

*Triplex • 5000 – 9000gpm*

## X-LARGE LINESHAFT SHORT SET SYSTEM

Including Electrical Controls

**Rectangular Wet Well: 10'x20', 10'x22', 10'x24' in depths up to 20'**

### DESIGN FEATURES FOR THIS LIFT STATION

*Pumping rate:* 5000 – 9000 GPM

*Pumps:* Lineshaft Short Set Turbine pumps, semi-open or closed impeller in 10", 12", 14" and 16" discharge

*Level sensors:* Pressure transducer, ultrasonic transducer, floats (level switches), conductive probes, optional level devices available.

### THIS ROMTEC UTILITIES SYSTEM INCLUDES

*Concrete wet well:* 10'(w) x 24'(l) conforming to ACI-318 building code, ASTM C-857, C-890, AASHTO standard specifications for highway bridges H20 truck wheel load, aluminum hatch with stainless steel hardware and ladder for access

*Concrete valve pre-cast slab:* 7'(w) x 8' (l)

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

*Pumps:* 400HP, 3-stage lineshaft short set turbine, 16" discharge with semi-open impeller

*Valves:* Swing check valve, eccentric plug valve and air/vacuum release valve

*Level monitoring & control:* Primary – Probe or level switches (floats)

*Inlet control:* Sluice gates

*Electrical controls:* UL listed, Alternator design

### DOCUMENTATION

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

- Wet well, wet well access lid, valves and piping
- 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:* Alternator, PLC, Controllers, etc.

*Level Monitoring:* Pressure transducer, Ultrasonic transducer, radar, mechanical, 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:* Chemical feed system, air treatment systems and other technologies.

### 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

- Lift station specifications, sizing, design & 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

*Construction services optional & available by request.*