
Village of Freeport Power Plant



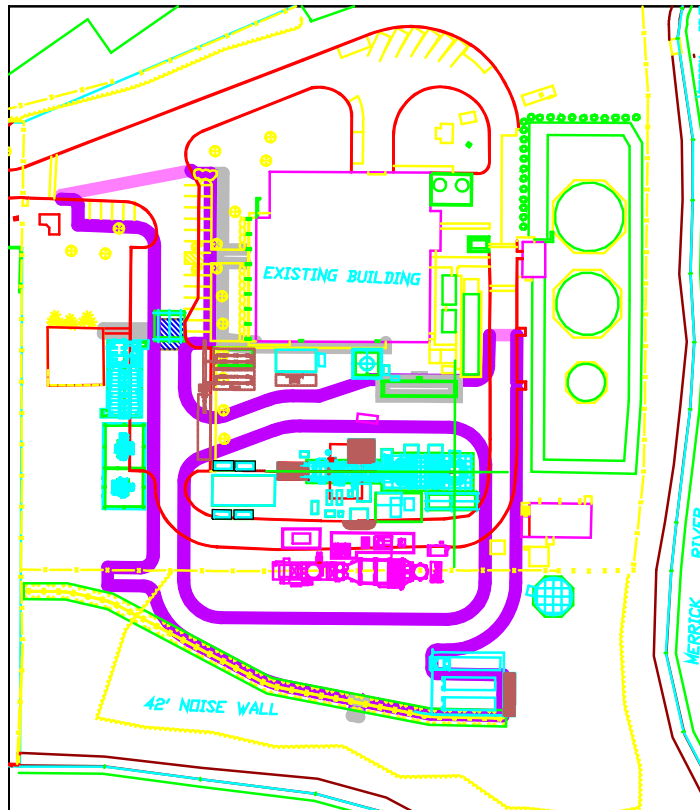
Client/Owner: Village of Freeport, NY

Project Location: Freeport, NY

The Village of Freeport has retained GPI as part of a tri-venture to design and build additional electrical generating facilities at the existing Power Plant # 2 site located at 289 Buffalo Avenue in the Village. This is a fast-track project requiring the concurrent design and construction of the proposed site elements, with a substantial completion date only 6 months later than the notice-to-proceed. GPI's role on the project is diverse and includes work efforts in the following disciplines: Civil, Geotechnical, Environmental, Structural, Electrical, Mechanical and Architectural. Specific design elements required for the project include:

- Internal Loop Roadway to Accommodate Truck Circulation
- Structural Design of Foundations for Turbine, Stack, Switchgear, Transformers
- Proposed Grading Above the 100-Year Flood Zone
- Mechanical Design / Layout for GE LM6000 Generating Facilities
- Drainage System Design Incorporating High Ground Water
- Electrical Design to Connect New facilities to Existing Grid
- Structural and Architectural Design of a 42' Noise Wall
- Environmental Analyses to Address PCBs and Adjacent Surface Waters
- Geotechnical Analyses Required for Pile, Pavement and Foundation Design
- Architectural Design of Several Equipment Enclosures

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The existing project site was used previously as a municipal landfill. As such, the project has required extensive environmental analyses and review of the Environmental Assessment. A Soil Management Plan was prepared and submitted to NYSDEC to address the handling, storage and off-site disposal of the existing soil, which is contaminated with low-level PCBs. In addition a detailed Health and Safety plan has been prepared to protect the construction workers and the plant personnel. The geotechnical engineering required for this project has evaluated the existing soil and the potential for settlement as a result of the previous municipal fill.

Due to the compressed project schedule and the numerous disciplines involved, GPI has established a collaborative website for the sharing and review of project files. The website facilitates the sharing of files between our involved branch offices, the other consultants part of the tri-venture and the Village of Freeport. The agreement with the Village specifies short duration periods for review, comment and resubmittal of all drawings. The website allows for the instantaneous posting and Village review of the drawings. In addition, the project team is able to simultaneously view and discuss project drawings and files and work out any issues prior to posting of final drawings.