





I. Leak Testing Procedures:

1. The tank shall be set and leveled. The tank hole may be backfilled to a point below the midseam of a two piece tank or to the midpoint of a one-piece tank. If site conditions do not allow the tank hole to be left open or if you choose not to leave the tank hole open, the tank shall be leak tested onsite prior to placement in tank hole.
2. The manhole riser(s) (if applicable) shall be attached to the tank according to state approved plans.
3. The tank shall be filled with water 2" above the seam where the manhole riser is connected to the tank top, or to a point level with the top of the tank in both manholes if riser(s) are not required. It is strongly recommended to perform the leak test prior to removing any tank block out (placing any pipes into/out of the tank). If tank block outs have been removed and pipe has been installed it will be necessary to block or plug the inlet and outlet pipe to prevent flow from these pipes. It may also be necessary to place mastic around the bevel of the inlet manhole and weight the lid down to prevent leakage.
4. After filling and allowing for the concrete to absorb water (about 24 hours) add any additional water needed to get water level back to the starting level.
5. Contact the Onslow County Health Department to conduct the test. The test will take a minimum of 24 hours and will not be conducted Friday or the day prior to a Holiday.
6. Only after the completion of a satisfactory leak test will the tank be approved for use.

II. Vacuum Testing Procedures:

1. The tank shall be set and leveled. The tank hole may be back filled to a point below the midseam of a two piece tank or to the midpoint of a one piece tank. If site conditions do not allow the tank hole to be left open or if you choose not to leave the tank hole open, the tank shall be leak tested on site prior to placement in tank hole.
2. The manhole riser(s) (if applicable) shall be attached to the tank according to state approved plans.
3. The pump tank shall be vacuum tested as per one of the following:

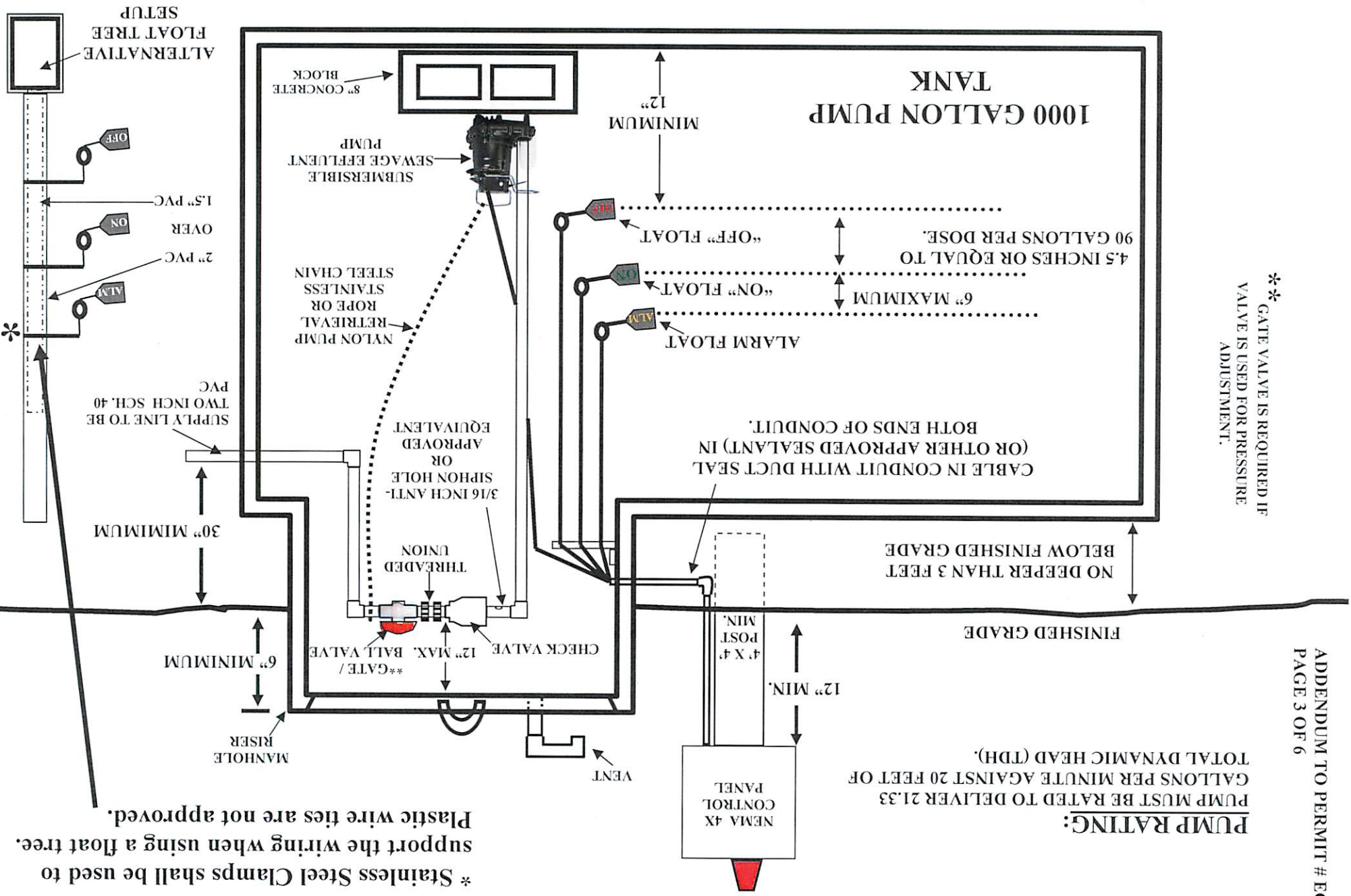
<u>Inches of Mercury</u>	<u>Duration</u>
3"	1 Hr.
5"	10 Min.
10"	1 Min.

( $\leq$  10% pressure drop shall constitute an acceptable test)

4. Onslow County Health Department representative shall be present during vacuum testing procedure.
5. Only after the completion of a satisfactory vacuum test will the tank be approved for use.

# PUMP SYSTEM DETAIL SHEET

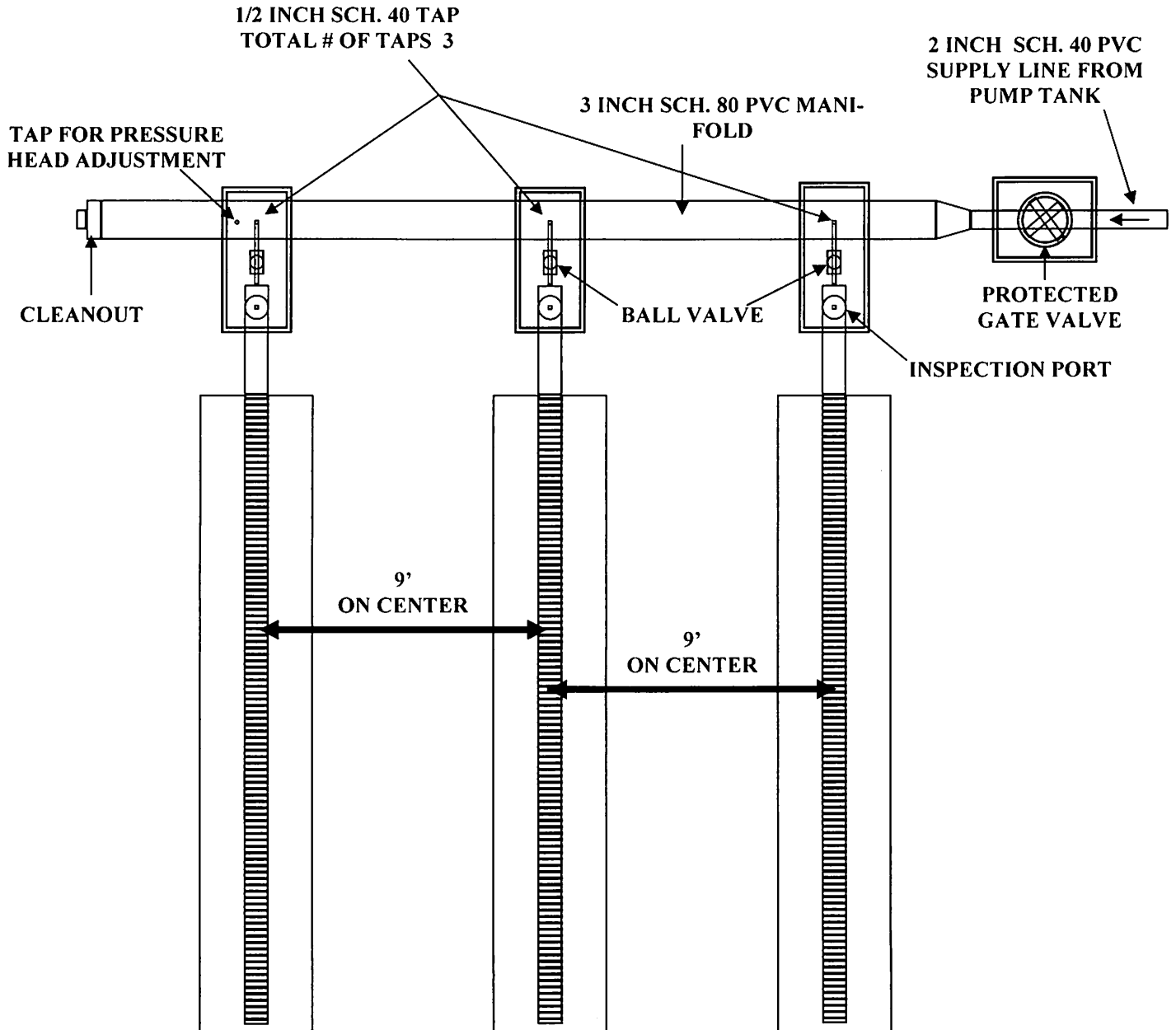
\* Stainless Steel Clamps shall be used to support the wiring when using a float tree. Plastic wire ties are not approved.



**PUMP RATING:**  
 PUMP MUST BE RATED TO DELIVER 21.33 GALLONS PER MINUTE AGAINST 20 FEET OF TOTAL DYNAMIC HEAD (TDH).

\*\* GATE VALVE IS REQUIRED IF VALVE IS USED FOR PRESSURE ADJUSTMENT.

## MANIFOLD FOR LEVEL SITES



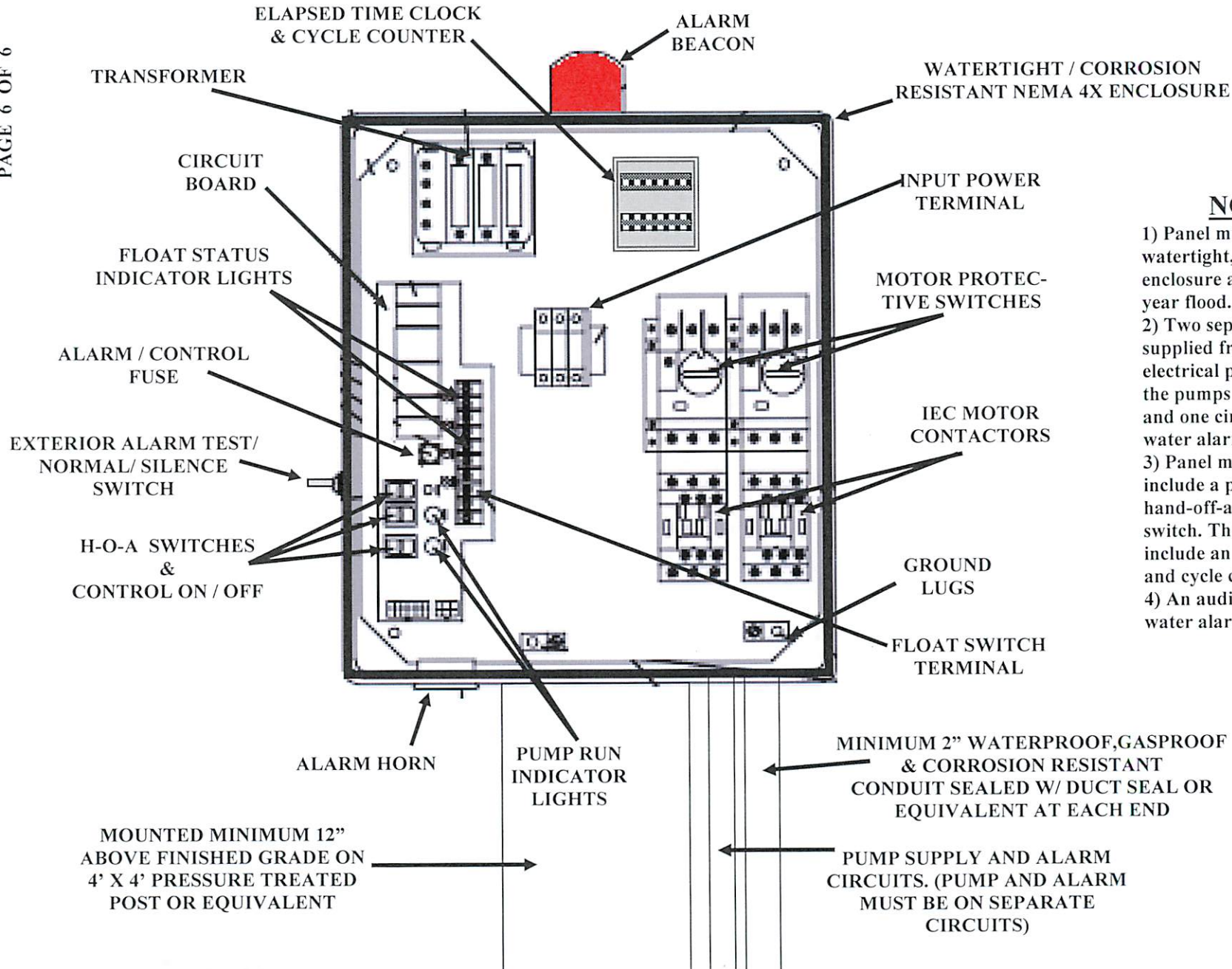
- PRESSURE HEAD TO BE SET AT 2 FEET.
- MANIFOLD SHALL BE INSTALLED LEVEL.
- CLEANOUT PLUG MAY BE ADAPTED TO ACCOMMODATE A STAND PIPE FOR PRESSURE HEAD ADJUSTMENT.

**Pump Tank Additional Specifications**

1. There shall be no splices in any electrical cable within the pump chamber.
2. Pump and alarm must be on two separate live electrical circuits which operate independently of each other.
3. If the pump manufacturer specifies that the "pump off" level be below the top of the pump, then follow the manufacturer's specifications and adjust other floats accordingly.
4. Contact the Onslow County Electrical Inspector for release of Temporary Full Service and be sure service is available **prior** to contacting the Onslow County Health Department for inspection.
5. Check valves shall be mounted horizontally and such that a siphon breaker hole can be drilled on the pump side of the valve.
6. Only those tanks specifically approved by the state of North Carolina and appropriately stamped shall be used for pump tanks. Modified septic tanks shall not be approved.
7. This permit is valid only for that shown on the attached plot plan, these specifications, and related paraphernalia approved by the Onslow County Health Department.
8. A complete and approved installation is required for this permit to continue to be valid beyond five years elapsed time from the date of issuance.
9. This permit is valid subject to all conditions so noted on this permit, the operations permit, the approved plans and specifications, and any written correspondence that may specify a condition or requirement.
10. This permit is valid only for as long as it meets all requirements of G.S. Chapter 130A Article 11 and related portions of NC Administrative Code.
11. No driving or parking shall be allowed over any portion of the system or repair area unless specifically approved elsewhere in this permit.
12. System operation, maintenance and repairs shall be the responsibility of the land owner as named on this permit.
13. This permit shall not be transferred, nor shall any changes of use occur, without prior approval by the Onslow County Health Department.
14. The pump curve for the effluent pump installed shall be available during the system inspection.
15. Paperwork confirming that the electrical enclosure used is NEMA 4X rated shall be available during system inspection. (Paperwork is not necessary if NEMA 4X rated is clearly marked on the enclosure.)

# CONTROL PANEL DETAIL

(NOT A WIRING DIAGRAM! CONSULT AN ELECTRICIAN)



## NOTES:

- 1) Panel must be in a NEMA 4X, watertight, corrosion resistant enclosure and located above 100-year flood.
- 2) Two separate circuits must be supplied from the main house electrical panel--one circuit for the pumps and pump controls and one circuit for the high-water alarm.
- 3) Panel must be U.L. listed and include a pump run light and hand-off-automatic (H-O-A) switch. The panel should also include an elapsed time clock and cycle counter.
- 4) An audible and visible high-water alarm shall be provided.