

ORDINANCE NO. 4144

AN ORDINANCE OF THE CITY OF MESQUITE, TEXAS, AMENDING CHAPTER 5 OF THE CODE OF THE CITY OF MESQUITE, TEXAS, BY DELETING SECTIONS 5-186 AND 5-187 OF ARTICLE VI IN THEIR ENTIRETY AND ADDING NEW SECTIONS 5-186 AND 5-187 OF ARTICLE VI THEREBY ADOPTING THE INTERNATIONAL PLUMBING CODE, 2009 EDITION, AND PROVIDING CERTAIN ADDITIONS AND DELETIONS THERETO; PROVIDING FOR A REPEALER CLAUSE; PROVIDING FOR A SEVERABILITY CLAUSE; PROVIDING FOR A PENALTY NOT TO EXCEED TWO THOUSAND (\$2,000.00) DOLLARS FOR EACH OFFENSE; AND DECLARING AN EFFECTIVE DATE.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF MESQUITE, TEXAS:

SECTION 1: That Chapter 5 of the Code of the City of Mesquite, Texas, is hereby amended by deleting Sections 5-186 and 5-187 of Article VI in their entirety and adding new Sections 5-186 and 5-187 of Article VI to read as follows, in all other respects said Code, Chapter and Article to remain in full force and effect:

ARTICLE VI. PLUMBING CODE

DIVISION 1. GENERALLY

Sec. 5-186. Adopted.

The *International Plumbing Code*, 2009 Edition, a publication of the International Code Council (ICC), is hereby adopted and designated as the official plumbing code of the City of Mesquite to the same extent as if such Code were copied verbatim in this Article subject to the amendments prescribed in this Article. The Code shall be applicable to all construction, alterations, repairs and maintenance of all buildings, structures, materials and equipment related to the building industry in the city. A copy of the *International Plumbing Code*, 2009 Edition, and the amendments thereto shall be maintained in the office of the City Secretary as an original document and ordinance of the City.

Sec. 5-187. Amendments to the International Plumbing Code, 2009 Edition.

The following amendments are made to the *International Plumbing Code*, 2009 Edition:

- (1) *Table of Contents, Chapter 7, Section 714.* Amend by deleting the reference in its entirety and adding a new reference to read as follows:

Section 714 Engineered Drainage Design 67

- (2) *Chapter 1, Administration.*

- (a) *Section 102.8.* Amend by deleting the section in its entirety and adding a new Section 102.8 to read as follows:

Referenced codes and standards. The codes and standards referenced herein shall be those that are listed in Chapter 13 and such codes and standards, when specifically adopted, shall be considered part of the requirements of this code to the prescribed extent of each such reference. Where differences occur between provisions of this code and the referenced standards, the provisions of this code shall be the minimum requirements. Whenever amendments have been adopted to the referenced codes and standards, each reference to said code and standard shall be considered to reference the amendments as well. Any reference to NFPA 70 or the ICC Electrical Code shall mean the corresponding provision of the *National Electrical Code* as adopted.

- (b) *Sections 106.6.2 and 106.6.3.* Amend by deleting the sections in their entirety and adding new Sections 106.6.2 and 106.6.3 to read as follows:

1. *Section 106.6.2. Fee schedule.* The fees for all plumbing work shall be as adopted by resolution of the governing body of the City of Mesquite.
2. *Section 106.6.3. Fee refunds.* The Building Official shall establish a policy for authorizing fee refunds. Only the person to whom the City of Mesquite issued the plumbing permit can request a refund. Requests for plumbing permit fee refunds must be in writing, addressed to the Building Official, stating the reason for the refund. Only 80 percent of the total permit fee will be refunded if work has commenced.

- (c) *Section 109.1.* Amend by deleting the section in its entirety and adding a new Section 109.1 to read as follows:

Application for appeal. Any person shall have the right to appeal a decision of the Code Official to the Building Standards Board established in Section 5-25 according to the procedures and time for appeal set forth therein.

(3) *Chapter 3, General Regulations.*

- (a) *Section 305.6.1.* Amend by deleting the section in its entirety and adding a new Section 305.6.1 to read as follows:

Sewer depth. Building sewers shall be a minimum of 12 inches (304 mm) below grade.

- (b) *Section 305.9.* Amend by deleting the section in its entirety and adding a new Section 305.9 to read as follows:

Protection of components of plumbing system. Components of a plumbing system installed within three feet along alleyways, driveways, parking garages or other locations in a manner in which they would be exposed to damage shall be recessed into the wall or otherwise protected in an approved manner.

- (c) *Sections 310.4 and 310.5.* Amend by deleting the sections in their entirety.

- (d) *Section 312.10.1.* Amend by deleting the section in its entirety and adding a new Section 312.10.1 to read as follows:

Inspections. Annual inspections shall be made of all backflow prevention assemblies and air gaps to determine whether they are operable. The owner is responsible to ensure that testing is performed by annual due date. All backflow testers shall be licensed by the State and registered with the City of Mesquite, Building Inspection Division. Copies of individual backflow tests shall be furnished to and retained by the City of Mesquite, Water Utilities Division, upon completion.

- (e) *Section 312.10.2.* Amend by deleting the section in its entirety and adding a new Section 312.10.2 to read as follows:

Testing. Reduced pressure principle backflow preventer assemblies, double check-valve assemblies, double-detector check-valve assemblies and pressure vacuum breaker assemblies shall be tested at the time of installation, immediately after repairs or relocation, and at least annually. The testing procedures shall be performed in accordance with applicable local provisions. In the absence of local provisions the owner is responsible to ensure that testing is done in accordance with one of the following standards. The testing shall be performed in accordance with the Texas Natural Resource Conservation Commission AWWA M-14, Third Edition regulations. Other testing procedures are as follows:

ASSE 5013, ASSE 5012, ASSE 5020, ASSE 5047, ASSE 5048, ASSE 5052, ASSE 5056 and CAN/CSA B64.10.

To determine the appropriate test method, contact a City of Mesquite Public Works Backflow Inspector. All tests shall be observed by a City of Mesquite Public Works Backflow Inspector during regular working hours determined by departmental policy.

- (f) *Section 314.2.1.* Amend by deleting the section in its entirety and adding a new Section 314.2.1 to read as follows:

Condensate disposal. Condensate from all cooling coils and evaporators shall be conveyed from the drain pan outlet to an approved place of disposal. Condensate shall not discharge in a publicly exposed area such as into a street, alley, sidewalk rooftop or other areas so as to cause a nuisance.

- (g) *Section 314.2.2.* Amend by deleting the section in its entirety and adding a new Section 314.2.2 to read as follows:

Drain pipe materials and sizes. Components of the condensate disposal system shall be cast iron, galvanized steel, copper, cross linked polyethylene, polyethylene, ABS, CPVC or schedule 80 PVC pipe or tubing when exposed to ultra violet light. All components shall be selected for the pressure, temperature and exposure rating of the installation. Joints and connections shall be made in accordance with the applicable provisions of Chapter 7 relative to the material type. Condensate waste and drain line size shall not be less than $\frac{3}{4}$ inch (19mm) internal diameter and shall not decrease in size from the drain pan connection to the place of condensate disposal. Where the drain pipes of more than one unit are manifolded together for condensate drainage, the pipe or tubing shall be sized in accordance with Table 314.2.2. All sections of drain piping shall be installed in uniform alignment at a uniform slope, if applicable.

(4) *Chapter 4, Fixtures, Faucets and Fixture Fittings.*

- (a) *Section 401.1.* Amend by adding a sentence at the end of the paragraph of Section 401.1 to read as follows:

The provisions of this chapter are meant to work in coordination with the provisions of the *International Building Code*. Should any conflicts arise between the two codes, the Building Official shall determine which provision applies.

- (b) *Section 403.1.* Amend by deleting the section in its entirety and adding a new Section 403.1 to read as follows:

Minimum number of fixtures. Plumbing fixtures shall be provided for the type of occupancy and in the minimum number as follows:

1. *Assembly Occupancies:* At least one drinking fountain shall be provided at each floor level in an approved location.

Exception: A drinking fountain need not be provided in a drinking or dining establishment.

2. *Groups A, B, F, H, I, M and S Occupancies:* Buildings or portions thereof where persons are employed shall be provided with at least one water closet for each sex except as provided for in Section 403.2.
3. *Group E Occupancies:* Shall be provided with fixtures as shown in Table 403.1.
4. *Group R Occupancies:* Shall be provided with fixtures as shown in Table 403.1.

It is recommended, but not required, that the minimum number of fixtures provided also comply with the number shown in Table 403.1. If an occupancy is not listed in Table 403.1, the Building Official shall determine which occupancy most closely resembles the proposed use and apply that number to the occupancy. The number of occupants shall be determined by the *International Building Code*. Occupancy classification shall be determined in accordance with the *International Building Code* as adopted.

- (c) *Section 403.1.3.* Amend by adding a new Section 403.1.3 to read as follows:

Finish material. Finish materials shall comply with Section 1209 of the *International Building Code*.

- (d) *Section 405.6.* Amend by deleting the section in its entirety.

- (e) *Section 409.2.* Amend by deleting the section in its entirety and adding a new Section 409.2 to read as follows:

Water connection. The water supply to a commercial dishwashing machine shall be protected against backflow by an air gap or backflow preventer in accordance with Section 608.

- (f) *Section 410.1.* Amend by deleting the section in its entirety and adding a new Section 410.1 to read as follows:

Approval. Drinking fountains shall conform to ASME A112.19.1M, ASME A112.19.2M or ASME A112.19.9M, and water coolers shall conform to ARI 1010. Drinking fountains and water coolers shall conform to NSF61, Section 9.

Exception: A drinking fountain need not be provided in a drinking or dining establishment.

- (g) *Section 412.4.* Amend by deleting the section in its entirety and adding a new Section 412.4 to read as follows:

Required location. Floor drains shall be installed in the following areas:

1. In public coin-operated laundries and in the central washing facilities of multiple-family dwellings, the rooms containing the automatic clothes washers shall be provided with floor drains located to readily drain the entire floor area. Such drains shall have a minimum outlet of not less than three inches (76mm) in diameter.
2. *Commercial kitchens.* Floor sinks may be used in commercial kitchens as a substitute to floor drains.

- (h) *Section 417.5.* Amend by deleting the section in its entirety and adding a new Section 417.5 to read as follows:

Shower floors or receptors. Floor surfaces shall be constructed of impervious, non-corrosive, non-absorbent and waterproof materials. Thresholds shall be a minimum of two inches (51 mm) and a maximum of nine inches (229 mm), measured from top of the drain to top of threshold or dam. Thresholds shall be of sufficient width to accommodate a minimum 22-inch (559 mm) door.

Exception: Showers designed to comply with ICC/ANSI A117.1.

- (i) *Section 417.5.2.* Amend by deleting the section in its entirety and adding a new Section 417.5.2 to read as follows:

Shower lining. Floors under shower compartments except where prefabricated receptors have been provided shall be lined and made watertight utilizing material complying with Sections 417.5.2.1 through 417.5.2.5. Such liners shall turn up on all sides at least three inches (76 mm) above the finished threshold level and shall extend outward over the threshold and fastened to the outside of the threshold jamb. Liners shall be recessed and fastened to an approved backing so as not to occupy the space required for wall covering, and shall not be nailed or perforated at any point less than one inch (25 mm) above the finished threshold. Liners shall be pitched $\frac{1}{4}$ inch unit vertical in 12 units horizontal (two percent

slope) and shall be sloped towards the fixture drains and be securely fastened to the waste outlet at the seepage entrance making a watertight joint between the liner and the outlet.

- (j) *Section 417.7.* Amend by adding a new Section 417.7 to read as follows:

Test for shower receptors. Shower receptors shall be tested for watertightness by filling with water to the level of the rough threshold. The drain shall be plugged in a manner so that both sides of the pans shall be subjected to the test at the point where it is clamped to the drain.

- (k) *Section 419.3.* Amend by deleting the section in its entirety and adding a new Section 419.3 to read as follows:

Surrounding material. Wall and floor space to a point two feet (610 mm) in front of a urinal lip and four feet (1,219 mm) above the floor and at least two feet (610 mm) to each side of the urinal shall be waterproofed with a smooth, readily cleanable, hard, non-absorbent material.

(5) *Chapter 5, Water Heaters.*

- (a) *Section 502.3.* Amend by deleting the section in its entirety and adding a new Section 502.3 to read as follows:

Hot water heaters are prohibited from being installed within any attic space or cavity.

Exception: A maximum 10-gallon water heater that is capable of being accessed through a lay in ceiling and is not more than 10 feet (3048mm) above the ground or finished floor level and is capable of being reached with a portable ladder.

- (b) *Section 502.5.* Amend by adding a new Section 502.5 to read as follows:

Water heaters above ground or floor. When on roofs, mezzanine or platform in which a water heater is installed is more than eight feet (2,438 mm) above the ground or floor level, it shall be made accessible by a stairway or permanent ladder fastened to the building.

Exception: A maximum 10-gallon water heater that is capable of being accessed through a lay in ceiling and is not more than 10 feet (3048mm) above the ground or

finished floor level and is capable of being reached with a portable ladder.

- (c) *Section 502.6.1.* Amend by adding a new Section 502.6.1 to read as follows:

Whenever the mezzanine or platform is not adequately lighted or access to a receptacle outlet is not obtainable from the main level, lighting and a receptacle outlet shall be provided in accordance with Section 502.1.

- (d) *Section 504.6.* Amend by deleting the section in its entirety and adding a new Section 504.6 to read as follows:

Requirements for discharge piping. The discharge piping serving a pressure relief valve, temperature relief valve or combination shall:

1. Not be directly connected to the drainage system.
2. Discharge through an air gap.
3. Not be smaller than the diameter of the outlet of the valve served and shall discharge full size to the air gap.
4. Serve a single relief device and shall not connect to piping serving any other relief device or equipment.

Exception: Multiple relief devices may be installed to a single T & P discharge piping system when approved by the administrative authority and permitted by the manufacture's installation instructions and installed with those instructions.

5. Discharge to an indirect waste receptor or to the outdoors. Where discharging to the outdoors in areas subject to freezing, discharge piping shall first be piped to an indirect waste receptor through an air gap located in a conditioned space.
6. Discharge in a manner that does not cause personal injury or structural damage.
7. Discharge to a termination point that is readily observable by the building occupants.
8. Not be trapped.

9. Be installed so as to flow by gravity.
10. Not terminate less than six inches or more than 24 inches above grade nor more than six inches above the waste receptor.
11. Not have a threaded connection at the end of such piping.
12. Not have valves or tee fittings.
13. Be constructed of those materials listed in Section 605.4 or materials tested, rated and approved for such use in accordance with ASME A112.4.1.

(6) *Chapter 6, Water Supply and Distribution.*

- (a) *Section 604.4.1.* Amend by adding a new Section 604.4.1 to read as follows:

State maximum flow rate. Where the State-mandated maximum flow rate is more restrictive than those of this section, the State flow rate shall take precedence.

- (b) *Section 606.1.* Amend the section by deleting Items “4” and “5” in their entirety.

- (c) *Section 606.2.* Amend by deleting the section in its entirety and adding a new Section 606.2 to read as follows:

606.2 Location of shutoff valves. Shutoff valves shall be installed in the following locations:

1. On the fixture supply to each plumbing fixture other than bathtubs and showers in one- and two-family residential occupancies, and other than in individual sleeping units that are provided with unit shutoff valves in hotels, motels, boarding houses and similar occupancies.
2. On the water supply pipe to each appliance or mechanical equipment.

- (d) *Section 608.1.* Amend by deleting the section in its entirety and adding a new Section 608.1 to read as follows:

General. A potable water supply system shall be designed, installed and maintained in such a manner so as to prevent contamination from non-potable liquids, solids or gases being

introduced into the potable water supply through cross-connections or any other piping connections to the system. Backflow preventer applications shall conform to Texas Natural Resource Conservation Commission AWWA M-14 regulations and Table 608.1, and as specifically stated in Sections 608.2 through 608.16.10. When the water supply system includes a carbonated beverage dispensing system, the minimum RPZ allowed is of stainless steel materials.

- (e) *Section 608.16.5.* Amend by deleting the section in its entirety and adding a new Section 608.16.5 to read as follows:

Minimum standards for landscape irrigation systems. The landscape irrigation rules promulgated by the Texas Commission on Environmental Quality and contained in Title 30, Chapter 344, Subchapters E and F, §§344.50-344.65 of the Texas Administrative Code, as the same may be from time to time amended, are hereby adopted by reference as the landscape irrigation rules of the City.

Lawn irrigation systems. The potable water supply system to lawn irrigation systems shall be protected against backflow by a testable device to include a pressure-type vacuum breaker, a double-check assembly or a reduced-pressure principal backflow preventer. Where chemicals are introduced into the system, the potable water supply shall be protected against backflow by a reduced pressure principal backflow preventer of approved materials. All non-residential lawn irrigation systems shall be protected by a reduced-pressure principal backflow preventer.

- (f) *Section 608.17.* Amend by deleting the section in its entirety and adding a new Section 608.17 to read as follows:

Protection of individual water supplies. An individual water supply shall be located and constructed so as to be safeguarded against contamination in accordance with applicable local regulations. In the absence of local regulations, installation shall be in accordance with Section 608.17.1 through 608.17.8.

- (g) *Section 610.1.* Amend by adding an exception to Section 610.1 to read as follows:

Exception: With prior approval the Code Official may waive this requirement when deemed unnecessary by the Code Official.

- (7) *Chapter 7, Sanitary Drainage.*

- (a) *Section 712.5.* Amend by adding a new Section 712.5 to read as follows:

Dual pump system. All sumps shall be automatically discharged and, when in any “public” use occupancy where the sump serves more than 10 fixture units, shall be provided with dual pumps or ejectors arranged to function independently in case of overload or mechanical failure. For storm drainage sumps and pumping systems, see Section 1113.

- (b) *Sections 714 and 714.1.* Amend by deleting the sections in their entirety and adding new Sections 714 and 714.1 to read as follows:

1. *Section 714. Engineered Drainage Design.*
2. *Section 714.1. Design of drainage system.* The sizing requirements for plumbing drainage systems shall be determined by approved design methods.

- (8) *Chapter 8, Indirect/Special Waste.*

- (a) *Section 802.4.* Amend by adding a sentence at the end of the paragraph of Section 802.4 to read as follows:

No standpipe shall be installed below the ground.

- (9) *Chapter 9, Vents.*

- (a) *Section 904.1.* Amend by deleting the section in its entirety and adding a new Section 904.1 to read as follows:

Roof extension. All open vent pipes that extend through a roof shall be terminated at least six inches (152 mm) above the roof, except that where a roof is to be used for any purpose other than weather protection, the vent extensions shall be run at least seven feet (2,134 mm) above the roof.

- (b) *Section 906.1.* Amend the section by deleting the exception.
- (c) *Section 912.1.* Amend by deleting the section in its entirety and adding a new Section 912.1 to read as follows:

Type of fixtures. A combination drain and vent system shall not serve fixtures other than floor drains, standpipes and indirect waste receptors. Combination drain and vent systems shall not receive the discharge of a food waste grinder.

- (10) *Chapter 10, Traps Interceptors and Separators.*

- (a) *Section 1002.10.* Amend by deleting the section in its entirety.
- (b) *Section 1003.3.1.* Amend by deleting the section in its entirety and adding a new Section 1003.3.1 to read as follows.

Grease traps and grease interceptors required. A grease trap or grease interceptor shall be required to receive the drainage from fixtures and equipment with grease-laden waste located in food preparation areas such as in restaurants, hotel kitchens, hospitals, school kitchens, bars, factory cafeterias or restaurants and clubs. A permit for installation of a grease trap or grease interceptor must be obtained pursuant to Chapter 16, Article VI of the *Code of the City of Mesquite*. All fixtures and drains within these areas with the exception of restroom drainage lines shall be piped to go through the required grease trap. Sizing of grease traps and grease interceptors shall be in accordance with the standard operating procedures as established by the Licensing and Compliance Department.

(11) *Chapter 11, Storm Drainage.*

- (a) *Section 1101.8.* Amend by deleting the section in its entirety and adding a new Section 1101.8 to read as follows:

Cleanouts required. Cleanouts shall be installed in the building storm drainage system and shall comply with the provisions of this code for sanitary drainage cleanouts.

- (b) *Section 1106.1.* Amend by deleting the section in its entirety and adding a new Section 1106.1 to read as follows:

General. The size of the vertical conductors and leader, building storm drains, building storm sewers and any horizontal branches of such drains or sewers shall be based on six inches per hour.

- (c) *Section 1107.3.* Amend by deleting the section in its entirety and adding a new Section 1107.3 to read as follows:

Sizing of secondary drains. Secondary (emergency) roof drain systems shall be sized in accordance with Section 1106. Scuppers shall be sized to prevent the depth of ponding water from exceeding that for which the roof was designed as determined by Section 1101.7. Scuppers shall not have an opening dimension of less than four inches (102 mm). The flow through the primary system shall be considered when sizing the secondary roof drain system.

(12) *Chapter 12, Special Piping and Storage Systems.*

- (a) *Section 1202.1.* Amend the section by deleting Exception "2" in its entirety.

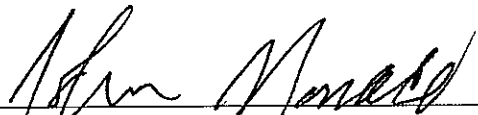
SECTION 2. That all ordinances or portions thereof in conflict with the provisions of this ordinance, to the extent of such conflict, are hereby repealed. To the extent that such ordinances or portions thereof are not in conflict herewith, the same shall remain in full force and effect.

SECTION 3. That should any word, sentence, clause, paragraph or provision of this ordinance be held to be invalid or unconstitutional, the validity of the remaining provisions of this ordinance shall not be affected and shall remain in full force and effect.

SECTION 4. That any person, firm or corporation violating any of the provisions or terms of this ordinance shall be deemed to be guilty of a Class C Misdemeanor and upon conviction in the Municipal Court shall be punished by a fine not to exceed Two Thousand (\$2,000.00) Dollars for each offense.

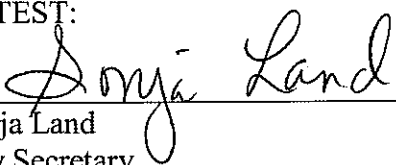
SECTION 5. That this ordinance shall take effect on and after June 1, 2011.

DULY PASSED AND APPROVED by the City Council of the City of Mesquite, Texas, on the 2nd day of May, 2011.



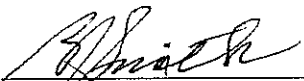
John Monaco
Mayor

ATTEST:



Sonja Land
City Secretary

APPROVED:



B. J. Smith
City Attorney