

(Published in the Topeka Metro News April 23, 2008)

ORDINANCE NO. 19071

AN ORDINANCE introduced by City Manager Norton N. Bonaparte, Jr., concerning the Uniform Plumbing Code, amending City of Topeka Code Chapter 26, Article VIII, Division 1 and Division 2, §§ 406 to 444.

BE IT ORDAINED BY THE COUNCIL OF THE CITY OF TOPEKA, KANSAS:

Section 1. That Chapter 26, Article VIII, Division 1 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-406, which said section reads as follows:

Uniform Plumbing Code--Adopted.

(a) The Uniform Plumbing Code, 2006 Edition, is hereby adopted by reference and made part of the code for the city. The 2006 Illustrated Training Manual and the 2006 Answers and Analysis Manual as published by the International Association of Plumbing and Mechanical Officials, may be considered and applied by the Authority Having Jurisdiction to the extent necessary in the authority's sole discretion to implement and enforce this code.

(b) The following appendixes are hereby adopted:

Appendix A--Recommended Rules for Sizing the Water Supply System

Appendix B--Explanatory Notes on Combination Waste and Vent Systems

Appendix D--Sizing Stormwater Drainage Systems

Appendix E--Manufactured/Mobile Home Parks and Recreational Vehicle Parks

Appendix I--Installation Standards

Appendix K--Private Sewage Disposal Systems

28 Section 2. That Chapter 26, Article VIII, Division 1 of the Code of the City of
29 Topeka, is hereby amended by adding a section to be numbered 26-407, which said
30 section reads as follows:

31 **Authority Having Jurisdiction designated.**

32 Whenever the term “Authority Having Jurisdiction” is used in the code, it shall be
33 construed to mean the development services director or his or her designee.

34 Section 3. That Chapter 26, Article VIII, Division 1 of the Code of the City of
35 Topeka, is hereby amended by adding a section to be numbered 26-408, which said
36 section reads as follows:

37 **Same—Copies on file in clerk’s office.**

38 At least one copy of the Uniform Plumbing Code as adopted shall be on file with
39 the city clerk to be available for inspection by the public at all reasonable business
40 hours. The administrative departments of the city charged with the duty of enforcement
41 of this article shall be supplied, at the cost of the city, such a number of copies of the
42 code as may be deemed necessary by the respective department heads.

43 Section 4. That Chapter 26, Article VIII, Division 2 of the Code of the City of
44 Topeka, is hereby amended by adding a section to be numbered 26-410, which said
45 section reads as follows:

46 **Generally.**

47 The amendments to the Uniform Plumbing Code adopted herein shall be set out
48 in this division. All references to section and chapter numbers in the text of this division
49 shall be construed as if followed by the words “of the Uniform Plumbing Code,” unless
50 clearly indicated to the contrary.

51 Section 5. That Chapter 26, Article VIII, Division 2 of the Code of the City of
52 Topeka, is hereby amended by adding a section to be numbered 26-411, which said
53 section reads as follows:

54 **101.4.1.4 Conflict Between Codes** is hereby deleted in its entirety and the
55 following provisions shall be substituted therefore:

56 *Conflict Between Codes.* When the requirements within the jurisdiction of this
57 plumbing code conflict with the requirements of the mechanical code, the more
58 restrictive code shall prevail.

59 Section 6. That Chapter 26, Article VIII, Division 2 of the Code of the City of
60 Topeka, is hereby amended by adding a section to be numbered 26-411.5, which said
61 section reads as follows:

62 **101.5.6 Moved Buildings** is hereby deleted in its entirety and the following
63 provisions shall be substituted therefore:

64 *Moved Buildings.* Plumbing systems, that are part of buildings or structures
65 moved into this jurisdiction shall comply with the provisions of City of Topeka Code,
66 Chapter 112, Article III, Property Maintenance Standards.

67 Section 7. That Chapter 26, Article VIII, Division 2 of the Code of the City of
68 Topeka, is hereby amended by adding a section to be numbered 26-412, which said
69 section reads as follows:

70 **103.1.2 Exempt Work** is hereby deleted in its entirety and the following
71 provisions shall be substituted therefore:

72 *Exempt Work.* A permit shall not be required for the following:

73 **103.1.2.1** The clearing of stoppages, including the removal and
74 reinstallation of water closets.

75 **103.1.2.2** The stopping of leaks in drains, soil, waste, or vent pipe;
76 provided, however, that should any trap, drainpipe, soil, waste, or vent pipe
77 become defective and it becomes necessary to remove and replace with new
78 material exceeding five (5) feet in length, the same shall be considered as new
79 work and a permit shall be procured and inspection made as provided in this
80 code.

81 **103.1.2.3** The repairing of leaks in pipes, valves, or fixtures, provided
82 such repairs do not involve or require the replacement or rearrangement of
83 valves, pipes, or fixtures exceeding five (5) feet in length. Provided, however, no
84 permit shall be required for replacement of faucets and plumbing fixtures
85 common to all residential bathrooms and residential kitchens.

86 **103.1.2.4** Exemption from the permit requirements of this code shall not
87 be deemed to grant authorization for any work to be done in violation of the
88 provisions of the code or any other laws or ordinances of this jurisdiction.

89 Section 8. That Chapter 26, Article VIII, Division 2 of the Code of the City of
90 Topeka, is hereby amended by adding a section to be numbered 26-412.5, which said
91 section reads as follows:

92 **103.4 Fees** is hereby deleted in its entirety.

93 Section 9. That Chapter 26, Article VIII, Division 2 of the Code of the City of
94 Topeka, is hereby amended by adding a section to be numbered 26-413, which said
95 section reads as follows:

Chapter 2, Definitions is hereby amended by the addition of the following language:

Toilet Facility. A restroom consisting of one (1) water closet and one (1) lavatory.

Section 10. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-414, which said section reads as follows:

313.12.4 is hereby deleted in its entirety.

Section 11. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-415, which said section reads as follows:

315.4 is hereby deleted in its entirety and the following provisions shall be substituted therefore:

All excavations shall be completely backfilled as soon after inspection as possible. To ensure adequate bedding of piping and prevent damage to such piping, trenches shall be backfilled in thin layers to twelve (12) inches above the top of the piping with clean earth, which shall not contain stones, boulders, cinderfill or other materials which would damage or break the piping or cause corrosive action. Mechanical devices such as bulldozers, graders, etc., may then be used to complete backfill to grade. Fill shall be properly compacted under sidewalks, parking lots, driveways and similar situations. Mounding of sewer without compaction is an acceptable practice in open yards. Approved material for pipe bedding or plumbing underground and sanitary sewers shall be a minimum of one-quarter (1/4) inch washed rock or material of similar size. Sand is not an approved material.

Section 12. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-416, which said section reads as follows:

316.1.6 Solvent Cement Plastic Pipe Joints is hereby deleted in its entirety and the following provisions shall be substituted therefore:

Plastic pipe and fittings designed to be joined by solvent cementing shall comply with appropriate IAPMO Installation Standards.

ABS pipe and fittings shall be cleaned and then joined with solvent cement(s).

CPVC pipe and fittings shall be cleaned and then joined with listed primer(s) and solvent cement(s).

Exception: Listed solvent cements that do not require the use of primer shall be permitted for use with CPVC pipe and fittings, manufactured in accordance with ASTM D2846, one-half (1/2) inch through two (2) inches in diameter.

PVC pipe and fittings shall be cleaned and joined with primer(s) and solvent cement(s). Provided, one step cements for non-pressure PVC, drain, waste and vent piping that comply with the requirements of ASTM D2564-96(a), ASTM F493-92 and ASTM F656-96(a) may be used without the use of primer.

A solvent cement transition joint between ABS and PVC building drain or building sewer shall be made using a listed transition solvent cement.

Section 13. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-417, which said section reads as follows:

402.4 Metered Faucets is hereby deleted in its entirety.

Section 14. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-418, which said section reads as follows:

404.2 Connections is hereby deleted in its entirety and the following provisions shall be substituted therefore:

Connections. Fixtures having concealed slip joint connections shall be provided with a framed area no less than 12" X 18" to be used for access. This area may be covered with wallboard, paneling or other interior wall finishes.

Section 15. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-419, which said section reads as follows:

411.1 is hereby deleted in its entirety and the following provisions shall be substituted therefore:

Floor drains shall be considered plumbing fixtures and each such drain shall be provided with an approved type strainer having a waterway equivalent to the area of the tailpiece. Floor drains, floor receptors, and shower drains shall be of an approved type, vented properly and suitably flanged to provide a watertight joint to the floor.

Special provisions: In group "R" occupancies, individual floor drains shall not be required to be vented, unless the length of the trap arm exceeds fifteen (15) feet from a vented line. In all other occupancies, individual floor drains shall not be required to be vented unless the length of the trap arm exceeds fifteen (15) feet from a vented line with a maximum of four (4) unvented floor drains per building waste system. When combination waste and vent systems are being utilized, this provision shall not apply.

Section 16. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-420, which said section reads as follows:

412.1 Fixture Count is hereby deleted in its entirety and the following provisions shall be substituted therefore:

Fixture Count. Plumbing fixtures shall be provided for the type of building occupancy and in the minimum number shown in Table 2902.1 of the International Building Code, 2006 Edition and the City of Topeka Code § 26-160.

Section 17. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-421, which said section reads as follows:

Table 4-1, Minimum Plumbing Facilities is hereby deleted in its entirety.

Section 18. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-422, which said section reads as follows:

508.4 is hereby deleted in its entirety and the following provisions shall be substituted therefore:

When a water heater is located in an attic, attic-ceiling assembly, floor-ceiling assembly, or floor-subfloor assembly where damage may result from a leaking water heater, a watertight pan plastic or non-corrosive materials having a minimum size of twenty-four (24) inches square or twenty-four (24) inches in diameter with a minimum two (2) inch lip shall be installed beneath the water heater with a minimum three-quarter (3/4) inch (20 mm) diameter drain to an approved location.

188 Section 19. That City of Topeka Code § 26, Article VIII, Division 2, Uniform
189 Plumbing Code That Chapter 26, Article VIII, Division 2 of the Code of the City of
190 Topeka, is hereby amended by adding a section to be numbered 26-422.1, which said
191 section reads as follows:

192 **508.5 Relief Valve Discharge** is hereby deleted in its entirety and the following
193 provisions shall be substituted therefore:

194 *Relief Valve Discharge.* Discharge from a relief valve into a water heater pan
195 shall be prohibited. Provided, however, relief valves on water heaters in multiple story
196 residential units, each having an individual tank, may discharge into a water heater pan
197 if the pan is provided with a full two (2) inch vented floor drain, is connected to the
198 building drain and vent system, and provisions are made to ensure that the trap is
199 properly primed. Water heater relief valves on water heaters installed over a crawl
200 space may discharge into a water heater pan if the pan is provided with a full two (2)
201 inch floor drain and that drain is extended to the exterior of the building. The relief valve
202 may not discharge directly into the crawl space.

203 Section 20. That Chapter 26, Article VIII, Division 2 of the Code of the City of
204 Topeka, is hereby amended by adding a section to be numbered 26-423, which said
205 section reads as follows:

206 **603.3.4** is hereby deleted in its entirety and the following provisions shall be
207 substituted therefore:

208 Access and clearance shall be provided for the required testing, maintenance,
209 and repair. Access and clearance shall require a minimum of one (1) foot (305 mm)
210 between the lowest portion of the assembly and grade, floor, or platform. Installations

elevated more than five (5) feet (1524 mm) above the floor or grade shall be provided with a permanent platform capable of supporting a tester or maintenance person. Authority Having Jurisdiction approval is required before backflow devices are installed at an elevation of six (6) feet or more above the floor or grade.

Section 21. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-423.3, which said section reads as follows:

603.4.6.1 is hereby deleted in its entirety and the following provisions shall be substituted therefore:

Potable water supplies to systems having no pumps or connections for pumping equipment, and no chemical injection or provisions for chemical injection, shall be protected from backflow by one of the following devices:

- (1) Atmospheric vacuum breaker;
- (2) Pressure vacuum breaker;
- (3) Spill-resistant pressure vacuum breaker;
- (4) Reduced pressure backflow preventer; or
- (5) Approved double-check valve assembly.

Section 22. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-423.6, which said section reads as follows:

603.4.12 is hereby deleted in its entirety and the following provisions shall be substituted therefore:

Potable water supply to carbonators shall be protected by a listed stainless steel reduced pressure principle backflow preventer as approved by the Authority Having Jurisdiction for the specific use.

Section 23. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-424, which said section reads as follows:

Table 6-5 is hereby deleted in its entirety and the following provisions shall be substituted therefore:

TABLE 6-5
Water Supply Fixture Units (WSFU) and Minimum Fixture Branch Pipe Sizes³

<u>APPLIANCES, APPURTENANCES OR FIXTURES²</u>	<u>MINIMUM FIXTURE BRANCH PIPE SIZE^{1,4}</u>	<u>PRIVATE</u>	<u>PUBLIC</u>	<u>ASSEMBLY⁶</u>
<u>Bathtub or Combination Bath/Shower (fill)</u>	<u>1/2 "</u>	<u>4.0</u>	<u>4.0</u>	
<u>3/4 " Bathtub Fill Valve</u>	<u>3/4 "</u>	<u>10.0</u>	<u>10.0</u>	
<u>Bidet</u>	<u>1/2 "</u>	<u>1.0</u>		
<u>Clothes washer, each pair of faucets</u>	<u>1/2 "</u>	<u>2.0</u>	<u>4.0</u>	
<u>Dental unit, cuspidor</u>	<u>1/2 "</u>		<u>1.0</u>	
<u>Dishwasher, domestic</u>	<u>1/2 "</u>	<u>1.5</u>	<u>1.5</u>	
<u>Drinking Fountain or Watercooler</u>	<u>1/2 "</u>	<u>0.5</u>	<u>0.5</u>	<u>0.75</u>
<u>Hose Bibb</u>	<u>1/2 "</u>	<u>2.5</u>	<u>2.5</u>	
<u>Hose Bibb, each additional⁸</u>	<u>1/2 "</u>	<u>1.0</u>	<u>1.0</u>	
<u>Lavatory</u>	<u>1/2 "</u>	<u>1.0</u>	<u>1.0</u>	<u>1.0</u>

<u>Lawn Sprinkler, each head</u>	<u>See footnote 5 and 9</u>	<u>See footnote 5 and 9</u>		
<u>Mobile Home, each (minimum)</u>		<u>12.0</u>		
<u>SINKS</u>				
<u>Bar</u>	<u>1/2 "</u>	<u>1.0</u>	<u>2.0</u>	
<u>Clinic Faucet</u>	<u>1/2 "</u>		<u>3.0</u>	
<u>Clinic Flushometer Valve</u> <u>With or without faucet</u>	<u>1 "</u>		<u>8.0</u>	
<u>Kitchen, domestic</u>	<u>1/2 "</u>	<u>1.5</u>	<u>1.5</u>	
<u>Laundry</u>	<u>1/2 "</u>	<u>1.5</u>	<u>1.5</u>	
<u>Service or Mop Basin</u>	<u>1/2 "</u>	<u>1.5</u>	<u>3.0</u>	
<u>Washup, each set of faucets</u>	<u>1/2 "</u>		<u>2.0</u>	
<u>Shower, per head</u>	<u>1/2 "</u>	<u>2.0</u>	<u>2.0</u>	
<u>Urinal, 1.0 GPF Flushometer Valve</u>	<u>3/4 "</u>	<u>See footnote 7</u>		
<u>Urinal, greater than 1.0 GPF Flushometer Valve</u>	<u>3/4 "</u>	<u>See footnote 7</u>		
<u>Urinal, flush tank</u>	<u>1/2 "</u>	<u>2.0</u>	<u>2.0</u>	<u>3.0</u>
<u>Washfountain, circular spray</u>	<u>3/4 "</u>		<u>4.0</u>	
<u>Water Closet, 1.6 GPF Gravity Tank</u>	<u>1/2 "</u>	<u>2.5</u>	<u>2.5</u>	<u>3.5</u>
<u>Water Closet, 1.6 GPF Flushometer Tank</u>	<u>1/2 "</u>	<u>2.5</u>	<u>2.5</u>	<u>3.5</u>
<u>Water Closet, 1.6 GPF Flushometer Valve</u>	<u>1 "</u>	<u>See footnote 7</u>		
<u>Water Closet, greater than 1.6 GPF Gravity Tank</u>	<u>1/2 "</u>	<u>3.0</u>	<u>5.5</u>	<u>7.0</u>
<u>Water Closet, greater than 1.6 GPF Flushometer Valve</u>	<u>1 "</u>	<u>See footnote 7</u>		

Notes:

1. Size of the cold branch pipe, or both the hot and cold branch pipes.

2. Appliances, Appurtenances or Fixtures not included in this Table may be sized by reference to the fixtures having a similar flow rate and frequency of use.
3. The listed fixture unit values represent their load on their cold water service. The separate cold water and hot water fixture unit value for fixtures having both hot and cold water connections may each be taken as three-quarter (3/4) of the listed total value of the fixture.
4. The listed minimum supply branch pipe sizes for individual fixtures are the nominal (I.D.) pipe size.
5. For fixtures or supply connections likely to impose continuous flow demands, determine the required flow in gallons per minute (GPM), and add it separately to the demand (in GPM) for the distribution system or portions thereof.
6. Assembly [Public Use (See Table 4-1)].
7. When sizing flushometer systems, see Section 610.10.
8. Reduced fixture unit loading for additional hose bibs is to be used only when sizing total building demand and for pipe sizing when more than one hose bibb is supplied by a segment of water-distributing pipe. The fixture branch to each hose bibb shall be sized on the basis of 2.5 fixture units.
9. The water supply for lawn sprinkler/irrigation system shall be sized by the total gallons per minute (GPM) required on the largest zone using Appendix A. The size of the water service for structures adding a lawn irrigation/sprinkler system shall be calculated by adding the total gallons per

minute flow required for the largest zone on the lawn irrigation/sprinkler system to the total gallons per minute flow for the structure. Size of the service shall be determined by utilizing all applicable requirements found in Appendix A and/or Chapter 6.

Section 24. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-425, which said section reads as follows:

605.2 is hereby deleted in its entirety and the following provisions shall be substituted therefore:

A fullway valve controlling all outlets shall be installed on the discharge side of each water meter and on each unmetered water supply. Water piping supplying more than one building on any one premises shall be equipped with a separate fullway valve to each building, so arranged that the water supply can be turned on or off to any individual or separate building; provided, however, that supply piping to a single-family residence and building accessory thereto may be controlled on one valve. Such shutoff valves shall be accessible at all times. A fullway valve shall be installed on the discharge piping from water supply tanks at or near the tank. A fullway valve shall be installed on the cold water supply pipe to each water heater at or near the water heater.

All buildings shall have an accessible fullway valve immediately inside the structure or basement controlling all outlets within the structure. This valve may be enclosed, if the access panel can be removed without the use of tools. Structures with crawl spaces shall have a control valve located either in the crawl space within two (2) feet of the crawl space opening or in an accessible location within the living space.

293 Section 25. That Chapter 26, Article VIII, Division 2 of the Code of the City of
294 Topeka, is hereby amended by adding a section to be numbered 26-425.5, which said
295 section reads as follows:

296 605.5 is hereby deleted in its entirety and the following provisions shall be
297 substituted therefore:

298 A control valve shall be installed immediately ahead of each water-supplied
299 appliance and immediately ahead of each slip joint or appliance supply.

300 Parallel water distribution systems shall provide a control valve either
301 immediately ahead of each fixture being supplied or installed at the manifold and shall
302 be identified with the fixture being supplied.

303 Water softening/conditioning equipment, not factory equipped with integral
304 bypass valves shall be required to have fullway type bypass valves of non corrosive
305 material installed.

306 Section 26. That Chapter 26, Article VIII, Division 2 of the Code of the City of
307 Topeka, is hereby amended by adding a section to be numbered 26-426, which said
308 section reads as follows:

309 606.1.2 Mechanical Joints is hereby deleted in its entirety and the following
310 provisions shall be substituted therefore:

311 Mechanical Joints. Mechanical joints for cast-iron water pipe shall conform to
312 nationally recognized standards. Compression mechanical joints for copper water
313 services shall be constructed of brass, have rubber or brass compression ring, and a
314 brass retaining screw and shall meet ASTM B62 specifications.

Section 27. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-427, which said section reads as follows:

610.2 is hereby deleted in its entirety and the following provisions shall be substituted therefore:

Whenever a water filter, water softener, backflow prevention device, or similar device is installed in any water supply line, the pressure loss through such devices shall be included in the pressure loss calculations of the system, and the water supply pipe and meter shall be adequately sized to provide for any such pressure loss.

No water filter, water softener, backflow prevention device, or similar device regulated by this code shall be installed in any potable water supply piping when the installation of such device produces an excessive pressure drop in any such water supply piping. In the absence of specific pressure drop information, the diameter of the inlet or outlet of any such device or its connecting piping shall not be less than the diameter of such water distribution piping to the fixtures serviced by the device.

All such devices shall be of a type approved by the Authority Having Jurisdiction and shall be tested for flow rating and pressure loss by an approved laboratory or recognized testing agency to standards consistent with the intent of this chapter.

Water softener installations. Individuals licensed under City of Topeka Code Section 26-254 working in the water softening/conditioning trade shall be allowed to install water softening/conditioning appliances and connect them to the potable water supply lines. The licensed individual may install up to ten (10) feet of pipe horizontally for each connection plus the licensed individual may install pipe in a vertical drop to the

appliance. Piping from the water softening/conditioning appliance to any fixture shall be done by a licensed plumbing contractor.

Section 28. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-427.5, which said section reads as follows:

610.8 Size of Meter and Building Supply Pipe Using Table 6-5 is hereby deleted in its entirety and the following provisions shall be substituted therefore:

Size of Meter and Building Supply Pipe Using Table 6-6. The size of the meter and the building supply pipe shall be determined as follows:

- (1) Determine the available pressure at the water meter or other source of supply.
- (2) Subtract one-half (1/2) pound per square inch pressure (3.4 kPa) for each foot (305 mm) of difference in elevation between such source of supply and the highest water supply outlet in the building or on the premises.
- (3) Use the "pressure range" group within which this pressure will fall using Table 6-6.
- (4) Select the "length" column that is equal to or longer than the required length.
- (5) Follow down the column to a fixture unit value equal to or greater than the total number of fixture units required by the installation.
- (6) Having located the proper fixture unit value for the required length, sizes of meter and building supply pipe as found in the two left-hand columns shall be applied.

No building supply pipe shall be less than three-quarter (3/4) inch (20 mm) in diameter; provided, however, in residential remodeling a maximum of twenty-eight (28) fixture units shall be allowed to be connected to an existing three-quarter (3/4) inch (20 mm) water service. Houses or apartments that are one thousand (1,000) square feet in area or larger shall have a minimum one (1) inch (25 mm) water meter and service line.

Section 29. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-428, which said section reads as follows:

705.1.10 ETCO “T” Cone and Couple Adapters is hereby created by the addition of the following language:

ETCO “T” Cone and Couple Adapters. The use of this type of clay tile to plastic adapter is limited to sanitary sewer installations and may only be used for the connection of the building sewer to the clay tile sewer main wye or tap. The joint and connecting pipe shall be installed at no more than twenty-two (22) degrees from the horizontal and shall be laid on undisturbed ground or a firm bed of one-quarter (1/4) inch crushed rock or similar material. The crushed rock shall be no less than one-quarter (1/4) inch nor greater than three-quarter (3/4) inch.

Section 30. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-429, which said section reads as follows:

707.4 is hereby deleted in its entirety and the following provisions shall be substituted therefore:

Each horizontal drainage pipe shall be provided with a cleanout at its upper terminal, and each run of piping, that is more than one hundred (100) feet (30,380 mm) in total developed length, shall be provided with a cleanout for each one hundred (100) feet (30,480 mm), or fraction thereof, in length of such piping.

Exceptions:

- (1) Cleanouts may be omitted on a horizontal drain line less than five (5) feet (1524 mm) in length unless such line is serving sinks or urinals.
- (2) Cleanouts may be omitted on any horizontal drainage pipe installed on a slope of seventy-two (72) degrees (1.26 rad) or less from the vertical angle (angle of one-fifth (1/5) bend).
- (3) Excepting the building drain and its horizontal branches, a cleanout shall not be required on any pipe or piping that is above the floor level of the lowest floor of the building.
- (4) An approved type of two-way cleanout fitting, installed inside the building wall near the connection between the building drain and the building sewer or installed outside of a building at the lower end of a building drain and extended to grade, may be substituted for an upper terminal cleanout.
- (5) A cleanout shall be installed above the flood level rim of all urinals with integral traps.

Section 31. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-430, which said section reads as follows:

710.1 is hereby deleted in its entirety.

Section 32. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-431, which said section reads as follows:

712.2 Water Test is hereby deleted in its entirety and the following provisions shall be substituted therefore:

Water Test. Water test for drain, waste and vent. The water test shall be applied to the drainage and vent system either in its entirety or in sections. If applied to the entire system, all openings in the piping shall be tightly closed, except the highest opening, and the system filled with water to a point of overflow. If the system is tested in sections, each opening shall be tightly plugged except the highest opening of the section under test, and each section shall be filled with water, but no section shall be tested with less than five (5) feet (1.5 m) head of water. In testing successive sections, at least the upper five (5) feet (1.5 m) of the next preceding section shall be tested, so that no joint or pipe in the building (except the uppermost five (5) feet (1.5 m) of the system) shall be submitted to a test of less than five (5) foot (1.5 m) head of water. The water test shall be kept in the system, or in the portion under test, for at least fifteen (15) minutes before the inspection starts. The system shall then be tight at all points.

Section 33. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-432, which said section reads as follows:

723.0 Building Sewer Test is hereby deleted in its entirety and the following provisions shall be substituted therefore:

Building Sewer Test. Building sewers shall be tested if in the opinion of the Authority Having Jurisdiction the building sewer is deteriorated, damaged or may not be watertight due to improper installation. If required, testing shall be done by plugging the end of the building sewer at its points of connection with the public sewer or private sewage disposal system and completely filling the building sewer with water from the lowest to the highest point thereof, or by approved equivalent low-pressure air test. The building sewer shall be watertight at all points.

Section 34. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-433, which said section reads as follows:

807.4 is hereby deleted in its entirety and the following provisions shall be substituted therefore:

Domestic dishwashers may be installed without an air-gap fitting on the discharge side of the dishwashing machine provided the waste hose is securely fastened to the bottom side of the countertop.

Section 35. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-434, which said section reads as follows:

905.2 is hereby deleted in its entirety and the following provisions shall be substituted therefore:

Where vents connect to a horizontal drainage pipe, each vent pipe shall have its invert taken off above the drainage centerline, by way of a wye fitting downstream of the trap being served. A sanitary tee may be installed as a dry vent in a true vertical

position (not less than ninety (90) degrees from horizontal) and shall not deviate from the vertical until it is six (6) inches above the flood rim of the fixture being served.

Section 36. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-435, which said section reads as follows:

908.4.1 Where permitted is hereby deleted in its entirety and the following provisions shall be substituted therefore:

Where permitted. Water closets, bathtubs, showers, and floor drains within one (1) or two (2) bathrooms located back-to-back or side-by-side on the same floor level in dwellings and guest rooms shall be permitted to be vented by a horizontal 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 flow in the drain pipe to the most downstream fixture drain connection to the horizontal branch drain. Only the fixtures within the bathroom(s) shall connect to the wet vented horizontal branch drain. Any additional fixtures shall discharge downstream of the wet vent system and be conventionally vented. Trap arm lengths shall comply with Table 10-1.

Section 37. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-435.1, which said section reads as follows:

908.4.2 Vent Connection is hereby deleted in its entirety and the following provisions shall be substituted therefore:

Vent Connection. The wet vent connection to the horizontal branch drain shall have its invert taken off above the drainage centerline of the drain being served. The

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

Section 38. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-436, which said section reads as follows:

1001.1 is hereby deleted in its entirety and the following provisions shall be substituted therefore:

Each plumbing fixture, excepting those having integral traps or as permitted in Section 1001.2, shall be separately trapped by an approved type of waterseal trap. Not more than one (1) trap shall be permitted on a trap arm; provided, however, a separate trap may be installed on each compartment of a domestic kitchen sink with the waste discharging into a single trap arm.

Section 39. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-437, which said section reads as follows:

1007.0 Trap Seal Protection is hereby deleted in its entirety and the following provisions shall be substituted therefore:

Trap Seal Protection. Floor drain or similar traps directly connected to the drainage system and subject to infrequent use shall be protected with a trap seal primer, except where not deemed necessary for safety or sanitation by the Authority Having Jurisdiction. Trap seal primers shall be accessible for maintenance; provided, however, automatic means of protecting a trap seal shall not be required when a written schedule of trap seal maintenance is submitted to and approved by the Authority Having

Jurisdiction. Failure to maintain a proper trap seal when allowed under this exception will result in the Authority Having Jurisdiction requiring the installation of an automatic trap primer.

Section 40. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-438, which said section reads as follows:

1014.1.3 Food Waste Disposal Units and Dishwashers is hereby deleted in its entirety and the following provisions shall be substituted therefore:

Food Waste Disposal Units and Dishwashers. Unless specifically required or permitted by the Authority Having Jurisdiction, no food waste disposal unit or dishwasher shall be connected to or discharge into a hydromechanical grease interceptor. Food waste disposal units and dishwashers shall be required to discharge into a gravity grease interceptor.

Section 41. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-438.1, which said section reads as follows:

1014.1.4 Exceptions is hereby created by the addition of the following language:

Exceptions. An exemption to the grease interceptor requirement may be requested by written application to the Authority Having Jurisdiction. This exception shall only apply to the remodeling of existing facilities where physical limitations make the installation of a gravity grease interceptor impractical. The written application for the exception shall contain the following conditions:

- (1) The owner will install a testing manhole, meeting the requirements promulgated by the Water Pollution Control Division;
- (2) The owner will agree to pay for two random sample tests per year or the owner will agree to pay the cost of sewer line cleaning as deemed necessary by the Water Pollution Control Division; and
- (3) The owner will install a grease interceptor, remove the fixture or fixtures, or cease operation if the grease exceeds the current limits or a significant grease problem develops downstream of the establishment.

Section 42. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-439, which said section reads as follows:

1101.9 Filling Stations and Motor Vehicle Washing Establishments is hereby deleted in its entirety.

Section 43. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-440, which said section reads as follows:

1209.5.2.3 is hereby deleted in its entirety and the following provisions shall be substituted therefore:

Copper and brass pipe shall not be used if the gas contains more than an average of 0.3 grains of hydrogen sulfide per 100 scf of gas (0.7 mg/100L). Copper or brass pipe shall only be allowed if the natural gas supplier shall warrant in writing that the hydrogen sulfide content of the gas shall at all times be below the aforementioned amount. Therefore copper and copper alloy pipe and fittings may not be used within the

city limits of Topeka. All references in the 2006 Uniform Plumbing Code, to copper pipe and tubing as a material acceptable for gas piping as well as the brazing and sizing requirements for copper are hereby repealed.

Section 44. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-440.3, which said section reads as follows:

1209.5.8.1 Pipe Joints is hereby deleted in its entirety and the following provisions shall be substituted therefore:

Pipe Joints. Pipe joints shall be threaded, flanged, brazed, or welded. Where nonferrous pipe is brazed, the brazing materials shall have a melting point in excess of 1,000° F (538° C). Brazing alloys shall not contain more than 0.05 percent phosphorus. (NFPA 54:5.6.8.1) Welded joints on ferrous piping shall be performed by individuals licensed as journeymen in the plumbing or mechanical trade with a current certification of welding competency from a state recognized testing agency. The testing requirements for the welder's competency shall be based on the requirements of the ASME Boiler and Pressure Vessel Code, Section IX.

Section 45. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-440.6, which said section reads as follows:

1209.5.9 Plastic Piping, Joints, and Fittings is hereby deleted in its entirety and the following provisions shall be substituted therefore:

Plastic Piping, Joints, and Fittings. Plastic pipe, tubing, and fittings shall be joined in accordance with the manufacturers' instructions. The following shall be observed when making such joints: [NFPA 54:5.6.9]

(A) The joint shall be designed and installed so that the longitudinal pullout resistance of the joint will be at least equal to the tensile strength of the plastic piping material.

(B) Heat-fusion joints shall be made in accordance with qualified procedures that have been established and proven by test to produce gastight joints at least as strong as the pipe or tubing begin joined. Joints shall be made with the joining method recommended by the pipe manufacturer. Heat-fusion fittings shall be marked "ASTM D 2513." All joints in approved heat fusion welded plastic gas piping shall be performed by individuals who are licensed as journeyman in the plumbing or mechanical trade and certified to do heat fusion welding by the manufacturer of the piping being installed.

(C) Where compression-type mechanical joints are used, the gasket material in the fitting shall be compatible with the plastic piping and with the gas distributed by the system. An internal tubular rigid stiffener shall be used in conjunction with the fitting. The stiffener shall be flush with the end of the pipe or tubing and shall extend at least to the outside end of the pipe or tubing and shall extend at least to the outside end of the compression fitting when installed. The stiffener shall be free of rough or sharp edges and shall not be a forced fit in the plastic. Split tubular stiffeners shall not be used.

(D) Plastic piping joints and fittings for use in liquefied petroleum gas-piping systems shall be in accordance with *Liquefied Petroleum Gas Code, NFPA 58.*

Section 46. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-441, which said section reads as follows:

1212.4 Equipment Shutoff Valves and Connections is hereby deleted in its entirety and the following provisions shall be substituted therefore:

Equipment Shutoff Valves and Connections. Gas utilization equipment connected to a piping system shall have an accessible, approved manual shutoff valve with a nondisplaceable valve member, or a listed gas convenience outlet [NFPA 54: 9.6.4], installed within six (6) feet (1.8 m) of the equipment it serves. Where a connector is used, the valve shall be installed upstream of the connector. A union or flanged connection shall be provided downstream from this valve to permit removal of controls.

Section 47. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-442, which said section reads as follows:

1214.3 Test Pressure is hereby deleted in its entirety and the following provisions shall be substituted therefore:

Test Pressure. This test shall be made after all piping authorized by the permit has been installed and after all portions thereof which are to be covered or concealed are so concealed and before any fixtures, appliance, or shutoff valve has been attached thereto. This inspection shall include an air, CO₂, or nitrogen pressure test, at which time the gas piping shall withstand a pressure of (10) pounds per square inch (68.9 kPa) gauge pressure, or at such greater test pressure specified by the Authority Having Jurisdiction. Test pressures shall be held for a length of time satisfactory to the

Authority Having Jurisdiction, but in no case less than fifteen (15) minutes, with no perceptible drop in pressure. For welded piping, and for piping carrying gas at pressures in excess of fourteen (14) inches (356 mm) water column pressure, the test pressure shall not be less than sixty (60) pounds per square inch (413.4 kPa) and shall be continued for a length of time satisfactory to the Authority Having Jurisdiction but in no case less than thirty (30) minutes.

Section 48. That Chapter 26, Article VIII, Division 2 of the Code of the City of Topeka, is hereby amended by adding a section to be numbered 26-443, which said section reads as follows:

Appendix I, Installation Standards—IS 9-2003 Section 2.7.6 Primers is hereby deleted in its entirety and the following provisions shall be substituted therefore:

Primers. A listed primer in compliance with ASTM F 656 shall be used on all PVC DWV joints. Provided, however one step cements for non-pressure PVC, Drain, Waste and Vent piping that comply with the requirements in ASTM D2564-96(a), ASTM F493-92 and ASTM F656-96(a) may be used without the use of primer.

Section 49. This ordinance shall take effect and be in force ninety (90) days after its passage, approval and publication in the official City newspaper.

PASSED AND APPROVED by the City Council April 15, 2008.

CITY OF TOPEKA, KANSAS

William W. Bunten, Mayor

ATTEST:

Brenda Younger, City Clerk