



NYCT Flood Mitigation/Resiliency Design for 148th & 207th Street Yards and Portals

The existing facilities were damaged by Super Storm Sandy. AG is performing electrical design services to address flooding/resilience at two (2) facility locations. One of these locations is the 148th Street yard and portal. The other location is the 207th Street yard and portal. 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 is responsible for the following:

Investigate pump rooms adjacent to the portals (one at each site).

Electrical design for stop lock type flood gates (such as plates lowered by a chain in front of a tunnel portal).

Electrical design for flood gates at entrances (such as security gates that come out of the ground).

Review all existing electrical NYCT drawings, for both sites, to determine the power source(s).

Electrical design for the flood gates. AG will investigate various options, with pros and cons, (in coordination with NYCT personnel), to bring power to the new flood gates.

These options for bringing power to the flood gates will include, but are not limited to the following:

- Utilizing existing NYCT feeder from one source (Normal).
- Utilizing existing NYCT feeder from second source (Reserve).
- Possibility of bringing a separate new feeder from Con-Ed, if approved by NYCT.
- Providing Automatic Transfer Switch (ATS) with 2 sources of power to feed electrical loads for flood gates.
- Providing Manual Transfer Switch (MTS) if there is one 1 source of power available. MTS will be ready to receive power from a temporary mobile generator.



A.G. CONSULTING ENGINEERING, PC

Location:

New York, NY

Owner:

NYC Transit

Services Provided:

Electrical

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