



LST / SST Pumping System Design Form

Date: _____ Project Name: _____ City: _____

Project Location: _____ City: _____ State: _____

Customer Name: _____

Address: _____ City: _____ State: _____

Phone: _____ Fax: _____ Email: _____

Pump System Type: Booster Flooded suction * Suction lift (7 feet max.) Feet of lift _____ Flow rate _____

Site Conditions: Voltage 208 240 480 Phase Single Phase Three Phase

Start/Stop Configuration: Controller start Pressure start Flow start

Pump System Technology: Fixed speed VFD (variable frequency drive) EBV (electronic butterfly valve) Evolution (SST only) (VFD jockey, EBV main)

Site Calculations:

1. Static pressure at point of connection (POC) _____ PSI
 2. Losses from POC to pump station intake (meter, service line, elevation, etc.) _____ PSI
 3. Loss for backflow preventer (12-15 PSI) _____ PSI
 4. Subtract lines 2 & 3 from line 1 _____ PSI
- System Dynamic Pressure = _____ PSI

Boost Calculations:

5. System requirements = (sprinkler pressure required + main line loss + backflow preventer + lateral line loss + elevation) _____ PSI
 6. System dynamic inlet pressure (line 4 from above) _____ PSI
 7. Subtract line 6 from line 5 _____ PSI
- Desired Pressure = _____ PSI
- Boost required by Pump = _____ PSI

Options

- Omit Enclosure
- Stainless Steel Enclosure
- Marine Grade Aluminum Enclosure
- Sandstone Finish (steel enclosure only)
- Dead-front Service Disconnect
- Thermostatically Controlled Heater
- Optical Isolator for Sharing Flow Sensor
- Automatic Filtration = _____ Micron
- Wye Strainer
- Black & White Touch Screen (VirtualVisionI)
- Color Touch Screen (VirtualVision II)
- Watervision Remote Monitoring Software Pkg.
- Suction Z Pipe (System Intake x _____)
- Discharge Z Pipe (System Discharge x _____)
- Pressure Maintenance Pump
- Vandal Resistant Alarm Light
- Multiple Pumps in Lieu of Single Main Pump (SST ONLY)

- Stationary Lake Screen
- Rotating Lake Intake Screen with Controls
- Backflow Preventer (in it's own enclosure)

Available on VFD Systems Only

- VFD Bypass Contactor to Run Pump Should the VFD Fail

Available on Suction Lift Systems Only

- 20' Floating Suction Line with Foot Valve
- Additional 10' Suction Line x Number _____
- Reprime Assembly

Available on Single Main Booster Systems Only

- Full Flow Bypass Line w/3 Isolation Valves

Available on Booster or Flooded Systems Only

- Station Inlet Isolation Valve

- Submersible Pump in Lieu of Horizontal Pump

* If more than 7 feet of suction lift, consult factory