1.09 MISCELLANEOUS REQUIREMENTS

PUMP DISCHARGE LINES

A gate valve, check valve, and a flow meter shall be placed on the discharge line of each pump. Flow meters shall be installed with upstream and downstream straight sections per meter manufacturer's recommendations.

GATE VALVES

Sufficient valves shall be provided to isolate each pump from the system.

AIR RELEASE VALVE

An air release valve shall be installed with each pump and check valve.

1.10 PLAN PREPERATION AND PLAN CHECK

Plans prepared for additions to the Company's water system and submitted to the Company for approval shall be in substantial form and shall be in accordance with the following requirements:

- Final as built.
- Drawings shall be in ink on Mylar. Sheet size shall be 24 inches by 36 inches.
- The water notes shall appear once on the first sheet of the plans. All required Certifications and approvals shall appear on the first sheet.
- Each sheet shall have a title and revision block in the lower right hand corner.
- Each sheet shall have a north arrow, when applicable.
- A key map having a scale of one inch equals 200 feet shall be shown on the first sheet of each set of drawings. Said key map shall show all water mains, their sizes, gate valves, fire hydrants, and appurtenances in their scaled relation to one another. All roads shall be shown and named.
- Plan and profiles are required for all pipelines. Double plan and profile sheets may be used. Scales to be used are as follows:

Plan and Profile: (Mild Grades)	1-inch = 40 feet horizontal 1-inch = 4 feet vertical
Plan and Profile: (Steep Grades)	1-inch =100 feet horizontal 1-inch =10 feet vertical

Profiles shall show pipe size, pressure class of pipe, existing ground elevation and finish grade, appurtenances, the depth, size and location of other utilities which cross over or under the water line, the location and nature of special construction such as concrete blankets or encasements, flow line elevations at grade changes and any other pertinent items necessary to the proper construction and recordation of the water lines.