



Pre-Engineered Lift Stations

- Wastewater
- Stormwater
- Industrial

www.romtecutilities.com

18240 North Bank Road • Roseburg, OR 97470 • info@romtecutilities.com • 541-496-9678

DUPLEX – 6' X 10' CUSTOM SYSTEM

Wet Well, Valve Vault, Electrical Controls, & SCADA

DESIGN REQUIREMENTS FOR THIS LIFT STATION:

Replacement for an aging existing lift station located adjacent a main roadway
119 GPM @ 32' TDH (Duty point)

City specified: MultiTrode MT2PC controller, MultiTrode PumpView SCADA system

THIS ROMTEC UTILITIES SYSTEM INCLUDED:

Concrete wet well: fall & confined space entry control, pedestrian rated hatch

Pump disconnect panel: with free air stand, cable hatch

Piping & accessories: all stainless steel

ITT Flygt pumps: NP3085 MT, 3 HP

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

Concrete valve vault: Pedestrian rated hatch, 4" system, check & plug valves, discharge pressure gauge, by-pass pumping port

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

Existing lift station was aging and needed to be replaced. Due to site topography, areas sewer terminated approximately 8' below the nearest gravity sewer, thus requiring a lift station. Romtec Utilities was the solution.

LIFT STATION DESIGN DETAILS:

WET WELL

Dimensions: 6' dia. x 10 depth

Top Slab: Custom Romtec Utilities pedestrian rated with Flygt Safe-Hatch access cover with patented cable hatch, flush vent, Romtec pump disconnect panel in stainless enclosure/stand

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: 240V/3-phase

VALVE VAULT

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

Hatch in Top Slab: ITT Flygt FDRND-HD-39X67 Pedestrian

Piping: 4" dia. ductile

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

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

Pressure Sensor: Ashcroft Type 81 Iso-Ring – 8104-ES-02T-CG & Ashcroft Duralife pressure gauge type 1009 – 35-1009-SW-L-02L-60

CONTROLS

Enclosure: NEMA 4X, 36" x 48" x 12" w/24" leg kit

Controller: MultiTrode MT2PC

SCADA: MultiTrode PumpView / cellular web-based system (future)

Telemetry: Telephone alarming system

Level Sensors: Primary – 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.
- Generator, ATS.
- SCADA system, PumpView configuration and set-up.

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

