Progressive Design Build Services for the 5104 118th Street, 6217 Wilson Blvd., 7703 Blanding Blvd. and Robitzsch Ln. Wastewater Pump Station Rehabilitation or Replacement for Solicitation Number 025-18



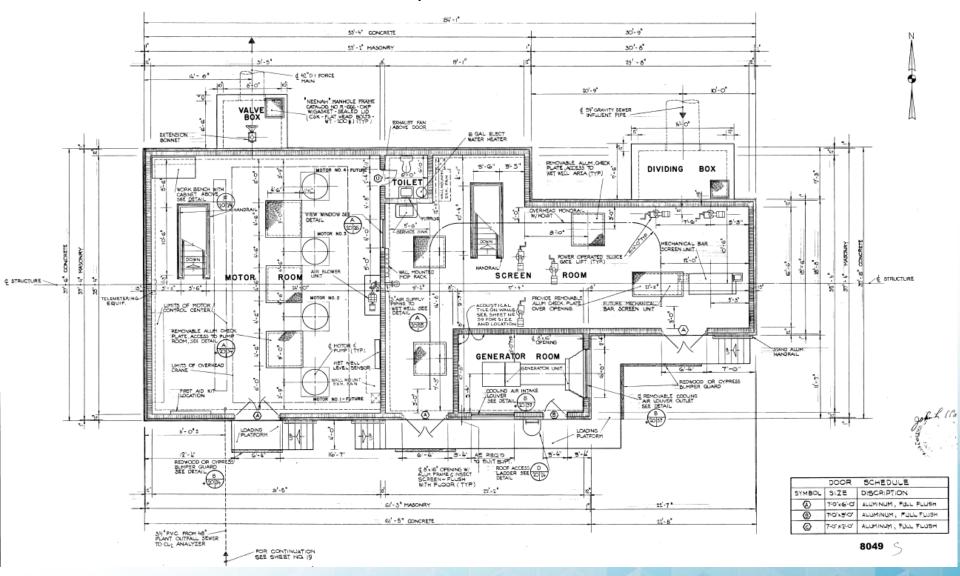
5104 118th Street Wastewater Pump Station



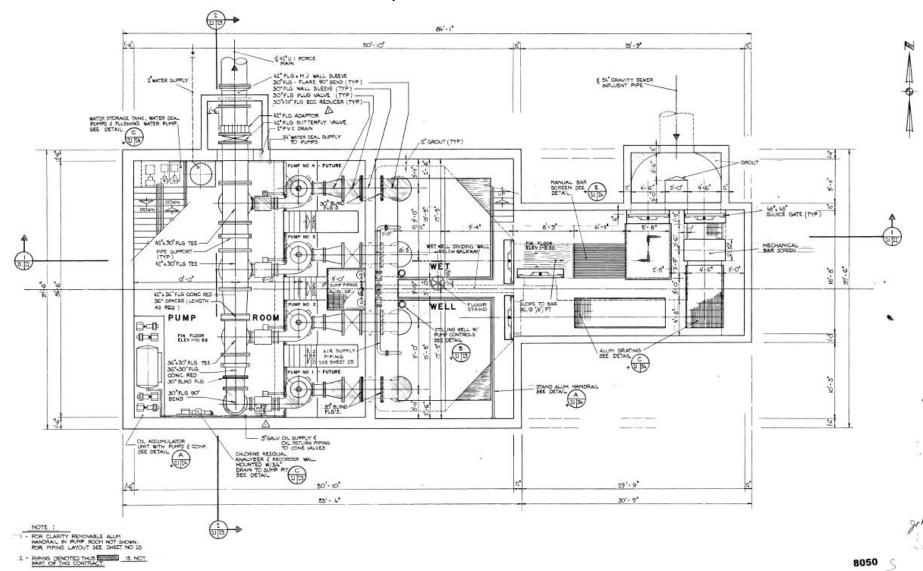


- I. Phase I includes planning evaluation between the rehabilitation of the existing pump station versus the construction of a new pump station
- II. Phase I includes design to 60 percent level and provide a Guaranteed Maximum Price (GMP)
 - A. Option 1 Rehabilitation of the existing pump station
 - B. Option 2 Construction of a new pump station
- III. Phase II includes design from 60 to 100 percent level, construction and start-up
- IV. The project will include, but not limited to, the following major components:
 - A. Site Design and Permitting
 - B. Rehab of the superstructure or design a new superstructure
 - C. Equipment Selection and Layout
 - D. Precast Concrete Electrical Building
 - E. Outside Electrical Generator
 - F. Engine driven pump system
 - G. Fuel Tank
 - H. Odor Control System

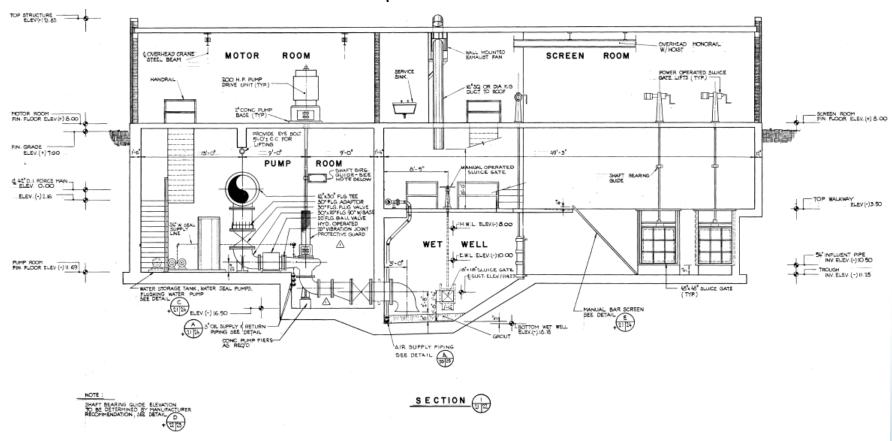


















- Phase I includes design to 60 percent level and provide a Guaranteed Maximum Price (GMP)
 - A. Rehabilitation of the existing pump station
- II. Phase II includes design from 60 to 100 percent level, construction and start-up
- III. The project will include, but not limited to, the following major components:
 - A. Evaluate the system for design flows, construction standards, controls and materials utilized.
 - B. Replace doorway and doorway threshold.
 - C. Replace existing ventilation system with a new ventilation system design.
 - D. Replace existing lighting system with a new lighting system design.
 - E. Replace existing potable water system with a new potable water system design. Replace all plumbing including plumbing fixtures.
 - F. Replace existing electrical powering system with a new electrical powering system design including grounding and emergency powering system (i.e. generator, ATS, fuel tanks, etc).



The project will consist (Cont'd):

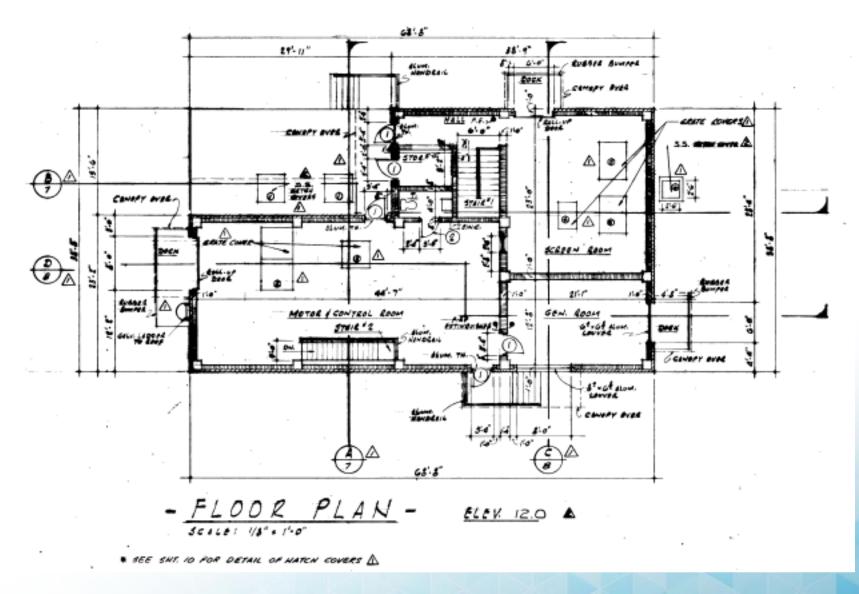
- G. Single phase power supply protection for the control panels and provision of a UPS (or other devices) to provide an added level of resiliency for the control panels. Should the system detect voltage drops or other irregularities with the main power supply to the pump station, the system will automatically initiate standby power and disconnect the main power supply to the pump station.
- H. Remove existing mechanical bar screen and design a FRP grating/cover system to seal openings.
- I. Specify coating and painting for the whole pump station and its entire components.
- J. Assess the structural integrity of the existing pump station superstructure. Rehab the superstructure (Motor Room, Screen Room, Generator Room, Pump Room, Wet Well, Influent Chamber) and all its accessories (i.e. stairways, fall protection, covers, grating, etc).
- K. Update all safety related deficiencies. The existing dock shall have a removable handrail system designed.



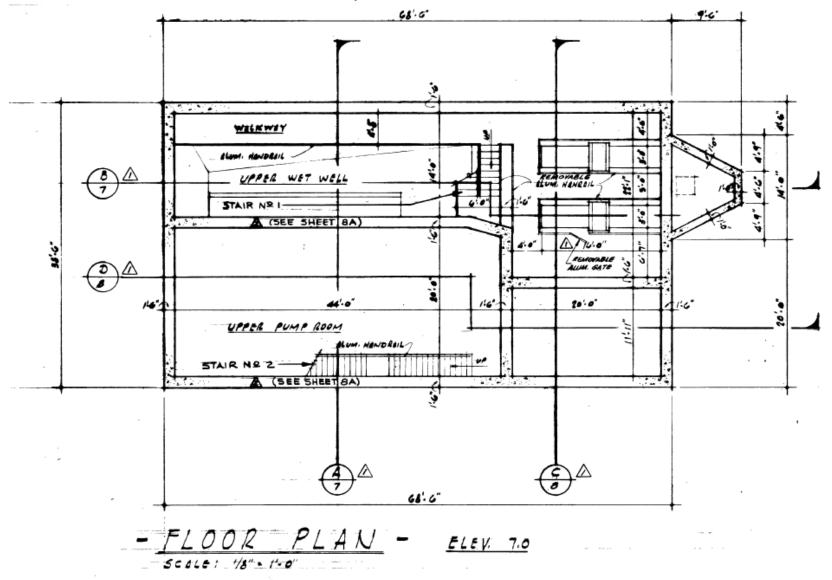
The project will consist (Cont'd):

- L. Replace existing piping, fittings, valves and apparatus with new piping, fittings, valves and apparatus that complies with JEA latest standards. Replace all mechanical process components (sluice gates, screens, sump pump, and pumps). Confirm existing suction end piping for all pumps are adequate if not design the proper suction end piping. Design permanent by-pass piping including a magnetic meter and install blower diffuser for wet-well.
- M. Design a diesel standby pump system including two pumps, all the necessary piping and the required instrumentation to start and operate the diesel standby pump system when the main pump system is out of service.
- N. Remove existing seal water system and design a new seal water system.
- O. Replace existing instrumentation with new instrumentation that complies with JEA latest standards.
- P. Design a biotrickling filter odor control system
- Q. Design a lift system (crane, hoist, monorail, etc).
- R. Design site improvements including landscaping and security coordinated with JEA requirements.
- S. Determine and prepare permitting requirements, if any, for proposed work.
- T. Design the replacement of approximately 600 LF of 16-inch DI force main.



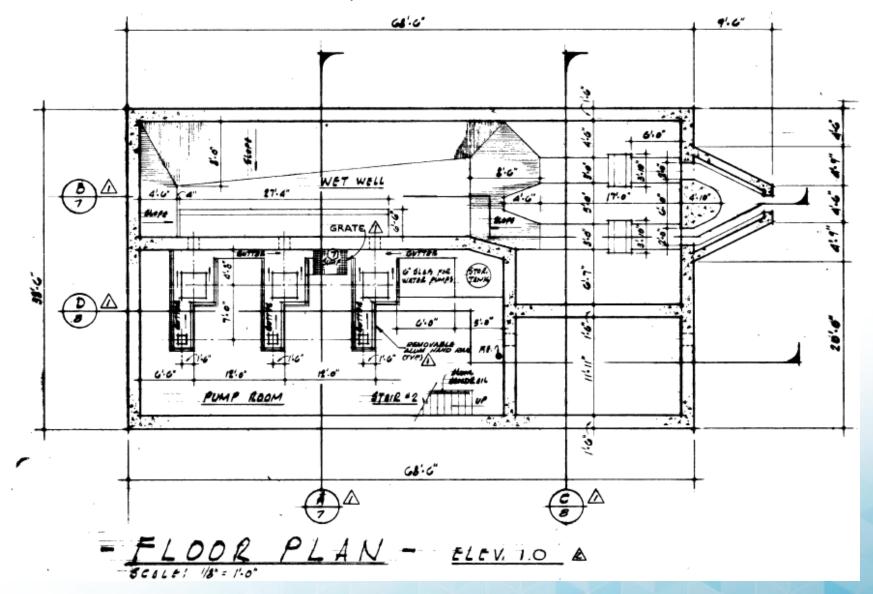




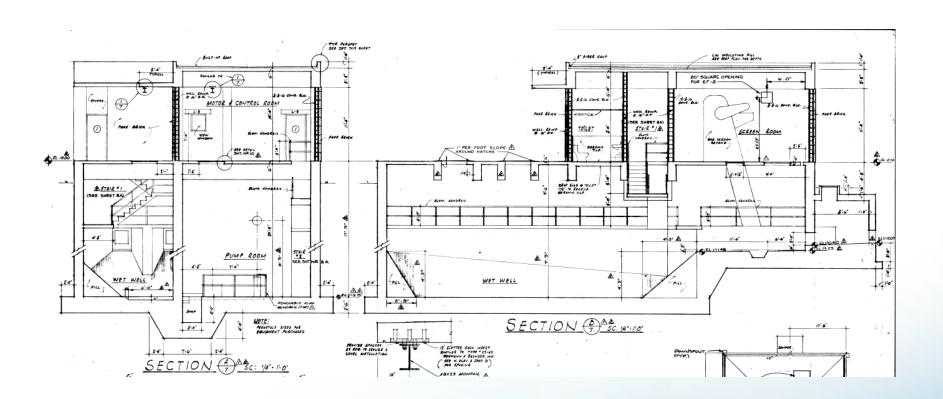




6217 Wilson Blvd. Wastewater Pump Station









7703 Blanding Blvd. Wastewater Pump Station



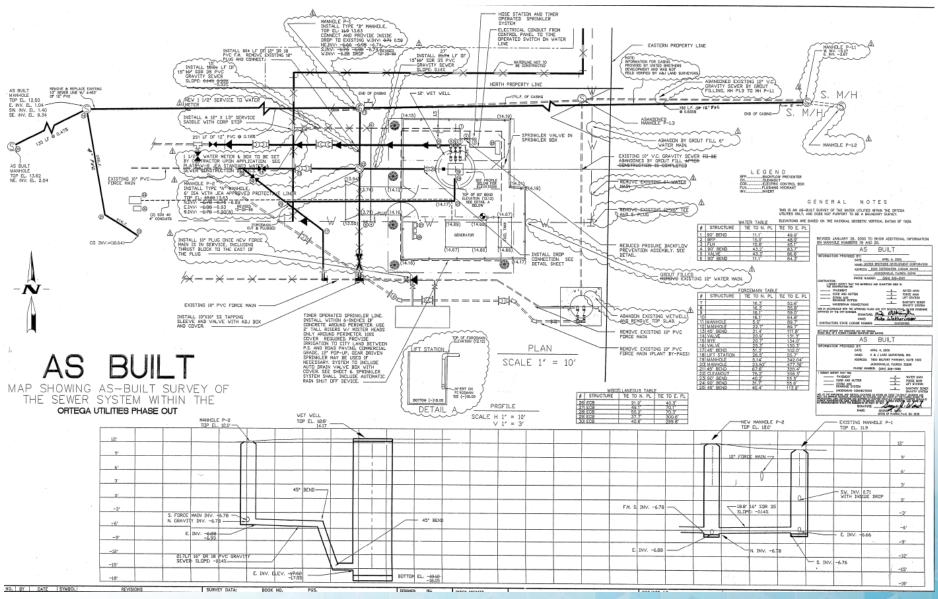


7703 Blanding Blvd. Wastewater Pump Station

- Phase I includes design to 60 percent level and provide a Guaranteed Maximum Price (GMP)
 - A. Electrical Rehabilitation of the existing pump station
- II. Phase II includes design from 60 to 100 percent level, construction and start-up
- III. The project will include, but not limited to, the following major components:
 - A. Rehab of the electrical equipment for 7703 Blanding Blvd. Class III Pump Station

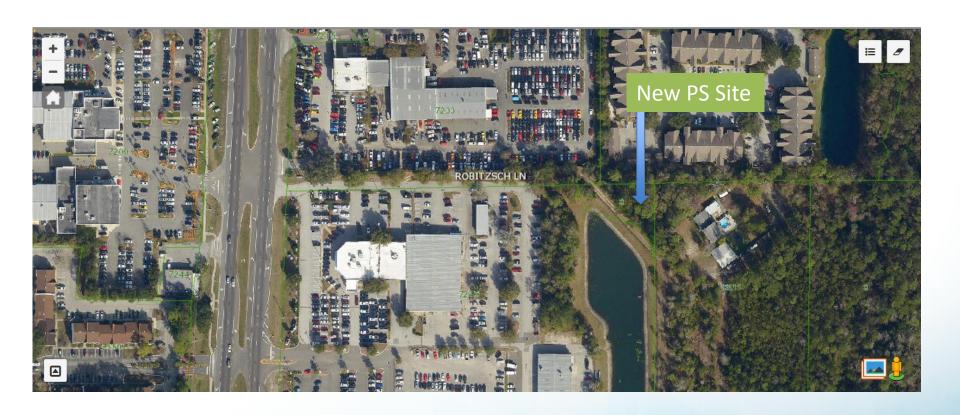


7703 Blanding Blvd. Wastewater Pump Station





Robitzsch Ln. Wastewater Pump Station





Robitzsch Ln. Wastewater Pump Station

- Phase I includes design to 60 percent level and provide a Guaranteed Maximum Price (GMP)
 - A. Construction of a new pump station
- II. Phase II includes design from 60 to 100 percent level, construction and start-up
- III. The project will include, but not limited to, the following major components:
 - A. Site Design and Permitting
 - B. Equipment Selection and Layout
 - C. Precast Concrete Electrical Building if required
 - D. Outside Electrical Generator
 - E. Engine driven pump system
 - F. Fuel Tank
 - G. Odor Control System

