

**E-J ELECTRIC INSTALLATION CO.**

Brings Power, Light and Communications to New York City's

# Newest Major Transit Hub

**E-J Electric Installation Co.** performed electrical installations for the newly opened Fulton Transit Center, part of the \$1.4 billion Fulton Street Complex and essential transportation and retail hub of lower Manhattan.



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### **Scope of Services**

E-J Electric's team provided electrical installations as part of the large-scale effort to renew Fulton Transit Center as the centerpiece of the \$1.4 billion Fulton Street Complex after it was partially destroyed following the September 11 attacks. The scope of work included the installation of over 2,000 fixtures and DMX controlled advertising panels, a UPS system consisting of 250kva cabinets and a 150kva power distribution unit, 15kv duct bank risers, six splice chambers and new Con Ed network protector vaults. Generators consisting of four 600kw and one 400kw were installed on the roof to tie into a 4000A sync-paralleling switchboard.

### **MTA Operations Systems**

State-of-the-art communications systems were also installed consisting of security, automatic fare control, token booths systems, fire alarm, public address, radio communications, snow melt, bird deterrent and lightning protection systems.

The new main fire alarm system integrates information from the Fulton Center building itself with the data coming back from the individual fire alarm panels from five separate systems in the existing stations. The public address system audio can back up the fire alarm system audio; a new radio communications system greatly improves communications for NYPD, FDNY and EMS. All data and information is tied back to the transit system headquarters through a data communications network.



## The Transformation of Fulton Transit Center

While the Fulton Transit Center began as a labyrinth of dimly lit corridors containing five subway stations in the early 1900s, it has since been transformed into a bright, modern and attractive public space. After part of the complex was destroyed in the Sept. 11, 2001 attacks, a decade-long 'megaproject' was undertaken to make Fulton Center the Grand Central Terminal of Lower Manhattan. The introduction of the new Fulton Center accompanies the opening of the nearby One World Trade Center just one month prior, signaling the area's rebirth.

"This is the single most important renovation and upgrade of an existing subway complex in the entire city, and a crucial component of infrastructure within the MTA subway system," said Richard Wood, President of Plaza Construction.

### A Beam of Light Shines Through

The centerpiece of the Fulton Center is the "Sky-Reflector-Net," an art installation by James Carpenter Design Associates built into the conical roof dome, a 53-foot diameter oculus funneling in sunlight through hundreds of coated aluminum panels to welcome visitors into the 108-foot underground pavilion.

### Optimized for Mobility

The new center, designed by Grimshaw Architects, features improved accessibility with open direct paths, widened corridors and new mezzanines to separate entering, exiting and transferring customers. There are more than 50 screens throughout that carry maps and service updates, digital art and advertisements. A spiral staircase and glass elevator add an extra touch of marvel to the re-design.

The complex is set to provide underground connection between 5 subway stations, 10 subway lines and the Port Authority of New York and New Jersey's PATH train as well as access for over 300,000 customers daily. The facility includes more than 60,000 square feet of commercial space, two-thirds of which is reserved for retail.

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