PUMP TANK : 1000 gallon

MANIFOLD SIZE : 4" SCH 40 PVC

TAP SIZE : ½"

TAP SEPARATION: 6"

DOSE PER TAP : 7.1 gpm

NUMBER OF TAPS: 5

SUPPLY LINE : 2" SCH 40 PVC

ELEVATION HEAD ABOUT 12' TO TOP OF REPAIR AREA.

PUMPING DISTANCE <100',

FRICTION HEAD @ 45gpm FOR 100' ≅ 2.5'

PRESSURE HEAD = 2'.

E.H. + F.H. + P.H. = TDH

12 + 3.27 + 2 = 17.27

PUMP SHOULD BE CAPABLE OF DELIVERING 45 gpm AT A TOTAL DINAMIC HEAD OF 17.27. ~~(EXAMPLES ARE ZOELLER 188 EFFLUENT PUMP, ZOELLER 293 SEWAGE PUMP).~~ SIZING THE PUMP FOR 26 FEET OF TDH AT 30 gpm?, WILL ACCOMODATE THE LPP REPAIR.

1. THE MANIFOLD NEEDS TO BE INSTALLED LEVEL; THE TAPS THREADED AND GLUED, OR DRILLED AND SADDLED. ALL TAPS OFF ONE SIDE OF MANIFOLD. MANIFOLD NEEDS TO BE FITTED WITH CLEANOUT/PRESSURE TAP. ~~EXTENDED TO GRADE AND PROTECTED WITH A VALVE BOX~~ MANIFOLD TO BE HOUSED IN A PROTECTIVE

BOX. CONSTRUCTION CAN BE VARIABLE, CONTACT DEPT PRIOR TO INSTALLATION FOR CONSTRUCTION GUIDELINES

2. TAPS SHOULD BE CONTINUED FOR ABOUT 6" BEFORE COUPLING UP TO 3" SCH 40 PVC. COUPLING CAN BE MADE IN SEVERAL WAYS, CONTACT DEPT FOR GUIDELINES. INSTALL BALL VALVE IN ½" TAP.
3. PUMP TANK MUST BE FITTED WITH A LEAKPROOF RISER TERMINATED AT LEAST 6" ABOVE FINISHED GRADE. SET PUMP OFF BOTTOM OF TANK ON BRICKS OR BLOCKS. MAKE FLOAT TREE FOR PUMP AND ALARM FLOAT MOUNTING. INSTALL QUICK CONNECT JOINT BETWEEN PUMP AND CHECK VALVE ON PUMP LINE, AND LOOP PUMP LINE UP INTO RISER FOR EASY ACCESS TO CONNECTING JOINT. ATTACH TO PUMP HANDLE APPROX. 10' LENGTH OF ROT-RESISTANT ROPE FOR EASY EXTRACTION. A 24 HOUR LEAK TEST IS NECESSARY ON THE PUMP TANK, RECOMMENDED ON SEPTIC TANK.
4. INCLUDE A 2" BALL VALVE IN SUPPLY LINE IMMEDIATELY BEFORE MANIFOLD.