



## Pre-approved Exterior Water and Sewer Piping

### 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 4-inch and 6-inch pipe only.

Waterworks grade ductile iron pipe with mechanical or tyton joints.

### Gravity Sewer (special conditions 1 and 2)

1. For commercial gravity sewers at distances of 50 to 100 feet from potable water wells. There shall be no buried sewers within 50 feet of potable water 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. Sewers under buildings to a distance of 5 feet outside of building foundations (new construction only).
    - (1) PVC ASTM-D 3034 SDR 26; ASTM-D 2241 SDR 13.5, 17, 21, or 26; or ABS ASTM-D 2751 SDR 23.5 with gasketed compression-type joints.
    - (2) Waterworks grade ductile iron pipe with mechanical or tyton joints.
  - b. Sewers outside of building foundations.
    - (1) PVC ASTM-D 3034 SDR 26; ASTM-D 2241 SDR 13.5, 17, 21, or 26; or ABS ASTM-D 2751 SDR 23.5 with gasketed compression-type joints.  
(Solvent weld fittings are not acceptable.)
    - (2) Waterworks grade ductile iron pipe with mechanical or tyton joints.
2. For 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; ASTM-D 2241 SDR 13.5, 17, 21, or 26; or ABS ASTM-D 2751 SDR 23.5 with gasketed compression-type joints.
  - b. Waterworks grade ductile iron pipe with mechanical or tyton 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 spacing along the pipe.
3. The pipe must be delivered in straight (uncoiled) lengths.

## Force Main and Pressure Distribution Laterals

Any PVC or ABS pipe listed for potable water or PVC ASTM-D 1785 Schedule 40, 80, or 120. Force mains at distances from 50 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 or tyton joints.

## 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 and 9 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 or tyton joints. Type K Copper tubing or galvanized pipe.

### Note:

Water risers that will be exposed above grade must be constructed of metal pipe. Type K copper tubing or galvanized iron pipe are acceptable.

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 but beyond the 100-foot radius from the potable well shall comply with Table 14-1 of the Uniform Plumbing Code as adopted by the Indiana Fire Prevention and Building Safety Commission.