



## [N3D WATER AND WASTEWATER PROJECT EXPERIENCE](#)

- [Union County, Ky. High Service Pump Station](#)  
Project is currently under construction. Pump station includes telemetry controlled high service pump station with variable speed starters. Systems were installed in a new building that is air conditioned to ambient temperatures requirements of the starters. Flow metering and low level wetwell controls are included in the pump control sequence
- [Elkhorn City, Ky. Wastewater Treatment Plant Improvements](#)  
Project is currently bidding. Plant includes electrical and SCADA design for Sequence Batch Reactor System (SBR) process. Plant has to remain in operation while new plant is constructed. Electrical utility relocation and sequence of construction is a major component of this project. Process includes chlorination and de-chlorination facilities including flow monitoring and telemetry system control. Project also includes full size standby emergency generator system.
- [Douglas, Ky. Wastewater Treatment Plant Expansion](#)  
Project has bid and is starting construction. Plant includes electrical and SCADA design for Membrane Bioreactor System (MBR). Plant has to remain in operation while new plant is constructed. Electrical utility relocation and sequence of construction is a major component of this project. Processes include ultraviolet disinfection facility, waste activated sludge pump station, classified atmosphere rated headworks facility. Project includes a full size standby emergency generator system.
- [Belfry, Ky. Wastewater Treatment Plant Expansion](#)  
Project is currently under design. Plant includes electrical and SCADA design for Membrane Bioreactor System (MBR). This is an entire new plant with new process building. Processes include ultraviolet disinfection facility, waste activated sludge pump station, classified atmosphere rated headworks facility. Project includes a full size standby emergency generator system.
- [Fleming-Neon, Ky. Water Treatment Plant Renovation](#)  
Project is currently bidding. Plant includes a complete renovation of an existing building's process equipment room, chemical feed areas, and office area. Main filtration system is based on up-flow adsorption clarifier with pre-treatment oxidation vessels. New high service and raw water pumping systems as well as renovation of raw water intake pumping system is included in this project. Chemical feed systems include fluoride, sodium permanganate, coagulant, and soda ash systems. Project includes a major electrical utility relocation that is sequenced with the construction process. Project includes a full size standby emergency generator system and a renovation of an existing portable generator for raw water pumping station.
- [Beattyville, Ky. Wastewater Pumping Station](#)  
Project is under construction. Pumping station includes soft-start duplex motor control of submersible pumps. Station controls were installed on a large platform to keep above 100 year flood elevation. Station alarm systems for high level and pump failure alarms.