

* Sewage Disposal System Piping

Technical Standards Section III Pg. 18 & 19

Connecticut Department of Public Health
Keeping Connecticut Healthy




* Building or House Sewer

*The pipe located between the building served connected to the septic tank or grease interceptor tank

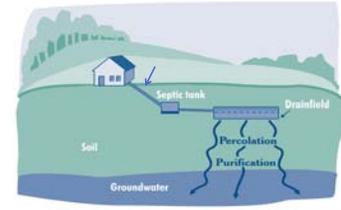
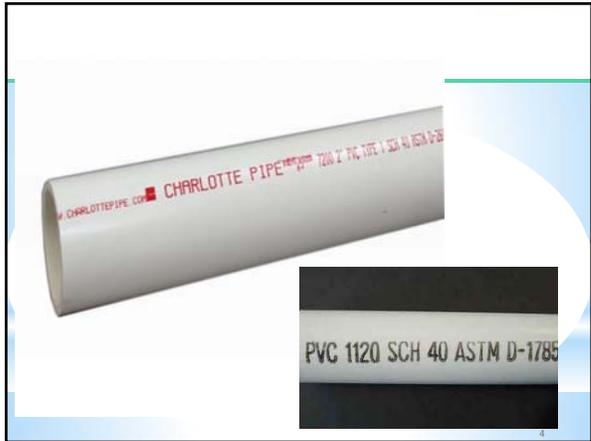


Table 2
Approved Building Sewer Pipe from Building Served to Septic Tank or Grease Interceptor Tank

NOTE: The local director of health shall inspect all building sewer piping and joints prior to covering.

USE	PIPE DESCRIPTION	ACCEPTABLE JOINT	REMARKS
Building sewer from foundation wall to septic tank or grease interceptor tank.	Cast iron hubless ASTM A 888	Cast iron split sleeve bolted joint with rubber gasket, MG coupling or equal. OR 3" wide, heavy duty, stainless steel banded coupling with rubber gaskets, clamp-all, ANACO SD 2000, or equal.	Roll-on "donut type" gaskets not acceptable if connection is within 24 feet of foundation wall. Pipe shall be properly bedded, laid in straight line on uniform grade.
Building sewer within the sanitary radius of a water supply well, but no closer than the following minimum distances based on withdrawal rates: 10 - 50 gpm: 75 feet 50 gpm: 100 feet Building sewers no less than 25 feet from a water suction pipe.	Cast iron bell and spigot ASTM A 74	Rubber compression gaskets.	Stainless steel 3" wide, three band coupling required for connection of dissimilar piping materials.
Building sewers and pressurized water lines shall be installed in accordance with Section III D. Building sewers shall be kept a minimum of 10 feet from closed loop geothermal bore holes and trenches. There are no minimum distances between building sewers and other lines listed in Table 1. However items placed near building sewers shall not damage or compromise the integrity of the pipe.	PVC Schedule 40 or 80, ASTM D 1785 or ASTM D 2685	Rubber compression gasket couplings, Elanco Mfg., ASTM D 3139 or equal. OR Solvent weld couplings/ fittings using proper two step PVC solvent solution procedure.	*Use of 3" wide approved stainless steel banded coupling on PVC, ASTM D 1785 or 2685 is acceptable. UL (gray) Piping - Schedule 40 or 80 - 36 inch radius sweep piping (OP) may be utilized without a transition. ABS Schedule 40 is not acceptable.
	Ductile iron ANSI A 21.51	Rubber compression gaskets.	Connection to cast iron building sewers shall be made with compression gaskets.
	PVC AWWA C 900 (PC 100 psi min.)	Rubber compression gaskets.	"O" ring gasket is not acceptable.
	PVC ASTM F 1750, Schedule 40	Rubber compression gaskets.	Only 4" pipe approved. Minimum 1" offset in vertical bolted traffic areas.

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* Building Sewer

- Sometimes referred as sewer line or soil line
- Rigid pipe that resists crushing



* 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 2

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DPH * **Building Sewer Pipe Pitch**

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

4 inch diameter

10 / 4 = 2.5 or 10 x .25 = 2.5
2.5 / 12 (inches to feet) = .208

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DPH * **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 / 12 (1 foot / 12 inches) = 0.104 foot drop required

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DPH * **Piping: Clean-out to Grade**

PLAN VIEW

PROFILE

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DPH * **Clean-out to Grade**

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DPH *** Pipe Connections**

USE	PIPE DESCRIPTION	ACCEPTABLE JOINT	REMARKS
Building sewer from foundation wall to septic tank or grease intercepter tank.	Cast iron hubless ASTM A 888	Cast iron split sleeve, bolted joint with rubber gasket, or coupling or equal. OR 3" wide, heavy-duty, stainless steel bandied coupling with rubber gasket, clamp-it, ANACD SD 5000, or equal.	Roll-on "donut type" gaskets not acceptable if connection is within 25 feet of foundation wall. Pipe shall be properly bedded, laid in straight line on uniform grade.
Building sewers within the sanitary radius of a water supply well, but no closer than the following minimum distances based on withdrawal rates: -10 gpm: 25 feet -10 - 50 gpm: 75 feet -50 gpm: 100 feet	Cast iron bell and spigot ASTM A 74	Rubber compression gaskets	Stainless steel 3" wide shear band coupling required for connection of dissimilar piping materials.
Building sewers no less than 25 feet from a water section pipe.	PVC Schedule 40 or 80, ASTM D 1785 or ASTM D 2665	Rubber compression gasket couplings, Harco Mfg., ASTM D 2137 or equal* OR Schwenn seal couplings/ fittings using proper two step PVC solvent solution procedure.	*Class of 3"-wide approved stainless steel bandied couplings on PVC, ASTM D 1785 or 2665 is acceptable. UL Gray Piping - Schedule 40 or 80-36" min. radius sweep piping (SP) may be utilized without a clearance. MNS Schedule 40 is not acceptable.
Building sewers shall be kept a minimum of 10 feet from closed loop geothermal bore holes and trenches.	Ductile iron ANSI A 21.51	Rubber compression gaskets	Connection to cast iron building sewer shall be made with compression gaskets.
There are no minimum distances between building sewers and other items listed in Table 1. However items placed near building sewers shall not damage or compromise the integrity of the pipe.	PVC AWWA C 900 (PC 100 psi min.)	Rubber compression gaskets	"O"-ring gasket is not acceptable.
	PVC ASTM F 1760, Schedule 40	Rubber compression gaskets	Only 4" pipe approved. Minimum 1" cover in vehicular loaded traffic areas.

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DPH *** Section III: Piping**

- * Approved Sewage Piping
 - * Table 2 Building Sewer Piping
 - * Table 2-A Sewage Effluent Distribution Pipe
 - * Table 2-B Sewage Force Main Piping

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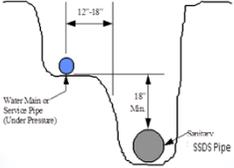
DPH *** Section III: Piping**

- * Approved Tight Pipe for Groundwater or Surface Water Piping
 - Table 3
 - * Solid groundwater and surface water drainage pipes within 25 feet of a sewage system

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 ***Section III: Piping**

- *Water Supply Piping
- *Water Service & Building Sewers in Same Trench
- *Water Service & Building Sewer Crossings



Water Main or Service Pipe (Under Passage)

12'-18"

18" Min.

Secondary SSGS Pipe

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