3.0 PUMP REQUIREMENTS

At least 2 pumps shall be provided. If only 2 units are provided, they shall have the same capacity. Each shall be capable of handling flows in excess of the estimated daily peak flow (GPM). Where more than 2 units are provided, each shall be designed to fit maximum flow conditions and must be of such capacity that with any one unit out of service the remaining units will have capacity to handle maximum sewage flows.

3.1 GENERAL

A. Sewage pumping stations may be either suction-lift type or submersible. When total suction lift exceeds 20 feet, only submersible-type pumps will be permitted.

B. Submersible-type grinder pumps will only be acceptable for pump stations utilizing 10-horse power pumps or smaller.

C. Pumps less than 2-horse power are not acceptable.

D. Pumps must be 3-phase.

E. The pump discharge piping diameter shall be determined as follows:

Individual Pump Output	Pipe Diameter
50 GPM and Below	2"
51 to 80 GPM	3"
81 GPM and Above	4" Minimum

F. The pump discharge piping diameter and material shall be uniform from the pump discharge base to the common header tee.

G. The common header and force main pipe diameter shall be sized to produce a minimum flow of 2 F.P.S. with one pump running and a maximum flow of 8 F.P.S. from the combined output of 2 pumps.

3.2 ACCEPTABLE MANUFACTURERS

A. Suction lift-type pumps shall be Smith & Loveless, Gorman-Rupp, or approved equal.

B. Submersible non-clog solids handling pumps shall be Flygt, A.B.S. Co., Myers, Fairbanks Morse, KSB or approved equal.

C. Submersible grinder pumps shall be manufactured by the Flygt Co., A.B.S. Co., Myers, Hydromatic, KSB or approved equal.