



NYCT Flood Mitigation/Resiliency Design for 14 Critical Lower Manhattan, Queens and Brooklyn Locations (Fan Plants, Emergency Exits, Vents and Other)

The existing facilities were damaged by Super Storm Sandy. AG is performing electrical design services to address flooding/resilience at fourteen (14) facility locations in flood-prone areas under Category 2 Hurricane storm surges. AG's scope includes feasibility studies and design for near and long term flood mitigation/resiliency and technical construction supports for Fan plants, Emergency exits and Vents at 14 critical locations in Manhattan, Queens and Brooklyn. The engineering services include, developing the scope of work; design and development of subway flood mitigation/resiliency measures; provide preliminary engineering design, final design, bid and conformed documents.

AG engineers are responsible for Electrical Engineering Services including:

- Perform visual inspections of 14 fan plant facilities to identify and document: All conduits penetrating critical rooms to the Right of Way. All conduits penetrating exterior walls in critical rooms. All interior-to-interior conduit penetrations within critical rooms located up to 5 ft above finished floor. Critical rooms are defined as distribution rooms, control rooms, water meter rooms, ATS rooms, transformer rooms, signal rooms, plenums, motor rooms, Con Edison chamber rooms, communication rooms, fan rooms, and tunnel lighting rooms.
- Preparation of construction documents (drawings & specifications) for all fan plants to include: Seal conduits at one end if penetrating exterior walls of critical facilities.. Seal conduits at both ends if penetrating interior walls of critical facilities. Removal of Fan Plant 7204's existing transformers, disconnect switches, etc from existing location. Provide new conduit routing from new transformer from yard to roof. Lighting design for new transformer room. Provide new power to new transformer room. Coordinate with Civil, Structural, and Architectural for new transformer room with Arup.



A.G. CONSULTING ENGINEERING, PC

Location:

New York, NY

Owner:

NYCT

Services Provided:

Electrical

Inspections

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