

## Duplex Wastewater Lift Station

# LARGE SOLIDS HANDLING PUMP SYSTEM

**8"-10" Force Main at 350-1200 gpm • 8' diameter wet well in depths to 30'**

Wet Well, Internal Valve Assembly, Electrical Controls

### DESIGN FEATURES FOR THIS LIFT STATION

*Pumping rate:* 350 – 1200 GPM

*Capacity:* 275 – 970 homes

*Pumps:* ITT Flygt Solids handling pumps, N or C impellers, 3085, 3102, 3127, 3153, 3171, 3202, 3301

*Level sensors:* ITT Flygt probe, ITT Flygt Floats (level switches), optional level devices available

### THIS ROMTEC UTILITIES SYSTEM INCLUDES

*Concrete wet well:* 8' diameter conforming to ASTM C 487-97, Aluminum hatch w/stainless steel hardware

*Electrical Junction Box:* Concrete box w/explosion proof pump cable outlet boxes & level sensing cables terminal box

*Piping & accessories:* Ductile iron piping with stainless steel hardware & accessories

*ITT Flygt pumps:* N or C impellers, 3085, 3102, 3127, 3153, 3171, 3202, 3301

*Level monitoring & control:* Primary – ITT Flygt probe or ENM-10 level switches (floats) - Redundant - Optional Back-up – ITT Flygt probe or ENM-10 level switches (floats)

*Internal valves:* ITT Flygt ball check valves, bronze gate valves

*Electrical controls:* UL listed, Alternator design

### DOCUMENTATION

*Scope of Supply & Design Submittals:* Full submittals for:

- Wet well, Wet well hatch, discharge elbows, pumps, piping, valves & accessories
- Electrical controls, starters, level sensing etc.

*Operations & maintenance manuals:* Complete as-built drawings & manuals including parts list for all Romtec Utilities supplied items.

**AVAILABLE OPTIONS** – Valve Vault, Generator, Controllers, Alarming, Telemetry/SCADA, Odor Control, & Control Shelter

### OPTIONAL EQUIPMENT AVAILABLE (Not shown)

*Separate Valve Vault:* Check valves, control valves, etc.

*Electrical Controls:* ITT Flygt APP 521, ITT Flygt FMC, and other controllers

*Level Monitoring:* ITT Flygt LS 100 (Pressure transducer), ITT Flygt LSU100 (Ultrasonic transducer), and other devices

*Generator:* Cummins generator, diesel fuel/natural gas, ATS, sound attenuation, trailer packages

*Weather shelter:* Post/beam open structure

*Communication:* Telephone alarming, RTU, Telemetry/SCADA system

*Odor control:* Bioxide chemical feed system

### DOCUMENTATION for OPTIONAL EQUIPMENT

*Scope of Supply & Design Submittals:*

*Full submittals for Optional Items:* (Not shown)

- Valve vault, hatch, check & operational valves, piping.
- Generator, ATS.
- Lift station controllers
- Telephone alarming, RTU or SCADA system, configuration and set-up.
- Valve vault, hatch, check & operational valves, pressure gauge & piping.

### FREE DESIGN SERVICES INCLUDE

- All lift station specifications, sizing, design and drawings
- All structural & mechanical drawings
- All control & communication design & drawings
- Layout of equipment on the site plan
- Development of submittal documentation
- Secure agency approval of submittals
- Provide operations & maintenance manuals

### ONSITE SERVICES INCLUDE

- Onsite construction advisor
- Start-up services to include controls, pumps etc.
- Site training of agency personnel