

Municipal Lift Station

Date Completed:

2015

Construction Cost:

N/A

Client or Owner's Rep:

Mr. Yue Sun, PE
Associate, CDM Smith

Highlights:

- ✓ **New Lift Station - Submersible Type**
- ✓ **Electrical, Instrumentation and Controls**
- ✓ **Electrical Building on Elevated Platform**
- ✓ **VFDs**
- ✓ **New Electrical Service**
- ✓ **Site Lighting**

Photos: *Electrical Building and MCCs*

FWSD No. 23 WWTP Improvements Influent Lift Station

City of Houston | Houston, Texas

Project Description | The project includes construction of a new submersible Lift Station with integral vortex drop structure, six (6) new pumps with adjustable (variable) speed drives, transition pipe and fitting components, and all associated structural, mechanical, electrical, instrumentation and control improvements.

Services Provided | As a sub-consultant to CDM Smith, KGI was responsible for electrical, instrumentation and controls portions of the project. The project included six (6) 200 HP pumps with variable frequency drives. All of the electrical, instrumentation and controls was designed to comply with the 2010 City of Houston Lift Station Design Standards. The proposed improvements include the following:

- New Electrical Building
- CenterPoint Energy pad mounted transformer
- New Motor Control Center
- Variable Frequency Drives
- New Control Panel
- Motorized valve operators in influent and effluent boxes
- Lighting, Grounding and other miscellaneous electrical
- Manual Transfer Switch for portable generator
- Coordination with CenterPoint Energy for power

