



## NYC DOC G. R. V. C. New 300 & 200 Cell Building Additions

The project was a new construction of 500 cell addition to the existing 1000 cell correctional facility. This consisted of two buildings of 200 and 300 cells. Each building included control rooms, lobbies, living quarters, kitchen, laundry rooms, bathrooms, Day rooms and associated utility rooms. AGCE provided comprehensive MEP design, including HVAC, electrical, communication, sprinkler, fire protection and security systems and exterior lighting and construction phase services.

AGCE scope of work included high voltage electrical distribution system design involving modification to the existing high voltage feeders from 26KV main substation located in Rikers Island, and step-down unit substations for each of the two buildings. AGCE has also designed the manholes, trenches, transformers, primary and secondary switchgear, protective relays and devices. Emergency diesel generators suitable to carry 100% loads of each facility were also designed. AGCE made design submissions for 35%, 65%, 90% and final design phases. Each submittal included design analysis, drawings, specifications, cost estimates, energy conservation analysis and life cycle cost analysis. AGCE completed each phase of the design on time and within budget.

**Location:**

Riker's Island, NY

**Owner:**

NYC DOC

**Services Provided:**

Electrical



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