

SECTION I

Overview of the AMERICAN MFG. COMPANY RSF SYSTEM

The **AMERICAN RSF** utilizes age-old technology and EPA recirculating sand filter standards to provide secondary treatment to primary treated effluent. The primary treated effluent is either pumped or flows by gravity to a Recirculation/Pump tank. Tank is sized for 0.5 to 1.5 days peak design flow. Effluent is pumped to the sand filter on a timed basis via duplex alternating pump system. Pumps are effluent rated turbine pumps situated inside our patented Cool Guide (laminar flow collar). Recirculation rates, pump run times, and pump rest times are adjustable. The effluent is distributed through hydraulically activated sequencing valves, which direct effluent to a manifold and onto a series of evenly spaced parallel PVC laterals with pre drilled orifices. A series of under drains collects the treated effluent. The American RSF recirculation technique allows for various recirculation rates including a 100% recirculation option during periods of low flow.