

# Sewage Disposal System Piping

## Technical Standards Section III

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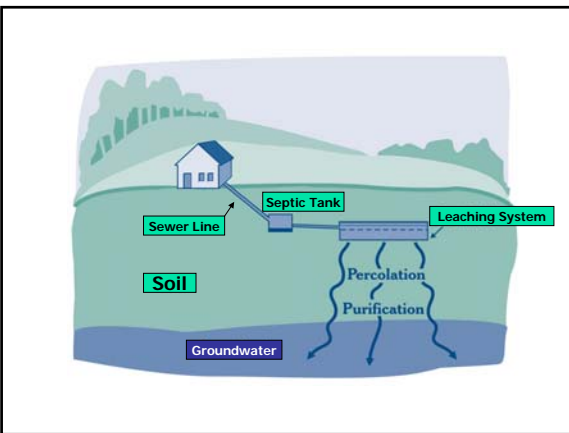
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- ### Section III: Piping
- **Building Sewers**
    - Minimum size 4" pipe
    - Minimum pitch 4" pipe: 1/4" per foot
    - Minimum pitch 6" - 8" pipe: 1/8" per foot
    - High strength pipe
    - Table No. 2
- Definitions, Location and Piping, Tech. Standards Section I-III 3

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## Building Sewer Pipe Pitch

10 feet X 0.25 (1/4 inch / foot) = 2.5 inch drop required

4 inch diameter

2.5 inch X 0.083 (1 foot / 12 inches) = 0.208 foot drop required

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## Building Sewer Pipe Pitch

10 feet X 0.125 (1/8 inch / foot) = 1.25 inch drop required

6 or 8 inch diameter

1.25 inch X 0.083 (1 foot / 12 inches) = 0.104 foot drop required

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## Piping

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## Municipal Sewer Lateral



**Note: Pump (i.e., Grinder) vaults are sources of pollution and must be located at least 75 feet from wells pumping less than 10 gallons per minute**

**Well Regs. 19-13-B51**

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**Table No. 2-B  
Accepted Pipe for Public Sewer Mains Within the Sanitary Radius of a Water Supply Well**

All public sewer mains installed within the sanitary radius of a water supply well shall be low pressure as noted on the drawings of the design engineer. A report of the test results should be submitted to the local director of health.

USE	PIPE DESIGNATION	ACCEPTABLE JOINT	REMARKS
Public sewer mains within the sanitary radius of a water supply well. NOTE: The installation of manholes, structures, shall be maintained. Deep wells located on individual lots.	Cast iron bellows pipe ASTM A 881	Cast iron bellows joints equipped with rubber gasket. MSJ coupling or equal or 2' made ready joint installation shall be sealed coupling with rubber gasket. *Standard: AASHTO M 280 or equal	Bellows: Heavy type, gaskets not acceptable if used within 75 feet of well. Pipe must be properly belled. All connections with pipe manufacturer's specifications, bell in a straight line on a finished grade.
	Ductile iron ANSI A21.21	Rubber compression gaskets	
	Extra strength PVC pressure water pipe, ASTM A C 900 (PVC 150 psi min)	Rubber compression gaskets	
	Asph/Flt reinforced water pipe, steel, 1/2" ductile type, not pre-cast. ASTM A 618	Rubber compression gaskets	
Note: Force mains must use approved pipe used for pressure applications.	Schedule 40 PVC ASTM D 1782 or ASTM D 2689	Rubber compression gasketed couplings. Elbow 3/4", ASTM D 5119 or equal	*Use 2' made ready steel bell or coupling on PVC Schedule 40 ASTM D 1782 is acceptable.  All SPS Schedule 40 is not acceptable.  Spans must meet ASTM D 5121.  Bending in accordance with ASTM D 2121 for PVC pipe.  Inlet man: ASTM D 2121 Inlet man: ASTM D 2121
	PVC ASTM D 2241, SDR 21, 17 or 13.5	OR Rubber compression gasketed couplings. Elbow 3/4", ASTM D 5119 or equal	
	PVC ASTM F 1700, Schedule 40 or SDR 35 PVC ASTM D 3034, SDR 31 PVC ASTM F 798 PVC ASTM F 879	Submer well coupling: Straps using proper fire stop PVC submer well connection procedure	
	PVC CONTECH A-2020, ASTM F 646 PVC CONTECH A-2020, ASTM F 646 PE-ASTM F 801, SDR 11 or 10.6	Electromech gasket man: ASTM F 477 Gaskets man: ASTM F 477 No joints other than those connections of	

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## Section III: Piping

- **Acceptable tight pipes:**
  - Table No. 2C
  - Less than 25' from open watercourse
  - Groundwater or storm piping less than 25'
  - Distribution piping located less than minimum separation distances in Table No. 1

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**Section III: Piping**

- **Water Pipe Trenches**
  - Water Service & Building Sewers in Same Trench
  - Water Service & Building Sewer Crossings

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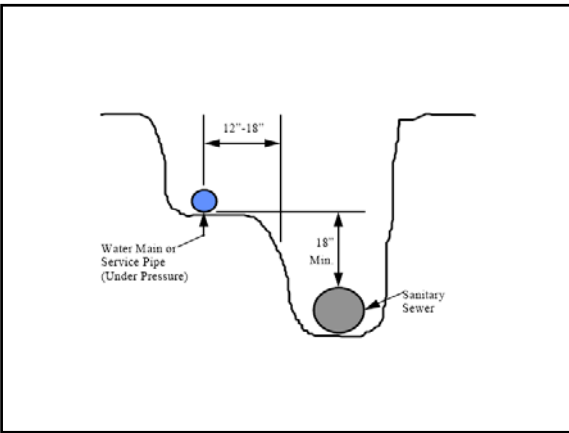
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**Section III: Piping**

- **Air Pressure Testing of Sewer Pipe**
  - Sewer Lines Between 25-75 feet from well

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