

TITLE 35: ENVIRONMENTAL PROTECTION

SUBTITLE C: WATER POLLUTION

CHAPTER II: ENVIRONMENTAL PROTECTION AGENCY

PART 374

DESIGN CRITERIA OF PRESSURE SEWER SYSTEMS

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AUTHORITY: Authorized by and implementing Section 13(a)(3) of the Environmental Protection Act [415 ILCS 5/13(a)(3)].

SOURCE: Filed with the Secretary of State December 20, 1977, effective December 20, 1977; codified at 6 Ill. Reg. 13019, effective October 12, 1982; amended at 21 Ill. Reg. 12439, effective August 28, 1997.

SUBPART A: PERMITS

<BSection 374.101 Introduction>>

These design criteria are to be used by the Illinois Environmental Protection Agency in reviewing 35 Ill. Adm. Code 309, Subpart B permit applications for pressure sewer systems including grinder pump systems and septic tank effluent pumping (STEP) systems.

(Source: Amended at 21 Ill. Reg. 12439, effective August 28, 1997)

<BSection 374.102 Conventional System Preference>>

If possible, the development proposed shall be served by a conventional sewer system. A conventional sewer system is defined as gravity sewers or a conventionally designed pumping station.

(Source: Amended at 21 Ill. Reg. 12439, effective August 28, 1997)

<BSection 374.103 System Pressure Maintenance>>

The owner or operator of a pressure sewer system shall provide a method of inspection or authorization to assure that users of the system maintain the original design operating pressures of the system when repairing, modifying or replacing any of the pumping equipment on the user's premises.

(Source: Amended at 21 Ill. Reg. 12439, effective August 28, 1997)

<BSection 374.104 Sludge Disposal>>

Permits for STEP systems shall not be issued unless the applicant provides satisfactory evidence that adequate facilities are available for the pumping and disposal of septic tank sludge.

(Source: Section 374.104 repealed and new Section 374.104 renumbered from Section 374.105 at 21 Ill. Reg.12439, effective August 28, 1997)

<BSection 374.105 Sludge Disposal (Renumbered)>>

(Source: Section 374.105 renumbered to Section 374.104 at 21 Ill. Reg. 12439, effective August 28, 1997)

<BSection 374.106 Pressure System Failure (Repealed)>>

(Source: Repealed at 21 Ill. Reg. 12439, effective August 28, 1997)

SUBPART B: DESIGN CRITERIA

<BSection 374.201 Duplex Pumps>>

If grinder pumps are serving more than one building, duplex pumping units shall be required. If the pumps are to be installed for individual buildings, a single pumping unit may be used.

(Source: Amended at 21 Ill. Reg. 12439, effective August 28, 1997)

<BSection 374.202 Minimum Size>>

The grinder pump "wet well" should have a minimum size of 150 gallons.

<BSection 374.203 Valves>>

Valve arrangements and connection shall be made so as to allow quick removal and replacement of equipment for maintenance purposes.

<BSection 374.204 Non-corrosive Equipment>>

Non-corrosive or corrosion-resistant equipment shall be specified for STEP systems.

<BSection 374.205 Influent Pumping>>

In the STEP systems, pump well influent piping should enter at the bottom of the well to prevent cascading of septic effluent in order to minimize both odor and corrosion.

<BSection 374.206 Pump Vaults>>

All pump vaults shall be equipped with locking covers.

<BSection 374.207 Marked Sewer Lines>>

Where polyvinyl chloride (PVC) pressure mains are to be installed in the vicinity of similar water supply lines, the sewer line should be clearly marked to prevent possible future cross-connections.

(Source: Amended at 21 Ill. Reg. 12439, effective August 28, 1997)

<BSection 374.208 Alarm Systems>>

An alarm system shall be provided in the home where grinder units are installed in the basement to alert the home owner in case of pump malfunction. A visual alarm system shall be provided for those pumping units installed in a separate pumping vault outside of the home.

(Source: Amended at 21 Ill. Reg. 12439, effective August 28, 1997)