

**Town of Marana Fire Code
2006 IFC Amendments**

CHAPTER 1

ADMINISTRATION

101.2.1 Appendices. The following appendices are adopted as part of this Code:

Appendix B Fire-flow requirements for buildings

Appendix C Fire hydrant locations and distribution

Appendix D Fire Apparatus Access Roads

Appendix E Hazard Categories (as reference information)

Appendix F Hazard Ranking

Appendix G Cryogenic Fluids - Weight and volume equivalents (as reference information)

SECTION 102 – APPLICABILITY

Section 102.3 Change of use or occupancy is **REVISED** to read:

102.3 Change of use or occupancy. The provisions of the International Building Code shall apply to all buildings undergoing a change of occupancy.

Section 102.4 Application of building code is **REVISED** to read:

102.4 Application of building code. The design and construction of new structures shall comply with the International Building Code. Repairs, alterations and additions to existing structures shall comply with the International Building Code.

Section 102.5 Historical buildings is **REVISED** to read:

102.5 Historical buildings. The construction, alteration, repair, enlargement, restoration, relocation or movement of existing buildings or structures that are designated as historic buildings when such buildings or structures do not constitute a distinct hazard to life or property shall be in accordance with the provisions of the International Building Code.

102.9 Conflicting provisions. Amend to read as follows:

102.9 Conflicting provisions. Where there is a conflict between a general requirement and a specific requirement, or between this code and any other code, ordinance or statute, the more restrictive shall apply.

SECTION 104 - GENERAL AUTHORITY AND RESPONSIBILITIES

Section 104.2 is **REVISED** by **ADDING** the following subsection:

Section 104.2.1 Permit Fees. Permit fees shall be in accordance with the Town of Marana and Northwest Fire District fee schedule.

Section 104.6 Official Records. Is **REVISED** as follows:

Town of Marana Fire Code 2006 IFC Amendments

The fire code official shall keep official records as required by the approved State of Arizona records retention schedule.

Section 104.6.3 is REVISED by ADDING the following:

The Building Official shall be notified of any fire in a residential structure and of any fire caused by an electrical or mechanical system within any structure.

SECTION 105 – PERMITS

105.1.1 Permits required is REVISED as follows:

Permits required. Permits required by this code shall be obtained from the Fire District. It shall be unlawful for any person, firm or corporation to use a building(s) or premises or engage in any activities for which the fire code official requires a permit without first having obtained such permit. Permit fees, if any, shall be paid prior to issuance of the permit. Issued permits shall be kept on the premises designated herein at all times and shall be readily accessible for inspection by the fire code official. For information on required permits, contact the northwest fire district, fire prevention section at (520) 887-1010.

105.1.2 Types of Permits. Is REVISED as follows:

1. Operational permit. An operational permit is one that is issued as a Building Permit by the Building Services Departments/Northwest Fire District as reviewed by the fire code official that allows the applicant to conduct an operation or a business for which a permit is required by Section 105 and that the Certificate of Occupancy is conditional upon the operation continuing as approved. Changes in the operation will require new permit applications and re-issuance of the Certificate of Occupancy.

2. Construction permit. A construction permit is one that is issued as a Building Permit by the Building Services Department/Northwest Fire District as reviewed by the fire code official and building plan reviewers. This permit allows the applicant to construct, install or modify building systems and equipment for which a permit is required by this or other regulations.

Section 105.6 Required operational permits is REVISED as follows:

105.6 Required operational permits.

The fire code official is authorized to issue operational permits for the operations set forth in Sections 105.6.1 through 105.6.47.

105.6.2 Amusement buildings

An operational permit is required to operate a temporary special amusement building. Temporary special amusement buildings shall be operated for a period of time not to exceed 45 days. Plans for temporary special amusement buildings

Town of Marana Fire Code 2006 IFC Amendments

shall be submitted to the northwest fire district fire prevention section 30 days before the opening of the building or structure to the public.

105.6.4 Carnivals and fairs.

An operational permit is required to conduct a carnival or fair.

105.6.9 Covered mall buildings. An operational permit is required for:

1. The placement of retail fixtures and displays, concession equipment, displays of highly combustible goods and similar items in the mall.
2. The display of liquid- or gas-fired equipment in the mall.
3. The use of open-flame or flame-producing equipment in the mall.

105.6.13 Exhibits and trade shows.

An operational permit is required to operate exhibits and trade shows.

105.6.14 Explosives.

An operational permit is required for the manufacture, storage, handling, sale or use of any quantity of explosive, explosive material, fireworks, or pyrotechnic special effects within the scope of Chapter 33.

105.6.26 Liquid- or gas-fueled vehicles or equipment in assembly buildings.

An operational permit is required to display, operate or demonstrate liquid- or gas-fueled vehicles or equipment in assembly buildings.

105.6.30 Open burning.

A permit is required for the kindling or maintaining of an open fire or a fire on any public street, alley, road, or other public or private ground. Instructions and stipulations of the permit shall be adhered to.

Exception: Recreational fires.

105.6.36 Pyrotechnic special effects material.

An operational permit is required for use and handling of pyrotechnic special effects material.

105.6.43 Temporary membrane structures, tents and canopies. An operational permit is required to operate a temporary membrane structure or a tent having an area in excess of 400 square feet (37m²), or a canopy in excess of 900 square feet (84m²).

Exceptions:

1. Tents used exclusively for recreational camping purposes.

Section 105.7 Required construction permits is REVISED as follows:

105.7 Required construction permits.

The fire code official is authorized to issue construction permits for work as set forth in Sections 105.7.1 through 105.7.12.

Town of Marana Fire Code 2006 IFC Amendments

105.7.1 Automatic fire-extinguishing systems. A construction permit is required for installation of or modification to an automatic fire-extinguishing system. Maintenance performed in accordance with this code is not considered a modification and does not require a permit.

105.7.3 Fire alarm and detection systems and related equipment. A construction permit is required for installation of or modification to fire alarm and detection systems and related equipment. Maintenance performed in accordance with this code is not considered a modification and does not require a permit.

105.7.4 Fire pumps and related equipment. A construction permit is required for installation of or modification to fire pumps and related fuel tanks, jockey pumps, controllers, and generators. Maintenance performed in accordance with this code is not considered a modification and does not require a permit.

105.7.11 Standpipe systems. A construction permit is required for the installation, modification, or removal from service of a standpipe system. Maintenance performed in accordance with this code is not considered a modification and does not require a permit.

105.7.12 Temporary membrane structures, tents and canopies. A construction permit is required to erect a temporary membrane structure or a tent having an area in excess of 400 square feet (19m²), or a canopy in excess of 900 square feet (37m²).

Exceptions:

1. Tents used exclusively for recreational camping purposes.

SECTION 108 - BOARD OF APPEALS

Section 108.1 is **REVISED** as follows:

108.1 Board of appeals established. In order to hear and decide appeals of orders, decisions or determinations made by the fire code official relative to the application and interpretation of this code, the Northwest Fire district hereby establishes that the district's Board of Directors shall serve as the district's board of appeals. The fire code official shall be an ex officio member of said board but shall have no vote on any matter before the board. The board shall adopt rules of procedure for conducting its business, and shall render all decisions and findings in writing to the appellant with a duplicate copy to the fire code official. The Board shall have no authority to waive requirements of this code.

Section 108.1.1 Administrative Review is **ADDED** to read:

108.1.1 Administrative review. Whenever a violation of this code has been found and the property owner or representative wishes to challenge the application of this code by the inspection authority, an administrative review may be requested based on the claim that the intent of this code or the rules legally adopted

Town of Marana Fire Code 2006 IFC Amendments

hereunder have been incorrectly interpreted, the provisions of this code do not fully apply, or an equivalent method of protection or safety is proposed,

The request for an administrative review shall be filed with the fire code official as follows:

1. The applicant shall file a written request for administrative review on or before Friday of each week, not later than 4:30 p.m.
2. The fire code official will conduct the review within 10 working days of the receipt of the request.
3. The fire code official may use a hearing committee consisting of such staff as is deemed appropriate to provide additional insight regarding the request for review.
4. Adequate information shall be provided by the applicant on the request for review to fully describe the condition(s) in question.
5. The applicant may, but is not required to, meet with the fire code official to discuss the review.
6. If the administrative review results in upholding the actions of the inspection staff, the applicant shall comply with the requirement(s) of the fire code or file an appeal with the district's board of appeals.

Section 109.3 Violation penalties is **REVISED** to read:

Section 109.3 Violation penalties. Persons who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter, repair or do work in violation of the approved construction documents or direction of the fire code official, or of a permit or certificate used under provisions of this code, shall be guilty of a civil infraction, and upon conviction thereof, punishable by a fine in accordance with the Town of Marana, Arizona or Pima County, Arizona fine schedule as applicable for such violation(s). Each day that a violation continues after due notice has been served shall be deemed a separate offense.

Section 111 Stop work order

Section 111.1 Order is **REVISED** by adding at the end:

The stop work order is limited to work performed under this code. The building official shall be notified of any stop work order.

Section 111.4 Failure to comply is **REVISED** to read:

111.4 Failure to comply. Any person who shall continue any work after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable to a fine in accordance with the Town Of Marana, Arizona or Pima County, Arizona fine schedule as applicable for such violation.

**Town of Marana Fire Code
2006 IFC Amendments**

CHAPTER 2

DEFINITIONS

SECTION 201 - GENERAL

Section 201.3 Terms defined in other codes is **REVISED** to read:

201.3 Terms defined in other codes. Whenever terms are not defined in this code and are defined by other applicable codes adopted by the jurisdiction, such terms shall have the meanings ascribed to them as in those codes.

SECTION 202 - GENERAL DEFINITIONS

The following definitions are **ADDED** as follows:

Barbecue pit. An enclosure in which approved fuels are burned to make a bed of hot coals over which food is prepared.

Driveway. A vehicular ingress and egress route that serves no more than two buildings or structures, not including accessory structures, or no more than five dwelling units.

The following **OCCUPANCY CLASSIFICATIONS** are **REVISED** as follows:

Institutional Group I.

[B] Institutional Group I. Institutional Group I occupancy includes, among others, the use of a building or structure, or a portion thereof, in which people, cared for or living in a supervised environment and having physical limitations because of health or age, are harbored for medical treatment or other care or treatment, or in which people are detained for penal or correctional purposes or in which the liberty of the occupants is restricted. Institutional occupancies shall be classified as Group I-1, I-2, I-3 or I-4.

Group I-1. This occupancy shall include buildings, structures or parts thereof housing more than 10 persons, on a 24-hour basis, who because of age, mental disability or other reasons, live in a supervised residential environment that provides personal care services. The occupants are capable of responding to an emergency situation without physical assistance from staff. This group shall include, but not be limited to, the following:

- Alcohol and drug centers
- Assisted living facilities
- Congregate care facilities
- Convalescent facilities
- Group homes
- Half-way houses
- Residential board and care facilities
- Social rehabilitation facilities

**Town of Marana Fire Code
2006 IFC Amendments**

CHAPTER 3

GENERAL PRECAUTIONS AGAINST FIRE

SECTION 302 – DEFINITIONS

Section 302.1 Definitions. The definition of **BONFIRE** is hereby **DELETED** (in its entirety).

SECTION 307 OPEN BURNING AND RECREATIONAL FIRES

Section 307.2 Permit required is here by **REVISED** as follows:

307.2 Permit required. A burning permit shall be obtained from the fire code official in accordance with Section 105.6 prior to kindling a fire for recognized cultural or range or wildlife management practices or prevention or control of disease or pests. Application for such approval shall only be presented by the owner and permits issued to the owner of the land upon which the fire is to be installed. All burn permits require prior approval of Pima County Department of Environmental Quality.

Section 308.3.6 Theatrical performers. Is hereby **REVISED** by **ADDING** the following subsections:

Section 308.3.6.1 Audience control. The audience shall be at least 30 feet (9144 mm) away from the closest projection of an open flame device. Audience control shall be established by use of a physical barrier which can be easily moved or removed in the event of an emergency and shall remain in place throughout the entire performance.

Section 308.3.6.2 Attendant. Performances shall be constantly attended by a person knowledgeable in the use of a fire extinguisher at the rate of at least 1 attendant for every 4 active performers. Attendants shall remain at the performance until the fire has been extinguished.

Section 308.3.6.3 Fire extinguishers. Adequate fire extinguishing equipment including but not limited to buckets of water, water soaked rags, water extinguishers, or charged hose lines, shall be readily available for use during the performance. Portable fire extinguishers shall be provided at a minimum of one 20bc extinguisher for every four simultaneous performers.

Section 308.3.6.4 Clearance from combustibles. A 25-foot (7620 mm) clearance from all combustibles shall be maintained in all directions.

SECTION 311 - VACANT PREMISES

Section 311.2 is hereby **AMENDED** as follows:

311.2 Safeguarding vacant premises. Temporarily unoccupied buildings, structures, premises or portions thereof shall be secured and protected in

Town of Marana Fire Code 2006 IFC Amendments

accordance with this section. Contact information shall be conspicuously posted, either on the building or as agreed to by the fire code official.

Section 311.2.2 Fire protection is hereby **AMENDED** by **DELETING** Exceptions 1 and 2 (in their entirety).

SECTION 313 – FUELED EQUIPMENT

Section 313.1 Fueled equipment is **REVISED** as follows:

313.1 Fueled equipment. Fueled equipment, including but not limited to motorcycles, mopeds, lawn-care equipment and portable cooking equipment, shall not be operated or repaired within a building, including living spaces of Group R occupancies.

Exceptions:

1. Buildings or rooms constructed for such use in accordance with the *International Building Code*.
2. When allowed by Section 314.
3. Use of LP-gas powered equipment in accordance with NFPA 58.

SECTION 316 – HEAT-PRODUCING APPLIANCES is hereby **ADDED** as follows:

SECTION 316 – HEAT PRODUCING APPLIANCES

Section 316.1 General. Heating appliances shall be installed and maintained in accordance with their listing and the jurisdiction's building, electrical, and mechanical codes. Clearances from combustibile material shall be maintained as set for the in the building and mechanical codes and the product listing.

Section 316.2 Clothes dryers. Clothes dryers shall be frequently cleaned to maintain the lint trap, mechanical and heating components free from excessive accumulations of lint.

**Town of Marana Fire Code
2006 IFC Amendments**

CHAPTER 4

EMERGENCY PLANNING AND PREPAREDNESS

Section 403.1 is **REVISED** by **ADDING** the following paragraphs:

When the fire code official has determined that a fire watch is needed, such personnel shall be qualified as deemed by the Fire Official. Fire watch personnel shall be subject to the fire code official's orders at all times, and shall not be permitted to perform any duties other than those prescribed by this section or by the fire code official.

Section 403.2 Special Amusement Buildings is **ADDED** as follows:

403.2 SPECIAL AMUSEMENT BUILDINGS

Section 403.2.1 Scope. Special amusement buildings used for a period of time not exceeding 45 days shall conform to the requirements in section 403.2 in addition to the provisions set forth in IFC Chapters 1, 2, 4, 9 and 10 and the International Building Code.

Exception: Amusement buildings or portions thereof which are without walls or a roof and constructed to prevent the accumulation of smoke in assembly areas.

Section 403.2.2 Permit required. For permit requirements refer to section 105.6.2 of this code.

Section 403.2.3 General. Where mazes, mirrors or other effects are used to confound the egress path, exits and exit signs shall be approved by the building official and where practicable, shall comply with the requirements specified in Chapter 10 of this code.

Section 403.2.4 Travel distance. No portion of a maze may be further than 50 feet from an obvious, marked exit out of the maze.

Section 403.2.5 Hazards. Open flame and flammable and combustible liquids are prohibited within such occupancies.

Section 403.2.6 Operating at reduced lighting levels.

Section 403.2.6.1 General. When such facilities operate at reduced lighting levels they shall adhere to the following provisions:

- 1. Guide(s).** Guides are required when haunted houses; fun houses and similar uses operate at reduced lighting levels. The guide(s) shall be responsible for complying with the following provisions:

Town of Marana Fire Code 2006 IFC Amendments

- A. When people enter such an occupancy, they shall be organized into a group not to exceed 20 persons (including the guides), and said group shall be accompanied by guides who shall be familiar with the facility.
 - B. The guides shall have an operable flashlight on their person at all times.
 - C. The guides shall have direct communication with an attendant located at the switch controlling the house lights.
- 2. Lighting attendant.** There shall be an attendant who can immediately turn on the house lights in case of an emergency.
- 3. Change of elevations.** Any change of elevation within a building or structure operating at reduced lighting level shall be provided with a minimum of one foot candle illumination at floor level.

Section 403.7 Fire protection. Fire protection for amusement buildings shall be in accordance with Section 903.2.10.4 of this code.

**Town of Marana Fire Code
2006 IFC Amendments**

CHAPTER 5

FIRE SERVICE FEATURES

SECTION 503 - FIRE APPARATUS ACCESS ROADS

Section 503.1 Where required is **AMENDED** to read:

503.1 Where required. Fire apparatus access roads shall be provided and maintained in accordance with Section 503.1.1 through 503.1.3, and Appendix D.

Section 503.2 Specifications is **AMENDED** to read:

503.2 Specifications. Fire apparatus access roads shall be installed and arranged in accordance with Section 503.2.1 through 503.2.7, and Appendix D.

Section 503.2.7 Grade is **AMENDED** to read:

503.2.7 Grade. The grade of the fire apparatus road shall comply with the provisions of Appendix D of this code.

Section 503.6 Security gates is **AMENDED** to read:

503.6 Security gates. The installation of security gates across a fire apparatus access road shall be approved by the fire code official. Where security gates are installed, they shall have an approved means of emergency operation. The security gates and the emergency operation shall be maintained operational at all times. See Appendix D of this code for detailed requirements.

Section 503.7 Maintenance is **ADDED** to read:

503.7 Maintenance. The person(s) in possession of the premises on and into which a fire apparatus access roadway is required shall be solely responsible for the maintenance of such roadways and all required signs. No owner, manager or other person(s) in charge of premises served by a required fire apparatus access roadway shall abandon or close the fire apparatus access roadway or any part thereof without permission of the fire code official.

The person(s) in possession of the premises shall be responsible in ensuring that fire apparatus access roadways are kept clear and unobstructed at all times.

SECTION 505 – PREMISES IDENTIFICATION

Section 505.1 Address numbers is hereby **AMENDED** to read:

505.1 Address numbers. New and existing buildings shall have approved address numbers, building numbers or approved building identification placed in a position that is plainly legible and visible from the street or road fronting the property. Address numbers shall be in accordance with Pima County or Town of Marana address display requirements.

SECTION 506 – KEY BOXES

Section 506.1 is revised by **Added** the second paragraph to read:

Town of Marana Fire Code 2006 IFC Amendments

506.1 All commercial buildings equipped with an automatic fire sprinkler system or automatic fire alarm system shall have a key box installed in an approved location. Key boxes shall be of an approved type and be of a size suitable for the number of keys to be placed inside. If keys are for different locks, they shall be identified accordingly.

SECTION 508 – FIRE PROTECTION WATER SUPPLIES

Section 508.1 Required water supply is **AMENDED** to read:

508.1 Required water supply. An approved water supply capable of supplying the required fire flow for fire protection shall be provided to premises upon which facilities, building or portions of buildings are hereafter constructed or moved into or within the jurisdiction.

Where commercial property is subdivided with or without the creation of public or private streets for the expressed purpose of providing said subdivided parcels for sale or otherwise permitting separate and/or individual development to occur, an approved water supply cable of providing the required fire flow for fire protection shall be provided and extended to serve directly any and all subdivided properties. The required fire flow shall be in accordance with Appendix B of this code.

Section 508.3 Fire flow is **REVISED** to read:

508.3 Fire flow. Fire flow requirements for buildings or portions of buildings and facilities shall be in accordance with Appendix B of this code.

508.5.1 Exceptions #2 is **REVISED** to read:

For buildings equipped throughout with an approved automatic sprinkler system installed in accordance with Section 903.3.11 or 903.3.1.2 the distance requirement shall be 500 feet. The Fire Department connection shall be no greater than 200 feet from the hydrant.

508.5.4 Obstructions is **REVISED** by **ADDING** a second paragraph to read:

Vehicles shall not be placed, parked, or kept within 15 feet of a fire hydrant.

Section 508.5.7 Reflective pavement markers is **ADDED** to read:

508.5.7 Reflective pavement markers. All fire hydrants shall be identified by the installation of approved blue reflective pavement markers placed in accordance with the requirements of the fire code official and the Town of Marana.

**Town of Marana Fire Code
2006 IFC Amendments**

CHAPTER 9

FIRE PROTECTION SYSTEMS

SECTION 901 – GENERAL

Section 901.2.2 Plans for fire sprinkler systems. Is hereby **ADDED**:

Section 901.2.2 Plans for fire sprinkler systems. Complete plans and hydraulic calculations for fire sprinkler systems installations shall be submitted for review and approval prior to beginning installation, modification or alteration.

Plans shall be drawn to an indicated scale, on sheets of uniform size and shall show, as a minimum the data required by NFPA 13-2002 Edition, Chapter 8. Water supply data for hydraulic calculations shall be based on 90 percent of the available water supply as determined by flow test information.

Section 901.4 Installation is hereby **AMENDED** by **REPEALING** the word “**Required**” in the second sentence:

Section 901.4 Installation. Fire protection systems shall be maintained in accordance with the original installation standards for that system. Systems shall be extended, altered, or augmented as necessary to maintain and continue protection whenever the building is altered, remodeled or added to. Alterations to fire protection systems shall be done in accordance with applicable standards.

Section 901.7 Systems out of service is hereby **AMENDED** by **ADDING** a third paragraph to read as follows:

No required fire sprinkler system or fire alarm system shall be placed out of service for more than 8 hours in any 24 hour period without authorization by the fire code official.

This section is further **REVISED** by **REPEALING** (in their entirety) Sections 901.7.1 through 901.7.6 and **REPLACED** with the following:

901.7.1 Notification. The person placing the fire protection system (or portion thereof) out of service shall notify the fire code official of the time the system is placed out of service and an estimate of time the system (or portion thereof) will be out of service. Upon completion of the work on the system, the fire code official must be notified when the system (or portion thereof) is placed back in service.

SECTION 903 – AUTOMATIC FIRE SPRINKLER SYSTEMS

Section 903.2.1 Group A is **DELETED** (in its entirety) and **REPLACED** as follows:

Town of Marana Fire Code 2006 IFC Amendments

903.2.1 Group A. An automatic sprinkler system shall be provided throughout all Group A occupancies.

Section 903.2.2 Is renamed Group B. Group E is renumbered.

903.2.2 Group B. An automatic sprinkler system shall be provided throughout all Group B occupancies.

Section 903.2.2 Group E #1. is **DELETED** (in its entirety), **RENUMBERED** and **REPLACED**

903.2.3 Group E. An automatic sprinkler system shall be provided throughout all Group E occupancies.

Section 903.2.3 Group F is **DELETED** (in its entirety), **RENUMBERED** and **REPLACED** as follows:

903.2.4 Group F. An automatic sprinkler system shall be provided throughout all Group F occupancies.

Section 903.2.4 Group H is **RENUMBERED** as follows:

903.2.5 Group H. Automatic sprinkler systems shall be provided in high-hazard occupancies as required in Sections 903.2.5.1 through 903.2.5.3.

903.2.5.1 General. An automatic sprinkler system shall be installed in Group H occupancies.

903.2.5.2 Group H-5 occupancies. An automatic sprinkler system shall be installed throughout buildings containing Group H-5 occupancies. The design of the sprinkler system shall not be less than that required under the International Building Code for the occupancy hazard classifications in accordance with Table 903.2.5.2.

Where the design area of the sprinkler system consists of a corridor protected by one row of sprinklers, the maximum number of sprinklers required to be calculated is 13.

**Town of Marana Fire Code
2006 IFC Amendments**

**TABLE 903.2.45.2
GROUP H-5 SPRINKLER DESIGN CRITERIA**

LOCATION	OCCUPANCY HAZARD CLASSIFICATION
Fabrication areas	Ordinary Hazard Group 2
Service corridors	Ordinary Hazard Group 2
Storage Rooms without dispensing	Ordinary Hazard Group 2
Storage Rooms with dispensing	Extra Hazard Group 2
Corridors	Ordinary Hazard Group 2

903.2.45.3 Pyroxylin plastics. An automatic sprinkler system shall be provided in buildings, or portions thereof, where cellulose nitrate film or pyroxylin plastics are manufactured, stored or handled in quantities exceeding 100 pounds (45 kg).

Section 903.2.5 Group I is RENUMBERED as follows:

903.2.6 Group I. An automatic sprinkler system shall be provided throughout buildings with a Group I fire area.

Exception: An automatic sprinkler system installed in accordance with Section 903.3.1.2 or 903.3.1.3 shall be allowed in Group I-1 facilities.

Section 903.2.6 Group M is DELETED (in its entirety), **RENUMBERED** and **REPLACED** as follows:

903.2.7 Group M. An automatic sprinkler system shall be provided throughout all Group M occupancies.

Section 903.2.8 Group R is DELETED (in its entirety), **RENUMBERED** and **REPLACED** as follows:

903.2.8 Group R. An automatic sprinkler system shall be provided throughout all Group R occupancies in accordance with this section.

903.2.8.1 Group R-1. An automatic sprinkler system shall be provided throughout all Group R-1 occupancies.

903.2.8.2 Group R-2. An automatic sprinkler system shall be provided throughout all Group R-2 occupancies.

903.2.8.3 Group R-3. An automatic sprinkler system shall be provided throughout all Group R-3 occupancies that does not meet the fire flow as outlined in B105.1. An automatic sprinkler system installed in accordance with Section 903.3.1.2 or 903.3.1.3 shall be allowed in Group R-3 occupancies.

Town of Marana Fire Code 2006 IFC Amendments

903.2.8.4 Group R-4. An automatic sprinkler system shall be provided throughout all newly constructed Group R-4 occupancies in compliance with NFPA 13R as directed by Marana Ordinance.

Exception: An automatic sprinkler system installed in accordance with Section 903.3.1.2 or 903.3.1.3 shall be allowed in Group R-4 occupancies.

Exception: Existing R-4 occupancies shall be retrofitted in compliance with NFPA 13D within 24 months.

Section 903.2.8 Group S-1 is DELETED (in its entirety), RENUMBERED and REPLACED as follows:

903.2.9 Group S. An automatic sprinkler system shall be provided throughout all Group S occupancies.

Section 903.2.10 All occupancies except Groups R-3 and U is DELETED (in its entirety) and REPLACED as follows:

903.2.10 All occupancies except Groups R-3 and U. An automatic sprinkler system shall be installed in the locations set forth in Sections 903.2.10 and 903.2.10.2.

Section 903.3.1.1.1 Exempt locations is REVISED by DELETING Item 4:

903.3.1.1.1 Exempt locations. Automatic sprinklers shall not be required in the following rooms or areas where such rooms or areas are protected with an approved automatic fire detection system in accordance with Section 907.2 that will respond to visible or invisible particles of combustion. Sprinklers shall not be omitted from any room merely because it is damp, of fire-resistance rated construction or contains electrical equipment.

1. Any room where the application of water, or flame and water, constitutes a serious life or fire hazard.
2. Any room or space where sprinklers are considered undesirable because of the nature of the contents, when approved by the fire code official.
3. Generator and transformer rooms separated from the remainder of the building by walls and floor/ceiling or roof/ceiling assemblies having a fire-resistance rating of not less than 2 hours.

903.3.5.1.2 Residential combination services. A single combination water supply shall be permitted provided that the domestic demand is added to the sprinkler demand as required by NFPA 13R.

Section 903.3.8 Installation requirements is ADDED as follows:

903.3.8 Access to fire sprinkler riser room. Fire sprinkler risers and shut off controls shall be located in an enclosed riser room directly accessible from the outside of the building

Section 903.4 Sprinkler system monitoring and alarms is added as follows:

8. Underground key or hub valves in roadway boxes provided for use by the municipality of public utility.

Town of Marana Fire Code 2006 IFC Amendments

Section 903.4.1 Signals is **REVISED** as follows:

Exceptions:

1. For automatic sprinkler systems protecting one- and two-family dwellings installed in accordance with NFPA13D, the water flow switch shall be permitted to sound a local alarm only.
2. Backflow prevention device shutoff valves shall be locked in the open position. The backflow prevention shutoff valves shall be electrically supervised by a tamper switch installed in accordance with NFPA 72 and separately annunciated.

Section 903.6 Existing Buildings is **REVISED** by **ADDING** the following subsection:

903.6.2 Fire area increase. Any addition to an existing structure, where the square footage of the new addition is greater than 25% of the total square footage of the existing structure and the required fire flow for the total fire area (new & existing) is not equal to the fire flow required by Appendix B of the fire code, shall require that the entire structure be equipped throughout with an approved automatic fire extinguishing system.

SECTION 904–ALTERNATE AUTOMATIC FIRE–EXTINGUISHING SYSTEMS

Section 904.11.2 System interconnection is **AMENDED** to read:

904.11.2 System interconnection. The actuation of the fire suppression system shall automatically shut down the fuel or electrical power supply to the cooking equipment and to all electrical receptacles located within the perimeter of the protected exhaust hood. The fuel and electrical supply reset shall be manual.

**Town of Marana Fire Code
2006 IFC Amendments**

CHAPTER 10

MEANS OF EGRESS

SECTION 1008 – DOORS, GATES AND TURNSTILES

Section 1008.1.3.4. Access-controlled egress doors. Item 3 is REVISED as follows:

1008.1.3.4 Access-controlled egress doors. The entrance doors in a means of egress in buildings with an occupancy in Group A, B, E, M, R-1 or R-2 and entrance doors to tenant spaces in occupancies in Groups A, B, E, M, R-1 and R-2 are permitted to be equipped with an approved entrance and egress access control system which shall be installed in accordance with all of the following criteria:

1. A sensor shall be provided on the egress side arranged to detect an occupant approaching the doors. The doors shall be arranged to unlock by a signal from or loss of power to the sensor.
2. Loss of power to that part of the access control system which locks the doors shall automatically unlock the doors.
3. The doors shall be arranged to unlock from a manual unlocking device located 40 inches to 48 inches (1016 mm to 1219 mm) vertically above the floor and within 5 feet (1524 mm) of the secured doors. Ready access shall be provided to the manual unlocking device and the device shall be clearly identified by a sign that reads: PUSH TO EXIT. Lettering shall be at least 1 inch (25mm) in height and shall have a stroke of not less than 1/8 inch (3.2mm), on a contrasting background next to unlocking device. When operated, the manual unlocking device shall result in direct interruption of power to the lock, independent of the access control system electronics, and the doors shall remain unlocked for a minimum of 30 seconds.
4. Activation of the building fire alarm system, if provided, shall automatically unlock the doors, and the doors shall remain unlocked until the fire alarm system has been reset.
5. Activation of the building automatic sprinkler or fire detection system, if provided, shall automatically unlock the doors. The doors shall remain unlocked until the fire alarm system has been reset.
6. Entrance doors in buildings with an occupancy in Group A, B, E or M shall not be secured from the egress side during periods that the building is open to the general public.

Section 1008.1.8.6 Delayed egress locks. Item 5 is REVISED as follows:

1008.1.8.6 Delayed egress locks. Approved, listed, delayed egress locks shall be permitted to be installed on doors serving any occupancy except Group A, E and H occupancies in buildings that are equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or an

Town of Marana Fire Code 2006 IFC Amendments

approved automatic smoke or heat detection system installed in accordance with Section 907, provided that the doors unlock in accordance with Items 1 through 6 below. A building occupant shall not be required to pass through more than one door equipped with a delayed egress lock before entering an exit.

1. The doors unlock upon actuation of the automatic sprinkler system or automatic fire detection system.
2. The doors unlock upon loss of power controlling the lock or lock mechanism.
3. The door locks shall have the capability of being unlocked by a signal from the fire command center.
4. The initiation of an irreversible process which will release the latch in not more than 15 seconds when a force of not more than 15 pounds (67 N) is applied for 1 second to the release device. Initiation of the irreversible process shall activate an audible signal in the vicinity of the door. Once the door lock has been released by the application of force to the releasing device, relocking shall be by manual means only.

Exception: Where approved, a delay of not more than 30 seconds is permitted.

5. A sign shall be provided on the door located above and within 12 inches (305 mm) of the release device reading: PUSH UNTIL ALARM SOUNDS. DOOR CAN BE OPENED IN 15 [30] SECONDS. Lettering shall be at least 1 inch (25mm) in height and shall have a stroke of not less than 1/8 inch (3.2mm), on a contrasting background.
6. Emergency lighting shall be provided at the door.

**Town of Marana Fire Code
2006 IFC Amendments**

CHAPTER 11

AVIATION FACILITIES

SECTION 1106 - AIRCRAFT FUELING

Section 1106.3 Construction of aircraft-fueling vehicles and accessories is **REVISED** by **ADDING** the words “and NFPA 385” to the end of the sentence as follows:

1106.3 Construction of aircraft-fueling vehicles and accessories.

Aircraft-fueling vehicles shall comply with this section and shall be designed and constructed in accordance with NFPA 407 and NFPA 385.

CHAPTER 14

FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION

SECTION 1410 – ACCESS FOR FIRE FIGHTING

Section 1410.2 Key boxes is **REVISED** as follows:

1410.2 Key boxes or padlocks. Key boxes or padlocks shall be provided as required by Chapter 5.

SECTION 1412 – WATER SUPPLY FOR FIRE PROTECTION

Section 1412.1 When required is **REVISED** as follows:

1412.1 When required. Fire hydrants connected to an approved water supply for fire protection, shall be installed and in service prior to placing combustible material on site.

SECTION 1414 – AUTOMATIC SPRINKLER SYSTEMS

Section 1414.1 Completion before occupancy is **REVISED** as follows:

1414.1 Completion before occupancy. In buildings where an automatic sprinkler system is required by this code or the International Building Code, it shall be unlawful to occupy any portion of a building or structure until the automatic sprinkler system installation has been tested and approved, except as provided in Section 105.3.4.

**Town of Marana Fire Code
2006 IFC Amendments**

CHAPTER 22

SERVICE STATIONS AND REPAIR GARAGES

SECTION 2208 - COMPRESSED NATURAL GAS MOTOR FUEL-DISPENSING FACILITIES

Section 2208.3. Location of dispensing operation and equipment is **REVISED** by **ADDING** the subsection as follows:

2208.3 Location of dispensing operations and equipment. Compression, storage and dispensing equipment shall be located above ground, outside.

Exceptions:

1. Compression, storage or dispensing equipment shall be allowed in buildings of noncombustible construction, as set forth in the International Building Code, which are unenclosed for three quarters or more of the perimeter.
2. Compression, storage and dispensing equipment shall be allowed indoors in accordance with Chapter 30.

2208.3.1 Location on property. In addition to the requirements of Section 2203.1, compression, storage and dispensing equipment shall be installed as follows:

1. Not beneath power lines.
2. Ten feet (3048 mm) or more from the nearest building or lot line which could be built on, public street, sidewalk, or source of ignition.

Exception: Dispensing equipment need not be separated from canopies that are constructed in accordance with the International Building Code and which provide weather protection for the dispensing equipment.

3. Twenty-five feet (7620 mm) or more from the nearest rail of any railroad track and 50 feet (15 240 mm) or more from the nearest rail of any railroad main track or any railroad or transit line where power for train propulsion is provided by an outside electrical source such as third rail or overhead catenary.
4. Fifty feet (15 240 mm) or more from the vertical plane below the nearest overhead wire of a trolley bus line.

2208.3.2 Vehicle impact protection. Vehicle impact protection for CNG gas storage containers, pumps and dispensers shall be provided in accordance with Section 312.

**Town of Marana Fire Code
2006 IFC Amendments**

CHAPTER 24

**TENTS, CANOPIES AND OTHER MEMBRANE
STRUCTURES**

**SECTION 2403 – TEMPORARY, TENTS, CANOPIES AND MEMBRANE
STRUCTURES**

2403.2 Approval required. Tents and membrane structures having an area in excess of 400 square feet (37m²) and canopies in excess of 900 square feet (84m²) shall not be erected, operated or maintained for any purpose without first obtaining a permit and approval from the fire code official.

Exceptions:

1. Tents used exclusively for recreational camping purposes.

Section 2403.8.2 Location is **REVISED** as follows:

2403.8.2 Location. Tents, canopies or membrane structures shall not be located within 20 feet (6096 mm) of lot lines, buildings, other tents, canopies or membrane structures. For the purpose of determining required distances, support ropes and guy wires shall be considered as part of the temporary membrane structure, tent or canopy.

Exceptions:

1. Separation distance between membrane structures, tents and canopies not used for cooking, is not required when the aggregate floor area does not exceed 15,000 square feet (1394 m²).
2. Membrane structures, tents or canopies need not be separated from buildings when all of the following conditions are met:
 - 2.1. The aggregate floor area of the membrane structure, tent or canopy shall not exceed 10,000 square feet (929 m²).
 - 2.2. The aggregate floor area of the building and membrane structure, tent or canopy shall not exceed the allowable floor area including increases as indicated in the International Building Code.
 - 2.3. Required means of egress provisions are provided for both the building and the membrane structure, tent or canopy, including travel distances.
 - 2.4. Fire apparatus access roads are provided in accordance with Section 503.

Section 2403.12.3 Exit openings from tents. Item 2 is **REVISED** as follows:

2403.12.3 Exit openings from tents. Exit openings from tents shall remain open unless covered by a flame-resistant curtain. The curtain shall comply with the following requirements:

Town of Marana Fire Code 2006 IFC Amendments

1. Curtains shall be free sliding on a metal support. The support shall be a minimum of 80 inches (2032 mm) above the floor level at the exit. The curtains shall be so arranged that, when open, no part of the curtain obstructs the exit.
2. Curtains shall be of a color, or colors, that contrasts with the color of the tent or is adequately marked otherwise indicating an exit opening.

Section 2403.12.4 Doors is hereby **REVISED** as follows:

2403.12.4 Doors. Exit doors shall swing in the direction of exit travel. To avoid hazardous air and pressure loss in air-supported membrane structures, such doors shall be automatic closing against operating pressures. Opening force at the door edge shall not exceed 15 pounds (7 kg). Doors that latch shall have panic hardware installed and operating at all times.

CHAPTER 26

WELDING AND OTHER HOT WORK

SECTION 2604 - FIRE SAFETY REQUIREMENTS for Welding and Hot work

Section 2604.2.6 Fire extinguisher is **REVISED** as follows:

2604.2.6 Fire extinguisher. A minimum of one portable fire extinguisher complying with Section 906 and with a minimum 2-A:20-B:C rating shall be readily accessible within 30 feet (9144 mm) of the location where hot work is performed. The fire extinguisher(s) shall be readily accessible without climbing stairs or ladders.

Section 2604.3.1 Pre-hot-work check is **REVISED** as follows:

2604.3.1 Pre-hot-work check. A pre-hot-work check shall be conducted prior to work to ensure that all equipment is safe and hazards are recognized and protected. A report of the check shall be kept at the work site during the work and available upon request. The pre-hot-work check shall determine all of the following:

1. Hot work equipment to be used shall be in satisfactory operating condition and in good repair. Damaged, leaking or worn hoses shall not be used.
2. Hot work site is clear of combustibles or combustibles are protected.
3. Exposed construction is of noncombustible materials or, if combustible, then protected.
4. Openings are protected.
5. Floors are kept clean.
6. No exposed combustibles are located on the opposite side of partitions, walls, ceilings or floors.
7. Fire watches, where required, are assigned.

Town of Marana Fire Code 2006 IFC Amendments

8. Approved actions have been taken to prevent accidental activation of suppression and detection equipment in accordance with Sections 2604.1.8 and 2604.1.9.
9. Fire extinguishers and fire hoses (where provided) are operable and available.

SECTION 2606 - ELECTRIC ARC HOT WORK

Section 2606.4 Emergency disconnect is **REVISED** as follows:

2606.4 Emergency disconnect. A switch or circuit breaker shall be provided so that fixed electric welders and control equipment can be disconnected from the supply circuit. The disconnect shall be installed in accordance with the ICC Electrical Code. The disconnect shall be marked **EMERGENCY DISCONNECT** and shall be visible from the equipment.

CHAPTER 33

EXPLOSIVES AND FIREWORKS

SECTION 3308 – FIREWORKS DISPLAY

Section 3308.10 Disposal is **REVISED** as follows:

3308.10 Disposal. Any unexploded shells or live components found after the display shall not be approached or handled until at least (1) hour has elapsed from the time the shells were fired. Any unexploded aerial shells or live components become the responsibility of the fire official and the operator. Shells that fail to lift from the mortar shall be considered misfires and shall be evaluated by the operator prior to any action taken. Shells that explode inside the mortar shall be evaluated by the fire code official and the operator prior to any action taken.

CHAPTER 34

FLAMMABLE AND COMBUSTIBLE LIQUIDS

SECTION 3404 - STORAGE

Section 3404.3.3.3 Clear means of egress is **REVISED** as follows

3404.3.3.3 Clear means of egress. Storage of any liquids, including stock for sale, shall not be stored within 10 feet of an exit door or be allowed to obstruct physically the route of egress.

SECTION 3406 – SPECIAL OPERATIONS

Section 3406.5.4.5 Commercial, industrial, government or manufacturing is **REPLACED** the first paragraph with the following:

Town of Marana Fire Code 2006 IFC Amendments

3406.5.4.5 Commercial, industrial, governmental or manufacturing. The transferring of liquids used as fuels from tank vehicles into the fuel tanks of motor vehicles or special equipment located at commercial, industrial, governmental or manufacturing establishments is allowed where permitted, provided such dispensing operations are conducted in accordance with this section.

Section 3406.5.4.5 Commercial, industrial, government or manufacturing is further **REVISED** by **ADDING** the following subsections:

25. Prior to removal of the fuel cap, the bond wire cable shall be securely clamped to the vehicle being fueled.

26. At no time shall the fueling hose extend across a trafficable lane without florescent traffic cones conspicuously placed so that all vehicle traffic is blocked. Vehicles shall not drive over any delivery hose.

27. Fuel expansion space shall be provided in each motor vehicle tank to prevent overflow.

28. The fuel cap of the vehicle being fueled shall be replaced prior to disconnecting the bonding cable.

Section 3406.5.4.6 Prohibition is **ADDED** to read:

3406.5.4.6 Prohibition. Tank vehicles and tank trailers shall not be used as on-site storage containers.

CHAPTER 38

LIQUEFIED PETROLEUM GASES

SECTION 3803 - INSTALLATION OF EQUIPMENT

Section 3803.2.1.7 Use for food preparation is **DELETED** (in its entirety) and **REPLACED** with the following:

3803.2.1.7 USE FOR FOOD PREPARATION. Listed and approved LP-gas commercial food service appliances shall be permitted to be used inside restaurants and in attended commercial food catering operations provided that no commercial food service appliances shall have more than two, 10-oz non-refillable butane gas containers having a maximum water capacity of 1.08 lbs. per container connected directly to the appliance at any time and containers shall not be manifolded. The appliance fuel container(s) shall be an integral part of the listed, approved commercial food service device and shall be connected without the use of a rubber hose. Butane containers shall be listed. Storage in

Town of Marana Fire Code 2006 IFC Amendments

restaurants and at food service locations of 10-oz butane non-refillable containers shall be limited to no more than twenty-four containers.

SECTION 3811 PARKING AND GARAGING

Section 3811.2.2 Durations exceeding 1 hour is **REVISED** by **DELETING** item #1.

3811.2.2 Durations exceeding 1 hour. Liquefied petroleum gas tank vehicles parked at any one point for longer than 1 hour shall be located as follows:

1. Inside of a bulk plant.
2. At other approved locations not less than 50 feet (15240 mm) from buildings other than those approved for the storage or servicing of such vehicles.

**Town of Marana Fire Code
2006 IFC Amendments**

APPENDIX A

BOARD OF APPEALS

The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.

Appendix A is REVISED as follows:

SECTION A101 GENERAL

A101.1 Scope. A Northwest Fire District board of appeals is hereby established for the purpose of hearing applications for modification of the requirements of the Northwest Fire District Fire Code pursuant to the provisions of Section 108. The board shall be established and operated in accordance with this section, and shall be authorized to hear evidence from appellants and the fire code official pertaining to the application and intent of this code for the purpose of issuing orders pursuant to these provisions.

A101.2 Membership. The membership of the board shall consist of all of the voting members of the Northwest Fire District Board of Directors.

A101.3 Terms of office. Members shall be appointed for terms in accordance with district by-laws.

A101.3.1 Initial appointments. Appointments to the board shall be in accordance with district by-laws.

A101.3.2 Vacancies. Vacancies shall be filled in accordance with district by-laws.

A101.3.3 Removal from office. Members shall be removed from office filled in accordance with district by-laws.

A101.4 Quorum. A majority of the board members shall constitute a quorum. In varying the application of any provisions of this code or in modifying an order of the fire code official, affirmative votes of the majority present shall be required.

A101.5 Secretary of board. The District shall provide a secretary to the board, who shall keep a detailed record of all its proceedings, which shall set forth the reasons for its decisions, the vote of each member, the absence of a member and any failure of a member to vote.

A101.6 Legal counsel. The jurisdiction shall furnish legal counsel to the board to provide members with general legal advice concerning matters before them for consideration. Members shall be represented by legal

Town of Marana Fire Code 2006 IFC Amendments

counsel at the jurisdiction's expense in all matters arising from service within the scope of their duties.

A101.7 Meetings. The board shall meet at least once a month. In any event, the board shall meet within 10 days after notice of appeal has been received.

A101.8 Conflict of interest. Members with a material or financial interest in a matter before the board shall declare such interest and refrain from participating in discussions, deliberations, and voting on such matters.

A101.9 Decisions. Every decision shall be promptly filed in writing in the office of the fire code official and shall be open to public inspection. A certified copy shall be sent by mail or otherwise to the appellant, and a copy shall be kept publicly posted in the office of the fire code official for 2 weeks after filing.

A101.10 Procedures. The board shall be operated in accordance with the district's by-laws.

**Town of Marana Fire Code
2006 IFC Amendments**

APPENDIX B

FIRE-FLOW REQUIREMENTS FOR BUILDINGS

Section B105.2 Buildings other than one- and two-family dwellings is **REVISED** as follows:

B105.2 Buildings other than one- and two-family dwellings. The minimum fire flow and flow duration for buildings other than one- and two-family dwellings shall be as specified in Table B105.1.

Exception: A reduction in required fire flow of up to 75 percent, as approved, is allowed when the building is provided with an approved automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2 of the International Fire Code. The resulting fire flow shall not be less than 1,500 gallons per minute (5678 l/min) for the prescribed duration as specified in Table B105.1.

Town of Marana Fire Code 2006 IFC Amendments

APPENDIX D FIRE APPARATUS ACCESS ROADS is REVISED and RENUMBERED as follows:

APPENDIX D

FIRE APPARATUS ACCESS ROADS

SECTION D101 - GENERAL

D101.1 Scope. Fire apparatus access roads shall be in accordance with this appendix and all other applicable requirements of the *international fire code*.

SECTION D102 - REQUIRED ACCESS

D102.1 Access and loading. Facilities, buildings or portions of buildings hereafter constructed shall be accessible to fire department apparatus by way of an approved all-weather fire apparatus access road with an asphalt, concrete or other approved driving surface capable of supporting the imposed load of fire apparatus weighing at least 75,000 pounds (34 050 kg).

SECTION D103 MINIMUM SPECIFICATIONS

D103.1 Access road width with a hydrant. Where a fire hydrant is located on a fire apparatus access road, the minimum road width shall be 26 feet (7925 mm). See Figure D103.1

D103.2 Grade. Fire apparatus access roads shall not exceed 12 percent in grade.

Exception: Grades steeper than 10 percent as approved by the fire code official.

D103.3 Driveways. Driveways exceeding 150 feet in length providing access to dwellings units shall provide a minimum unobstructed width of 14 feet (3658 mm) and a minimum unobstructed height of 13 feet 6 inches (4115 mm). Driveways in excess of 150 feet (45 720 mm) in length shall be provided with turnarounds. Driveways in excess of 200 feet (60 960 mm) in length and less than 20 feet (6096 mm) in width shall be provided with turnouts in addition to turnarounds.

A driveway shall not serve in excess of five dwelling units.

Driveway turnarounds shall have inside turning radii of not less than 30 feet (9144 mm) and outside turning radii of not less than 45 feet (13 716 mm). Driveways that connect with a road or roads at more than one point may be considered as having a turnaround if all changes of direction meet the radii requirements for driveway turnarounds.

Town of Marana Fire Code 2006 IFC Amendments

Driveway turnouts shall be an all-weather road surface at least 10 feet (3048 mm) wide and 30 feet (9144 mm) long. Driveway turnouts shall be located as required by the code official.

Vehicle load limits shall be posted at both entrances to bridges on driveways and private roads. Design loads for bridges shall be established by the code official.

D103.4 Turning Radius. The minimum turning radius shall be based on a SU-30 design vehicle.

D103.5 Dead ends. Dead-end fire apparatus access roads in excess of 150 feet (45,720 mm) shall be provided with width and turnaround provisions in accordance with Table D103.5.

**TABLE D103.5
REQUIREMENTS FOR DEAD-END FIRE APPARATUS ACCESS ROADS**

LENGTH (FEET)	WIDTH (FEET)	TURNAROUNDS REQUIRED
0-150	20	NONE REQUIRED
151-600	20	HAMMERHEAD, "Y" OR CUL-DE-SAC IN ACCORDANCE WITH FIGURES D103.1, D103.2 AT TERMINAL END
601-1200	26	HAMMERHEAD, "Y" OR CUL-DE-SAC IN ACCORDANCE WITH FIGURES D103.1, D103.2 AT TERMINAL END AND MIDWAY
OVER 1200	26	APPROVED AUTOMATIC SPRINKLER SYSTEM INSTALLED THROUGHOUT ALL OCCUPANCIES. HAMMERHEAD, "Y" OR CUL-DE-SAC IN ACCORDANCE WITH FIGURES D103.1, D103.2 AT TERMINAL END AND AT EACH 600 FEET.

D103.6 Fire apparatus access road gates. Gates securing the fire apparatus access roads shall comply with all of the following criteria:

1. The minimum gate width shall be 20 feet (6096 mm) when serving two directions, or 14 feet when serving a single direction.
2. Gates shall be of the swinging or sliding type.
3. Construction of gates shall be of materials that allow manual operation by one person.
4. Gate components shall be maintained in an operative condition at all times and replaced or repaired when defective.
5. Electric gates shall be equipped with and have installed, approved preemptive control opening equipment compatible with the fire department's existing system. A key switch will also be required on all electric control gates.

Town of Marana Fire Code 2006 IFC Amendments

6. Manual opening gates shall not be locked with a padlock or chain and padlock unless they are capable of being opened by means of forcible entry tools or a key box containing the key(s) to the lock is installed at the gate location.
7. Locking device specifications shall be submitted for approval by the fire code official.

D103.6.1 Existing Fire Apparatus Access Road Gates. Existing gates securing fire apparatus access roads shall comply with d103.6.

Exception: existing electric gates shall have installed approved preemptive control opening equipment compatible with the fire department's existing system within 18 months from the effective date of this code.

D103.7 Signs. Where required by the fire code official, fire apparatus access roads shall be marked with permanent NO PARKING—FIRE LANE signs complying with District and Town of Marana standards. Signs shall have a minimum dimension of 12 inches (305 mm) wide by 18 inches (457 mm) high and have red letters on a white reflective background. Signs shall be posted on one or both sides of the fire apparatus road as required by Section D103.7.1 or D103.7.2. Compliance with the provisions of this section shall be at no expense to the District or the Town.

D103.7.1 Roads 20 feet wide, but less than 26 feet in width. Fire apparatus access roads less than 26 feet wide (6096 to 7925 mm) shall be posted on both sides as a fire lane.

D103.6 7. 2 Roads 26 feet wide, but less than 32 in width. Fire apparatus access roads 26 feet wide (7925 mm) but less than 32 feet wide (9754 mm) shall be posted on one side of the road as a fire lane. Where parking lanes are provided, they must be 8 feet in width. This is measured from the back of a wedge or rolled curb or the face of a vertical curb.

Section D106 – MULTI-FAMILY RESIDENTIAL DEVELOPMENTS

D106.1 Projects having more than 100 dwelling units.

ADD the following:

and shall meet the requirements of D104.3.

D106.2 Projects having more than 200 dwelling units

ADD the following:

and shall meet the requirements of D104.3.

Town of Marana Fire Code 2006 IFC Amendments

The following have been deleted and reserved from these amendments

- 105.6.5 Cellulose nitrate film. DELETED/RESERVED
- 105.6.3 Aviation facilities. DELETED/RESERVED
- 105.6.1 Aerosol products. DELETED/RESERVED
- 105.6.6. Combustible dust-producing operations. DELETED/RESERVED
- 105.6.7 Combustible fibers. DELETED/RESERVED
- 105.6.8. Compressed gases. DELETED/RESERVED
- 105.6.10 Cryogenic fluids. DELETED/RESERVED
- 105.6.11 Cutting and welding. DELETED/RESERVED
- 105.6.12 Dry cleaning plants. DELETED/RESERVED
- 105.6.15 Fire hydrants and valves. DELETED/RESERVED
- 105.6.16 Flammable and combustible liquids. DELETED/RESERVED
- 105.6.17 Floor finishing. DELETED/RESERVED
- 105.6.18 Fruit and crop ripening. DELETED/RESERVED
- 105.6.19 Fumigation and thermal insecticidal fogging. DELETED/RESERVED
- 105.6.20 Hazardous materials. DELETED/RESERVED
- 105.6.21 HPM facilities. DELETED/RESERVED
- 105.6.22 High-piled storage. DELETED/RESERVED
- 105.6.23 Hot work operations. DELETED/RESERVED
- 105.6.24 Industrial ovens. DELETED/RESERVED
- 105.6.25 Lumber yards and woodworking plants. DELETED/RESERVED
- 105.6.27 LP-gas. DELETED/RESERVED
- 105.6.28 Magnesium. DELETED/RESERVED
- 105.6.29 Miscellaneous combustible storage. DELETED/RESERVED
- 105.6.31 Open flames and torches. DELETED/RESERVED
- 105.6.32 Open flames and candles.
- 105.6.33 Organic coatings. DELETED/RESERVED
- 105.6.34 Places of assembly.
- 105.6.35 Private fire hydrants. DELETED/RESERVED
- 105.6.37 Pyroxylin plastics. DELETED/RESERVED
- 105.6.38 Refrigeration equipment. DELETED/RESERVED
- 105.6.39 Repair garages and motor fuel-dispensing facilities. DELETED/
RESERVED
- 105.6.40 Rooftop heliports. DELETED/RESERVED
- 105.6.41 Spraying or dipping. DELETED/RESERVED
- 105.6.42 Storage of scrap tires and tire byproducts. DELETED/RESERVED
- 105.6.44 Tire-rebuilding plants. DELETED/RESERVED
- 105.6.45 Waste handling. DELETED/RESERVED
- 105.6.46 Wood products. DELETED/RESERVED
- 105.7.3 Compressed gases. DELETED/RESERVED
- 105.7.6 Flammable and combustible liquids. DELETED/RESERVED
- 105.7.7 Hazardous materials. DELETED/RESERVED
- 105.7.8 Industrial ovens. DELETED/RESERVED
- 105.7.9 LP-gas. DELETED/RESERVED
- 105.7.10 Private fire hydrants. DELETED/RESERVED

Town of Marana Fire Code 2006 IFC Amendments

105.7.11 Spraying or dipping. DELETED/RESERVED

302.1 Definitions. The definition of BONFIRE is hereby DELETED/RESERVED.

307.3.1 Bonfires is hereby REPEALED (in its entirety) and the Section is RESERVED.