



Pre-Engineered Lift Stations

- Wastewater
- Stormwater
- Industrial

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DUPLEX – 6' X 14' CUSTOM SYSTEM

Wet Well, Valve Vault, Electrical Controls

DESIGN REQUIREMENTS FOR THIS LIFT STATION:

Dry-weather storm flow diversion project.

Pumping summer storm flows to the wastewater treatment plant

278 GPM @ 16.5' TDH

THIS ROMTEC UTILITIES SYSTEM INCLUDED:

City specified: MultiTrove controller, SCADA system / telemetry system

Concrete wet well: fall & confined space entry control, H-20 rated hatch

Piping & accessories: all stainless steel

ITT Flygt pumps: NP3085 MT, 3 HP

Level monitoring & control: Primary - MultiTrove probe, Redundant / Back-up – MultiTrove probe w/MTR relays

Concrete valve vault: H-20 rated hatch, 4" system, check & plug valves, discharge pressure gauge

Electrical controls: UL listed

Communication: telephone alarming, cellular web based SCADA system

ROMTEC UTILITIES' FREE DESIGN SERVICES INCLUDED:

- All lift station sizing, design, drawings, specifications
- 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 onsite construction advisor & start-up services
- Provide operations & maintenance manuals, onsite training of agency personnel



DESIGN YOUR LIFT STATION AND GET A QUOTE

Romtec Utilities provides lift station design and quotation service on our website, www.romtecutilities.com. Click on the Design/Quote button at the top of the web page.

SITE DETAILS

Polluted dry-weather storm water was required to be pumped to the adjacent sanitary sewer. The nearest sanitary sewer was approximately 10' away and 11' above the storm drain thus requiring a lift station. Romtec Utilities was the solution.

LIFT STATION DESIGN DETAILS:

WET WELL

Dimensions: 6' dia. x 14' depth

Top Slab: Custom Romtec Utilities H-20 traffic rated with Flygt Safe-Hatch access cover, flush vent

Influent: 8" dia. PVC with Kor-N-Seal flexible boot, HDPE influent deflector

Discharge: Flygt 4" discharge elbow (2), 4" dia. Sch. 10 stainless steel discharge piping

FLYGT PUMPS

Model/HP: NP3085/3HP (2), one pump equipped with Flygt Mix-Flush Valve model 4901

Electrical: 230V/3-phase

VALVE VAULT

Dimensions: 7'-0"l x 4'-8"w x 5'-0"d

Hatch in Top Slab: ITT Flygt FDRND-HD-GST-33X67 H-20 RATED

Piping: 4" dia. Ductile

Valves: Val-Matic Swing-Flex check valve – 504MI/BF

Val-Matic eccentric plug valve – 5804R/7A08

Pressure Sensor: Ashcroft Iso-ring type 81 – 45/1009/S/02L/60 w/ 60 psi gauge.

CONTROLS

Enclosure: NEMA 4, 36" x 48" x 16" w/24" leg kit

Controller: MultiTrode MT2PC

SCADA: MultiTrode PumpView / cellular web base system

Telemetry: Telephone alarming system

Level Sensors: Primary level control – MultiTrode probe 1.5/10-10m, Redundant level control-

MultiTrode probe .6/3-10m

DOCUMENTATION

Scope of Supply & Design Submittals: Full submittals for:

- Wet well hatch, discharge elbows, pumps, piping & accessories
- Valve vault, hatch, check & operational valves, pressure gauge & piping.
- Electrical controls, controller, starters, level sensing etc.
- SCADA system, PumpViewt configuration and set-up.

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

