our landmarks shed light on a century of electrical construction unsurpassed in quality.

Take a close look at just a few of the recently completed projects by NECA Greater Boston Chapter members. It will tell you where to turn for the highest standards in electrical, telecom, and renewable energy construction. Rely on the power of quality electrical work. Call 1-877-NECA-IBEW for a complete directory of NECA Greater Boston Chapter Members, or visit us at www.bostonneca.org

The future of renewable energy and green buildings is here.



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