

# INDIANA PLUMBING CODE



2003 EDITION  
675 IAC 16-1.3

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## ARTICLE 16. PLUMBING CODE

### Rule 1.3. Indiana Plumbing Code, 1999 Edition

#### 675 IAC 16-1.3-1 Title; availability

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 1. (a) This rule shall be known as the Indiana Plumbing Code, 1999 Edition, and shall be published, except for incorporated documents, by the fire and building services department, for general distribution and use under that title. Wherever the term "this code" is used within this rule, it shall mean the Indiana Plumbing Code, 1999 Edition.

(b) The Indiana Plumbing Code, 1999 Edition, is available for purchase from the Fire and Building Services Department, Indiana Government Center-South, 402 West Washington Street, Room W221, Indianapolis, Indiana 46204-2739. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-1; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3382*)

#### 675 IAC 16-1.3-2 Adoption by reference

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 2. That certain document, being titled as the Uniform Plumbing Code, 1997 Edition, published by the International Association of Plumbing and Mechanical Officials, 20001 Walnut Drive South, Walnut, California 91789-2825, be and the same is hereby adopted by reference, as if fully set out in this rule, save and except those amendments made in this rule. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-2; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3382*)

#### 675 IAC 16-1.3-3 Chapter 1; administration

Authority: IC 22-13-2-2

Affected: IC 4-21.5; IC 22-12-7; IC 22-13-2-7; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 3. Delete Chapter 1 and substitute to read as follows:

##### 101.0 Scope, intent

101.1 Scope. The provisions of this code shall apply to the construction, alteration, and addition to plumbing equipment and systems regulated by this code for Class 1 structures except townhouses. Compliance with this code for Class 2 structures or Class 1 townhouses is evidence of compliance with 675 IAC 14, the Indiana One and Two Family Dwelling Code.

Provisions in the appendices are not enforceable unless specifically adopted.

101.2 Intent. The purpose of this code is to provide minimum standards for safety and to safeguard property and public welfare by regulating and controlling the design, construction, installation, quality of material and location of plumbing equipment and systems.

102.0 Plans. Plans shall be submitted for Class 1 structures as required by the General Administrative Rules (675 IAC 12-6), and for Class 2 structures as required by local ordinance.

103.0 Existing construction. For existing construction, see the General Administrative Rules (675 IAC 12-4) and local ordinance.

104.0 Conflicts between codes. For conflicting requirements within the fire prevention and building safety commission's rules see the General Administrative Rules (675 IAC 12-4).

105.0 Additions and alterations. Additions or alterations to any plumbing system shall conform to that required for a new plumbing system without requiring the existing plumbing system to comply with all the requirements of this code. Additions or alterations shall not cause an existing system to become unsafe, insanitary, or overloaded.

Minor additions or alterations to existing plumbing systems shall be permitted in the same manner and arrangement as in the existing system, provided that such additions or alterations are not hazardous and are approved.

106.0 Department of plumbing inspections, permits, and inspections. The department of plumbing inspections and permitting is created and regulated by local ordinance.

107.0 Appeals. Appeals from orders issued by the fire prevention and building safety commission or the state building commissioner are governed by IC 4-21.5 and IC 22-12-7. Appeals from orders issued by a local unit of government are governed by IC 22-13-2-7 and local ordinance. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-3; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3383*)

675 IAC 16-1.3-4 Section 203.0; "A"

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 4. (a) Change the definition of Administrative Authority to read as follows: ADMINISTRATIVE AUTHORITY means the state building commissioner or officer of a local unit of government empowered by law to administer and enforce the rules of the fire prevention and building safety commission. For purposes of industrialized building systems (675 IAC 15), Administrative Authority means the state building commissioner.

(b) Change the definition of Approved to read as follows: APPROVED means, as to materials, equipment, products, and construction, acceptance by the administrative authority by one (1) of the following methods: investigation or tests conducted by recognized authorities; or investigation or tests conducted by technical or scientific organizations; or accepted principles. The investigation, tests, or principles shall establish that the materials, equipment, products, and construction are safe for their intended purposes.

(c) Change the definition of Approved Testing Agency to read as follows: APPROVED TESTING AGENCY means an established and recognized agency regularly engaged in conducting tests or furnishing inspection services, when such agency has been approved. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-4; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3383*)

675 IAC 16-1.3-5 Section 204.0; "B"

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 5. (a) Change the definition of Building to read as follows: BUILDING means any structure occupied or intended to support or shelter any occupancy.

(b) Add a definition of Building Code to read as follows: BUILDING CODE means the Indiana Building Code for Class 1 structures except for townhouses, or the Indiana One and Two Family Dwelling Code for Class 2 structures and Class 1 townhouses in effect at the time of the construction, addition, or alteration of the plumbing system. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-5; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3383*)

675 IAC 16-1.3-6 Section 205.0; "C"

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 6. (a) Delete the definition of Certified Backflow Assembly Tester, and Continuous Vent.

(b) Add the definition of Circuit Vent to read as follows: Circuit Vent-A vent that connects to a horizontal drainage branch and vents two (2) traps to a maximum of eight (8) traps or trapped fixtures connected into a battery.

(c) Delete the definition of Code.

(d) Delete the definition of Combustible Construction and substitute as follows: Combustible Construction-See the Building Code.

(e) Delete the definition of Confined Space.

(f) Delete the definition of Continuous Vent. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-6; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3384*)

675 IAC 16-1.3-7 Section 206.0; "D"

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 7. (a) Delete the definition of Department Having Jurisdiction and substitute as follows: See administrative authority.

(b) Change the definition of Domestic Sewage to read as follows: DOMESTIC SEWAGE means the liquid and water-borne wastes derived from the ordinary living processes, free from industrial wastes. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-7; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3384*)

675 IAC 16-1.3-8 Section 211.0; "I"

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 8. Delete, in section 211.0, in the first sentence of the definition of Insanitary, "or is injurious to health". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-8; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3384*)

675 IAC 16-1.3-9 Section 214.0; "L"

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 9. (a) Change the definition of Labeled to read as follows: LABELED means equipment or materials to which has been attached a label, symbol, or other identifying mark of an organization engaged in product evaluation, that maintains periodic inspection of production of labeled equipment or materials, and by whose labeling the manufacturer indicates compliance with appropriate standards or performance in a specified manner.

(b) Change the definition of Listed to read as follows: LISTED means equipment or materials included in a list published by an organization engaged in product evaluation, that maintains periodic inspection of production of listed equipment or materials, and whose listing states either that the equipment or material meets appropriate standards or has been tested and found suitable for use in a specified manner.

(c) Delete the definitions of Listing Agency and Lot.

(d) Add the definition of Local Vent Stack to read as follows: LOCAL VENT STACK. A vertical pipe to which connections are made from the fixture side of traps and through which vapor or foul air is removed from the fixture or device utilized on bed pan washers. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-9; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3384*)

675 IAC 16-1.3-10 Section 215.0; "M"

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 10. (a) Delete the definition of Mobile Home Park Sewer.

(b) Add the definition of Mechanical Code to read as follows: MECHANICAL CODE means the Indiana Mechanical Code for Class 1 structures, except townhouses and the mechanical chapters of the Indiana One and Two Family Dwelling Code for Class 2 structures and Class 1 townhouses in effect at the time of the construction, addition, or alteration of the plumbing system. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-10; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3384*)

675 IAC 16-1.3-11 Section 216.0; "N"

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 11. Delete the definition of Nuisance. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-11; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3384*)

675 IAC 16-1.3-12 Section 218.0; "P"

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 12. (a) Change the definition of Plumbing to read as follows: PLUMBING means the practice, materials, and

fixtures utilized in the construction, addition, or alteration of all piping, fixtures, plumbing appliances, plumbing appurtenances, and venting systems. Not included in this definition are installations of chilled water piping in connection with refrigeration, process, and comfort cooling; hot water piping in connection with building heating and piping for fire protection systems.

(b) Change the definition of Plumbing System to read as follows: **PLUMBING SYSTEM** includes the water supply and distribution pipes; plumbing fixtures and traps; water-using equipment; soil, waste, and vent pipes; sanitary sewers; storm sewers within or on the structure and building drains; in addition to their respective connections, devices, and appurtenances.

(c) Change the definition of Potable Water to read as follows: **POTABLE WATER** means water that at the point of use is acceptable for human consumption under drinking water quality standards adopted by the water pollution control board at 327 IAC 8.

(d) Delete the definition of Private Sewage Disposal System. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-12; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3384*)

675 IAC 16-1.3-13 Section 220.0; "R"

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 13. (a) Change the last sentence of the definition of Roughing-In to read as follows: This includes drainage, water supply, vent piping, and the necessary fixture supports.

(b) Change the definition of Relief Vent to read as follows: **RELIEF VENT**. A vent whose primary function is to provide circulation of air between drainage systems and vent systems. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-13; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3385*)

675 IAC 16-1.3-14 Section 221.0; "S"

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 14. (a) Delete the definitions of Seepage Pit, Septic Tank, and Single Family Dwelling.

(b) Delete the definition of Stack and substitute to read as follows: **STACK**. A general term for any vertical line of soil, waste, vent, or inside conductor piping that extends through at least one (1) story with or without offsets.

(c) Add the definition of Stack Venting to read as follows: **STACK VENTING**. A method of venting a fixture or fixtures through the soil or waste stack.

(d) Add the definition of Sterilizer Vent to read as follows: **STERILIZER VENT**. A separate pipe or stack, indirectly connected to the building drainage system at the lower terminal, that receives the vapors from nonpressure sterilizers, or the exhaust vapors from pressure sterilizers, and conducts the vapors directly to the open air. Also called vapor, steam, atmospheric, or exhaust vent.

(e) Add the definition of Sump Vent to read as follows: **SUMP VENT**. A vent from pneumatic sewage ejectors, or similar equipment, that terminates separately to the open air. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-14; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3385*)

675 IAC 16-1.3-15 Section 222.0; "T"

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 15. Add the definition of Townhouse to read as follows: **TOWNHOUSE** is a single family dwelling constructed in a row of attached units separated by property lines and with open space on at least two (2) sides. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-15; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3385*)

675 IAC 16-1.3-16 Section 223.0; "U"

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 16. Delete the definition of Unconfined Space. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-16; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3385*)

675 IAC 16-1.3-17 Section 225.0; "W"

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 17. Delete the definition of Welder, Pipe. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-17; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3385*)

675 IAC 16-1.3-18 Section 301.1; approvals

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 18. Change section 301.1.1 to read as follows: Unless otherwise provided for in this code, all materials, fixtures, or devices used or entering into the construction of plumbing and drainage systems, or parts thereof, shall be submitted to the administrative authority for approval, and shall be free from defects. All pipes, pipe fittings, traps, fixtures, material, and devices used in a plumbing system shall be listed or labeled or shall be approved by the administrative authority when listing or labeling is not available. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-18; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3385*)

675 IAC 16-1.3-19 Section 301.1.2; marking

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 19. Change section 301.1.2 to read as follows: Each length of pipe and each pipe fitting, trap, fixture, material, and device used in a plumbing system shall have cast, stamped, or indelibly marked on it, the maker's mark or name, the weight and the quality of the product, when such marking is required by the approved standard that applies. All such marking shall be done by the manufacturer. Field marking shall not be acceptable. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-19; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3385*)

675 IAC 16-1.3-20 Section 301.1.3; standards

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 20. Change section 301.1.3 to read as follows: Standards listed or referred to in this chapter cover materials which will conform to the requirements of this code, when used in accordance with the limitations imposed in this or other chapters thereof and their listing. Where a standard covers materials of various grades, weights, quality, or configurations, there may be only a portion of the listed standard which is applicable. A list of generally accepted plumbing materials standards is included in TABLE 14-1. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-20; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3386*)

675 IAC 16-1.3-21 Sections 301.1.4, 301.2; existing buildings and alternate materials and methods

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 21. Delete the title and text of sections 301.1.4 and 301.2 and substitute as follows:

301.2 Alternate materials, methods, equipment, alternative engineered design, and existing buildings.

301.2.1 Alternate materials, methods, and equipment. Modifications, alternative materials, methods, and equipment are regulated by the General Administrative Rules, 675 IAC 12-6-11, for Class 1 structures, except townhouses, and the Indiana One and Two Family Dwelling Code (675 IAC 14) for Class 2 structures and townhouses.

301.2.2 Alternative engineered design. Alternative engineered design shall comply with sections 301.2.3 and 301.2.4.

301.2.3 Design criteria. An alternative engineered design shall provide an equivalent level of quality, strength, effectiveness, fire resistance, durability, and safety and be approved by the administrative authority. Material, equipment, or components shall be designed and installed in accordance with the manufacturer's installation instructions.

301.2.4 Technical data. Technical data shall be submitted to the administrative authority to substantiate the proposed alternative engineered design and to prove that the performance meets the intent of this code.

301.2.5 Materials. Materials, equipment, and devices shall not be reused unless such elements have been reconditioned, tested, and placed in good and proper working condition and approved.

301.2.6 Existing buildings and maintenance. For existing buildings and maintenance, see the General Administrative Rules (675 IAC 12-4). (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-21; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3386*)

675 IAC 16-1.3-22 Section 303.0; disposal of liquid waste

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 22. (a) Delete, in section 303.0, "an approved" and substitute "a".

(b) Delete, in section 303.0, "and maintained". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-22; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3386*)

675 IAC 16-1.3-23 Section 305.0; sewers required

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 23. Delete section 305.0 and substitute to read as follows: Every building in which plumbing fixtures are installed shall have a connection to a public or private sewer as required by local ordinance. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-23; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3386*)

675 IAC 16-1.3-24 Section 306.0; damage to drainage system or public sewer

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 24. Delete section 306.0. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-24; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3386*)

675 IAC 16-1.3-25 Sections 307.0 and 308.0; industrial wastes, location

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 25. Delete sections 307.0 and 308.0. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-25; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3386*)

675 IAC 16-1.3-26 Section 310.1; workmanship

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 26. Delete section 310.1. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-26; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3386*)

675 IAC 16-1.3-27 Section 311.4; prohibited fittings and practices

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 27. Delete section 311.4. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-27; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3387*)

675 IAC 16-1.3-28 Section 312.0; independent systems

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 28. Change section 312.0 to read as follows: The drainage system of each new building and of new work installed in any existing building shall be separate and independent from that of any other building. *(Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-28; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3387)*

675 IAC 16-1.3-29 Section 313.3; protection of piping, materials, and structures

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 29. Delete, in section 313.3, "permission be otherwise granted" and substitute "approved". *(Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-29; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3387)*

675 IAC 16-1.3-30 Section 313.6; protection of piping, materials, and structures

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 30. Change section 313.6 to read as follows: No water, soil, or waste pipe shall be installed or permitted outside of a building or in an exterior wall unless provision is made to protect such pipe from freezing. *(Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-30; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3387)*

675 IAC 16-1.3-31 Section 313.10.5; sleeves

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 31. Change section 313.10.5 to read as follows: Any pipe or pipe sleeve that penetrates fire-resistive construction shall have the space around the pipe completely sealed in accordance with the building code. *(Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-31; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3387)*

675 IAC 16-1.3-32 Section 313.11; sleeves

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 32. Delete, in section 313.11, "or as required by the proper administrative authority". *(Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-32; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3387)*

675 IAC 16-1.3-33 Section 313.12.2; ratproofing

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 33. Delete section 313.12.2. *(Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-33; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3387)*

675 IAC 16-1.3-34 Section 313.12.3; ratproofing

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 34. Delete, in section 313.12.3, "by the installation of approved metal collars securely fastened to the adjoining structure". *(Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-34; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3387)*

675 IAC 16-1.3-35 Section 314.3; hangers and supports

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 35. Delete, in the last sentence of section 314.3, "acceptable to" and substitute "approved by". *(Fire Prevention and*

*Building Safety Commission; 675 IAC 16-1.3-35; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3387)*

675 IAC 16-1.3-36 Section 314.5; hangers and supports

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 36. Change section 314.5 to read as follows: All fixtures, appliances, and appurtenances shall be supported so as to maintain their function. *(Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-36; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3387)*

675 IAC 16-1.3-37 Section 314.7; hangers and supports

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 37. Delete the first sentence of section 314.7. *(Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-37; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3387)*

675 IAC 16-1.3-38 Section 315.1; trenching, excavation, and backfill

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 38. Delete, in section 315.1, "permission is otherwise granted" and substitute "approved". *(Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-38; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3387)*

675 IAC 16-1.3-39 Section 315.3; open trenches

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 39. Delete section 315.3. *(Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-39; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3387)*

675 IAC 16-1.3-40 Section 315.4; trenching, excavation, and backfill

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 40. Delete the first, fifth, and sixth sentences of section 315.4. *(Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-40; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3388)*

675 IAC 16-1.3-41 Table 3-2

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 41. Delete TABLE 3-2 and substitute as follows:

Materials	Types of Joints	TABLE 3-2	
		Horizontal	Vertical
Cast Iron Hub and Spigot	Lead and Oakum	5 feet (1,524 mm), except may be 10 feet (3,048 mm) where 10 foot (3,048 mm) lengths are installed <sup>1,2,3</sup>	Base and each floor not to exceed 15 feet (4,572 mm)
	Compression Gasket	Every other joint, unless over 4 feet (1,219 mm), then support each joint <sup>1,2,3</sup>	Base and each floor not to exceed 15 feet (4,572 mm)
Cast Iron Hubless	Shielded Coupling	Every other joint, unless over 4 feet (1,249 mm), then support each joint <sup>1,2,3</sup>	Base and each floor not to exceed 15 feet (4,572 mm)
Copper Tube and Pipe	Soldered, Brazed, or Welded	1½ inch (38 mm) and smaller, 6 feet (1,829 mm); 2 inch (51 mm) and larger, 10 feet	Each floor, not to exceed 10 feet (3,048 mm) <sup>5</sup>

Steel and Brass Pipe for Water or DWV	Threaded or Welded	(3,048 mm) ¾ inch (19 mm) and smaller, 10 feet (3,048 mm); 1 inch (25.4 mm) and larger, 12 feet (3,658 mm)	Every other floor, not to exceed 25 feet (7,620 mm) <sup>5</sup>
Steel, Brass	Threaded or Welded	½ inch (12.7 mm), 6 feet (1,829 mm); ¾ inch (19.1 mm) and 1 inch (25.4 mm), 8 feet (2,438 mm); 1¼ inch (32 mm) and larger, 10 feet (3,048 mm)	½ inch (12.7 mm), 6 feet (1,829 mm); ¾ (19 mm) and 1 inch (25.4 mm), 8 feet (2,438 mm); 1¼ inch (32 mm) and larger, every floor level
Schedule 40 PVC and ABS DWV	Solvent Cemented	All sizes, 4 feet (1,219 mm). Allow for expansion every 30 feet (9,144 mm) <sup>3,6</sup>	Base and each floor. Provide mid-story guides. Provide for expansion every 30 feet (9,144 mm) <sup>6,8</sup>
CPVC	Solvent Cemented	1 inch (25.4 mm) and smaller, 3 feet (914 mm); 1¼ inch (32 mm) and larger, 4 feet (1,219 mm)	Base and each floor. Provide mid-story guides <sup>6,7</sup>
Lead	Wiped or Burned	Continuous support	Not to exceed 4 feet [ <i>sic.</i> , feet] (1,219 mm)
Copper	Mechanical	As approved by the administrative authority	As approved by the administrative authority
Steel and Brass	Mechanical	As approved by the administrative authority	As approved by the administrative authority
PEX	Mechanical	1 inch (25.4 mm) and smaller, 3 feet (914 mm); 1¼ inch (32 mm) and larger, 4 feet (1,219 mm)	Base and each floor. Provide mid-story guides

*(Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-41; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3388)*

675 IAC 16-1.3-42 Section 316.1.6; brazing and welding

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 42. Change section 316.1.6 to read as follows: Brazing and welding shall conform to the applicable standard(s) in TABLE 14-1. *(Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-42; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3388)*

675 IAC 16-1.3-43 Section 316.2.2; unions

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 43. Delete, in section 316.2.2, "and in gas piping as permitted by section 1211.10". *(Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-43; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3388)*

675 IAC 16-1.3-44 Section 316.3.2; flanged fixture connections

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 44. Delete section 316.3.2. *(Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-44; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3388)*

675 IAC 16-1.3-45 Section 318.0; food handling establishments

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 45. (a) Change the first paragraph of section 318.0 up to the colon to read as follows: "Where building design requires that soil or drain pipes be located over areas that will be used for food and drink storage, preparation, or display, the areas shall be protected against leakage or condensation from such pipes reaching the food or drink areas. The installation shall be made with the least possible number of joints and shall be installed so as to connect to a vertical stack at the nearest wall or vertical building support with the provisions as follows:"

(b) Delete the second sentence in section 318.4.

(c) Change the third sentence of section 318.4 to read as follows: Overhead cleanouts shall be extended through the floor construction above. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-45; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3389*)

675 IAC 16-1.3-46 Section 401.1; quality of fixtures

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 46. Change section 401.1 to read as follows: Plumbing fixtures shall be constructed of dense, durable, nonabsorbent materials and shall have smooth, impervious surfaces, free from unnecessary concealed fouling surfaces. Except as permitted elsewhere in this code, all fixtures shall conform in quality and design to approved standards. A list of generally accepted plumbing fixture standards is included in TABLE 14-1. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-46; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3389*)

675 IAC 16-1.3-47 Section 402.6; metered faucets

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 47. Change, in section 402.6, "twenty-five hundredths (0.25) gallons (one (1.0) liter)" to "five-tenths (0.5) gallons (two (2.0) liters)". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-47; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3389*)

675 IAC 16-1.3-48 Section 403.1; zinc alloy components

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 48. Change section 403.1 to read as follows: Zinc alloy components shall be used in accordance with their listing. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-48; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3389*)

675 IAC 16-1.3-49 Section 406.3; prohibited fixtures

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 49. Delete, in the last sentence of section 406.3, ", unless first approved by the Health Officer". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-49; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3389*)

675 IAC 16-1.3-50 Sections 408.6 and 408.7; setting and installation for the handicapped

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 50. Delete sections 408.6 and 408.7 and substitute to read as follows: See the Building Code. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-50; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3389*)

675 IAC 16-1.3-51 Section 409.1; water closets

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 51. Change section 409.1 to read as follows: Water closet bowls for public use shall be of the elongated type. All water closets shall be equipped with seats as required in section 409.2. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-51; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3389*)

675 IAC 16-1.3-52 Section 411.4; water supply for flush tanks

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 52. Delete, in the last sentence of section 411.4, "suitable". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-52; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3389*)

675 IAC 16-1.3-53 Section 412.2.1; location of floor drains

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 53. Delete the last sentence of section 412.2.1. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-53; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3389*)

675 IAC 16-1.3-54 Section 412.4; floor slope

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 54. Delete, in section 412.4, " or as otherwise required by the administrative authority". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-54; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3389*)

675 IAC 16-1.3-55 Section 412.5; floor drains and shower stalls

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 55. Change section 412.5 to read as follows: Shower receptors are plumbing fixtures and shall conform to the general requirements therefor contained in section 401.0. Each such shower receptor shall be constructed of vitrified china or earthenware, ceramic tile, porcelain enameled metal, or other approved materials. No shower receptor shall be installed unless it conforms to acceptable standards as referenced in Chapter 3 and listed in TABLE 14-1 or approved by the administrative authority. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-55; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3389*)

675 IAC 16-1.3-56 Section 412.6; floor drains and shower stalls

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 56. Change the exception to section 412.6 to read as follows: Exception: Showers which are designed to comply with the accessibility requirements stated in the building code. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-56; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3390*)

675 IAC 16-1.3-57 Section 412.7; floor drains and shower stalls

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 57. (a) Delete the last sentence before the exception to the first paragraph of section 412.7.

(b) Change the exception to section 412.7 to read as follows: Showers which are designed to comply with the accessibility requirements stated in the building code. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-57; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3390*)

675 IAC 16-1.3-58 Section 412.8; floor drains and shower stalls

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 58. (a) Delete, in the first sentence of section 412.8, "permitted" and substitute "approved".

(b) Delete, in the last paragraph of section 412.8, "acceptable to the administrative authority". (*Fire Prevention and*

*Building Safety Commission; 675 IAC 16-1.3-58; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3390)*

675 IAC 16-1.3-59 Section 413.0; minimum number of required fixtures

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 59. Delete sections 413.0 through 413.7 and substitute to read as follows: See the building code for the minimum number of required fixtures. *(Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-59; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3390)*

675 IAC 16-1.3-60 Section 414.0; fixtures for the handicapped

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 60. Delete section 414.0 and substitute to read as follows: See the building code. *(Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-60; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3390)*

675 IAC 16-1.3-61 Table 4-1; minimum plumbing facilities

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 61. Delete TABLE 4-1. *(Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-61; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3390)*

675 IAC 16-1.3-62 Chapter 5; water heaters

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 62. Delete the text of Chapter 5 and substitute to read as follows:

501.0 Definitions

DIELECTRIC INSULATOR means a device used as a nonconductor.

WATER HEATER means any heating appliance or equipment that heats potable water and supplies such water to the potable hot water distribution system. Potable water heaters have a nominal capacity of one hundred twenty (120) gallons (four hundred fifty-four (454) liters) or less, have a heat input of two hundred thousand (200,000) British thermal units per hour (fifty-eight and six-tenths (58.6) kilowatt) or less, and operate at a water pressure of one hundred sixty (160) pounds per square inch (one thousand one hundred three (1,103) kilo Pascals) or less at water temperatures not exceeding two hundred ten (210) degrees Fahrenheit (ninety-nine (99) degrees Celsius).

502.0 Protection Device

502.1 Gas storage-type water heaters and hot water boilers shall be provided with, in addition to the primary temperature controls, an over-temperature safety protection device. Devices shall be a combination temperature and pressure relief valve.

502.2 All storage-type water heaters and hot water boilers deriving heat from fuels or types of energy other than gas, shall be provided with, in addition to the primary temperature controls, an over-temperature safety protection device and a combination temperature and pressure relief valve.

503.0 Prohibited locations. Fuel-fired water heaters shall not be located in, or obtain combustion air from, any of the following rooms or spaces:

1. Sleeping rooms.
2. Bathrooms.
3. Toilet rooms.
4. Storage closets.
5. Surgical rooms.

Exceptions: 1. Direct-vent water heaters that obtain all combustion air directly from the outdoors.

2. Water heaters installed in an enclosure in which all combustion air is taken from the outdoors and the enclosure is equipped with a solid weather-stripped door and self-closing device.

504.0 Elevation of ignition source. Water heaters having an ignition source shall be elevated such that the source of ignition is not less than eighteen (18) inches (four hundred fifty-seven (457) millimeters) above the floor in hazardous locations and public garages, private garages, repair garages, automotive service stations, and parking garages. Such equipment shall not be installed in Group H occupancies or control areas, as defined by the building code, where open-use, handling or dispensing of combustibles, flammable or explosive materials occurs.

505.0 Protection

505.1 All water heaters installed in areas where they may be subject to mechanical damage shall be guarded against such damage by being installed behind barriers or by being elevated or located out of the normal path of a vehicle using any such garage as required by the mechanical code.

505.2 A water heater supported from the ground shall rest on level concrete or other approved base extending not less than three (3) inches (seventy-six (76) millimeters) above the adjoining ground level.

505.3 When a water heater is located in an attic or furred space where damage may result from a leaking water heater, a watertight pan of corrosion resistant materials shall be installed beneath the water heater with a minimum three-fourths ( $\frac{3}{4}$ ) inch (nineteen and one-tenth (19.1) millimeters) diameter drain to an approved location.

506.0 Other requirements. Water heaters shall be installed as required by the mechanical code. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-62; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3390*)

675 IAC 16-1.3-63 Section 601.1; running water required

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 63. Change section 601.1 to read as follows: Each plumbing fixture shall be provided with a supply of potable running water piped thereto in an approved manner, so arranged as to flush and keep it in a clean and sanitary condition without danger of backflow or cross-connection. Water closets and urinals shall be flushed by means of an approved flush tank or flushometer valve. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-63; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3391*)

675 IAC 16-1.3-64 Section 602.1; unlawful connections

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 64. Change section 602.1 to read as follows: No installation of potable water supply piping or part thereof shall be made in such a manner that it will be possible for water or substances that do not comply with the requirements for potable water to enter any portion of such piping from any tank, receptacle, equipment, or plumbing fixture by reason of back-siphoning, by suction, or any other cause, either during normal use and operation thereof or when any such tank, receptacle, equipment, or plumbing fixture is flooded or subject to pressure in excess of the operating pressure in the hot or cold water piping. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-64; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3391*)

675 IAC 16-1.3-65 Section 602.4; unlawful connections

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 65. Delete section 602.4 and substitute to read as follows: No water supplied by any private water supply system shall be connected to any other source of supply. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-65; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3391*)

675 IAC 16-1.3-66 Section 603.0; cross-connection control

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 66. Change section 603.0 to read as follows: Cross-connection control shall be provided in accordance with the provisions of this chapter and TABLE 6-2.

No person shall install any water operated equipment or mechanism, or use any water treating chemical, or substance, if

it is found that such equipment, mechanism, chemical, or substance may cause the potable water system not to comply with the requirements to be considered potable water. Such equipment or mechanism may be permitted only when equipped with an approved backflow prevention device or assembly. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-66; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3391*)

675 IAC 16-1.3-67 Table 6-2; backflow preventive devices, assemblies, and methods

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 67. Add to TABLE 6-2 an "X" in the two (2) Backpressure columns for Airgap. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-67; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3392*)

675 IAC 16-1.3-68 Section 603.1; approval of devices or assemblies

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 68. Delete section 603.1 and substitute to read as follows: Before any device or assembly is installed for the prevention of backflow, it shall have first been approved by the administrative authority. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-68; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3392*)

675 IAC 16-1.3-69 Section 603.3.1; general requirements

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 69. Change section 603.3.1 to read as follows: All backflow prevention assemblies shall conform to the applicable standards listed in TABLE 14-1. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-69; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3392*)

675 IAC 16-1.3-70 Section 603.3.2; general requirements

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 70. Change section 603.3.2 to read as follows: The owner of the structure shall have the backflow prevention assembly tested at the time of installation. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-70; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3392*)

675 IAC 16-1.3-71 Section 603.3.3; general requirements

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 71. Change section 603.3.3 to read as follows: Access and clearance shall be provided for the required testing. Access and clearance shall require a minimum of one (1) foot (three hundred five (305) millimeters) between the lowest portion of the assembly and grade, floor, or platform. Installations elevated more than five (5) feet (one thousand five hundred twenty-four (1,524) millimeters) above the floor or grade shall be provided with a permanent platform complying with the structural requirements and fire resistive requirements of the building code. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-71; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3392*)

675 IAC 16-1.3-72 Section 603.3.7; general requirements

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 72. Change section 603.3.7 to read as follows: Backflow assemblies and devices shall be protected from freezing and approved by the administrative authority. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-72; filed Jun*

30, 1999, 2:53 p.m.: 22 IR 3392)

675 IAC 16-1.3-73 Section 603.4.2; water closet and urinal tanks

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 73. Change, in the last sentence of section 603.4.2, "equivalent" to "approved". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-73; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3392*)

675 IAC 16-1.3-74 Section 603.4.4.1; heat exchangers

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 74. Change section 603.4.4.1 to read as follows: The potable water system shall be protected from the heat transfer medium used in heat exchangers when required by section 603.0. Double-wall heat exchangers shall separate the potable water from the heat transfer medium by providing a space between the two (2) walls which is vented to the atmosphere. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-74; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3392*)

675 IAC 16-1.3-75 Section 603.4.4.2; heat exchangers

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 75. Change section 603.4.4.2 to read as follows: For alternate design, see the General Administrative Rules (675 IAC 12-6-11). (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-75; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3392*)

675 IAC 16-1.3-76 Section 603.4.5; inlets to tanks, vats, sumps, and swimming pools

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 76. Change the third sentence of section 603.4.5 to read as follows: Where atmospheric vacuum breakers or airgaps are not installed, other approved backflow preventers may be installed in accordance with the requirements for that type of device or assembly as set forth in this chapter. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-76; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3392*)

675 IAC 16-1.3-77 Sections 603.4.6.2 and 603.4.6.4; protection from lawn sprinklers and irrigation systems

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 77. Add item "2" to the end of sections 603.4.6.2 and 603.4.6.4 to read as follows: 2. Airgap. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-77; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3393*)

675 IAC 16-1.3-78 Section 603.4.7; potable water outlets with hose attachments

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 78. Change the last sentence of section 603.4.7 to read as follows: A listed self-draining frost-proof hose bibb with an integral backflow preventer shall be used. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-78; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3393*)

675 IAC 16-1.3-79 Section 603.4.9; water cooled compressors, degreasers

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 79. Delete the Note to section 603.4.9. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-79; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3393*)

675 IAC 16-1.3-80 Section 603.4.12; nonpotable water piping

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 80. Change section 603.4.12 to read as follows: No drinking or domestic water outlets shall be connected to the nonpotable water line. Whenever possible, all portions of the nonpotable water line shall be exposed and all exposed portions shall be identified as approved by the administrative authority. Each outlet on the nonpotable water line, which may be used for drinking or domestic purposes, shall be posted "CAUTION: NONPOTABLE WATER, DO NOT DRINK". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-80; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3393*)

675 IAC 16-1.3-81 Section 603.4.13; potable water supply to carbonators

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 81. Add a sentence to the end of section 603.4.13 to read as follows: Copper shall not be used downstream from the backflow preventer or backflow device. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-81; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3393*)

675 IAC 16-1.3-82 Section 603.4.14; water treatment units

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 82. Delete the first sentence of section 603.4.14. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-82; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3393*)

675 IAC 16-1.3-83 Section 603.4.18.1; protection from fire systems

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 83. Delete items 3 and 4 in section 603.4.18.1. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-83; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3393*)

675 IAC 16-1.3-84 Sections 603.4.18.2 and 603.4.18.3; protection from fire systems

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 84. Delete items 1 and 2 in sections 603.4.18.2 and 603.4.18.3 and substitute as follows:

1. Double check valve assembly.

2. Double check detector assembly.

(*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-84; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3393*)

675 IAC 16-1.3-85 Section 603.4.20; portable cleaning equipment, dental vacuum pumps

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 85. Change the title and text of section 603.4.20 to read as follows: Portable cleaning equipment, dental vacuum pumps, and chemical dispensers. Portable cleaning equipment, dental vacuum pumps, and chemical dispensers shall be protected from backflow by an airgap, an atmospheric vacuum breaker, a spill-proof vacuum breaker, or a reduced pressure principle backflow preventer, or pressure vacuum breaker. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-85; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3393*)

675 IAC 16-1.3-86 Section 604.1; materials

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 86. (a) Change the first sentence of section 604.1 to read as follows: Water pipe and fittings shall be of brass, copper, cast iron, galvanized malleable iron, galvanized wrought iron, galvanized steel, PEX, PB, or other approved materials.

(b) Change the third sentence of section 604.1 by deleting "recognized standards" and substitute to read as follows: the appropriate standards referenced in TABLE 14-1. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-86; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3393*)

675 IAC 16-1.3-87 Section 604.2; materials

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 87. Delete, in the exception to section 604.2, "or underground outside of structures". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-87; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3394*)

675 IAC 16-1.3-88 Section 606.1.2; mechanical joints

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 88. Change section 606.1.2 to read as follows: Mechanical joints for cast iron water pipes shall conform to the appropriate standards in TABLE 14-1. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-88; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3394*)

675 IAC 16-1.3-89 Section 606.1.3; mechanically formed tee fittings

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 89. Change, in the last paragraph of section 606.1.3, "brazed" to "brazed". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-89; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3394*)

675 IAC 16-1.3-90 Section 608.2; excessive water pressure

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 90. Delete, in the first sentence of section 608.2, "an adequate" and substitute "a". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-90; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3394*)

675 IAC 16-1.3-91 Section 608.3; excessive water pressure

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 91. (a) Delete, in the first paragraph of section 608.3, "adequately sized".

(b) Delete, in the second paragraph in section 608.3, "adequately sized" and substitute to read as follows: and as required by TABLE 14-1. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-91; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3394*)

675 IAC 16-1.3-92 Section 609.1; installation

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 92. (a) Change the first sentence of section 609.1 to read as follows: All water piping shall be supported.

(b) Change the fifth sentence of section 609.1 to read as follows: All piping, equipment, appurtenances, and devices shall be installed in conformity with the provisions and intent of this code. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-92; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3394*)

675 IAC 16-1.3-93 Section 609.3.1; installation

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 93. Change the first sentence of section 609.3.1 to read as follows: Ferrous piping shall have a protective coating of an approved type and machine applied. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-93; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3394*)

675 IAC 16-1.3-94 Sections 609.6, 609.7, 609.7.1, and 609.7.2; location

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 94. Delete sections 609.6, 609.7, 609.7.1, and 609.7.2. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-94; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3394*)

675 IAC 16-1.3-95 Section 609.8; low pressure cutoff required on booster pumps for water distribution systems

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 95. Change the second sentence of section 609.8 to read as follows: The cutoff switch shall be set for not less than twenty (20) pounds per square inch. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-95; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3394*)

675 IAC 16-1.3-96 Section 609.9; disinfection of potable water system

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 96. Delete sections 609.9 through 609.9.4. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-96; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3394*)

675 IAC 16-1.3-97 Section 609.10.1; air chambers

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 97. Delete section 609.10.1. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-97; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3394*)

675 IAC 16-1.3-98 Section 610.2; size of potable water piping

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 98. (a) Change the first paragraph of section 610.2 by deleting "adequately".

(b) Change the second paragraph of section 610.2 by deleting "water filter, water softener,".

(c) Delete the third paragraph of section 610.2. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-98; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3395*)

675 IAC 16-1.3-99 Section 610.5; size of potable water piping

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 99. Delete section 610.5. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-99; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3395*)

675 IAC 16-1.3-100 Section 610.6; size of potable water piping

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 100. Change section 610.6 to read as follows: Pressure losses through water treating equipment, backflow prevention devices, or other flow restricting devices shall be computed as required by section 610.2. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-100; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3395*)

675 IAC 16-1.3-101 Section 610.14; exceptions

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 101. Change section 610.14 to read as follows: The provisions of this section relative to size of water piping need not apply to the following:

1. Water supply piping systems designed in accordance with recognized engineering procedures as approved by the administrative authority.
2. Alteration of, or minor additions to, existing installations, approved by the administrative authority.
3. Replacement of existing fixtures or appliances.
4. Piping which is part of fixture equipment.
5. Unusual conditions where approved by the administrative authority.
6. Nonpotable water lines as defined in section 603.4.12.

(*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-101; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3395*)

675 IAC 16-1.3-102 Section 611.0; water treatment units

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 102. Delete the first sentence of section 611.0. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-102; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3395*)

675 IAC 16-1.3-103 Sections 701.1.2 and 701.2.2; materials

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 103. Delete sections 701.1.2 and 701.2.2. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-103; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3395*)

675 IAC 16-1.3-104 Section 701.1.4; materials

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 104. Delete, in section 701.1.4, "DWV" and substitute "L". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-104; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3395*)

675 IAC 16-1.3-105 Section 701.2.3; materials

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 105. Change, in section 701.2.3, "one-fourth (1/4) inch (20.9 mm/m)" to read "one-eighth (1/8) inch (10.45 mm/m)". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-105; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3395*)

675 IAC 16-1.3-106 Table 7-3; drainage fixture unit values

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 106. Change TABLE 7-3 to read as follows: (a) Delete, in the Minimum Size Trap and Trap Arm column in TABLE 7-3, the first five (5) "2" superscript, one (1) for bar sink and four (4) "2" superscript for kitchen sink, domestic.

(b) Change the Clothes Washer, domestic 2" Standpipe<sup>5</sup> to read Clothes Washer, domestic 1½" Standpipe<sup>5</sup>, and change the minimum size trap and trap arm to 1½" from 2".

(c) In the Individual Fixtures column, add after Mop Basin, 3" trap;" Mop Basin 2" Trap," with 2" added in the minimum size trap and trap arm column.

(d) Change "Shower Stall, 2" trap" to read "Shower Stall Commercial, 2" trap".

(e) In the Individual Fixtures column, add, after "Shower Stall Commercial, 2" Trap", add the following: "Shower Stall Residential, 1½" trap" and add 1½" to the minimum size trap and trap arm column.

(f) Change Whirlpool Bath or Combination Bath/Shower to read "Whirlpool Bath or Combination Bath/Shower commercial".

(g) In the Individual Fixtures column, add, after "Whirlpool Bath or Combination Bath/Shower commercial", "Whirlpool Bath or Combination Bath/Shower residential" and add 1½" to the minimum size trap and trap arm column.

(h) Delete, in TABLE 7-3, the Heavy-Use Assembly column under the Public heading. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-106; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3395*)

675 IAC 16-1.3-107 Section 703.3; size of drainage piping

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 107. Change section 703.3 to read as follows: For alternative methods see the General Administrative Rules (675 IAC 12-6-11). (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-107; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3396*)

675 IAC 16-1.3-108 Table 7-4; discharge capacity in gallons per minute

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 108. Delete, in TABLE 7-4, "the administrative authority" and substitute "local ordinance". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-108; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3396*)

675 IAC 16-1.3-109 Section 704.4.4; closet rings (closet flanges)

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 109. Delete, in section 704.4.4, "adequately". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-109; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3396*)

675 IAC 16-1.3-110 Section 704.4.5; closet rings (closet flanges)

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 110. Delete, in section 704.4.5, "adequate" and "properly". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-110; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3396*)

675 IAC 16-1.3-111 Table 7-5; maximum unit loading and maximum length of drainage and vent piping

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 111. Delete TABLE 7-5 and substitute to read as follows:

TABLE 7-5

MAXIMUM UNIT LOADING OF DRAINAGE PIPING <sup>6</sup>											
SIZE OF PIPE, INCHES (mm)	1¼ (32)	1½ (38)	2 (51)	2½ (64)	3 (76)	4 (102)	5 (127)	6 (152)	8 (203)	10 (254)	12 (305)
Maximum Units Drainage Piping <sup>1</sup>											
Vertical	1	2 <sup>2</sup>	16 <sup>3</sup>	32 <sup>3</sup>	48 <sup>4</sup>	256	600	1,380	3,600	5,600	8,400
Horizontal	1	1	8 <sup>3</sup>	14 <sup>3</sup>	35 <sup>4</sup>	216 <sup>5</sup>	428 <sup>5</sup>	720 <sup>5</sup>	2,640 <sup>5</sup>	4,680 <sup>5</sup>	8,200 <sup>5</sup>
Maximum Length Drainage Piping											
Vertical, feet (m)	45 (14)	65 (20)	85 (26)	148 (45)	212 (45)	300 (91)	390 (119)	510 (155)	750 (228)	----	----
Horizontal (Unlimited)											

VENT PIPING

DIAMETER OF SOIL OR WASTE STACK (inches)	TOTAL FIXTURE UNITS BEING VENTED (dfu)	MAXIMUM DEVELOPED LENGTH OF VENT (feet) <sup>6</sup>										
		DIAMETER OF VENT (inches) <sup>6</sup>										
		1¼	1½	2	2½	3	4	5	6	8	10	12
1¼	2	30										
1½	8	50	150									
1½	10	30	100									
2	12	30	75	200								
2	20	26	50	150								
2½	42		30	100	300							
3	10		42	150	360	1,040						
3	21		32	110	270	810						
3	53		27	94	230	680						
3	102		25	86	210	620						
4	43			35	85	250	980					
4	140			27	65	200	750					
4	320			23	55	170	640					
4	540			21	50	150	580					
5	190				28	82	320	990				
5	490				21	63	250	760				
5	940				18	53	210	670				
5	1,400				16	49	190	590				
6	500					33	130	400	1,000			
6	1,100					26	100	310	780			
6	2,000					22	84	260	660			
6	2,900					20	77	240	600			
8	1,800						31	95	240	940		
8	3,400						24	73	190	720		
8	5,600						20	62	160	610		
8	7,600						18	56	140	560		
10	4,000							31	78	310	960	
10	7,200							24	60	240	740	

10	11,000	20	51	200	630	
10	15,000	18	46	180	570	
12	7,300		31	120	380	940
12	13,000		24	94	300	720
12	20,000		20	79	250	610
12	26,000		18	72	230	500
15	15,000			40	130	310
15	25,000			31	96	240
15	38,000			26	81	200
15	50,000			24	74	180

<sup>1</sup>Excluding trap arm.

<sup>2</sup>Except urinals.

<sup>3</sup>Except six-unit traps or water closets.

<sup>4</sup>Only four (4) five-unit traps allowed on any vertical pipe or stack; and not to exceed three (3) five-unit traps on any horizontal branch or drain.

<sup>5</sup>Based on one-fourth (1/4) inch per foot (twenty and nine-tenths (20.9) mm/m) slope. For one-eighth (1/8) inch per foot (ten and four-tenths (10.4) mm/m) slope, multiply horizontal fixture units by a factor of eight-tenths (0.8).

<sup>6</sup>See Chapter 9 for vent stacks and stack vents, common vents, wet venting, circuit venting, combination drain and vent systems, air admittance valves, and engineered vent systems.

Note: The diameter of an individual vent shall not be less than one and one-fourth (1 1/4) inches (thirty-one and eight-tenths (31.8) millimeters) nor less than one-half (1/2) the diameter of the drain to which it is connected. Fixture unit load values for drainage and vent piping shall be computed from TABLE 7-3 and TABLE 7-4. Not to exceed one-third (1/3) of the total permitted length of any vent may be installed in a horizontal position. When vents are increased one (1) pipe size for their entire length, the maximum length limitations specified in this TABLE do not apply. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-111; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3396*)

675 IAC 16-1.3-112 Section 705.1.2; cement mortar joints

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 112. Change section 705.1.2 to read as follows: Cement mortar joints are prohibited on building sewers. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-112; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3397*)

675 IAC 16-1.3-113 Section 705.1.7; elastomeric gasketed and rubber-ring joints

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 113. Delete, in section 705.1.7, "Installation Standards listed in Appendix I" and substitute "Standards listed in TABLE 14-1". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-113; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3398*)

675 IAC 16-1.3-114 Section 705.1.9; hubless cast iron pipe joints

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 114. Delete, in section 705.1.9, "Installation Standards listed in Appendix I" and substitute "Standards listed in TABLE 14-1". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-114; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3398*)

675 IAC 16-1.3-115 Section 707.2; cleanouts

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 115. Delete, in section 707.2, "acceptable to the administrative authority". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-115; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3398*)

675 IAC 16-1.3-116 Section 707.15; cleanouts

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 116. Add section 707.15 after section 707.14 to read as follows:

707.15 Cleanouts; floor drains or other means.

707.15.1 A floor drain may serve as its own cleanout.

707.15.2 A fixture or trap may be removed to serve as a cleanout. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-116; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3398*)

675 IAC 16-1.3-117 Table 7-6; cleanouts

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 117. Change TABLE 7-6 to read as follows:

TABLE 7-6  
Cleanouts

Size of Pipe (inches)	Size of Cleanout (inches)
1½	1½
2	1½
2½	2½
3	2½
4	3½
5 and 6	4
Over 6	6

(*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-117; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3398*)

675 IAC 16-1.3-118 Section 708.0; grade of horizontal drainage piping

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 118. Change section 708.0 to read as follows: Horizontal drainage piping shall be run in practical alignment and a uniform slope of not less than one-eighth ( $\frac{1}{8}$ ) of an inch per foot (ten and forty-five hundredths (10.45) mm/m) or one percent (1%) toward the point of disposal provided that, where it is impractical due to the depth of the street sewer or to the structural features or to the arrangement of any building or structure to obtain a slope of one-eighth ( $\frac{1}{8}$ ) of an inch per foot (ten and forty-five hundredths (10.45) mm/m) or one percent (1%), any such pipe or piping four (4) inches (one hundred two (102) millimeters) or larger in diameter may have a slope of less than one-eighth ( $\frac{1}{8}$ ) of an inch per foot (ten and five-tenths (10.5) mm/m) or one percent (1%), when first approved by the administrative authority. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-118; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3398*)

675 IAC 16-1.3-119 Sections 710.3.2, 710.3.3, and 710.4; drainage of fixtures located below the next upstream manhole or below the main sewer level

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 119. (a) Delete, in section 710.3.2, "and gate valve".

(b) Change, in section 710.3.3, "three (3) inches (seventy-six (76) millimeters)" to "two (2) inches (fifty-one (51) millimeters)".

(c) Change the second paragraph of section 710.4 to read as follows: Gate valves, when used on drainage work, shall be full way type with working parts of corrosion resistant material. Sizes four (4) inches (one hundred two (102) millimeters) or more in diameter shall have cast iron bodies. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-119; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3398*)

675 IAC 16-1.3-120 Section 710.5; drainage of fixtures located below the next upstream manhole or below the main sewer level

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 120. Delete, in section 710.5, "adequately". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-120; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3398*)

675 IAC 16-1.3-121 Section 710.6; drainage of fixtures located below the next upstream manhole or below the main sewer level

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 121. (a) Delete, in the first paragraph of section 710.6, "an adequately sized" and substitute "a".

(b) Delete "masonry". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-121; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3399*)

675 IAC 16-1.3-122 Section 710.8; drainage of fixtures located below the next upstream manhole or below the main sewer level

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 122. Delete the second and third sentences of section 710.8. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-122; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3399*)

675 IAC 16-1.3-123 Section 710.10; drainage of fixtures located below the next upstream manhole or below the main sewer level

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 123. (a) Delete, in the first sentence of section 710.10, "substantial".

(b) Delete, in the second sentence of section 710.10, "when permitted.". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-123; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3399*)

675 IAC 16-1.3-124 Section 710.12; drainage of fixtures located below the next upstream manhole or below the main sewer level

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 124. (a) Delete, in section 710.12, "an approved" after "into" and before "sump", and substitute "a".

(b) Delete, in section 710.12, "satisfactory to" and substitute "approved by". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-124; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3399*)

675 IAC 16-1.3-125 Section 711.0; suds relief

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 125. Change Exception 1 in section 711.0 to read as follows: One and Two Family Dwellings and Townhouses. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-125; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3399*)

675 IAC 16-1.3-126 Section 712.1; media

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 126. Change the second sentence of section 712.1 to read as follows: The removal of cleanouts may be required to ascertain if the pressure has reached all parts of the system. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-126; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3399*)

675 IAC 16-1.3-127 Section 713.1; sewer required

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 127. Delete, at the end of section 713.1, “, except as provided in sections 101.4.1.3, 713.2 and 713.4” and substitute to read as follows: as required by local ordinance. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-127; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3399*)

675 IAC 16-1.3-128 Section 713.2; sewer required

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 128. Delete, in section 713.2, “an approved” and substitute “a”. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-128; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3399*)

675 IAC 16-1.3-129 Sections 713.3, 713.4, 713.5, and 713.6; sewer required

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 129. Delete sections 713.3, 713.4, 713.5, 713.6 and substitute to read as follows: See local ordinance. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-129; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3399*)

675 IAC 16-1.3-130 Sections 714.1, 714.2, 714.3, and 714.5; damage to public sewer or private sewage disposal system

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 130. Delete sections 714.1, 714.2, 714.3, and 714.5. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-130; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3399*)

675 IAC 16-1.3-131 Section 714.4; damage to public sewer or private sewage disposal system

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 131. Change section 714.4 by deleting “permission has first been obtained from the administrative authority” and substituting “unless allowed by local ordinance”. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-131; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3399*)

675 IAC 16-1.3-132 Section 715.1; building sewer materials approval

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 132. Delete subsection 715.1 without substitution. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-132; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3400*)

675 IAC 16-1.3-133 Section 716.0; markings

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 133. Delete section 716.0. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-133; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3400*)

675 IAC 16-1.3-134 Section 717.0; size of building sewers

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 134. Delete the second paragraph of section 717.0. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-134; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3400*)

675 IAC 16-1.3-135 Section 718.1; grade, support, and protection of building sewers

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 135. Change section 718.1 to read as follows: Building sewers shall be run in practical alignment and at a uniform slope. The minimum slope of building sewers shall be in accordance with TABLE 7-9. Where conditions do not permit building sewers to be laid with a slope as great as specified in TABLE 7-9, then a lesser slope may be permitted provided the computed velocity will not be less than two (2) feet per second.

TABLE 7-9 SLOPE OF SEWER PIPE	
Size (inches)	Minimum Slope (inch per foot)
2½ or less	¼
3 to 6	⅛
8 or larger	⅟ <sub>16</sub>

Note: 1 inch per foot = 83.3 mm/m

(*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-135; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3400*)

675 IAC 16-1.3-136 Section 718.2; grade, support, and protection of building sewers

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 136. Change section 718.2 to read as follows: Building sewer piping shall be laid on a firm bed throughout its entire length, and any such piping laid in made or filled-in ground shall be laid on a bed of approved materials. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-136; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3400*)

675 IAC 16-1.3-137 Section 719.1; cleanouts

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 137. Add a sentence to the end of section 719.1 to read as follows: The cleanout shall be line sized up to a maximum of 8". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-137; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3400*)

675 IAC 16-1.3-138 Sections 721.1 and 721.2; location

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 138. Delete sections 721.1 and 721.2. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-138; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3400*)

675 IAC 16-1.3-139 Sections 722.1, 722.2, 722.3, 722.4, and 722.5; abandoned sewers and sewage disposal facilities

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 139. Delete sections 722.1, 722.2, 722.3, 722.4, and 722.5. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-139; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3400*)

675 IAC 16-1.3-140 Section 723.0; building sewer test

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 140. Delete, in section 723.0, "the administrative authority" and substitute "local ordinance". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-140; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3400*)

675 IAC 16-1.3-141 Table 7-7; minimum horizontal distance required from the building sewer

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 141. Delete TABLE 7-7 and substitute to read as follows: See local ordinance. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-141; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3400*)

675 IAC 16-1.3-142 Table 7-8; maximum/minimum fixture unit loading on building sewer pipe

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 142. Delete, at the end of TABLE 7-8, "See also Appendix K, Private Sewage Disposal Systems. For Alternate methods of sizing drainage piping, see Appendix L.". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-142; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3401*)

675 IAC 16-1.3-143 Section 801.7; potable water pressure tanks, water treatment devices, boilers, and relief

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 143. Change the title to section 801.7 to read as follows: Potable Water Pressure Tanks, Water Treatment Devices, Boilers, and Relief Valves. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-143; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3401*)

675 IAC 16-1.3-144 Section 802.0; approvals

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 144. Delete section 802.0. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-144; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3401*)

675 IAC 16-1.3-145 Section 805.0; pressure drainage connections

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 145. Change the second paragraph of section 805.0 to read as follows: The foregoing shall not apply to any sump pump or to any pressure-wasting plumbing fixture or device when the drainage system is adequately sized to accommodate the anticipated discharge thereof. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-145; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3401*)

675 IAC 16-1.3-146 Section 807.3; appliances

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 146. Change Exception 2 to section 807.3 to read as follows: (2) Any materials approved in section 701.0 may be used when condensate waste from a fuel burning condensing appliance is diluted either before or after discharge into the drainage system. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-146; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3401*)

675 IAC 16-1.3-147 Section 807.4; appliances

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 147. Change section 807.4 as follows: (a) Delete "domestic".

(b) Add an exception to the end of section 807.4 to read as follows: Exception: Dishwasher machines in dwelling units may discharge into a wye tailpiece or dishwasher waste outlet on a garbage disposal. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-147; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3401*)

675 IAC 16-1.3-148 Section 808.0; cooling water

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 148. Delete section 808.0. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-148; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3401*)

675 IAC 16-1.3-149 Section 810.0; steam and hot water drainage condensers and sumps

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 149. Delete, in the second sentence of section 810.0, "administrative authority or the". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-149; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3401*)

675 IAC 16-1.3-150 Section 810.3; steam and hot water drainage condensers and sumps

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 150. Delete, in section 810.3, "suitable". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-150; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3401*)

675 IAC 16-1.3-151 Section 811.1; chemical wastes

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 151. Delete section 811.1. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-151; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3401*)

675 IAC 16-1.3-152 Section 811.7; chemical wastes

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 152. Delete section 811.7. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-152; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3401*)

675 IAC 16-1.3-153 Section 811.8; chemical wastes  
Authority: IC 22-13-2-2  
Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 153. Delete section 811.8. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-153; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3401*)

675 IAC 16-1.3-154 Section 815.2.2; point discharge  
Authority: IC 22-13-2-2  
Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 154. Change section 815.2.2 to read as follows: Other points of discharge as approved by the administrative authority. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-154; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3402*)

675 IAC 16-1.3-155 Chapter 9; vents  
Authority: IC 22-13-2-2  
Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 155. Delete the title and text of Chapter 9 and substitute to read as follows:

## CHAPTER 9 VENTS

### SECTION 901 GENERAL

901.1 Scope. The provisions of this chapter shall govern the materials, design, construction, and installation of vent systems.

901.2 Trap seal protection. The plumbing system shall be provided with a system of vent piping that will permit the admission or emission of air so that the seal of any fixture trap shall not be subjected to a pneumatic pressure differential of more than one (1) inch (two hundred forty-nine (249) Pascals) of water.

901.2.1 Venting required. Every trap and trapped fixture shall be vented in accordance with one (1) of the venting methods specified in this chapter.

Exception: Floor drains.

901.3 Chemical waste vent system. The vent system for a chemical waste system shall be independent of the sanitary vent system and shall terminate separately through the roof to the open air.

901.4 Use limitations. The plumbing vent system shall not be utilized for purposes other than the venting of the plumbing system.

901.5 Tests. The vent system shall be tested in accordance with section 712.

901.6 Engineered systems. Engineered venting systems shall conform to the provisions of sections 301.2.2 and 918.

### SECTION 902 MATERIALS

902.1 Vents. The materials and methods utilized for the construction and installation of venting systems shall comply with the applicable provisions of section 701.

902.2 Sheet copper. Sheet copper for vent pipe flashings shall be approved and shall weigh not less than eight (8) ounces per square foot (two and five-tenths (2.5) kg/m<sup>2</sup>).

902.3 Sheet lead. Sheet lead for vent pipe flashings shall weigh not less than three (3) pounds per square foot (fifteen (15) kg/m<sup>2</sup>) for field constructed flashings and not less than two and one-half (2½) pounds per square foot (twelve (12) kg/m<sup>2</sup>) for prefabricated flashings.

### SECTION 903 VENT STACKS AND STACK VENTS

903.1 Main vent required. Every sanitary drainage system receiving the discharge of a water closet shall have a main vent that is either a vent stack or a stack vent. Such vent shall run undiminished in size and as directly as possible from the building drain through to the open air above the roof.

903.2 Vent stack required. A vent stack shall be required for every drainage stack that is five (5) branch intervals or more.

903.3 Vent termination. Every vent stack or stack vent shall extend outdoors and terminate to the open air.

903.4 Vent connection at base. Every vent stack shall connect to the base of the drainage stack. The vent stack shall connect at or below the lowest horizontal branch. Where the vent stack connects to the building drain, the connection shall be located within ten (10) pipe diameters downstream of the drainage stack.

903.5 Vent headers. Stack vents and vent stacks connected into a common vent header at the top of the stacks and extending to the open air at one (1) point shall be sized in accordance with the requirements of section 916.1. The number of fixture units shall be the sum of all fixture units on all stacks connected thereto, and the developed length shall be the longest vent length from the intersection at the base of the most distant stack to the vent terminal in the open air as a direct extension of one (1) stack.

**SECTION 904 VENT TERMINALS**

904.1 Roof extension. All open vent pipes that extend through a roof shall be terminated at least six (6) inches above the roof, except that where a roof is to be used for any purpose other than weather protection, the vent extensions shall be run at least seven (7) feet (two thousand one hundred thirty-four (2,134) millimeters) above the roof.

904.2 Flashings. The juncture of each vent pipe with the roof line shall be made water tight by an approved flashing.

904.3 Prohibited use. Vent terminals shall not be used as a flag pole or to support flag poles, TV aerials, or similar items, except when the piping has been anchored in an approved manner.

904.4 Location of vent terminal. An open vent terminal from a drainage system shall not be located directly beneath any door, openable window, or other air intake opening of the building or of an adjacent building, and any such vent terminal shall not be within ten (10) feet (three thousand forty-eight (3,048) millimeters) horizontally of such an opening unless it is at least two (2) feet (six hundred ten (610) millimeters) above the top of such opening.

904.5 Extension through the wall. Vent terminals extending through the wall shall terminate a minimum of ten (10) feet (three thousand forty-eight (3,048) millimeters) from the lot line and ten (10) feet (three thousand forty-eight (3,048) millimeters) above average ground level. Vent terminals shall not terminate under the overhang of a structure with soffit vents. Side wall vent terminals shall be protected to prevent birds or rodents from entering or blocking the vent opening.

**SECTION 905 VENT CONNECTIONS AND GRADES**

905.1 Connection. All individual, branch, and circuit vents shall connect to a vent stack, stack vent, or extend to the open air.

Exception: Individual, branch, and circuit vents shall be permitted to terminate at an air admittance valve in accordance with section 917.

905.2 Grade. All vent and branch vent pipes shall be so graded and connected as to drain back to the drainage pipe by gravity.

905.3 Vent connection to drainage system. Every dry vent connecting to a horizontal drain shall connect above the centerline of the horizontal drain pipe.

905.4 Vertical rise of vent. Every dry vent shall rise vertically to a minimum of six (6) inches (one hundred fifty-two (152) millimeters) above the flood level rim of the highest trap or trapped fixture being vented.

905.5 Height above fixtures. A connection between a vent pipe and a vent stack or stack vent shall be made at least six (6) inches (one hundred fifty-two (152) millimeters) above the flood level rim of the highest fixture served by the vent. Horizontal vent pipes forming branch vents, relief vents, or loop vents shall be at least six (6) inches (one hundred fifty-two (152) millimeters) above the flood level rim of the highest fixture served.

905.6 Side inlet. Side inlet closet bends are permitted only in cases where the fixture connecting thereto is vented and in no case shall the inlet be used to vent a bathroom group without being washed by a fixture.

905.7 Vent for future fixtures. Where the drainage piping has been roughed-in for future fixtures, a rough-in connection for a vent shall be installed a minimum of one-half (1/2) the diameter of the drain. The vent rough-in shall connect to the vent system. The connection shall be identified to indicate that the connection is a vent.

**SECTION 906 FIXTURE VENTS**

906.1 Distance of trap from vent. Each fixture trap shall have a protecting vent located so that the slope and the developed length in the fixture drain from the trap weir to the vent fitting are within the requirements set forth in TABLE 906.1.

TABLE  
906.1  
MAXIMUM  
M  
DISTANCE  
E OF  
FIXTURE  
TRAP  
FROM  
VENT

SIZE OF TRAP (inches)	SIZE OF FIXTURE DRAIN(inches)	SLOPE (inch per foot)	DISTANCE FROM TRAP(feet)
1¼	1¼	¼	3½
1¼	1½	¼	5
1½	1½	¼	5
1½	2	¼	8
2	2	¼	6
3	3	⅛	10
4	4	⅛	12

For SI: 1 inch = 25.4 mm, 1 inch per foot = 0.0833 mm/m, 1 foot = 304.8 mm.

NOTE: A trap arm serving only a bathtub or shower may be increased to nine (9) feet with a minimum slope of one-eighth (1/8) inch vertical in twelve (12) inches of horizontal run.

906.2 Venting of fixture drains. The vent for a fixture drain, except where serving a fixture with integral traps, such as water closets, shall connect above the weir of the fixture trap being vented.

906.3 Crown vent. A vent shall not be installed within two (2) pipe diameters of the trap weir.

#### SECTION 907 INDIVIDUAL VENT

907.1 Individual vent permitted. Each trap and trapped fixture is permitted to be provided with an individual vent. The individual vent shall connect to the fixture drain of the trap or trapped fixture being vented.

#### SECTION 908 COMMON VENT

908.1 Individual vent as common vent. An individual vent is permitted to vent two (2) traps or trapped fixtures as a common vent. The traps or trapped fixtures being common vented shall be located on the same floor level.

908.2 Connection at the same level. Where the fixture drains being common vented connect at the same level, the vent connection shall be at the interconnection of the fixture drains or downstream of the interconnection.

908.3 Connection at different levels. Where the fixture drains connect at different levels, the vent shall connect as a vertical extension of the vertical drain. The vertical drain pipe connecting the two (2) fixture drains shall be considered the vent for the lower fixture drain and shall be sized in accordance with TABLE 7-5. The upper fixture shall not be a water closet.

#### SECTION 909 WET VENTING

909.1 Wet vent permitted. Any combination of fixtures within two (2) bathroom groups located on the same floor level are permitted to be vented by a wet vent. The wet vent shall be considered the vent for the fixtures and shall extend from the connection of the dry vent along the direction of the flow in the drain pipe to the most downstream fixture drain connection to the horizontal branch drain. Only the fixtures within the bathroom groups shall connect to the wet-vented horizontal branch drain. Any additional fixtures shall discharge downstream of the wet vent.

909.2 Vent connection. The dry vent connection to the wet vent shall be an individual vent or common vent to the lavatory, bidet, shower, or bathtub.

909.3 Size. The wet vent shall be of a minimum size as specified in TABLE 909.3, based on the fixture unit discharge to the wet vent.

TABLE 909.3  
WET VENT SIZE

WET VENT PIPE SIZE (inches)	DRAINAGE FIXTURE UNIT LOAD (dfu)
1½	1
2	4
2½	6
3	12

For SI: 1 inch = 25.4 mm.

#### SECTION 910 WASTE STACK VENT

910.1 Waste stack vent permitted. A waste stack shall be considered a vent for all of the fixtures discharging to the stack where installed in accordance with the requirements of this section.

910.2 Stack installation. The waste stack shall be vertical, and both horizontal and vertical offsets shall be prohibited. Every fixture drain shall connect separately to the waste stack. The stack shall not receive the discharge of water closets or urinals.

910.3 Stack vent. A stack vent shall be provided for the waste stack. The size of the stack vent shall be equal to the size of the waste stack. Offsets shall be permitted in the stack vent and shall be located at least six (6) inches (one hundred fifty-two (152) millimeters) above the flood level of the highest fixture and shall be in accordance with section 905.2.

910.4 Waste stack size. The waste stack shall be sized based on the total discharge to the stack and the discharge within a branch interval in accordance with TABLE 910.4. The waste stack shall be the same size throughout the length of the waste stack.

TABLE 910.4  
WASTE STACK VENT SIZE

STACK SIZE (inches)	MAXIMUM NUMBER OF DRAINAGE FIXTURE UNITS (dfu)	
	Total discharge into one branch interval	Total discharge for stack
1½	1	2
2	2	4
2½	No limit	8
3	No limit	24
4	No limit	50
5	No limit	75
6	No limit	100

For SI: 1 inch = 25.4 mm.

**SECTION 911 CIRCUIT VENTING**

911.1 Circuit vent permitted. A maximum of eight (8) fixtures connected to a horizontal branch drain shall be permitted to be circuit vented. Each fixture drain shall connect horizontally to the horizontal branch being circuit vented. The horizontal branch drain shall be classified as a vent from the most downstream fixture drain connection to the most upstream fixture drain connection to the horizontal branch.

911.1.1 Multiple circuit-vented branches. Circuit-vented horizontal branch drains are permitted to be connected together. Each group of a maximum of eight (8) fixtures shall be considered a separate circuit vent and shall conform to the requirements of this section.

911.2 Vent connection. The circuit vent connection shall be located between the two (2) most upstream fixture drains. The vent shall connect to the horizontal branch and shall be installed in accordance with section 905. The circuit vent pipe shall not receive the discharge of any soil or waste.

911.3 Slope and size of horizontal branch. The maximum slope of the vent section of the horizontal branch drain shall be one (1) unit vertical in twelve (12) units horizontal (eight percent (8%) slope). The entire length of the vent section of the horizontal branch drain shall be sized for the total drainage discharge to the branch.

911.3.1 Size of multiple circuit vent. Each separate circuit-vented horizontal branch that is interconnected shall be sized independently in accordance with section 911.3. The downstream circuit-vented horizontal branch shall be sized for the total discharge into the branch, including the upstream branches and the fixtures within the branch.

911.4 Relief vent. A relief vent shall be provided for circuit-vented horizontal branches receiving the discharge of four (4) or more water closets and connecting to a drainage stack that receives the discharge of soil or waste from upper horizontal branches.

911.4.1 Connection and installation. The relief vent shall connect to the horizontal branch drain between the stack and the most downstream fixture drain of the circuit vent. The relief vent shall be installed in accordance with section 905.

911.4.2 Fixture drain or branch. The relief vent is permitted to be a fixture drain or fixture branch for fixtures located within the same branch interval as the circuit-vented horizontal branch. The maximum discharge to a relief vent shall be four (4) fixture units.

911.5 Additional fixtures. Fixtures, other than the circuit-vented fixtures, are permitted to discharge to the horizontal branch drain. Such fixtures shall be located on the same floor as the circuit-vented fixtures and shall be either individually or common vented.

**SECTION 912 COMBINATION DRAIN AND VENT SYSTEM**

912.1 Type of fixtures. A combination drain and vent system shall not serve fixtures other than floor drains, standpipes, sinks, and lavatories.

912.2 Installation. The only vertical pipe of a combination drain and vent system shall be the connection between the fixture drain of a sink, lavatory, or standpipe, and the horizontal combination drain and vent pipe. The maximum vertical distance shall be eight (8) feet (two thousand four hundred thirty-eight (2,438) millimeters).

912.2.1 Slope. The horizontal combination drain and vent pipe shall have a maximum slope of one-half (½) unit vertical in twelve (12) units horizontal (four percent (4%) slope). The minimum slope shall be in accordance with TABLE 7-5.

912.2.2 Connection. The combination drain and vent pipe shall connect to a horizontal drain that is vented or a vent, shall connect to the combination drain and vent. The vent connecting to the combination drain and vent pipe shall extend vertically a minimum of six (6) inches (one hundred fifty-two (152) millimeters) above the flood level rim of the highest fixture being vented before offsetting horizontally.

912.2.3 Vent size. The vent shall be sized for the total drainage fixture unit load in accordance with section 916.2.

912.2.4 Fixture branch or drain. The fixture branch or fixture drain shall connect to the combination drain and vent within a distance specified in TABLE 906.1. The combination drain and vent pipe shall be considered the vent for the fixture.

912.3 Size. The minimum size of a combination drain and vent pipe shall be in accordance with TABLE 912.3.

TABLE 912.3  
SIZE OF COMBINATION DRAIN  
AND VENT PIPE

DIAMETER PIPE (inches)	MAXIMUM NUMBER OF DRAINAGE FIXTURE UNITS (dfu)	
	Connecting to a horizontal branch or stack	Connecting to a building drain or building subdrain
2	3	4
2½	6	26
3	12	31
4	20	50
5	160	250
6	360	575

For SI: 1 inch = 25.4 mm.

**SECTION 913 ISLAND FIXTURE VENTING**

913.1 Limitation. Island fixture venting shall not be permitted for fixtures other than sinks and lavatories. Residential kitchen sinks with a dishwasher waste connection, a food waste grinder, or both, in combination with the kitchen sink waste, shall be permitted to be vented in accordance with this section.

913.2 Vent connection. The island fixture vent shall connect to the fixture drain as required for an individual or common vent. The vent shall rise vertically to above the drainage outlet of the fixture being vented before offsetting horizontally or vertically downward. The vent or branch vent for multiple island fixture vents shall extend to a minimum of six (6) inches (one hundred fifty-two (152) millimeters) above the highest island fixture being vented before connecting to the outside vent terminal.

913.3 Vent installation below the fixture flood level rim. The vent located below the flood level rim of the fixture being vented shall be installed as required for drainage piping in accordance with Chapter 7, except for sizing. The vent shall be sized in accordance with section 916.2. The lowest point of the island fixture vent shall connect full size to the drainage system. The connection shall be to a vertical drain pipe or to the top half of a horizontal drain pipe. Cleanouts shall be provided in the island fixture vent to permit rodding of all vent piping located below the flood level rim of the fixtures. Rodding in both directions shall be permitted through a cleanout.

**SECTION 914 RELIEF VENTS-STACKS OF MORE THAN TEN (10) BRANCH INTERVALS**

914.1 Where required. Soil and waste stacks in buildings having more than ten (10) branch intervals shall be provided with a relief vent at each tenth interval installed, beginning with the top floor.

914.2 Size and connection. The size of the relief vent shall be equal to the size of the vent stack to which it connects.

**SECTION 915 VENTS FOR STACK OFFSETS**

915.1 Vent for horizontal offset of drainage stack. Horizontal offsets of drainage stacks shall be vented where five (5) or more

branch intervals are located above the offset. The offset shall be vented by venting the upper section of the drainage stack and the lower section of the drainage stack.

915.2 Upper section. The upper section of the drainage stack shall be vented as a separate stack with a vent stack connection installed in accordance with section 903.4. The offset shall be considered the base of the stack.

915.3 Lower section. The lower section of the drainage stack shall be vented by a yoke vent connecting between the offset and the next lower horizontal branch. The yoke vent connection shall be permitted to be a vertical extension of the drainage stack. The size of the yoke vent and connection shall be a minimum of the size required for the vent stack of the drainage stack.

**SECTION 916 VENT PIPE SIZING**

916.1 Size of stack vents and vent stacks. The minimum required diameter of stack vents and vent stacks shall be determined from the developed length and the total of drainage fixture units connected thereto in accordance with TABLE 916.1, but in no case shall the diameter be less than one-half (1/2) the diameter of the drain served or less than one and one-fourth (1 1/4) inches (thirty-two (32) millimeters).

916.2 Other vents. The diameter of individual vents, branch vents, circuit vents, and relief vents shall be at least one-half (1/2) the required diameter of the drain served. The required size of the drain shall be determined in accordance with Chapter 7. Vent pipes shall not be less than one and one-fourth (1 1/4) inch (thirty-two (32) millimeters) in diameter. Vents exceeding forty (40) feet (twelve thousand one hundred ninety-two (12,192) millimeters) in developed length shall be increased by one (1) nominal pipe size for the entire developed length of the vent pipe. Relief vents for soil and waste stacks in buildings having more than ten (10) branch intervals shall be sized in accordance with section 914.2.

TABLE 916.1  
SIZE AND DEVELOPED LENGTH OF STACK VENTS AND VENT STACKS

DIAMETER OF SOIL OR WASTE STACK (inches)	TOTAL FIXTURE UNITS BEING VENTED (dfu)	MAXIMUM DEVELOPED LENGTH OF VENT (feet) <sup>a</sup>										
		DIAMETER OF VENT (inches)										
		1/4	1/2	2	2 1/2	3	4	5	6	8	10	12
1/4	2	30										
1/2	8	50	150									
1/2	10	30	100									
2	12	30	75	200								
2	20	26	50	150								
2 1/2	42		30	100	300							
3	10		42	150	360	1,040						
3	21		32	110	270	810						
3	53		27	94	230	680						
3	102		25	86	210	620						
4	43			35	85	250	980					
4	140			27	65	200	750					
4	320			23	55	170	640					
4	540			21	50	150	580					
5	190				28	82	320	990				
5	490				21	63	250	760				
5	940				18	53	210	670				
5	1,400				16	49	190	590				
6	500					33	130	400	1,000			
6	1,100					26	100	310	780			
6	2,000					22	84	260	660			
6	2,900					20	77	240	600			
8	1,800						31	95	240	940		
8	3,400						24	73	190	720		
8	5,600						20	62	160	610		
8	7,600						18	56	140	560		
10	4,000							31	78	310	960	
10	7,200							24	60	240	740	
10	11,000							20	51	200	630	
10	15,000							18	46	180	570	

12	7,300						31	120	380	940
12	13,000						24	94	300	720
12	20,000						20	79	250	610
12	26,000						18	72	230	500
15	15,000							40	130	310
15	25,000							31	96	240
15	38,000							26	81	200
15	50,000							24	74	180

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

<sup>a</sup>The developed length shall be measured from the vent connection to the open air.

916.3 Developed length. The developed length of individual, branch, circuit, and relief vents shall be measured from the farthest point of vent connection to the drainage system to the point of connection to the vent stack, stack vent, or termination outside of the building.

916.4 Multiple branch vents. Where multiple branch vents are connected to a common branch vent, the common branch vent shall be sized in accordance with this section based on the size of the common horizontal drainage branch that is or would be required to serve the total drainage fixture unit (dfu) load being vented.

916.4.1 Multiple branch vents exceeding forty (40) feet (twelve thousand one hundred ninety-two (12,192) millimeters) in developed length. Multiple branch vents exceeding forty (40) feet (twelve thousand one hundred ninety-two (12,192) millimeters) in developed length shall be increased by nominal size for the entire developed length of the vent pipe.

916.5 Sump vents. Sump vent sizes shall be determined in accordance with sections 916.5.1 and 916.5.2.

916.5.1 Sewage pumps and sewage ejectors other than pneumatic. Drainage piping below sewer level shall be vented in a similar manner to that of a gravity system. Building sump vent sizes for sumps with sewage pumps or sewage ejectors, other than pneumatic, shall be determined in accordance with TABLE 916.5.1.

916.5.2 Pneumatic sewage ejectors. The air pressure relief pipe from a pneumatic sewage ejector shall be connected to an independent vent stack terminating as required for vent extensions through the roof. The relief pipe shall be sized to relieve air pressure inside the ejector to atmospheric pressure, but shall not be less than one and one-fourth (1¼) inches (thirty-two (32) millimeters) in size.

TABLE 916.5.1  
SIZE AND LENGTH OF SUMP VENTS

DISCHARGE CAPACITY OF PUMP (gpm)	MAXIMUM DEVELOPED LENGTH OF VENT (feet) <sup>a</sup>					
	Diameter of vent (inches)					
	1¼	1½	2	2½	3	4
10	No limit <sup>b</sup>	No limit	No limit	No limit	No limit	No limit
20	270	No limit	No limit	No limit	No limit	No limit
40	72	160	No limit	No limit	No limit	No limit
60	31	75	270	No limit	No limit	No limit
80	16	41	150	380	No limit	No limit
100	10 <sup>c</sup>	25	97	250	No limit	No limit
150	Not permitted	10 <sup>c</sup>	44	110	370	No limit
200	Not permitted	Not permitted	20	60	210	No limit
250	Not permitted	Not permitted	10	36	132	No limit
300	Not permitted	Not permitted	10 <sup>c</sup>	22	88	380
400	Not permitted	Not permitted	Not permitted	10 <sup>c</sup>	44	210
500	Not permitted	Not permitted	Not permitted	Not permitted	24	130

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 gpm = 3.785 L/m.

<sup>a</sup>Developed length plus an appropriate allowance for entrance losses and friction due to fittings, changes in direction and diameter. Suggested allowances shall be obtained from approved sources. An allowance of fifty percent (50%) of the developed length shall be assumed if a more precise value is not available.

<sup>b</sup>Actual values greater than five hundred (500) feet.

<sup>c</sup>Less than ten (10) feet.

**SECTION 917 AIR ADMITTANCE VALVES**

917.1 General. Vent systems utilizing air admittance valves shall comply with this section. Individual and branch-type air admittance valves shall conform to ASSE 1051.

917.2 Installation. The valves shall be installed in accordance with the requirements of this section and the manufacturer's installation instructions. Air admittance valves shall be installed after the DWV testing required by section 712 has been performed.

917.3 Where permitted. Individual, branch, and circuit vents shall be permitted to terminate with a connection to an air admittance valve. The air admittance valve shall only vent fixtures that are on the same floor level and connect to a horizontal branch drain. The horizontal branch drain shall conform to section 917.3.1 or 917.3.2.

917.3.1 Location of branch. The horizontal branch drain shall connect to the drainage stack or building drain a maximum of four (4) branch intervals from the top of the stack.

917.3.2 Relief vent. The horizontal branch shall be provided with a relief vent that shall connect to a vent stack, or stack vent, or extend outdoors to the open air. The relief vent shall connect to the horizontal branch drain between the stack or building drain and the most downstream fixture drain connected to the horizontal branch drain. The relief vent shall be sized in accordance with section 916.2 and installed in accordance with section 905. The relief vent shall be permitted to serve as the vent for other fixtures.

917.4 Location. The air admittance valve shall be located a minimum of four (4) inches (one hundred two (102) millimeters) above the horizontal branch drain or fixture drain being vented. The air admittance valve shall be located within the maximum developed length permitted for the vent. The air admittance valve shall be installed a minimum of six (6) inches (one hundred fifty-two (152) millimeters) above insulation materials.

917.5 Access and ventilation. Access shall be provided to all air admittance valves. The valve shall be located within a ventilated space that allows air to enter the valve.

917.6 Size. The air admittance valve shall be rated for the size of the vent to which the valve is connected.

917.7 Vent required. Within each plumbing system, a minimum of one (1) stack vent or vent stack shall extend outdoors to the open air.

917.8 Prohibited installations. Air admittance valves shall not be installed in nonneutralized special waste systems. Valves shall not be located in spaces utilized as supply or return air plenums.

**SECTION 918 ENGINEERED VENT SYSTEMS**

918.1 General. Engineered vent systems shall comply with this section and section 301.2.2.

918.2 Individual branch fixture and individual fixture header vents. The maximum developed length of individual fixture vents to vent branches and vent headers shall be determined in accordance with TABLE 918.2 for the minimum pipe diameters at the indicated vent airflow rates.

The individual vent airflow rate shall be determined in accordance with the following:

$$Q_{h,b} = N_{n,b} Q_v$$

For SI:  $Q_{h,b} = N_{n,b} Q_v$  (0.4719 L/s)

Where:  $N_{n,b}$  = Number of fixtures per header (or vent branch), total number of fixtures connected to vent stack.

$Q_{h,b}$  = Vent branch or vent header airflow rate (cfm).

$Q_v$  = Total vent stack airflow rate (cfm).

$$Q_v \text{ (gpm)} = 27.8 r_s^{2/3} (1 - r_s) D^{8/3}$$

$$Q_v \text{ (cfm)} = 0.134 Q_v \text{ (gpm)}$$

Where:  $D$  = Drainage stack diameter (inches).

$Q_w$  = Design discharge load (gpm).

$r_s$  = Waste water flow area to total area.

$$\frac{Q_w}{27.8 D^{8/3}}$$

Individual vent airflow rates are obtained by equally distributing  $Q_{h,b}$  into one-half (1/2) the total number of fixtures on the branch or header for more than two (2) fixtures; for an odd number of total fixtures, decrease by one (1); for one (1) fixture, apply the full value of  $Q_{h,b}$ .

Individual vent developed length shall be increased by twenty percent (20%) of the distance from the vent stack to the fixture vent connection on the vent branch or header.

TABLE 918.2  
MINIMUM DIAMETER AND MAXIMUM LENGTH OF  
INDIVIDUAL BRANCH FIXTURE VENTS AND

INDIVIDUAL FIXTURE HEADER VENTS FOR SMOOTH PIPES

DIAMETER OF VENT PIPE (inches)	INDIVIDUAL VENT AIRFLOW RATE (cubic feet per minute)																			
	Maximum developed length of vent (feet)																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
½	95	25	13	8	5	4	3	2	1	1	1	1	1	1	1	1	1	1	1	1
¾	100	88	47	30	20	15	10	9	7	6	5	4	3	3	3	2	2	2	2	1
1	-	-	100	94	65	48	37	29	24	20	17	14	12	11	9	8	7	7	6	6
1¼	-	-	-	-	-	-	-	100	87	73	62	53	46	40	36	32	29	26	23	21
1½	-	-	-	-	-	-	-	-	-	-	-	100	96	84	75	67	60	54	49	45
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100

For SI: 1 inch = 25.4 mm, 1 cfm = 0.4719 L/s, 1 foot = 304.8 mm.

(Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-155; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3402)

675 IAC 16-1.3-156 Table 10-1; horizontal distance of trap arms

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 156. Delete TABLE 10-1 and substitute to read as follows: See TABLE 906.1. (Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-156; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3409)

675 IAC 16-1.3-157 Section 1003.2; traps-described

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 157. (a) Change, in section 1003.1, "one (1)" to read "two (2)".

(b) Change, in section 1003.2, "fitting" to read "fittings". (Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-157; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3409)

675 IAC 16-1.3-158 Section 1004.0; traps-prohibited

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 158. Change the fourth sentence of section 1004.0 to read as follows: Drum and bottle traps may be installed only when permitted by local ordinance for special conditions. (Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-158; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3409)

675 IAC 16-1.3-159 Section 1005.0; trap seals

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 159. Change section 1005.0 to read as follows: Each fixture trap shall have a water seal of not less than two (2) inches (fifty-one (51) millimeters) and not more than four (4) inches (one hundred two (102) millimeters) unless approved. Traps shall be set true with respect to their water seals, and, where necessary, they shall be protected from freezing. (Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-159; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3409)

675 IAC 16-1.3-160 Section 1006.0; floor drain traps

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 160. Delete, in the last sentence of section 1006.0, "an approved" and substitute "a". (Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-160; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3409)

675 IAC 16-1.3-161 Section 1007.0; trap seal protection

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 161. (a) Change the first sentence of section 1007.0 to read as follows: Floor drain or similar traps directly connected to the drainage system and subject to infrequent use shall be provided with an approved automatic means of maintaining their water seals.

(b) Add an exception to the end of section 1007.0 to read as follows: Exception: One (1) and two (2) family dwellings, townhouses, and dwelling units. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-161; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3409*)

675 IAC 16-1.3-162 Section 1008.0; building traps

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 162. Change section 1008.0 to read as follows: Building traps shall not be installed. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-162; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3409*)

675 IAC 16-1.3-163 Section 1009.1; when required

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 163. Change section 1009.1 to read as follows: Interceptors (clarifiers) (including grease, oil, and sand interceptors (clarifiers), etc.) shall be provided when they are necessary for the handling of liquid wastes containing grease, flammable wastes, sand, solids, acid, or alkaline substances. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-163; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3409*)

675 IAC 16-1.3-164 Section 1009.2; approval

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 164. Change section 1009.2 to read as follows: The size, type, and location of each interceptor (clarifier) or separator shall be approved by the administrative authority. No wastes other than those requiring treatment or separation shall be discharged into any interceptor (clarifier). (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-164; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3410*)

675 IAC 16-1.3-165 Section 1009.5; location

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 165. Change section 1009.5 to read as follows: Each interceptor (clarifier) cover shall be readily accessible. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-165; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3410*)

675 IAC 16-1.3-166 Section 1009.6; maintenance of interceptors

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 166. Delete section 1009.6. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-166; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3410*)

675 IAC 16-1.3-167 Section 1011.0; minimum requirement for auto wash racks

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 167. Delete, in section 1011.0, "adequately". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-167; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3410*)

675 IAC 16-1.3-168 Section 1012.0; laundries

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 168. Change section 1012.0 to read as follows: Laundry equipment that does not have integral stainers shall discharge into an interceptor having a wire basket or similar device, that is removable for cleaning and that will prevent passage into the drainage system of solids one-half (½) inch (twelve and seven-tenths (12.7) millimeters) or larger in maximum dimension such as string, rags, or buttons. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-168; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3410*)

675 IAC 16-1.3-169 Section 1014.1; grease traps and grease interceptors

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 169. Change section 1014.1 to read as follows: An approved type grease trap complying with the provisions of this section shall be installed in the waste line leading from sinks, drains, and other fixtures or equipment in establishments such as restaurants, cafes, lunch counters, cafeterias, bars and clubs, hotel, hospital, sanitarium, factory, or school kitchens, or other establishments where grease may be introduced into the drainage or sewage system in quantities that can effect line stoppage or hinder sewage treatment or private sewage disposal. A grease trap is not required for individual dwelling units or for any private living quarters.

Exception: Listed grease traps or grease interceptors with approved type flow controls or restricting devices may be installed in an accessible location in accordance with the manufacturer's instructions.

(*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-169; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3410*)

675 IAC 16-1.3-170 Section 1014.3; grease traps and grease interceptors

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 170. Change section 1014.3 by deleting the exception. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-170; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3410*)

675 IAC 16-1.3-171 Section 1014.6; grease traps and grease interceptors

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 171. Delete section 1014.6. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-171; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3410*)

675 IAC 16-1.3-172 Section 1014.10; grease interceptors for commercial kitchens

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 172. Delete section 1014.10. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-172; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3410*)

675 IAC 16-1.3-173 Section 1015.0; food waste disposal and dishwasher prohibited

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 173. Change section 1015.0 to read as follows: Unless specifically permitted by local ordinance, no food waste

disposal unit or dishwasher shall be connected to or discharge into any grease trap or interceptor. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-173; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3410*)

675 IAC 16-1.3-174 Table 10-2; grease traps

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 174. Change, in the Note to TABLE 10-2, "permit" to "approve". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-174; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3411*)

675 IAC 16-1.3-175 Section 1016.1.2; where required

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 175. Delete section 1016.1.2. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-175; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3411*)

675 IAC 16-1.3-176 Section 1016.4; alternate design

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 176. Change section 1016.4 to read as follows: Alternate designs for construction or baffling of sand interceptors complying with the intent of this code shall be submitted to the office of the state building commissioner in accordance with the General Administrative Rules (675 IAC 12-6-11). (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-176; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3411*)

675 IAC 16-1.3-177 Section 1017.1; interceptors required

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 177. (a) Change the first sentence of section 1017.1 by adding to the end of the first sentence "as required by the building code".

(b) Change the seventh sentence by deleting at the end of the sentence "and meeting the requirements of the administrative authority". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-177; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3411*)

675 IAC 16-1.3-178 Section 1017.2; design of interceptors

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 178. Delete, in section 1017.2, the third sentence in the second paragraph. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-178; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3411*)

675 IAC 16-1.3-179 Section 1017.2.1; design of interceptors

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 179. Add section 1017.2.1 after section 1017.2 to read as follows: Alternate design. Alternate design for construction of oil and flammable liquids interceptors complying with the intent of this code shall be submitted to the office of the state building commissioner in accordance with the General Administrative Rules (675 IAC 12-6-11). (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-179; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3411*)

675 IAC 16-1.3-180 Section 1017.3; combination oil and sand interceptor

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 180. Delete, at the end of section 1017.3, "See also Appendix H, Procedures for Sizing Commercial Kitchen Grease Interceptors". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-180; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3411*)

675 IAC 16-1.3-181 Section 1101.1; where required

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 181. Delete section 1101.1. The locations to where storm drainage must be directed may be regulated by local ordinance. Storm drainage systems is [*sic., are*] the remaining subject matter of this chapter. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-181; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3411*)

675 IAC 16-1.3-182 Section 1101.2; storm water drainage to sanitary sewer prohibited

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 182. Delete section 1101.2. The locations to where storm drainage must be directed may be regulated by local ordinance. Storm drainage is the remaining subject matter of this chapter. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-182; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3411*)

675 IAC 16-1.3-183 Section 1101.10; paved areas

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 183. Delete section 1101.10. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-183; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3411*)

675 IAC 16-1.3-184 Section 1101.11.1; primary roof drainage

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 184. Change the third sentence of section 1101.11.1 to read as follows: Roof drains, gutters, vertical conductors or leaders, and horizontal storm drains for primary drainage within or on the structure shall be sized based on a storm of sixty (60) minutes duration and one hundred (100) year return period (See Appendix D). (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-184; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3411*)

675 IAC 16-1.3-185 Sections 1101.11.2.1; secondary roof drainage

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 185. Delete the second sentence of section 1101.11.2.1. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-185; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3412*)

675 IAC 16-1.3-186 Sections 1101.11.2.2 and 1101.11.2.3; secondary roof drainage

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 186. Delete sections 1101.11.2.2 and 1101.11.2.3. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-186; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3412*)

675 IAC 16-1.3-187 Section 1101.11.2.4; secondary roof drainage

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 187. Delete the second sentence of section 1101.11.2.4. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-187; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3412*)

675 IAC 16-1.3-188 Section 1106.2; size of horizontal storm drains and sewers

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 188. Change section 1106.2 to read as follows: The size of building storm drains or building storm sewers or any of their horizontal branches shall be based upon the maximum projected roof area to be handled and TABLE 11-2. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-188; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3412*)

675 IAC 16-1.3-189 Section 1106.4; side walls draining into a roof

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 189. Change, in item 1 of section 1106.4, "fifty (5)" to "fifty (50)". (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-189; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3412*)

675 IAC 16-1.3-190 Section 1108.1; application

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 190. Change section 1108.1 by adding item 14 to the end of the section to read as follows: (14) Compliance with the building code. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-190; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3412*)

675 IAC 16-1.3-191 Section 1109.2.3; exceptions

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 191. Delete section 1109.2.3 and substitute to read as follows: Alternative methods of testing storm drainage systems complying with the intent of this code shall be submitted to the office of the state building commissioner in accordance with the General Administrative Rules (675 IAC 12-6-11). (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-191; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3412*)

675 IAC 16-1.3-192 Chapter 12; fuel piping

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 192. Delete Chapter 12. See the Indiana Mechanical Code (675 IAC 18) for fuel piping. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-192; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3412*)

675 IAC 16-1.3-193 Chapter 13; medical gas systems

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 193. Delete Chapter 13. See the building code (675 IAC 12) and the 1998 Indiana Fire Code (675 IAC 22) for medical gas systems. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-193; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3412*)

675 IAC 16-1.3-194 Chapter 14; mandatory referenced standard - TABLE 14-1

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 194. (a) Delete, in TABLE 14-1, the appliance and appurtenances referral standards and substitute to read as follows: Water heater relief valve drain tubes-ASME A112.4.1-93.

(b) Delete, in TABLE 14-1, the following standards:

(1) Prefabricated fiberglass church baptistries, IAPMO PS 98-96.

(2) Safe handling of solvent cements and primers used for joining thermoplastic pipe and fittings, F402-93, IAPMO IS 8-95, IAPMO IS 9-95, IAPMO IS 20-96.

(c) Delete, in TABLE 14-1, the standards for medical gas and vacuum systems and joining materials and methods-medical gas piping.

(d) Delete, in TABLE 14-1, the following standards:

(1) National fuel gas code, Z223.1-92/NFPA 54.

(2) Energy efficient design of new buildings except low-rise residential buildings, ASHRAE 90.1-89.

(3) Accessible and usable buildings and facilities, CABO A117.1-92.

(4) Drinking water treatment units-aesthetic effects, NSF 42-88.

(5) Drinking water treatment units-health effects, NSF 53-94.

(6) Reverse osmosis drinking water treatment systems, NSF 58-96.

(7) Liquefied petroleum gases, storage, and handling, NFPA 58-92.

(8) Smooth wall polyethylene (PE) pipe for use in drainage and waste disposal absorption fields, F 810-93.

(e) Delete, in TABLE 14-1, the standards for building sewer-combined.

(f) Delete Footnote number 1 from TABLE 14-1. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-194; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3412*)

675 IAC 16-1.3-195 Table 14-2; fixture and fitting standards

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 195. Delete, in TABLE 14-2, the following standards:

(1) Hot water dispensers, fixture-mounted, ANSI/ASSE 1023.

(2) Water heaters, electric, ANSI Z21.10.1.

(3) Water heaters, gas, Volume I, ANSI Z21.10.1.

(4) Water heaters, gas, Volume III, ANSI Z21.10.3.

(5) Water heaters, oil, ANSI Z21.10.1, UL 174, UL 732.

(*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-195; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3413*)

675 IAC 16-1.3-196 Appendix A; recommended rules for sizing the water supply system

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 196. Delete Appendix A. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-196; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3413*)

675 IAC 16-1.3-197 Appendix B; explanatory notes on combination waste and vent systems

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 197. Delete Appendix B. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-197; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3413*)

675 IAC 16-1.3-198 Appendix C; additional referenced standards

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 198. Delete Appendix C. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-198; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3413*)

675 IAC 16-1.3-199 Appendix D; sizing storm water drainage system

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 199. Appendix D is adopted. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-199; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3413*)

675 IAC 16-1.3-200 Appendix E; manufactured home parks and recreational vehicle parks

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 200. Delete Appendix E. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-200; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3413*)

675 IAC 16-1.3-201 Appendix G; graywater systems for single family dwellings

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 201. Delete Appendix G. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-201; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3413*)

675 IAC 16-1.3-202 Appendix H; recommended procedures for kitchen design, construction, and installation of commercial kitchen grease interceptors

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 202. Delete Appendix H. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-202; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3413*)

675 IAC 16-1.3-203 Appendix I; installation standards

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 203. Delete Appendix I. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-203; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3413*)

675 IAC 16-1.3-204 Appendix J; reclaimed water systems for nonresidential buildings

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 204. Delete Appendix J. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-204; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3413*)

675 IAC 16-1.3-205 Appendix K; private sewage disposal systems

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 205. Delete Appendix K. (*Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-205; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3413*)

675 IAC 16-1.3-206 Appendix L; alternate plumbing systems

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 206. Delete Appendix L. See the General Administrative Rules (675 IAC 12-6-11) for alternate plumbing systems. *(Fire Prevention and Building Safety Commission; 675 IAC 16-1.3-206; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3414)*

Rule 2. American Society of Sanitary Engineers Standard 1051-1998

675 IAC 16-2-1 Title; availability

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 1. (a) This rule shall be published, except for incorporated documents, by the fire and building services department, for general distribution and use under that title.

(b) The American Society of Sanitary Engineers Standard 1051 is available for purchase from the Fire and Building Services Department, Indiana Government Center-South, 402 West Washington Street, Room W221, Indianapolis, Indiana 46204-2739. *(Fire Prevention and Building Safety Commission; 675 IAC 16-2-1; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3414)*

675 IAC 16-2-2 Adoption by reference

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 2. That certain document, being titled as American Society of Sanitary Engineers Standard 1051, 1998 Edition, published by the American Society of Sanitary Engineers, 28901 Clemens Road, Westlake, Ohio 44145, be and the same is hereby adopted by reference, as if fully set out in this rule, save and except those amendments made in this rule. *(Fire Prevention and Building Safety Commission; 675 IAC 16-2-2; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3414)*

675 IAC 16-2-3 Connections

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 3. Delete subsection 1.4.7 without substitution. *(Fire Prevention and Building Safety Commission; 675 IAC 16-2-3; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3414)*

675 IAC 16-2-4 Code requirements; definitions

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7-2-9

Sec. 4. (a) Change section 4.1.6, code requirements, to read as follows: Installation shall be in accordance with the manufacturers' installation instructions and the plumbing code.

(b) Delete the first sentence of section 5.0. Definitions. *(Fire Prevention and Building Safety Commission; 675 IAC 16-2-4; filed Jun 30, 1999, 2:53 p.m.: 22 IR 3414)*

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