



## NYCHA Hammel Houses Professional Engineering Design Phase Services

There was severe damage to many NYCHA developments as a result of Super Storm Sandy. This program was developed to categorize the damages, develop conceptual solutions and establish budgetary costs for the anticipated repairs and possible storm mitigation measures. NYCHA Hammel Houses is a development made up of 14 7-Story Buildings with 712 Apartments, built in 1955, at 84-16 Rockaway Beach Blvd. in Queens, NY. NYCHA categorized the damage at this development to be Category 3. AG worked as a subconsultant to Ismael Leyva on multiple phases of NYCHA Hammel Houses Professional Engineering Design Phase Services. These services included, but were not limited to:

**Mechanical:** During the storm surge the existing at-grade boiler room, located in Building 5, was inundated and rendered inoperable. A new boiler room, to house a new boiler plant and new supporting mechanical and plumbing equipment, will be constructed on the existing boiler room foundation. New steel framing, floor slabs, and roof will be added to allow for the new Central Boiler Plant to be situated above the flood plain elevation.

**Electrical:** The existing electric services rooms located in each of the fourteen buildings were impacted by the storm surge. The proposed electrical design includes raising the Central Boiler Plant. New electrical distribution equipment for each building, consisting of service switches, switchgear, and feeder connections will be relocated and raised into new electrical distribution rooms utilizing portions of existing apartments.

**Plumbing:** The existing plumbing equipment located in each of the fourteen buildings were damaged by the storm surge. New supporting plumbing piping and equipment were designed and installed within the new raised Central Boiler Plant. New Domestic Hot Water Heaters and Vacuum/Condensate Pumps will be installed in existing locations in all buildings. New Domestic Water Booster Pumps will replace damaged equipment in approximately six buildings.

**Additional work:**

**New Site LED Lighting:** Design of new LED lighting along with underground wiring, conduit, poles & fixtures with new efficient LED lighting fixtures for the site around Buildings 1 thru 14 on a fast tracked basis. All outdoor lighting attached to Buildings 1 thru 14 will also be replaced. **Indoor Stairwell Lighting Fixtures Upgrades:** Design for the replacement of the existing stairwell lighting fixtures with new energy efficient LED light fixtures at the same location for the Hammel Houses Development Buildings 1 thru 14. Lighting calculations will be provided. AG will provide additional Electrical design services including review existing drawings, provide detailed site survey of all buildings, and the preparation of foot candle lighting calculations per Industry Standard.



**A.G. CONSULTING ENGINEERING, PC**

**Location:**

Queens, NY

**Owner:**

NYCHA

**Services Provided:**

Mechanical

Electrical

Plumbing

A.G. Consulting Engineering, PC

131W 33rd Street, 12B

New York, NY 10001

Phone: 212-268-0950

agceng@agceng.com