

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF MESA, MARICOPA COUNTY, ARIZONA, RELATING TO PUBLIC HEALTH AND SAFETY, REPEALING TITLE 4, BUILDING REGULATION, CHAPTER 2, MESA BUILDING CODE, SECTION 1 INTERNATIONAL BUILDING CODE ADOPTED AND SECTION 2 PENALTY CLAUSE OF THE MESA CITY CODE; ADOPTING THE 2018 INTERNATIONAL BUILDING CODE BY REFERENCE; ADOPTING AMENDMENTS TO CERTAIN PROVISIONS IN THE 2018 INTERNATIONAL BUILDING CODE; ADDING A NEW TITLE 4, CHAPTER 2, SECTION 1 MESA BUILDING CODE AND 2 PENALTY CLAUSE; AND AN EFFECTIVE DATE OF FEBRUARY 10, 2019.

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF MESA, MARICOPA COUNTY, ARIZONA as follows:

**Section One. REPEAL.**

That Title 4, Chapter 2, Section 1 and Section 2 as amended, of the Mesa City Code is repealed.

**Section Two. ADOPTION BY REFERENCE.**

**SECTION 4-2-1.** That Title 4, Chapter 2, Section 1 of the Mesa City Code shall now read as follows:

The following publications are hereby adopted by reference as if set out at length in this Code, three copies of which shall be filed in the office of the City Clerk and kept available for public use and inspection:

- Appendix C – Group U – Agricultural Buildings
- Appendix E – Supplementary Accessibility requirements Amended
- Appendix I – Patio Covers
- Appendix J – Grading Amended

**Section Three. AMENDMENTS TO THE 2018 INTERNATIONAL BUILDING CODE.**

That Title 4, Chapter 2, Section 2 of the Mesa City Code shall now read as follows:

Note: Underlined indicates proposed addition and ~~Strikethrough~~ indicates deletions to the text.

(A) **CHAPTER 1 SCOPE AND ADMINISTRATION** is amended as follows:

(1) **Section 101.1 of the 2018 International Building Code is amended to read, in its entirety, as follows:**

**101.1 Title.** These regulations shall be known as the ~~*Building Code of*~~ ~~[NAME OF JURISDICTION]~~ *Mesa Building Code*, hereinafter referred to as “this code.”

(2) **Section 101.2 through 116.5 inclusive are deleted in their entirety.**

(B) **CHAPTER 2 DEFINITIONS** is amended as follows:

The following definitions have been added or amended to read as follows:

**DIRECTED CARE SERVICE:** the care of residents who are incapable of recognizing danger, summoning assistance, expressing need, or making basic care decisions. Directed care services includes providing life sustaining programs and services and may include personal care or supervisory care services.

**EXISTING BUILDING.** A building erected prior to the date of adoption of the appropriate code, or one for which a ~~legal building permit~~ Certificate of Occupancy has been issued for at least one year.

**NURSING HOME:** ~~facilities~~ A facility that provides care, including both intermediate care facilities and skilled nursing facilities where any of the persons are incapable of self-preservation ~~nursing services to residents. Nursing services include the curative, restorative, and preventive aspects of nursing care that are performed at the direction of a physician by or under the supervision of a registered nurse licensed by the state.~~

**PERSONAL CARE SERVICE:** ~~The care of persons~~ residents ~~who do not require chronic or convalescent medical or nursing care. Personal care involves responsibility for the safety of the persons while inside the building~~ service includes assisting with activities of daily living that can be performed by persons without professional skills or professional training and may include the coordination or provision of intermittent nursing services and the administration of medications and treatments by a nurse who is licensed by the State.

**RESIDENTIAL CARE / ASSISTED LIVING FACILITIES:** A building or part thereof housing persons on a twenty-four- (24-) hour basis, who because of age, mental disability, or other reasons, live in a supervised residential environment that provides personal care, supervisory care, or directed care services. This classification shall include, but not be limited to, the following: assisted living facilities, residential board and care facilities, halfway houses, group homes, congregate care facilities, social rehabilitation facilities, alcohol and drug abuse centers, and convalescent facilities.

**SUPERVISORY CARE SERVICE:** The care of residents who require general supervision, including providing daily awareness of resident functioning and

continuing needs, the ability to intervene in a crisis, and assistance in the self-administration of prescribed medications. Provision of any of the following services shall constitute supervisory care: cooking or meal service, laundry service, linen or maid service.

(C) **CHAPTER 3 OCCUPANCY CLASSIFICATION AND USE** is amended to read as follows:

(1) **Section 308.2 Institutional Group I-1** is amended to read as follows:

**308.2 Institutional Group I-1.** ~~Institutional Group I-1~~ This occupancy shall include buildings, structures, or portions thereof housing for more than sixteen (16) persons, ~~excluding staff, who reside on a twenty-four- (24) hour basis in a supervised environment and receive custodial care-, who because of age, mental disability, or other~~ reasons, live in a supervised residential environment that provides supervisory or personal care services. The occupants are capable of self-preservation and of responding to an emergency without physical assistance from staff. ~~Buildings of Group I-1 shall be classified as one of the occupancy conditions specified in Section 308.2.1 or 308.2.2.~~ This group shall include, but not be limited to, the following:

1. Assisted living facilities licensed by the State of Arizona Department of Health Services with more than sixteen (16) residents;
2. Residential board and care facilities;
3. Halfway houses;
4. Group homes;
5. Congregate care facilities;
6. Social rehabilitation facilities;
7. Alcohol and drug centers;
8. Convalescent facilities.

A facility such as the above with five (5) or fewer persons shall be classified as a Group R-3 or R-5 as applicable or shall comply with the Mesa Residential Code. A facility such as above, housing at least six (6) and not more than sixteen (16) persons, shall be classified as Group R-4.

(2) **Section 308.3 Institutional Group I-2** is amended to read as follows:

**308.3 Institutional Group I-2.** ~~Institutional Group I-2~~ This occupancy shall include buildings and structures used for ~~medical care on a 24 hour basis for more than five persons who are incapable of self-preservation~~ medical, surgical, psychiatric, nursing, custodial care, or directed care services on a twenty-four- (24-) hour basis of more than five (5) persons who because of age, mental, or physical disability are not capable of self-preservation or responding to an emergency situation without physical assistance from staff. This group shall include, but not be limited to, the following:

1. Assisted living homes licensed by the State of Arizona Department of Health Services with five (5) or fewer residents that are not classified as R-3 or R-5;
2. Foster care facilities
3. Hospitals;
4. Nursing homes (both intermediate-care facilities and skilled nursing facilities);
5. Psychiatric hospitals;
6. Detoxification facilities.

A facility such as above with five (5) or fewer persons shall be classified as a Group R-3 or R-5 as applicable.

(3) **Section 308.5 Institutional Group I-4** is amended to read as follows:

**308.5 Institutional Group I-4, day care facilities.** Institutional Group I-4 shall include buildings and structures occupied by more than ~~ten five~~ persons, including not more than 5 infants 2 ½ years of age or less, of any age who receive custodial care for less than 24 hours by persons other than parents or guardians, relatives by blood, marriage, or adoption, and in a place other than the home of the person cared for. This group shall include, but not be limited to, the following:

Adult day care  
Child day care

**308.5.1 Classification as Group E.** A child day care facility that provides care for more than ~~ten five~~ but not more than 100 children 2 ½ years or less of age, where the rooms in which the children are cared for are located on a level of exit discharge serving such rooms and each of these child care rooms has an exit door directly to the exterior, shall be classified as Group E.

**308.5.2 Within a place of religious worship.** Rooms and spaces within places of religious worship providing such care during religious functions shall be classified as part of the primary occupancy.

**308.5.3 ~~Five~~ Ten or fewer occupants receiving care.** A facility having ~~ten five~~ or fewer persons receiving custodial care shall be classified as part of the primary occupancy.

**308.5.4 ~~Five~~ Ten or fewer persons receiving care in a dwelling unit.** A facility such as the above within a dwelling unit and having ~~ten five~~ or fewer persons receiving custodial care shall be classified as a Group R-3 or R-5 occupancy as applicable. ~~or shall comply with the International Residential Code.~~

(4) **Section 310.1 Residential Group R** is amended to read as follows:

**310.1 Residential Group R.** Residential Group R includes, among others, the use of a building or structure, or a portion thereof, for sleeping purposes when not classified as an Institutional Group I ~~or when not regulated by the *International Residential Code* in accordance with Section 101.2 of the *International Building Code*.~~

(5) **Section 310.4 Residential Group R-3** is amended to read as follows:

**310.4 Residential Group R-3.** Residential Group R-3 occupancies where the occupants are primarily permanent in nature and not classified as R-1, R-2, R-4, R-5 or I, including:

Buildings that do not contain more than two (2) dwelling units  
Care facilities that provide accommodations for five or fewer persons receiving care  
Congregate living facilities (nontransient) with 16 or fewer occupants  
    Boarding houses (nontransient)  
    Convents  
    Dormitories  
    Fraternities and sororities  
    Monasteries  
Congregate living facilities (transient) with 10 or fewer occupants  
    Boarding houses (transient)  
Lodging houses (transient) with five or fewer guest rooms and 10 or fewer occupants

or one (1) of the following:

(a) Adult care facilities that provide accommodations for ten (10) or fewer persons of any age, for less than twenty-four (24) hours. Such adult care facilities that are within a single residence are permitted to comply as R-5.

(b) Child care facilities that provide accommodations for ten (10) or fewer persons of any age, for less than twenty-four (24) hours. Such childcare facilities that are within a single residence are permitted to comply as R-5.

(6) **Section 310.5 Residential Group R-4** is amended to read as follows:

**310.5 Residential Group R-4.** Residential Group R-4 shall include buildings, structures or portions thereof for more than five but not more than 16 persons, excluding staff, who reside on a 24-hour basis in a supervised residential environment and receive custodial care. Building of Group R-4 shall be classified as one of the occupancy conditions indicated below. This group shall include, but not be limited to, the following:

Alcohol and drug center  
Assisted living facilities  
Congregate care facilities  
Group Home  
Halfway Houses  
Residential board and care facilities  
Social rehabilitations

Group R-4 occupancies shall meet the requirements for construction as defined for Group R-3 or R-5, except as otherwise provided for in the Mesa Building Code this code.

Assisted living homes located in residentially zoned districts in accordance with Title 11 (Zoning) of the Mesa City Code licensed by the State of Arizona Department of Health Services with more than 5 but not more than 10 residents.

Assisted living centers located in commercially zoned districts in accordance with Title 11 (Zoning) of the Mesa City Code licensed by the State of Arizona Department of Health with more than 5 but not more than 16 residents.

**(7) Adding a new section, Section 310.6 Residential Group R-5 to read as follows:**

**310.6 Residential Group R-5.** Residential Group R-5 occupancies where the occupants are primarily permanent as detached one- and two-family dwellings and multiple single-family dwellings (townhouses) and their accessory structures conforming with the Mesa Residential Code. R-5 occupancies may include:

Adult care facilities providing accommodations for ten or fewer persons of any age for less than 24 hours within a single residence.

Childcare facilities providing accommodations for ten or fewer persons of any age for less than 24 hours within a single residence.

Assisted living homes with 5 or fewer residents capable of self-preservation or responding to an emergency situation without physical assistance from staff.

Assisted living homes including facilities providing directed care services, with 5 or fewer residents that are not capable of self-preservation or responding to an emergency situation without physical assistance from staff. Such assisted living homes shall be protected with automatic sprinkler systems in accordance with section 903.3 and a smoke alarm system in accordance with section 907.2.10.1.3.

Congregate living facilities with 16 or fewer occupants.

**(8) Adding a new section, Section 310.7 Security Standards to read as follows:**

**310.7 Security Standards.**

**310.7.1 Requirements.** All dwelling units shall conform to the following minimum-security requirements:

1. All main or front-entry doors shall be arranged so that the occupant has a view of the area immediately outside the door without opening the door. Such view may be provided by a door viewer having a field of view of not less than one hundred eighty (180) degrees or through windows.

2. All exterior swinging doors shall be of solid core or metal skin construction,

including the nonglazed portion of exterior glass insert doors.

3. Open spaces between trimmers and wood exterior doorjamb shall be solid shimmed, extending not less than six inches (6") above and below the deadbolt strike plate. Deadbolt strike plates for exterior door locks shall be attached to wood jambs with not less than two (2) No. 8 by two-inch (2") screws or when attached to metal jambs, shall be attached with not less than two (2) No. 8 machine screws.

4. Exterior doors with hinge pins exposed on the outside shall use nonremovable pin hinges or standard pin hinges with the pins modified to prevent the removal of the door from the exterior.

5. All exterior sliding doors shall be constructed and installed to prohibit the raising, sliding, or removal of the sliding section from the track while in the closed and locked position. The stationary section shall not be removable from the outside. Such sliding doors shall be provided with an auxiliary or additional locking device operable from the inside without the use of a key or special knowledge or effort.

6. All exterior swinging doors and doors from a dwelling to an attached garage shall be equipped with a deadbolt lock. Such deadbolt locks shall:

(a) Have a minimum one-inch (1") bolt throw and receiving strike-plate hole one-quarter inch (1/4") deeper than the projected bolt throw, and

(b) Have a wrench-resistant collar, and

(c) Have fasteners which thread into the cylinder body.

Deadbolt locks installed on the front or main-entry door shall be key operated from the exterior and operable from the inside without the use of a key.

Exterior windows shall be constructed and installed to prohibit raising, sliding, or removal of the moving section while in the closed and locked position. A passive window panel shall have weather-stripped molding or glazing bead which is not easily removed from the outside to prevent removal of the window glass.

7. All garage doors not equipped with a power-operated mechanism shall be equipped with at least two (2) locking devices of the following types:

(a) Throw bolt or flush bolt;

(b) Cylinder-type lock;

(c) Padlock and hasp;

(d) Electrical-power-operated mechanism with automatic locking device.

(e) All garage doors shall be capable of being unlocked and operable from inside the garage without the use of electrical power.

(f) Access doors to attic space shall be located in the interior of the dwelling unit or within a secured enclosed room or garage, provided that if no interior

location is available, a metal access door secured with a steel hasp and a heavy-duty lock may be located on the exterior.

310.7.2. The requirements of this Section are not intended to prevent the use of any device, hardware, or method of construction not specifically prescribed when such alternate device, hardware, or method of construction provides equivalent security, subject to the approval of the Building Safety Director.

310.7.3. The requirements of this Section are not intended to prevent egress, and devices shall not be installed in a manner to prevent proper egress through doors or bedroom windows as required.

(C) **CHAPTER 4 SPECIAL DETAILED REQUIREMENTS BASED ON OCCUPANCY AND USE** is amended as follows:

(1) **Section 402.5 Automatic Sprinkler System** is amended by deleting the exception:

**402.5 Automatic Sprinkler System.** Covered and open mall buildings and buildings connected shall be equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1, which shall comply with all of the following:

1. The automatic sprinkler system shall be complete and operative throughout occupied space in the mall building prior to occupancy of any of the tenant spaces. Unoccupied tenant spaces shall be similarly protected unless provided with approved alternative protection.
2. Sprinkler protection for the mall of a covered mall building shall be independent from that provided for tenant spaces or anchor buildings.
3. Sprinkler protection for the tenant spaces of an open mall building shall be independent from that provided for anchor buildings.
4. Sprinkler protection shall be provided beneath exterior circulation balconies located adjacent to an open mall.
5. Where tenant spaces are supplied by the same system, they shall be independently controlled.

~~**Exception:** An automatic sprinkler system shall not be required in spaces or areas of open parking garages separated from the covered or open mall building in accordance with Section 402.4.2.3 and constructed in accordance with Section 406.5.~~

(2) **Section 403.3 Automatic Sprinkler System** is amended by deleting number 1 of the Exception.

**403.3** Buildings and structures shall be equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 and a secondary water supply where required by Section 403.3.3.

Exception: An automatic sprinkler system shall not be required in spaces or areas of:

- ~~1. Open parking garages in accordance with Section 406.5.~~
2. Telecommunications equipment buildings used exclusively for telecommunications equipment, associated electrical power distribution equipment, batteries and standby engines, provided that those spaces or



areas are equipped throughout with an automatic fire detection system in accordance with Section 907.2 and are separated from the remainder of the building by not less than 1-hour *fire barriers* constructed in accordance with Section 707 or not less than 2-hour *horizontal assemblies* constructed in accordance with Section 711, or both.

(3) **Section 404.3 Automatic sprinkler protection** is amended by deleting Exception 1.

**404.3 Automatic sprinkler protection.** An approved automatic sprinkler system shall be installed throughout the entire building.

Exceptions:

- ~~1. That area of a building adjacent to or above the atrium need not be sprinkled provided that portion of the building is separated from the atrium portion by not less than 2-hour *fire barriers* constructed in accordance with Section 707 or *horizontal assemblies* constructed in accordance with Section 711, or both.~~
2. Where the ceiling of the *atrium* is more than 55 feet (16,764 mm) above the floor, sprinkler protection at the ceiling of the *atrium* is not required.

(4) **410.6 Automatic sprinkler system** is amended by deleting exception #2:

**410.6 Automatic sprinkler system.** Stages shall be equipped with an automatic sprinkler system in accordance with Section 903.3.1.1. Sprinklers shall be installed under the roof and gridiron and under all catwalks and galleries over the stage. Sprinklers shall be installed in dressing rooms, performer lounges, shops and storerooms accessory to such stages.

**Exceptions:**

1. Sprinklers are not required under stage areas less than 4 feet (1219 mm) in clear height that are utilized exclusively for storage of tables and chairs, provided that the concealed space is separated from the adjacent spaces by Type X gypsum board not less than 5/8-inch (15.9 mm) in thickness.
- ~~2. Sprinklers are not required for stages 1,000 square feet (93m<sup>2</sup>) or less in area and 50 feet (15,240 mm) or less in height where curtains, scenery or other combustible hangings are not retractable vertically. Combustible hangings shall be limited to a single main curtain, borders, legs and a single backdrop.~~
3. Sprinklers are not required within portable orchestra enclosures on stages.

(D) **CHAPTER 10 MEANS OF EGRESS** is amended as follows:

(1) **Section 1004.5 Areas without fixed seating** is amended as follows:

**1004.5 Areas without fixed seating.** The number of occupants shall be computed at the rate of one occupant per unit of area as prescribed in Table 1004.5. For areas without fixed seating, the occupant load shall not be less than that number determined by dividing the floor area under consideration by the occupant ~~load factor assigned to the function of the space~~ per unit of area factor assigned to the occupancy as set forth in Table 1004.5. Where an intended use is not listed in Table 1004.5, the Building Official shall establish a use based on a listed use that most nearly resembles the intended ~~function~~ use.

**Exception:** Where approved by the Building Official, through the Code Modification Process, the actual number of occupants for whom each occupied space, floor or building is designed, although less than those determined by calculation, shall be permitted to be used in the determination of the design occupant load.

(2) **Section 1010.1.2 Door swing** is amended by revising exception 4 to read as follows:

1010.1.2 Door swing. Egress doors shall be of the pivoted or side-hinged swinging type.

Exceptions:

1. Private garages, office areas, factory and storage areas with an occupant load of 10 or less.
2. Group I-3 occupancies used as a place of detention.
3. Critical or intensive care patient rooms within suites of health care facilities.
4. Doors within or serving a single dwelling unit in Groups R-2, R-3 and R-5, as applicable in the Mesa Administrative Code, Chapter 1.
5. In other than Group H occupancies, revolving doors complying with Section 1010.1.4.1.
6. In other than Group H occupancies, special purpose horizontal sliding, accordion or folding door assemblies complying with Section 1010.1.4.3.
7. Power-operated doors in accordance with Section 1010.1.4.2.
8. Doors serving a bathroom within an individual sleeping unit in Group R-1.
9. In other than Group H occupancies, manually operated horizontal sliding doors are permitted in a means of egress from spaces with an occupant load of 10 or less.

(E) **CHAPTER 11 ACCESSIBILITY** is amended as follows:

(1) **Section 1101 GENERAL** is amended by adding the following Exceptions and subsections:

**1101.1 Scope.** The provisions of this chapter and Arizona Revised statutes, ARS sections 41-1492 through 41-1492.12 shall control the design and construction of facilities for accessibility for individuals with disabilities.

Exceptions:

1. This Chapter shall not apply to private clubs or establishments exempted from coverage under Title II of the Civil Rights Act of 1964 (42 United States Code Section 2000[a][e]).
2. This Chapter shall not apply to religious functional areas of religious facilities owned, operated, and maintained by religious organizations or entities controlled by religious organizations, including altar areas, baptismal fonts and areas, choir lofts, etc., but not including main assembly areas such as naves and sanctuaries.

**1101.2** Where the requirements of this Chapter or the ICC/ANSI A117.1 are at variance from the requirements set forth in Title 41, Chapter 9, Article 8, Arizona Revised Statutes and its implementing rules, the State Statute and implementing rules shall govern.

**1101.3 Provisions for Children.** Facilities and areas of facilities intended primarily for occupancy by children ages three through twelve (3-12) shall be permitted to be designed and constructed as an equivalent facilitation in accordance with ADA guidelines for accessible design for children as promulgated in the Federal Register, Vol. 63, No. 8, Tuesday, January 13, 1998. Such equivalent facilitation shall be permitted without requiring approval of a modification.

**1101.4 Copy of Laws and Standards.** A copy of all laws, rules, guidelines, and standards cited by this Chapter shall be available in the office of the City Clerk in order to allow persons an adequate opportunity to be informed of the applicable requirements.

- (2) **Section 1102.1 Design** is amended by adding the following:

**1102.1 Design.** Buildings and facilities shall be designed and constructed to be accessible in accordance with this code and ICC A117.1 and in accordance with provisions State of Arizona Attorney General Administrative Rules R10-3-401 through R-10-3-404 (2010 ADA Standards for Accessible Design, referred to as "2010 Standards", adopted by the U.S. Department of Justice), whichever standard provides the greatest degree of accessibility.

- (3) **Section 1103.2.5 Construction sites** is amended and reads as follows:

**Section 1103.2.5 Construction sites.** Structures, sites and equipment directly associated with the actual processes of construction including, but not limited to, scaffolding, bridging, materials hoists, materials storage or construction trailers are not required to comply with this chapter. The public portions of temporary sales offices/trailers are required to be accessible. There shall be accessible parking and an accessible route from the accessible parking aisle to the sales office/trailer and throughout the public portion of the sales office/trailer, including the design center. Accessible toilet rooms shall be provided according to this code.

- (F) **CHAPTER 16 STRUCTURAL DESIGN** is amended as follows:

**Section 1609.3 Basic design wind speed** is amended to read as follows:

**1609.3 Basic design wind speed.** The basic design wind speed, V, in mph, for the determination of the wind loads shall be determined by Figures 1609.3(1) through (8) or by using the following wind speeds: Risk Category I – 100 mph; Risk Category II – 105 mph; Risk Category III – 110 mph; and Risk Category IV – 115 mph. The basic design wind speed, V, for use in the design of Risk Category II buildings and structures shall be obtained from Figures 1609.3(1) and 1609.3(5) or 105 mph. The basic design wind speed, V, for use in the design of Risk Category III building and structures shall be obtained from Figures 1609.3(2) and 1609.3(6) or 110 mph. The basic design wind speed, V, for use in the design of Risk Category IV buildings and structures shall be obtained from Figures 1609.3(3) and 1609.3(7) or 115 mph. The basic design wind speed, V, for use in the design of Risk Category I buildings and structures shall be obtained from Figures 1609.3(4) and 1609.3(8) or 100 mph. The basic design wind speed, V, for the special wind regions indicated near mountainous terrain and near gorges shall be in accordance with local jurisdiction requirements. The basic design wind speeds, V, determined by the local jurisdiction shall be in accordance with Chapter 26 of ASCE 7.

(G) **CHAPTER 17 SPECIAL INSPECTIONS AND TESTS** is amended as follows:

(1) **Section 1704.6.1 Structural observations for structures** is amended by adding additional conditions.

**1704.6.1 Structural observations for structures.** Structural observations shall be provided for those structures where one or more of the following conditions exist:

1. The structure is classified as Risk Category IV.
2. The structure is a high-rise building.
3. Such observation is required by the registered design professional responsible for the structural design.
4. Such observation is specifically required by the building official.
5. The height of the structure is greater than 75 feet (22.860mm) above the grade plane.
6. The structure has more than three stories above the grade plane.
7. Elevated post-tensioned concrete structures.
8. Prefabricated deferred units and their connections when such units are utilized structurally in the lateral force-resisting systems of a structure.

(2) A new section, **1705.19 Plumbing special inspections**, is added at the end of section 1705 and reads as follows:

**Section 1705.19 Plumbing special inspections.** The types of equipment or installations noted below shall be tested or inspected by a special inspector.

1. Medical Gas and Vacuum Systems as required by International Plumbing Code section 1202 and Uniform Plumbing Code Chapter 13.
2. Special cases – Work which, in the opinion of the building official, involves unusual hazards or conditions.

**Exception:** The building official may waive the requirement for special inspection if the construction is of a minor nature.

(H) **CHAPTER 18 SOILS AND FOUNDATIONS** is amended as follows:

A new section, **1803.5.13 Post-tensioned slabs on ground**, is added at the end of section 1803.5 and reads as follows:

**Section 1803.5.13 Post-tensioned slabs on ground.** A geotechnical investigation is required for the design of all post-tensioned slabs on ground. The investigation report shall include all soil parameters as outlined in PTI DC-10.5. Information required on the drawings includes, but is not limited to, slab type, soil parameters, bearing value and depth, coefficient of subgrade friction, soil subgrade modulus,  $e_m$  and  $y_m$  for expansive soils and all special inspection requirements.

(I) **CHAPTER 19 CONCRETE** is amended as follows:

A new section, **1907.2 Post-tensioned slabs on ground**, is added at the end of section 1907 and reads as follows:

**Section 1907.2 Post-tensioned slabs on ground.** All post-tensioned slabs on ground shall be permanently stamped, marked or otherwise identified in a conspicuous location indicating the slab is a post-tensioned slab. Conspicuous locations include, but are not limited to, entrance porches, slabs at garage doors or patio slabs.

(J) **CHAPTER 21 MASONRY** is amended as follows:

(1) **Section 2111 Masonry Fireplaces** is amended by adding a new subsection, 2111.15, at the end to read as follows:

**Section 2111.15 Fireplace Restrictions.** Refer to the Mesa Mechanical Code, Section 930 for additional restrictions on masonry and factory-built fireplaces.

(2) A new section, **2115 Solid Waste Bin and Barrel Enclosure**, is added at the end of the chapter to read as follows:

**2115 Solid Waste Bin and Barrel Enclosure.**

**2115.1 General.** Enclosures shall be designed and installed in compliance with Mesa Standard Details M62.1- M62.5.

(K) **CHAPTER 29 PLUMBING SYSTEMS** is amended to read as follows:

(1) **Table 2902.1 Minimum Number of Required Plumbing Fixtures** is amended by deleting “1 Service Sink” from the “Other” column for use groups B and M.

**TABLE 2902.1**  
**MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES<sup>a</sup>**

(See Sections 2902.1.1 and 2902.2)

NO.	CLASSIFICATION	DESCRIPTION	WATER CLOSETS		LAVATORIES		BATHTUBS/ SHOWERS	DRINKING FOUNTAIN	OTHER
			MALE	FEMALE	MALE	FEMALE			
2	Business	Buildings for the transaction of business,	1 per 25 for the first 50 and 1 per 50 for the		1 per 40 for the first 80 and 1 per 80 for the	—	1 per 100	± Service Sink <sup>e</sup>	

		professional services, other services involving merchandise, office buildings banks light industrial and similar uses	remainder exceeding 50	remainder exceeding 80			
6	Mercantile	Retail stores, service stations, shops, salesrooms, markets and shopping centers	1 per 500	1 per 750	—	1 per 1,000	+ Service Sink <sup>e</sup>

(2) **Section 2902.2 Separate Facilities** is amended to read as follows:

**2902.2 Separate facilities.** Where plumbing fixtures are required, separate facilities shall be provided for each sex.

**Exceptions:**

1. Separate facilities shall not be required for dwelling units and sleeping units.
2. Separate facilities shall not be required in structures or tenant spaces with a total *occupant load*, including both employees and customers, of 20 ~~15~~ or fewer less.
3. Separate facilities shall not be required in mercantile occupancies in which the maximum occupant load is 50 ~~100~~ or fewer less.
4. Separate facilities shall not be required in F and S occupancies with 20 or less identified work stations ~~which the maximum occupant load is 25 or fewer.~~

(3) **Section 2902.6 Small occupancies** is amended to read as follows:

**2902.6 Small occupancies.** Drinking fountains shall not be required for an occupant load of ~~15~~ 50 or fewer.

(L) **CHAPTER 31 SPECIAL CONSTRUCTION** is amended to read as follows:

(1) **Section 3109 Swimming Pools, Spas and Hot Tubs** is amended to read as follows:

**3109 Swimming Pools, Spas and Hot Tubs.** The design and construction of swimming pools, spas and hot tubs shall comply with the ~~International~~ Mesa Swimming Pool and Spa Code.

(M) **CHAPTER 32 ENCROACHMENTS INTO THE PUBLIC RIGHT-OF-WAY** is amended as follows:

(1) **Section 3201 GENERAL** is amended to read as follows:

**3201.1 Scope.** The provisions of ~~this chapter~~ the City of Mesa Code, Chapter 9-2 shall govern ~~the encroachments of structures~~ into the public right-of-way.

**Sections 3201.2 THROUGH 3202.4 ARE DELETED IN THEIR ENTIRETY.**

(N) **CHAPTER 35 REFERENCED STANDARDS** has been amended as follows:

NFPA 11 – ~~46~~ 19 Low Medium- and High-Expansion Foam

NFPA 13 – ~~46~~ 19 Installation of Sprinkler Systems

NFPA 13D – ~~46~~ 19 Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes

NFPA 13R ~~46~~ – 19 Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height

NFPA 14 – ~~46~~ 19 Installation of Standpipe, Private Hydrants and Hose Systems

NFPA 20 – ~~46~~ 19 Installation of Stationary Pumps for Fire Protection

NFPA 72 – ~~46~~ 19 National Fire Alarm Code

NFPA 110 – ~~46~~ 19 Emergency and Standby Power Systems

NFPA 111 – ~~46~~ 19 Standard on Storage Electrical Energy Emergency and Standby Power Systems

NFPA 211 – ~~46~~ 19 Chimneys, Fireplaces, Vents and Solid Fuel-Burning Appliances

NFPA 409 – ~~46~~ 19 Aircraft Hangars

**SECTION 4-2-2. PENALTY CLAUSE:** Any person, firm, or corporation who shall violate any of the provisions of this Chapter of the Mesa City Code as amended shall be subject to all penalties and provisions of Section 4-1-9.

PASSED AND ADOPTED by the City Council of the City of Mesa, Maricopa County, Arizona, this 7th day of January, 2019.

APPROVED:

\_\_\_\_\_  
Mayor

ATTEST:

\_\_\_\_\_  
City Clerk

