

# GSC Commercial Pump Station Submittal Form

Job or Customer: \_\_\_\_\_

Job Location: \_\_\_\_\_

Engineer: \_\_\_\_\_

Contractor: \_\_\_\_\_

Submitted By: \_\_\_\_\_ Date: \_\_\_\_\_

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

Purchase Order Number: \_\_\_\_\_ Date: \_\_\_\_\_

**General:** This specification designates the requirements for the commercial pump station including, frame, mechanical components, piping, fittings, and valves.

**Support Frame:** Base of frame shall be constructed of 2", 3", or 4" square steel tubing, and upright frame supports shall be constructed of 1.25", 1.5", or 2" square steel tubing. Tubing size depends on pump station pipe size.

**Mechanical Components:** **Pump:** Shall be duplex pump of series and motor size required per job. Properly sized suction guide and triple duty valve shall be appropriately located. Optional control panel shall allow manual operation of both pumps, or automatic 24 hour cycling between pumps.

**Air Eliminator:** Shall be of fabricated steel construction designed for a maximum working pressure of 150psi.

**Piping:** Shall be constructed of GSC Energy Pro PE4710 High Density Polyethylene DR 11 pipe having a cell classification of 445574 with a UV stabilizer of C. All joints to be heat fused.

**Fittings:** **P/T Plugs:** Shall be constructed of solid brass and have a dual seal core of Nordel, good up to 350° F for water. Plugs shall be rated zero leakage from vacuum to 1000 psig and are capable of receiving a pressure or temperature probe.

**Butterfly Valve:** Shall be constructed of a cast iron body, 416 stainless steel stem with a lever shut off system.

**45°, 90° Elbows:** Shall be molded out of high density polyethylene resins in accordance with the requirements of ASTM 3261.

**Branch and Service Saddles:** Shall be molded out of high density polyethylene resins in accordance with the requirements of ASTM 3261.

**Installation:** The pump station shall be coupled to existing supply and return piping in a dry interior mechanical room via the butterfly valve/ flange connections. Any accessories (expansion tank, chemical pot feeder) shall be supported separately from the pump station support frame.