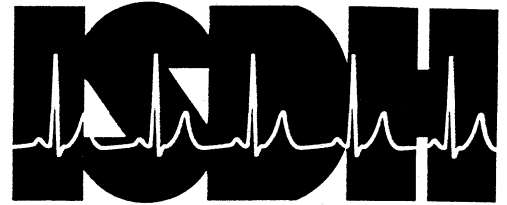


Evan Bayh, Governor
John C. Bailey, M.D., State Health Commissioner

Indiana State Department of Health
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Indiana State Department of Health

An Equal Opportunity Employer

DATE: February 6, 1995

TO: Local Health Departments

THRU: Durland H. Patterson, Manager *D.H.P.*
Sanitary Engineering *B.R.H.*

FROM: Benjamin R. Hippensteel, P.E. *B.R.H.*
Supervisor, Plan Review
Sanitary Engineering

SUBJECT: Revised List of Approved Pipe

Attached is a revised list of acceptable pipe. Please note that ASTM-D 3033 has been removed since it is no longer manufactured. Also, note that the hole size and spacing for gravity absorption field laterals has been changed to 5/8-inch or 3/4-inch holes at 5-inch or closer spacing.

If you have any questions, please contact Mr. Edward Miller at the above address or (317) 383-6177.

Attachment

cc: Residential Sewage Disposal
Environmental Health

"...helping Hoosiers attain the highest level of health possible."

LIST OF ACCEPTABLE PIPE

Gravity Sewer (outside of building foundation)

- PVC ASTM-D 2665 for 4-inch and 6-inch pipe only.
ASTM-F 891 SDR 35 for 4-inch through 8-inch cellular core pipe
with minimum pipe stiffness of 50 (PS 50).
ASTM-D 3034 SDR 26 and 35 for 4-inch through 15-inch pipe.
- ABS ASTM-D 2661 4-inch and 6-inch pipe only.
ASTM-D 2680 8-inch through 15-inch pipe.
ASTM-D 2751 SDR 23.5 or SDR 35 for 6-inch pipe.

Waterworks grade ductile iron pipe with mechanical joints.

Gravity Sewer (special conditions 1 and 2)

1. Commercial Gravity sewers at distances of 30 to 100 feet from potable water wells. There shall be no buried sewers within 30 feet of wells and no septic tanks, grease traps, manholes, dosing tanks, lift stations, or absorption fields within 100 feet of wells. (Residential separation distances are different, see the Residential Rule 410 IAC 6-8.1.)
 - a. Buried sewers under buildings to a distance of 5 feet outside of building foundations (new construction only).
 - (1) Building sewer pipe listed in Table P-403.2 of the Indiana Plumbing Code as adopted by the Indiana Fire Prevention and Building Safety Commission (Solvent weld fittings are acceptable if freeze-thaw conditions are not a factor).
 - (2) PVC ASTM-D 3034 SDR 26 or ASTM-D 2241 SDR 13.5, 17, 21, or 26 with gasketed compression-type joints.
 - (3) Waterworks grade ductile iron pipe with mechanical joints.
 - b. Buried sewers outside of building foundations (Solvent weld fittings are not acceptable).
 - (1) PVC ASTM-D 3034 SDR 26 or ASTM-D 2241 SDR 13.5, 17, 21, or 26 with gasketed compression-type joints.
 - (2) Waterworks grade ductile iron pipe with mechanical joints.
2. Gravity sewers outside of building foundations but within 18 inches vertical distance or within 10 feet horizontal distance of potable water lines.
 - a. PVC ASTM-D 3034 SDR 26 or ASTM-D 2241 SDR 13.5, 17, 21, or 26 with gasketed compression-type joints.
 - b. Waterworks grade ductile iron pipe with mechanical joints.

(over)

Force Main and Pressure Distribution Laterals

Any PVC or ABS pipe listed for potable water or else PVC ASTM-D 1785 Schedule 40, 80, or 120. Force mains at distances from 30 to 100 feet of wells must be PVC ASTM-D 2241 SDR 13.5, 17, 21, or 26 with gasketed compression-type joints or waterworks grade ductile iron pipe with mechanical joints.

Gravity Absorption Field Laterals

1. Sewer pipe listed above or potable water pipe (at least 4-inches in diameter) listed below, as well as PVC pipe meeting ASTM D 2729 and smooth interior wall polyethylene pipe meeting ASTM F 810-85 or AASHTO M252-Type SP, are acceptable for gravity absorption field laterals.
2. The pipe must have perforations with one of the following provisions and must be oriented during installation with perforations at the 4 and 8 o'clock positions:
 - a. Three rows of holes with equal separation of rows at the 4, 8, and 12 o'clock positions around the circumference of the pipe with:
5/8-inch or 3/4-inch holes at 5-inch, or closer spacing.
 - b. Two rows of holes at the 4 and 8 o'clock positions around the circumference of the pipe with the above hole diameter and corresponding spacing along the pipe.
3. The pipe must be delivered in straight (uncoiled) lengths.

Potable Water

The pipe must have the NSF (National Sanitation Foundation) seal for potable water and be rated to withstand the applied pressure. Solvent weld fittings are not acceptable.

Diameters

Less than

1 1/2-inch: POLYETHYLENE tubing SDR 7 with 160 PSI pressure rating in 3/4-inch, 1-inch, and 1 1/4-inch diameters only.

1 1/2-inch

or greater: PVC ASTM-D 2241 SDR 13.5, 17, 21 or 26.
ABS ASTM-D 1527 Schedule 40, 80.
ASTM-D 2282 SDR 13.5, 17, 21, or 26.

Waterworks grade ductile iron pipe with mechanical joints. Type K copper tubing or galvanized pipe.

Note: Unless otherwise stated above, all potable water lines and building drains and vent piping for new construction that are buried below grade or installed above grade within the building foundations shall comply with Table P-402.4 for Water Distribution Pipe or Table P-403.1 for Above Ground Drainage and Vent Pipe and Table P-403.2 for Underground Building Drainage and Vent Pipe as listed in the Indiana Plumbing Code adopted by the Indiana Fire Prevention and Building Safety Commission.