

5. SOUND ATTENUATION

All bypass pumping units used within, or within 1,000 feet, of areas zoned residential shall be enclosed in critical level sound enclosures. Sound operating units shall not exceed 70 dBA measured at 25 feet from the unit.

6. BYPASS HOSE OR PIPING

All bypass pumping hose or pipe shall be provided in good condition. Damaged or leaking pipe or joints shall not be accepted. The **Contractor** is responsible for any sanitary sewer discharge to the surface due to hose or pipe failure.

7. BYPASS PUMPING PLAN

It shall be the **Contractor's** responsibility to legibly and thoroughly complete, in its entirety, a Bypass Pumping Plan Form and submit it to the **Engineer** and/or the appropriate City staff for review and approval, prior to the installation of any pumping system proposed for use.

Unless the bypass pumping is associated with an emergency work order, the standard approval protocol is as follows: The **Contractor** prepares and submits the plan to the **Engineer** a minimum of 7 days prior to mobilizing to site. The **Engineer** reviews the bypass plan and coordinates approval with Engineering Services and the Operating Department. **Engineer** and City will put forth a reasonable level of effort to expedite the review and approval process. No deviation from the procedure shall be allowed.

The **Contractor** shall submit a Bypass Pumping Plan to the **Owner** for review prior to proceeding with bypassing operations. Bypassing operations shall not commence until a Bypass Pumping Plan has been reviewed and approved by the **Owner**. As a minimum, the Bypass Pumping Plan shall contain the following items:

- A. Pump manufacturer's name, model number(s), rated capacity, performance curves, and motor horsepower.
- B. Diameter and material of the bypass piping (suction and discharge).
- C. Hydraulic calculations including flow and head conditions.
- D. Schematic showing the arrangement and layout of the bypass pumping system.
- E. Emergency 24-hour telephone numbers for the Contractor's key personnel.

8. CONTRACTOR'S RESPONSIBILITIES REGARDING SANITARY SEWER OVERFLOWS

The **Contractor** shall be responsible for and shall indemnify and hold the **Owner** harmless for any sanitary sewer overflow occurring as the result of the work performed. The **Contractor** is responsible for any sewer discharge to the surface due to failure in bypass hose, piping or other equipment. Any discharge from air release valves shall be contained. The Contractor shall ensure that raw sewage will not spill on the ground or into any bodies of water, channels, or conduits of conveyance of storm water during the performance of this work. Prior to removal of the bypass pumping pipe, the **Contractor** shall empty all sewage into the sewer system.