

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

2
3 **ORDINANCE NO. 19071**

4
5 AN ORDINANCE introduced by City Manager Norton N. Bonaparte, Jr., concerning
6 the Uniform Plumbing Code, amending City of Topeka Code
7 Chapter 26, Article VIII, Division 1 and Division 2, §§ 406 to 444.
8

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

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

14 **Uniform Plumbing Code--Adopted.**

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

21 (b) The following appendixes are hereby adopted:

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

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

24 Appendix D--Sizing Stormwater Drainage Systems

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

26 Appendix I--Installation Standards

27 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:

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

97 language:

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

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

102 313.12.4 is hereby deleted in its entirety.

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

106 315.4 is hereby deleted in its entirety and the following provisions shall be
107 substituted therefore:

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

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

122 **316.1.6 Solvent Cement Plastic Pipe Joints** is hereby deleted in its entirety
123 and the following provisions shall be substituted therefore:

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

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

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

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

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

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

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

141 **402.4 Metered Faucets** is hereby deleted in its entirety.

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

145 **404.2 Connections** is hereby deleted in its entirety and the following provisions
146 shall be substituted therefore:

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

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

153 **411.1** is hereby deleted in its entirety and the following provisions shall be
154 substituted therefore:

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

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

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

168 **412.1 Fixture Count** is hereby deleted in its entirety and the following provisions
169 shall be substituted therefore:

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

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

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

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

180 **508.4** is hereby deleted in its entirety and the following provisions shall be
181 substituted therefore:

182 When a water heater is located in an attic, attic-ceiling assembly, floor-ceiling
183 assembly, or floor-subfloor assembly where damage may result from a leaking water
184 heater, a watertight pan plastic or non-corrosive materials having a minimum size of
185 twenty-four (24) inches square or twenty-four (24) inches in diameter with a minimum
186 two (2) inch lip shall be installed beneath the water heater with a minimum three-quarter
187 (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

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

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

218 603.4.6.1 is hereby deleted in its entirety and the following provisions shall be
219 substituted therefore:

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

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

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

231 603.4.12 is hereby deleted in its entirety and the following provisions shall be
232 substituted therefore:

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

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

239 Table 6-5 is hereby deleted in its entirety and the following provisions shall be
 240 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 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>		

244

245

Notes:

246

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

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

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

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

277 605.2 is hereby deleted in its entirety and the following provisions shall be
278 substituted therefore:

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

288 All buildings shall have an accessible fullway valve immediately inside the
289 structure or basement controlling all outlets within the structure. This valve may be
290 enclosed, if the access panel can be removed without the use of tools. Structures with
291 crawl spaces shall have a control valve located either in the crawl space within two (2)
292 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.

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

318 610.2 is hereby deleted in its entirety and the following provisions shall be
319 substituted therefore:

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

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

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

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

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

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

343 **610.8 Size of Meter and Building Supply Pipe Using Table 6-5** is hereby
344 deleted in its entirety and the following provisions shall be substituted therefore:

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

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

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

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

369 **705.1.10 ETCO “T” Cone and Couple Adapters** is hereby created by the
370 addition of the following language:

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

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

381 **707.4** is hereby deleted in its entirety and the following provisions shall be
382 substituted therefore:

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

387 **Exceptions:**

- 388 (1) Cleanouts may be omitted on a horizontal drain line less than five (5) feet
389 (1524 mm) in length unless such line is serving sinks or urinals.
- 390 (2) Cleanouts may be omitted on any horizontal drainage pipe installed on a
391 slope of seventy-two (72) degrees (1.26 rad) or less from the vertical
392 angle (angle of one-fifth (1/5) bend).
- 393 (3) Excepting the building drain and its horizontal branches, a cleanout shall
394 not be required on any pipe or piping that is above the floor level of the
395 lowest floor of the building.
- 396 (4) An approved type of two-way cleanout fitting, installed inside the building
397 wall near the connection between the building drain and the building
398 sewer or installed outside of a building at the lower end of a building drain
399 and extended to grade, may be substituted for an upper terminal cleanout.
- 400 (5) A cleanout shall be installed above the flood level rim of all urinals with
401 integral traps.

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

405 710.1 is hereby deleted in its entirety.

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

409 **712.2 Water Test** is hereby deleted in its entirety and the following provisions
410 shall be substituted therefore:

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

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

426 **723.0 Building Sewer Test** is hereby deleted in its entirety and the following
427 provisions shall be substituted therefore:

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

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

438 807.4 is hereby deleted in its entirety and the following provisions shall be
439 substituted therefore:

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

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

446 905.2 is hereby deleted in its entirety and the following provisions shall be
447 substituted therefore:

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

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

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

456 **908.4.1 Where permitted** is hereby deleted in its entirety and the following
457 provisions shall be substituted therefore:

458 *Where permitted.* Water closets, bathtubs, showers, and floor drains within one
459 (1) or two (2) bathrooms located back-to-back or side-by-side on the same floor level in
460 dwellings and guest rooms shall be permitted to be vented by a horizontal wet vent.
461 The wet vent shall be considered the vent for the fixtures and shall extend from the
462 connection of the dry vent along the direction of flow in the drain pipe to the most
463 downstream fixture drain connection to the horizontal branch drain. Only the fixtures
464 within the bathroom(s) shall connect to the wet vented horizontal branch drain. Any
465 additional fixtures shall discharge downstream of the wet vent system and be
466 conventionally vented. Trap arm lengths shall comply with Table 10-1.

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

470 **908.4.2 Vent Connection** is hereby deleted in its entirety and the following
471 provisions shall be substituted therefore:

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

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

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

479 1001.1 is hereby deleted in its entirety and the following provisions shall be
480 substituted therefore:

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

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

489 1007.0 Trap Seal Protection is hereby deleted in its entirety and the following
490 provisions shall be substituted therefore:

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

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

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

503 **1014.1.3 Food Waste Disposal Units and Dishwashers** is hereby deleted in its
504 entirety and the following provisions shall be substituted therefore:

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

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

513 **1014.1.4 Exceptions** is hereby created by the addition of the following language:

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

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

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

530 **1101.9 Filling Stations and Motor Vehicle Washing Establishments** is
531 hereby deleted in its entirety.

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

535 **1209.5.2.3** is hereby deleted in its entirety and the following provisions shall be
536 substituted therefore:

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

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

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

548 **1209.5.8.1 Pipe Joints** is hereby deleted in its entirety and the following
549 provisions shall be substituted therefore:

550 *Pipe Joints.* Pipe joints shall be threaded, flanged, brazed, or welded. Where
551 nonferrous pipe is brazed, the brazing materials shall have a melting point in excess of
552 1,000° F (538° C). Brazing alloys shall not contain more than 0.05 percent phosphorus.
553 (NFPA 54:5.6.8.1) Welded joints on ferrous piping shall be performed by individuals
554 licensed as journeymen in the plumbing or mechanical trade with a current certification
555 of welding competency from a state recognized testing agency. The testing
556 requirements for the welder's competency shall be based on the requirements of the
557 ASME Boiler and Pressure Vessel Code, Section IX.

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

561 **1209.5.9 Plastic Piping, Joints, and Fittings** is hereby deleted in its entirety
562 and the following provisions shall be substituted therefore:

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

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

569 (B) Heat-fusion joints shall be made in accordance with qualified procedures
570 that have been established and proven by test to produce gastight joints at least as
571 strong as the pipe or tubing begin joined. Joints shall be made with the joining method
572 recommended by the pipe manufacturer. Heat-fusion fittings shall be marked "ASTM D
573 2513." All joints in approved heat fusion welded plastic gas piping shall be performed
574 by individuals who are licensed as journeyman in the plumbing or mechanical trade and
575 certified to do heat fusion welding by the manufacturer of the piping being installed.

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

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

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

589 **1212.4 Equipment Shutoff Valves and Connections** is hereby deleted in its
590 entirety and the following provisions shall be substituted therefore:

591 *Equipment Shutoff Valves and Connections.* Gas utilization equipment
592 connected to a piping system shall have an accessible, approved manual shutoff valve
593 with a nondisplaceable valve member, or a listed gas convenience outlet [NFPA 54:
594 9.6.4], installed within six (6) feet (1.8 m) of the equipment it serves. Where a connector
595 is used, the valve shall be installed upstream of the connector. A union or flanged
596 connection shall be provided downstream from this valve to permit removal of controls.

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

600 **1214.3 Test Pressure** is hereby deleted in its entirety and the following
601 provisions shall be substituted therefore:

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

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

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

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

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

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

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

627
628 CITY OF TOPEKA, KANSAS

629
630
631 _____
632 William W. Bunten, Mayor

633 ATTEST:
634
635
636 _____
637 Brenda Younger, City Clerk