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*Interim Upgrade—
General Construction
at Hunts Point WPCP,
Bronx, NY*



— Committed to quality, backed by hard work.

John P. Picone INCORPORATED

Project Manager: Neal DeWitte
Contract Number: HP-1G
General Contractor: Picone/McCullagh JV
Agency: NYC DEP
Contract Amount: \$175,000,000.00



Interim Upgrade– General Construction at Hunts Point WPCP, Bronx, NY

This project involved major civil, mechanical, electrical and architectural work. Briefly, the scope included main building improvements, a new personnel facility, new main sewage pumps, the reconstruction of several pump stations, chlorination system improvements, a new processing system, new instrumentation and control, upgrades to the primary sludge and dewatering system, a new central residential facility, improvements to the aeration system and the construction of eleven new pump stations and electrical buildings.

Challenges:

Asbestos- Minor traces of asbestos were found in both the roofing material and the mastic material used to waterproof the walls behind the existing brick. As part of the scope of work, brick facades and roofs on most of the buildings were to be removed and replaced. Because of the asbestos, a long and tedious process was undertaken by asbestos workers to remove the bricks and roofing material. This had to be done while maintaining access to the DEP and ensuring that the buildings remained water-tight and structurally sound.

Splitter Vane- In order to improve the flow and reduce sludge build-up, the contract scope called for the installation of new stainless-steel vanes (called “splitter vanes”) in the influent conduit downstream of the venturi meter. A roof section of the concrete conduit approximately 30 feet long by 10 feet wide had to be removed so the 20 ton vanes could be installed and bolted to the channel invert. All this work had to be accomplished while the channel was under pressure. The concrete was cut using road saws and concrete-cutting chain saws. As the cuts were made, they were sealed temporarily with lead wool and oakum. Once the cutting was complete, divers were brought in to remove the concrete slabs, then set and secure the vanes in place.



Unique Features:

- Installation of a stainless steel splitter vane.
- In order to replace gates in the active main influent wetwell, a cofferdam was installed with the assistance of divers. While this cofferdam was in place, the fluid level in the well was carefully monitored so the main sewage pumps would operate properly.

