

## Municipal Lift Station

**Date Completed:**

*In Design*

**Construction Cost:**

*N/A*

**Client or Owner's Rep:**

*Mr. Andrew Swirsky, PE  
Project Manager, Stantec*

**Highlights:**

- ✓ **Lift Stations - Submersible Type**
- ✓ **Electrical, Instrumentation and Controls**
- ✓ **Electrical Building**
- ✓ **Electrical Equipment Elevated 3-Feet Above 500 Year Flood Elev**
- ✓ **New Electrical Service at Some Locations**
- ✓ **Site Lighting**

## Bretshire No.2, Bayfield Ud, Highland Meadow, Hempstead #1 and Ferguson Way Lift Stations Renewal/Replacement

### City of Houston | Houston, Texas

**Project Description** | The project includes rehabilitation of five lift stations including electrical, instrumentation and control.

**Services Provided** | As a sub-consultant to Stantec, KGI is responsible for electrical, instrumentation and controls portions of the project during PER and detailed engineering phases. All critical electrical equipment will be located 3 feet above the 500-year flood elevation to prevent from future flooding. All of the electrical, instrumentation and controls will be designed to comply with latest 2019 City of Houston Lift Station Design Standards. The proposed improvements include the following:

- Hempstead Lift Station - Replace existing pumps with four new 7,050 gpm - 188 HP submersible pumps.
- Bayfield Lift Station - Replace existing pumps with three new 1,600 gpm - 62 HP submersible pumps. The existing lift station will be converted from a wetwell/ drywell type to a submersible type lift station.
- Bretshire No. 2 Lift Station - Replace existing submersible pumps with five new 2,650 gpm - 60 HP submersible pumps.
- Ferguson Lift Station - Replace existing pumps with two new 160 gpm - 3 HP dry weather submersible pumps and four new 1,600 gpm - 40 HP wet weather submersible pumps.
- Highland Meadow Ten Lift Station - Replace existing pumps with three new 600 gpm, 40 HP submersible pumps.