1. Determine Tank’s Volume per Inch
   Rectangular Tank
   \[(L-6) \times (W-6) \times 7.48 \div 12 = \text{Gals per Inch (GPI)}\]
   Round Tank
   \[(D-6)^2 \times \pi \div 4 \times 7.48 \div 12 = \text{Gals per Inch (GPI)}\]

2. Tank Liquid Volume
   \[\text{Gals per Inch} \times \text{Liquid depth} = \text{Liquid Volume}\]
   \[\text{GPI} \times (\text{Elv B} – \text{Elv Inlet}) = \text{Liquid Volume}\]
   From the top of the Riser measure the inches to the bottom of the tank, that’s Elv B;
   and measure the inches to the invert of the inlet, that’s Elv Inlet.

3. Pump Alarm Elevation
   \[\text{Elv B} – \text{Elv A} = \text{Design Spec. ?}\]
   Leave pump control in OFF mode and continue to fill tank with water,
   when Alarm sounds, shut off water. Now measure the inches to Elv A
   Adjust Alarm float and all others as necessary to meet design spec.

4. Emergency Storage
   \[(\text{Elv A} - \text{Elv Inlet}) \times \text{GPI} = \text{Gals of Storage}\]
   Does this meet the Design Spec.?

5. Programable Timer Control Panel
   Check settings (Off, On, & Override Off, Override On) and compare to design specs
   Adjust as necessary.

6. Make sure that: (as measured from riser)
   \[\text{Elv OFF is < Pump intake Elevation (pump should not suck air before shutting off)}\]
   \[\text{Elv OFF is < Screen Vault Inlets (at Elv OFF make sure no inlet holes are showing)}\]
   \[\text{Elv ON is > Elv Inlet}\]