

Duplex Wastewater Lift Station

MEDIUM SOLIDS HANDLING PUMP SYSTEM

4"-6" Force Main at 90-500 gpm • 6' diameter wet well in depths to 30'

Wet Well, Internal Valve Assembly, Electrical Controls

DESIGN FEATURES FOR THIS LIFT STATION

Pumping rate: 90 – 500 GPM

Capacity: 80 – 400 homes

Pumps: ITT Flygt Solids handling pumps, N or C impellers, 3085, 3102, 3127

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

THIS ROMTEC UTILITIES SYSTEM INCLUDES

Concrete wet well: 6' 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

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