

9. Pipe design shall provide for non-turbulent discharge to minimize hydrogen sulfide gas.
10. Lift stations may consist of a wet well with dual submersible pumps rather than a dry well package station. Each pump shall run on alternate cycles and each pump shall have the ability to handle flows individually.

The submission of a minimum of three manufacturers of submersible pumps and a minimum of two manufacturers of dry well pack lift stations is required. The submission shall include specifications and efficiency calculations for each pump and motor.

11. An alarm system shall be included to notify sewer maintenance personnel by telephone regarding emergencies. The alarm system shall send the high water level, pump failure, commercial power failure and standby alternator/generator if a fixed set is at the site.
12. A control pedestal, included in the electrical panel, shall be provided within the paved station enclosure to :
 - a. Observe the level in the wet well.
 - b. Observe which pump is running.
 - c. Control the operation of each pump.
 - d. Include a running time in hours for each pump and motor.
 - e. Provide a quick connect and disconnect for external power.
 - f. An electronic bubbler shall be used to control the pumps and monitor the liquid level.
13. The lift station site shall also include :
 - a. One inch water service with hose bib for wash-down and general housekeeping.
 - b. Two each duplex weather-proof electrical convenience outlets.

CITY OF PORTERVILLE
ENGINEERING DIVISION

Harold L. Hill 7-7-87
CITY ENGINEER R.C.E. 20186 DATE

SEWER SYSTEM SPECIFICATIONS

S-12

2 OF 2

REV.