

**CITY OF BUCKEYE**

**JANUARY 2014**

**BUILDING CODES UPDATE**

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## CHAPTER 15 BUILDING REGULATIONS

### Section 15-2-1 Building Code

A. Building Code Adopted. That certain document designated and marked as the 2012 International Building Code, including appendices B, C, F, I, and J, and specifically excluding all other appendices contained therein, three (3) copies of which are on file in the office of the city clerk, and those portions of the documents entitled the “2012 International Residential Code, the 2012 International Mechanical Code, the 2012 International Plumbing Code, the 2011 National Electrical Code, the 2012 International Fuel Gas Code, the 2012 International Energy Conservation Code, the 2012 International Existing Building Code and the 2012 International applicable to the 2012 International Building Code”, as all may be amended by the city, three (3) copies of which are on file in the office of the city clerk, together are hereby adopted by reference as the city's uniform building code as if fully set forth herein for the regulation and governance of the installation, construction, remodeling, alteration, repair and conversion of buildings within the corporate limits of the city, and it is hereby declared to be unlawful to be in violation of any provision of the city's uniform building code or cause or permit the same to be done, contrary to or in violation of any of the provisions of the city's uniform building code as hereby adopted by the city council.

B. City of Buckeye Amendments to the 2012 International Building Code.

**Section 101.1 Title.** Insert the words “City of Buckeye” as the name of jurisdiction.

**Section 101.2.1 Appendices.** Delete in its entirety and replace with the following:

**101.2.1 Appendices.** The following appendices are adopted by City of Buckeye: Appendices B: Board of Appeals, C: Group U – Agricultural Buildings, F: Rodent Proofing, I: Patio Covers, and J: Grading.

**Section 101.4 Referenced codes.** Delete in its entirety and replace with the following:

**101.4 Referenced codes.** The other codes listed in Sections 101.4.1 through 101.4.6 and referenced elsewhere in this code shall be considered part of the requirements of this code to the prescribed extent of each reference. If another code is referenced elsewhere in this code and has not been adopted, then that section shall be considered invalid.

**Section 101.4.3 Plumbing.** Delete the last sentence which reads as follows: “The provisions of the International Private Sewage Disposal Code shall apply to private sewage disposal systems”.

**Section 101.4.4 Property maintenance.** Add the following after the last sentence:

**101.4.4 Property maintenance.** Any references to the International Property Maintenance Code shall be deleted and the words “International Property Maintenance Code as adopted by the City of Buckeye and amended from time to time” shall be inserted in lieu thereof.

**Section 105.2 Work exempt from permits.** Amend as follows:

Delete items: 2. Fences not over 7 feet high

4. Retaining walls that are not over 4 feet in height measured from bottom of footing to top of wall, unless supporting a surcharge or impounding I, II, or IIIA liquids.

Replace item 2 with the following: "2. Fences not over 3 feet high."

Delete Item 9 and replace item 9 with the following:

9. Prefabricated swimming pools accessory to a Group R-3 occupancy that are less than 18 inches or less in depth at any point, and/or wider than 8 feet at any point.

**Section 105.3.2 Time limitation of application.** Delete in its entirety and replace with the following:

- a) The city will not hold or store plans. Any plan set or report that has not been picked up from the city within 90 days of the city's first notification to the applicant that the plans are ready to be picked up will be deemed abandoned and destroyed. The Developer/Landowner will be notified that the expired plan set or report will no longer be considered by the city. If a plan is abandoned, the Developer/Landowner will be required to resubmit the abandoned plan and pay the city all associated fees.
- b) If a construction permit for the plans has not been issued within 1 year from the date of approval noted on the cover sheet, the plans will be required to be resubmitted to the city for review and re-approval.
  - i. In order to resubmit plans the design engineer shall bring the plans into conformance of the city's current standards and requirements.
  - ii. All revised plans will be subject to the city's current fee schedule.
  - iii. This resubmittal is required to go through a comprehensive review of all sheets.
- c) Plans shall be considered revised and shall be subject to revised plan fees (all sheets) if plans have been resubmitted to the city for review or permitting after 2 years and up to 5 years from the date of the last city action.
- d) If plans have not been resubmitted to the city for review or permitting within 5 years from the date of the last city action, the plans shall be considered expired. Once a plan has expired, the plan shall be resubmitted for first review and all associated fees shall be paid to the city.
  - i. In order to resubmit plans, the design engineer shall bring the plans into conformance with the city's current standards and requirements.
  - ii. All expired plans being resubmitted will be subject to the city's current fee schedule.
  - iii. This new submittal is required to go through a comprehensive review of all sheets.

**Section 109.3 Building permit valuations.** Add the following after the last sentence: "For the purposes of determining valuations, the "Development User Fee Schedule", shall be used. This "Development User Fee Schedule" shall be updated from time to time as adopted as the City of Buckeye Development User Fee Schedule."

**Section 109.4 Work commencing before permit issuance.** Add the following after the last sentence: "This fee shall be 1.5 times the amount of the entire original calculated permit fee (excludes plan review fees). The payment of such fee shall not exempt an applicant from

compliance with all other provisions of either this code or other requirements, nor from the penalty prescribed by law."

**Section 109.6 Refunds.** Delete in its entirety and replace with the following:

**109.6 Refunds.** The building official shall be permitted to authorize refunding of a fee paid hereunder which was erroneously paid or collected.

The building official shall be permitted to authorize refunding of not more than 80 percent of the permit fee paid when no work has been done under a permit issued in accordance with this code. No refund shall be made once an (any) inspection has been conducted under the permit.

The building official shall not be permitted to authorize refunding of any fee paid except upon written application filed by the original permittee not more than 180 days after the date of fee payment.

**Section 112.2.1** Add new section to **112.2 Temporary connection:**

**112.2.1 Lock out/tag out safety program.**

Prior to the approval of temporary power in any form on a construction site, a letter containing the following information shall be on site at the time of the temporary power inspection. The letter shall be from the contractor or property owner and shall include:

1. Address and permit number
2. Description of equipment being energized
3. The name and phone number of a responsible party or parties.
4. What method of safety is to be implemented on the project to ensure the safety of the site personnel.
5. Acknowledgment that the safety plan implemented will be maintained and monitored by the responsible parties.

The letter shall be distributed to all trade personnel and posted on site. The letter shall notify all trade personnel working on site of the electrical system becoming energized, and what method of safety is being employed. Trade personnel shall acknowledge the receipt of the letter by signing a copy of the letter, which will be kept in the construction office, or other convenient place on site.

An original signed and dated letter shall be retained by the City of Buckeye until the project is accepted and under a Certificate of Occupancy.

**Section 201.4 Terms not defined.** Delete in its entirety and replace with the following:

**201.4 Terms not defined.** Where terms are not defined through the methods authorized by this section, such terms shall have ordinarily accepted meanings such as the context implies. Webster's Third New International Dictionary of the English Language, Unabridged, shall be considered as providing ordinarily accepted meanings.

**Section 202 Definitions.** Add the terms **ASSISTED LIVING CENTER, ASSISTED LIVING FACILITY, ASSISTED LIVING HOME, CUSTODIAL CARE, DIRECTED CARE SERVICE,** and **SUPERVISORY CARE SERVICE** as defined below:

**ASSISTED LIVING CENTER.** An assisted living facility that provides resident rooms or residential units to eleven or more residents.

**ASSISTED LIVING FACILITY.** A residential care institution, including adult foster care, that provides or contracts to provide supervisory care services, personal care services or directed care services on a continuing basis.

**ASSISTED LIVING HOME.** An assisted living facility that provides resident rooms to ten or fewer residents.

**CUSTODIAL CARE.** Non-medical care that helps individuals with his or her activities of daily living, preparation of special diets and self-administration of medication not requiring constant attention of medical personnel. Providers of custodial care are not required to undergo medical training.

**DIRECTED CARE SERVICE.** Care of residents, including personal care services, who are incapable of recognizing danger, summoning assistance, expressing need, or making basic care decisions.

**SUPERVISORY CARE SERVICE.** General supervision, including daily awareness of resident functioning and continuing needs.

**PERSONAL CARE SERVICE** definition delete in its entirety and replace with the following:

**PERSONAL CARE SERVICE.** Assistance with activities of daily living that can be performed by persons without professional skills or professional training and includes the coordination or provision of intermittent nursing services and administration of medications or treatments.

**SWIMMING POOL** definition delete in its entirety and replace with the following:

**SWIMMING POOL.** Any contained body of water used for bathing or swimming purposes either above or below ground level with the container being eighteen (18) or more inches in depth at any point, and/or wider than eight (8) feet at any point. This includes in-ground, above-ground and on-ground swimming pools, hot tubs and spas.

**Section 308.3 Institutional group I-1.** Amend as follows:

**308.3 Institutional group I-1.** This occupancy shall include buildings, structures or portions thereof for more than 16 persons who reside on a 24 hour basis in a supervised environment, receive custodial care, and are capable of self-preservation, except as provided for assisted living centers. This group shall include, but not be limited to, the following:

Alcohol and drug centers  
Assisted living centers  
Congregate care facilities  
Convalescent facilities  
Group homes  
Halfway houses  
Residential board and custodial care facilities  
Social rehabilitation facilities

**Section 308.3.2 Six to sixteen persons receiving care.** Delete in its entirety and replace with the following:

**308.3.2 Six to sixteen persons receiving care.** A facility such as above, housing not fewer than six and not more than 16 persons receiving such care, shall be classified as Group R-4, except as provided for assisted living homes.

**Section 308.4 Institutional group I-2.** Amend as follows:

**308.4 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. This group shall include, but not be limited to, the following:

Foster care facilities  
Detoxification facilities  
Hospitals  
Assisted Living Centers  
Psychiatric hospitals

**Section 308.4.1 Five or fewer persons receiving care** delete in its entirety.

**Section 310.2 Definitions.**

**310.2 Definitions.** The following terms are as defined in Section 202:

ASSISTED LIVING FACILITY  
ASSISTED LIVING CENTER  
ASSISTED LIVING HOME  
BOARDING HOUSE  
CUSTODIAL CARE  
CONGREGATE LIVING FACILITIES.  
DIRECTED CARE SERVICES  
DORMITORY  
GROUP HOME  
PERSONAL CARE SERVICE  
SUPERVISORY CARE SERVICES  
TRANSIENT

**Section 310.5.1 Care facilities within a dwelling.** Amend as follows:

**310.5.1 Care facilities within a dwelling.** Licensed care facilities for 10 or fewer persons receiving care that are within a single-family dwelling are permitted, provided that the requirements of Section 425 of this code are met.

**Section 310.6 Residential group R-4.** Amend as follows:

**310.6 Residential group R-4.** This occupancy 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. The persons receiving care are capable of self-preservation, except as provided for assisted living homes. This group shall include, but not be limited to, the following:

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

Group R-4 occupancies shall meet the requirements for construction as defined for Group R-3, except as otherwise provided for in this code and Section 425.

**310.6.1. Condition 1.** This occupancy condition shall include facilities licensed to provide supervisory care services, in which occupants are capable of self-preservation by responding to an emergency situation without physical assistance from staff. Condition facilities housing more than 10 persons shall be classified as Group I-2.

**310.6.2 Condition 2.** This occupancy condition shall include facilities licensed to provide personal or directed care services, in which occupants are incapable of self-preservation by responding to an emergency situation without physical assistance from staff. Condition 2 facilities housing more than 10 persons shall be classified as Group I-2.

## **Chapter 4: Special Detailed Requirements Based on Use and Occupancy**

**Section 425** Add new section:

### **SECTION 425 ASSISTED LIVING HOMES**

**425.1 Applicability.** The provisions of this section shall apply to a building or part thereof housing not more than 10 persons, excluding staff, on a 24-hour basis, who because of age, mental disability or other reasons, live in a supervised residential environment, which provides licensed care services. Except as specifically required by this division, R-4 occupancies shall meet all the applicable provisions of Group R-3.

**425.2 General.** Building or portions of buildings classified as R-4 may be constructed of any materials allowed by this code, shall not exceed two stories in height nor be located above the second story in any building and shall not exceed two thousand square feet above the first story, except as provided in Section 506.

**425.3 Special provisions.** R-4 occupancies having more than 2000 square feet above the first story shall be of not less than one-hour fire-resistive construction throughout.

**425.3.1 Mixed uses.** R-4 occupancies shall be separated from other occupancies as provided in Table 508.4.

#### **425.4 Access and means of egress facilities.**

**425.4.1 Accessibility.** R-4 occupancies shall be provided with at least one accessible route as provided in Section 1104.1.

#### **425.4.2 Exits.**

**425.4.2.1 Number of exits.** Every story, basement, or portion thereof shall have not less than two exits.

Exception: Basements and stories above the first floor containing no sleeping rooms used by residents may have only one means of egress as provided in Chapter 10.

**425.4.2.2 Distance to exits.** The maximum travel distance shall comply with Section 1016, except that the maximum travel distance from the center point of any sleeping room to an exit shall not exceed 75 feet.

**425.4.2.3 Emergency exit illumination.** In event of a power failure, exit illumination shall be automatically provided from an emergency system powered by storage batteries or an onsite generator set installed in accordance with the International Electric Code.

**425.4.2.4 Emergency escape and rescue.** R-4 occupancies shall comply with the requirements of Section 1029, except that Exception #1 to 1029 does not apply to R-4 occupancies.

**425.4.2.5 Delayed egress locks.** In R-4 Condition 2 occupancies, delayed egress locks shall be permitted in accordance with 1008.1.9.7, Items 1, 2, 4, 5, and 6.

#### **425.5 Smoke alarms and sprinkler systems.**

**425.5.1 Smoke alarms.** R-4 occupancies shall be provided with smoke alarms installed in accordance with 907.2.11.2, and such alarms shall be installed in all habitable rooms.

**425.5.2 Sprinkler systems.** R-4 occupancies shall be provided with a sprinkler system installed in accordance with 903.3.1.3. Sprinkler systems installed under this section shall be installed throughout, including attached garages, and in Condition 2 facilities, shall include concealed spaces of or containing combustible materials. Such systems may not contain unsupervised valves between the domestic water riser control valve and the sprinklers. In Condition 2 occupancies, such systems shall contain water flow

switches electrically supervised by an approved supervising station, and shall sound an audible signal at a constantly attended location.

**Section 501.2 Address identification.** Delete in its entirety and replace with the following:

**501.2 Address identification.** 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. Where access is by means of a private road and the building address cannot be viewed from the public way, a monument, pole or other approved sign or means shall be used to identify the structure. These numbers shall contrast with their background. Address numbers shall be Arabic numerals or alphabet letters. Address numbers shall be maintained.

**501.2.1 Address identification multi-family residential.** Within multi-family residential complexes, the building(s) nearest the street must identify the street number of the complex with minimum eighteen (18) inch high contrasting numbers/letters with a three (3) inch stroke width. All buildings within the complex shall identify the building number/letter with minimum eighteen (18) inch high contrasting numbers/letters with a three (3) inch stroke width. Buildings are required to provide two (2) or more building identification signs per each one hundred (100) feet of the length of the building elevation. All buildings within the complex shall include apartment spread numbers (e.g. Units 201-210) identified with minimum seven (7) inch high contrasting numbers/letters with a one (1) inch stroke width. Each individual unit shall be identified near the unit entryway using minimum four (4) inch high contrasting numbers/letters with a five eighths (5/8) inch minimum stroke width.

**501.2.2 Address identification commercial/employment.**

All commercial and employment buildings shall identify the street number of the building with minimum eighteen (18) inch high contrasting numbers/letters with a three (3) inch stroke width. All commercial and employment buildings within multi-building complexes must identify the building number/letter with minimum eighteen (18) inch high contrasting numbers/letters with a three (3) inch stroke width. Each individual unit shall be identified near the primary unit entryway using minimum six (6) inch high contrasting numbers/letters with a one (1) inch stroke width. Individual unit or suite numbers shall be a minimum of 4 inches (102 mm) high with a minimum stroke width of 0.5 inch (12.7 mm). Rear doors of commercial buildings with individual suites (strip malls) shall be identified using minimum six (6) inch high contrasting numbers/letters with a one (1) inch stroke width.

**501.2.3 Address identification one and two family residential dwelling.** One and two family dwelling shall be a minimum of 4 inches (102 mm) high with a minimum stroke width of 0.5 inch (12.7 mm).

**Section 901.1 Scope.** Add the following paragraph:

Wherever the words "Building Official" appear in Sections 901 through 911 they shall be deleted and the words "Fire Marshal" shall be inserted in lieu thereof. Code sections preceded by [F] shall be considered to be maintained and administered under the International Fire code. Where there is a conflict regarding fire suppression systems

and/or alarms between this code and the Fire Code, as amended and adopted by the City of Buckeye, the Fire Code shall prevail.

**Section 901.5 Acceptance tests.** Delete the last sentence and replace with the following:

It shall be unlawful to use, occupy, or furnish any portion of a structure until the fire protection systems of the structure have been tested and approved by the city.

**Section 1004.3 Posting of occupant load.** Delete the last sentence and replace with the following:

The sign shall be printed in letters not less than ¾" brush stroke on a contrasting background and read: "Maximum Occupant Load \_\_\_\_ People". Posted signs shall be maintained by the owner or authorized agent. The number of people occupying the room shall not exceed the maximum occupant load posted on the sign.

**1008.1.2 Door swing.** Delete the text of Exception #4, and replace with the following:

4. Doors within or serving a single dwelling unit in Groups R-2 and R-3, as applicable in 101.2, and R-4.

**Section 1016 Exit access travel distance.** Amend by adding a new subsection as follows:

**1016.2.2 Group F-1 and S-1 increase.** The maximum exit access travel distance shall be 400 feet (122 m) in Group F-1 and S-1 occupancies where all of the following are met:

1. The portion of the building classified as Group F-1 or S-1 is limited to one story in height.
2. The minimum height from the finish floor to the bottom of the ceiling or roof slab or deck is 24 feet (7,315 mm).
3. The building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 and Chapter 32 of this code.
4. Additional building access shall be provided in accordance with this code, Sections 3206.6 through 3206.6.1.3. 1016.2.2.1 Group F-1 and S-1 with a storage area greater than 500,000 square feet (46,451 m<sup>2</sup>). When storage areas in Group F-1 and S-1 occupancies are greater than 500,000 square feet a technical report prepared by an Arizona professional shall be submitted for review and approval by the fire code official. Additional fire protection or life safety systems, or both, may be required by the Fire Marshal.

**Section 1101.1 Scope.** Delete in its entirety and replace with the following:

**1101.1 Scope.** The provisions of this chapter and the Arizona Revised Statutes (ARS) Section 41-1492 through 41-1492.12 shall control the design and construction of facilities for accessibility to physically disabled persons.

**Section 1101.2 Design.** Delete in its entirety and replace with the following:

**1101.2 Design.** Buildings and facilities shall be designed and constructed to be accessible in accordance with this code, ICC A117.1, "Arizonans with Disabilities Act" (Arizona Revised Statutes, Title 41, Chapter 9, Article 8), and the "Arizonans with Disabilities Act Implementing Rules" (Arizona Administrative Code, Title 10, Chapter 3, Article 4), which rules incorporate the United States government "2010 Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities," and shall apply to new construction.

**Section 1103.2.6 Construction sites.** Amend by adding the following sentences:

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.

**Section 1109.2.2 Water closet compartment.** Amend by adding the following sentence: "A baby changing station shall not be located within a water closet stall."

**Section 1604.5 Risk category.** Amend by adding as follows:

**1604.5 Risk category.** Each building and structure shall be assigned a risk category in accordance with Table 1604.5. Where a referenced standard specifies an occupancy category, the risk category shall not be taken as lower than the occupancy category specified therein.

TABLE 1604.5 RISK CATEGORY OF BUILDINGS AND OTHER STRUCTURES.

RISK CATEGORY NATURE OF OCCUPANCY.

- I. Buildings and other structures that represent a low hazard to human life in the event of failure, including but not limited to:
  - Agricultural facilities;
  - Certain temporary facilities; and
  - Minor storage facilities.
- II. Buildings and other structures except those listed in Risk Categories I, III and IV.
- III. Buildings and other structures that represent a substantial hazard to human life in the event of failure, including but not limited to:
  - Buildings and other structures whose primary occupancy is public assembly with an occupant load greater than 300;
  - Buildings and other structures containing elementary school, secondary school or day care facilities with an occupant load greater than 250;
  - Buildings and other structures containing adult education facilities, such as colleges and universities, with an occupant load greater than 500;

- Group I-2 occupancies with an occupant load of 50 or more resident care recipients but not having surgery or emergency treatment facilities;
- Group I-3 occupancies;
- Any other occupancy with an occupant load greater than 5,000a;
- Buildings and other structures not included in Risk Category IV containing quantities of toxic or explosive materials that: Exceed maximum allowable quantities per control area as given in Table 307.1(1) or 307.1(2) or per outdoor control area in accordance with the International Fire Code; and Are sufficient to pose a threat to the public if released.

IV. Buildings and other structures designated as essential facilities, including but not limited to:

- Group I-2 occupancies having surgery or emergency treatment facilities;
  - Fire, rescue, ambulance and police stations and emergency vehicle garages;
  - Designated earthquake, hurricane or other emergency shelters;
  - Designated emergency preparedness, communications and operations centers and other facilities required for emergency response;
  - Power-generating stations and other public utility facilities required as emergency backup facilities for Risk Category IV structures;
  - Buildings and other structures containing quantities of highly toxic materials that: Exceed maximum allowable quantities per control area as given in Table 307.1(2) or per outdoor control area in accordance with the International Fire Code; and Are sufficient to pose a threat to the public if released;
  - Aviation control towers, air traffic control centers and emergency aircraft hangars;
  - Buildings and other structures having critical national defense functions;
  - Water storage facilities and pump structures required to maintain water pressure for fire suppression;
  - Power-generating stations, water treatment facilities for potable water, waste water treatment facilities and other public utility facilities.
- a) For purposes of occupant load calculation, occupancies required by Table 1004.1.2 to use gross floor area calculations shall be permitted to use net floor areas to determine the total occupant load.
- b) Where approved by the building official, the classification of buildings and other structures as Risk Category III or IV based on their quantities of toxic, highly toxic or explosive materials is permitted to be reduced to Risk Category II, provided it can be demonstrated by a hazard assessment in accordance with Section 1.5.3 of ASCE 7 that a release of the toxic, highly toxic or explosive materials is not sufficient to pose a threat to the public.

**Revision to Table 1607.1 Minimum Uniformly Distributed Live Loads, L, and minimum concentrated live loads.**

Revise Table 1607.1 as follows:

OCCUPANCY OR USE	UNIFORM (psf)	CONCENTRATED (lbs.)
25. Residential One-and two-family dwellings Uninhabitable attics with storage <sup>i,j,k</sup> Habitable attics and sleeping areas <sup>k</sup> (all other provisions remain unchanged)	<u>40</u> <u>40</u>	

**Section 1705.4 Masonry Construction.** Add the following Exceptions:

**Exception 4:** Masonry fences seven feet or less in height above grade.

**Exception 5:** Masonry retaining walls four feet or less in height from bottom of footing to top of wall unless supporting a surcharge or impounding flammable liquids.

**Section 3109 Swimming Pool Enclosures and Safety Devices.** Delete in its entirety and replace with the following:

**Section 3109 Swimming Pool Enclosures and Safety Devices.** Swimming pool enclosures and safety devices shall be installed pursuant to City of Buckeye Standards in the City of Buckeye Code of Ordinances Chapter 7 Section 5.4.5 D.

**APPENDIX PATIO COVERS I.** Amend as follows:

**Section I105.1 Design loads.** Replace “vertical live load of 10 pounds per square foot” with “vertical live load of 20 pounds per square foot.”

**Section I105.2 Footings:** Delete in its entirety.

## **Section 15-2-2 Residential Code**

A. Residential Code Adopted. That certain document designated and marked as the 2012 International Residential Code, including appendices A, B, C, D, E, G, H, I, J, K, and P, and specifically excluding all other appendices contained therein, three (3) copies of which are on file in the office of the city clerk, and those portions of the documents entitled the "2012 International Residential Code, the 2012 International Mechanical Code, the 2012 International Plumbing Code, the 2011 National Electrical Code, the 2012 International Fuel Gas Code, the 2012 International Energy Conservation Code, the 2012 International Existing Building Code and the 2012 International Fire Code applicable to the 2012 International Residential Code", as all may be amended by the city, three (3) copies of which are on file in the office of the city clerk, together are hereby adopted by reference as the city's uniform building code as if fully set forth herein for the regulation and governance of the installation, construction, remodeling, alteration, repair and conversion of buildings within the corporate limits of the city, and it is hereby declared to be unlawful to be in violation of any provision of the city's uniform building code or cause or permit the same to be done, contrary to or in violation of any of the provisions of the city's uniform building code as hereby adopted by the city council.

B. City of Buckeye Amendments to the 2012 International Residential Code.

**Section R101 Title.** Insert the words "City of Buckeye" as the name of jurisdiction.

**Section R101.2 Scope.** Add the following subsection:

**R101.2.1: Residential photovoltaic systems.** Residential Photovoltaic Systems shall be installed per the 2011 National Electric Code as adopted by the City of Buckeye and amended from time to time.

**Section R102.5 Appendices.** Delete in its entirety and replace with the following:

**102.5 Appendices.** Provisions in the appendices shall not apply unless specifically adopted. The following appendices are adopted:

- Appendix A SIZING AND CAPACITIES OF GAS PIPING**
- Appendix B SIZING OF VENTING SYSTEMS SERVING APPLIANCES EQUIPPED WITH DRAFT HOODS, CATEGORY I APPLIANCES, AND APPLIANCES LISTED FOR USE AND TYPE B VENTS**
- Appendix C EXIT TERMINALS OF MECHANICAL DRAFT AND DIRECT-VENT VENTING SYSTEMS**
- Appendix D RECOMMENDED PROCEDURE FOR SAFETY INSPECTION OF AN EXISTING APPLIANCE INSTALLATION**
- Appendix E MANUFACTURED HOUSING USED AS DWELLINGS**
- Appendix G SWIMMING POOLS, SPAS AND HOT TUBS**
- Appendix H PATIO COVERS**
- Appendix I PRIVATE SEWAGE DISPOSAL**
- Appendix J EXISTING BUILDINGS AND STRUCTURES**
- Appendix K SOUND TRANSMISSION**
- Appendix P SIZING OF WATER PIPING SYSTEM**

**Section 102.7 Existing structures.** Add the following after the first paragraph:

**Section 102.7 Existing structures.** Any references to the International Property Maintenance Code shall be deleted and the words International Property Maintenance Code as adopted by the City of Buckeye and amended from time to time” shall be inserted in lieu thereof.

**Section R105 Work exempt from permit.** Delete the following:

- 2) Fences not over 7 feet high.
- 3) Retaining walls that are not over 4 feet in height measured from bottom of footing to top of wall, unless supporting a surcharge or impounding I, II, or IIIA liquids.

**Section R105.2) and R105.9) Work exempt from permit.** Delete in its entirety and replace with the following:

- 2) Fences not over 3 feet high.
- 9) Prefabricated swimming pools accessory to a Group R-3 occupancy that are less Than 18 inches or less in depth at any point, and/or narrower than 8 feet in all directions.

**Section R105.3.2 Time limitation of application.** Delete in its entirety and replace with the following:

**Section 105.3.2 Time limitation of application.**

- a) The Town will not hold or store plans. Any plan set or report that has not been picked up from the Town within 90 days of the Town's first notification to the applicant that the plans are ready to be picked up will be deemed abandoned and destroyed. The Developer/Landowner will be notified that the expired plan set or report will no longer be considered by the Town. If a plan is abandoned, the Developer/Landowner will be required to resubmit the abandoned plan and pay the Town all associated fees.
- b) If a construction permit for the plans has not been issued within 1 year from the date of approval noted on the cover sheet, the plans will be required to be resubmitted to the Town for review and re-approval.
  - i. In order to resubmit plans the design engineer shall bring the plans into conformance of the Town's current standards and requirements.
  - ii. All revised plans will be subject to the Town's current fee schedule.
  - iii. This resubmittal is required to go through a comprehensive review of all sheets.
- c) Plans shall be considered revised and shall be subject to revised plan fees (all sheets) if plans have been resubmitted to the Town for review or permitting after 2 years and up to 5 years from the date of the last Town action.
- d) If plans have not been resubmitted to the Town for review or permitting within 5 years from the date of the last Town action, the plans shall be considered expired. Once a plan has expired, the plan shall be resubmitted for first review and all associated fees shall be paid to the Town.

- i. In order to resubmit plans, the design engineer shall bring the plans into conformance with the Town's current standards and requirements.
- ii. All expired plans being resubmitted will be subject to the Town's current fee schedule.
- iii. This new submittal is required to go through a comprehensive review of all sheets.

**Section R107 Temporary power.** Amend as follows:

**R107.3 Temporary power.** Delete the words "in NFPA 70" and insert in lieu thereof, "by the Electrical Code adopted by the City of Buckeye and amended from time to time."

**Section 108.3 Building permit valuations.** The following shall be added after the last sentence: "For the purposes of determining valuations, the "Building Valuation Data", shall be used. This "Building Valuation Data" shall be updated from time to time as adopted in the City of Buckeye Development User Fee Schedule."

**Section 108.5 Refunds.** Delete in its entirety and replace with the following:

**Section 108.5 Refunds.** The building official shall be permitted to authorize refunding of a fee paid hereunder which was erroneously paid or collected.

The building official shall be permitted to authorize refunding of not more than 80 percent of the permit fee paid when no work has been done under a permit issued in accordance with this code. No refund shall be made once an (any) inspection has been conducted under the permit.

The building official shall be permitted to authorize refunding of not more than 80 percent of the plan review fee paid when an application for a permit for which a plan review fee has been paid is withdrawn or canceled before any plan reviewing has taken place.

The building official shall not be permitted to authorize refunding of any fee paid except upon written application filed by the original permittee not more than 180 days after the date of fee payment.

**Section R108.6 Work commencing before permit issuance:** Add after the last sentence: "This fee shall be 1.5 times the amount of the entire original calculated permit fee (excludes plan review fees). The payment of such fee shall not exempt an applicant from compliance with all other provisions of either this code or other requirements, nor from the penalty prescribed by law."

**Section R109.1.5 Other inspections.** Add the following subsection:

**R109.1.5.2 Lath or gypsum board inspection.** Inspection of the lath or gypsum board shall be made after all lathing and gypsum board, interior and exterior, is in place, but before any plastering is applied or before gypsum board joints and fasteners are taped and finished.

**Section R110.2 Change in use.** The following words are added to the end of the sentence: "as adopted by the City of Buckeye and as may be amended from time to time."

**Section R201.4 Terms not defined.** Delete in its entirety and replace with the following:

**R201.4 Terms not defined.** Where terms are not defined through the methods authorized by this section, such terms shall have ordinarily accepted meanings such as the context implies. Webster's Third New International Dictionary of the English Language, Unabridged, shall be considered as providing ordinarily accepted meanings.

**Table R301.2(1)** Delete in its entirety and replace with the following:

**CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA**

Ground Snow Load	Wind Speed <sup>6</sup> (mph)	Seismic Design Category <sup>9</sup>	Subject To Damage From				Winter Design Temp <sup>1</sup>	Ice Shield Under-Layment Required <sup>1</sup>	Flood Hazards <sup>h</sup>	Air Freezing Index <sup>l</sup>	Mean Annual Temp <sup>k</sup>
			Weathering <sup>8</sup>	Frost Line Depth <sup>b</sup>	Termite <sup>c</sup>	Decay <sup>d</sup>					
N/A	90 mph Exposure C	B	Moderate	N/A	Moderate to Heavy	None to Slight	24°F		Jurisdiction Specific		

(Footnotes to remain unchanged)

**Table R301.5 MINIMUM UNIFORMLY DISTRIBUTED LIVED LOADS** is amended to modify the following:

USE	LIVE LOAD
Attics with limited storage <sup>b,e</sup>	<del>20</del> <u>40</u>
Habitable attics and attics served with fixed stairs	<del>30</del> <u>40</u>
Sleeping rooms	<del>30</del> <u>40</u>

(Remainder of Section to remain unchanged)

**Table R302.6 DWELLING/GARAGE SEPARATION.** Delete in its entirety and replace with the following:

**TABLE R302.6 DWELLING/GARAGE SEPARATION**

SEPARATION	MATERIAL
From the residence and attics	Not less than 5/8-inch gypsum board or equivalent applied to the garage side
From all habitable rooms above the garage	Not less than two layers of 5/8-inch Type X gypsum board or equivalent
Structure(s) supporting floor/ceiling assemblies used for separation required by this section	Not less than two layers of 5/8-inch gypsum board or equivalent
Garages located less than 3 feet from a dwelling unit on the same lot	Not less than 1/2-inch gypsum board or equivalent applied to the interior side of exterior walls that are within this area

**A) All interior walls of a garage shall be a minimum one layer 5/8 inch type X gypsum board.**

**Section R305 Ceiling height.** Delete in its entirety and replace with the following:

**Section R305 Ceiling height.**

**R305.1 Minimum height.**

Habitable space, hallways, bathrooms, toilet rooms, laundry rooms and portions of basements containing these spaces shall have a ceiling height of not less than 7 feet 6 inches.

**Exceptions:**

- 1). For rooms with sloped ceilings, at least 50 percent of the required floor area of the room must have a ceiling height of at least 7 feet 6 inches and no portion of the required floor area may have a ceiling height of less than 5 feet 6 inches.
- 2). Bathrooms shall have a minimum ceiling height of 7 feet at the center of the front clearance area for fixtures as shown in Figure R307.1. The ceiling height above fixtures shall be such that the fixture is capable of being used for its intended purpose. A shower or tub equipped with a showerhead shall have a minimum ceiling height of 6 feet 8 inches (2032 mm) above a minimum area 30 inches (762 mm) by 30 inches (762 mm) at the showerhead.

**R305.1.1 Basements.** Portions of basements that do not contain habitable space, hallways, bathrooms, toilet rooms and laundry rooms shall have a ceiling height of not less than 7 feet.

**Exception:** Beams, girders, ducts or other obstructions may project to within 6 feet 8 inches of the finished floor.

**Section R309 Fire sprinklers.** Delete in its entirety and replace with the following:

**R309.5 Fire sprinklers:** Fire sprinklers shall be required per the International Fire Code as adopted by the City of Buckeye and amended from time to time.

**Section R312.1.2 Guard opening limitations.** Add the following sentence to the end of the first paragraph: "Required guards shall not be constructed with horizontal rails or other ornamental pattern that results in a ladder effect."

**Section R313.1 Townhouses automatic fire sprinkler systems.** Delete in its entirety and replace with the following:

**R313.1 Townhouses automatic fire sprinkler systems.** Fire sprinklers shall be required per the International Fire Code as adopted by the City of Buckeye and amended from time to time.

**Section R313.2 One and Two family dwellings automatic fire systems.** Delete in its entirety and replace with the following:

**R313.2 One and Two family dwellings automatic fire systems:** Fire sprinklers shall be required per the International Fire Code as adopted by the City of Buckeye and amended from time to time.

**Section R314.3 Location.** Amend by adding the following subsection:

Where the ceiling height of a room open to the hallway servicing bedrooms exceeds that of the hallway by 24 inches or more, smoke detectors shall be installed in the hallways and in the adjacent room.

**Chapter 11 [RE] - Energy efficiency.** Delete in its entirety and replace with:

**Chapter 11 [RE] - Energy efficiency.** The requirements for energy efficiency shall be governed by the International Energy Conservation Code as adopted and amended by the City of Buckeye.

**M1305.1.1 Furnaces and air handlers.** Add new Section:

**M1305.1.5 Heating, air conditioning, and refrigeration equipment outlet.** A 125-volt, single phase, 15 or 20 ampere rated receptacle outlet shall be installed in an accessible location for the servicing of heating, air conditioning, and refrigeration equipment. The receptacle shall be located on the same level and within 25 feet (7.5 meters) of the heating and air conditioning, and refrigeration equipment. The receptacle outlet shall not be connected to the load side of the equipment disconnecting means

**Section M1307.3 Elevation of ignition source.** Amend by adding the following **Exception:**

Exception: Clothes dryers installed in private garages.

**M1411.3 Condensate disposal:** Delete last sentence and replace with the following:  
"Condensate shall not discharge into an alley, street, sidewalks or any other hardened surfaces or any areas where it would cause a nuisance."

**Section M1411.3.2 Drain pipe materials and sizes.** Delete in its entirety and replace with the following:

**M1411.3.2 Drain pipe materials and sizes.** Components of the condensate disposal system shall be cast iron, galvanized steel, copper, cross-linked polyethylene, polybutylene, polyethylene, ABS CPVC or PVC pipe or tubing. All components shall be selected for the pressure and temperature rating of the installation. Condensate waste and drain line size shall be not less than 3/4-inch (19 mm) internal diameter and shall not decrease in size from the drain pan connection to the place of condensate disposal. Where the drain pipes for more than one unit are manifolded together for condensate drainage, the pipe or tubing shall be sized in accordance with the following:

Equipment Capacity	Minimum Condensate Pipe Diameter
Up to 20 tons (70.3 kw) of refrigeration	¾ inch (19 mm)
Over 20 tons (70.3 kw) to 40 tons (141 kw)	1 inch (25 mm)
Over 40 tons (141 kw) to 90 tons (317 kw) of refrigeration	1 ¼ inch (32 mm)
Over 90 tons (317 kw) to 125 tons (440 kw) of refrigeration	1 ½ inch (38 mm)
Over 125 tons (440 kw) to 250 tons (879 kw) of refrigeration	2 inch (51 mm)

**Section M1503.1 General.** Delete in its entirety and replace with the following:

**M1503.1 General.** Range hoods shall discharge to the outdoors through a single wall duct. The duct serving the hood shall have a smooth interior surface, shall be airtight, and shall be equipped with a backdraft damper, and shall be independent of all other exhaust systems. Changes in size or direction shall be accomplished with an approved transition fitting. Ducts serving range hoods shall not terminate in an attic or crawl space or areas inside the building.

**Section G2415.12 (IFGC404.12) Minimum burial depth.** Delete in its entirety and replace with the following:

**G2415.12 (IFGC404.12) Minimum burial depth.** Underground piping systems shall be installed a minimum depth of 12 inches (305 mm) below grade for metal piping and 18 inches (457mm) for plastic piping.

**Section G2415.12.1 Individual outside appliances.** Delete in its entirety.

**Section P2603.5.1 Sewer depth.** Delete in its entirety and replace with the following:

**P2603.5.1 Sewer depth.** Building sewers that connect to private sewage disposal systems shall be installed not less than 12 inches (305 mm) below finished grade at the point of septic tank connection. Building sewers shall be installed not less than 12 inches (305 mm) below grade.

**Section P2803.6.1 Requirements for discharge pipe.**

**P2803.6.1** Delete item number 2 in its entirety and replace with the following:

Discharge through an air gap located in the same room as the water heater except where the discharge is to the outdoors, not subject to freezing and the piping terminates not less than 6 inches (152 mm) and not more than 12 inches (305mm) above grade.

Add #14 to read:

Direct the discharge in a downward direction.

**Section P2903 Backflow prevention.**

**Section P2903.7 Size of water-service mains, branch mains and risers.** Delete in its entirety and replace with the following:

**P2903.7 Size of water-service mains, branch mains and risers.** The size of the water service pipe shall be not less than 1 inch diameter. The size of water service mains, branch mains and risers shall be determined according to water supply demand [gpm (L/m)], available water pressure [psi (kPa)] and friction loss caused by the water meter and developed length of pipe [feet (m)], including equivalent length of fittings. The size of each water distribution system shall be determined according to design methods conforming to acceptable engineering practice, such as those methods in Appendix P and shall be approved by the code official.

**P3005.2.10 Cleanout equivalent.** Delete in its entirety and replace with the following: "A fixture with integral trap, readily removable without disturbing concealed piping shall be acceptable as a cleanout equivalent."

**Section P3007.3 Sump pump.** Delete in its entirety and replace with the following:

**P3007.3.1 Sump pump** Where sewage ejector pumps are used, Two (2) sump pumps shall be required in all applications except R-3. The pumps shall operate alternately and in the event of pump failure or obstruction they shall be equipped with both visual and audible alarms located in a conspicuous place in a normally occupied area.

**Section P3103 Vent terminals.** Delete in its entirety and replace with the following:

**P3103.1 Roof extension.** All open vent pipes shall extend through the roof and shall be terminated at least (10 inches) above the roof and minimum 36 inches from a vertical wall or parapet, except that where a roof is to be used for any purpose other than weather protection, the vent extension shall be run not less than 7 feet above the roof.

**Section P3104.1 Vent connections and grades.** Delete the exception in its entirety.

**Section P3106.1 Individual vent permitted.** Delete in its entirety and replace with the following:

**P3106.1 Individual vent required.** Each trap and trapped fixture is required to be provided with an individual \ common vent. The individual vent shall connect to the fixture drain of the trap or trapped fixture being vented.

**Section P3108.1 Horizontal wet vent permitted.** Delete in its entirety and replace with the following:

No horizontal wet venting shall be permitted.

**Section P3114 Air admittance valves.**

**Section P3114.3 Where permitted.** Add the following after the first paragraph: "Air admittance valves are approved only on a case per case basis and must be served by a vented branch."

**Section E3406.2 Conductor material.** Delete in its entirety and replace with the following:

**E3406.2 Conductor material.** Conductors used to conduct current shall be of copper except as otherwise provided in Chapters 34 through 43. Where the conductor material is not specified, the material and the sizes given in these chapters shall apply to copper conductors. Where other materials are used, the conductor sizes shall be changed accordingly. Aluminum and copper-clad aluminum with a melting point greater than or equal to 1750° Fahrenheit

**Table E3603.1 Service conductors and grounding electrode conductor sizing.** Delete in its entirety and replace with the following:

**Table E3603.1  
Service Conductors and Grounding Electrode Conductor Sizing**

<b>Conductor Types and Sizes- THHN,THHW,THW,THWN,USE,RHH,RHW,XHHW,RHW- 2,THW-2,THWN-2,XHHW-2,SE,USE-2 (parallel sets of 1/0 and larger conductors are permitted in either a single raceway or separate raceways)</b>	<b>Service or Feeder Rating (Amperes)</b>	<b>Minimum Grounding Electrode Conductor Size<sup>a</sup></b>
<b>Copper (AWG)</b>	<b>Maximum load (amps)</b>	<b>Copper (AWG)</b>
4	100	8 <sup>b</sup>
3	110	8 <sup>b</sup>
2	125	8 <sup>b</sup>
1	150	6 <sup>c</sup>
1/0	175	6 <sup>c</sup>
2/0	200	4 <sup>d</sup>
3/0	225	4 <sup>d</sup>
4/0 or two sets of 1/0	250	2 <sup>d</sup>
250 kcmil or two sets of 2/0	300	2 <sup>d</sup>
350kcmil or two sets of 3/0	350	2 <sup>d</sup>
400 kcmil or two sets of 4/0	400	1/0 <sup>d</sup>

Where protected by a ferrous metal raceway, grounding electrode conductors shall be electronically bonded to the ferrous metal raceway at both ends

An 8 AWG grounding electrode conductor shall be protected with rigid metal conduit, intermediate metal conduit, rigid polyvinyl chloride (Type PVC) nonmetallic conduit, rigid thermosetting resin (Type RTRC) nonmetallic conduit, electrical metallic tubing or cable armor.

Where not protected, 6 AWG grounding electrode shall closely follow a structural surface for physical protection. The supports shall be spaced not more than 24 inches on center and shall be supported within 12 inches of any enclosure or termination where the sole grounding electrode system is a ground rod or pipe as covered in section E3608.2, the grounding electrode conductor shall not be required to be larger than 6 AWG Copper. Where the sole grounding electrode system is the footing steel as covered in Section E3608.1.2 the grounding electrode conductor shall not be required to be larger than 4 AWG Copper conductor.

**Section E3603.2 Kitchen and dining area receptacles.** Delete in its entirety and replace with the following:

**E3603.2 Kitchen and dining area receptacles.** A minimum of two 20-ampere-rated branch circuits shall be provided to serve receptacles located in the kitchen, pantry, breakfast area and dining area. The kitchen countertop receptacles shall be served by a minimum of two 20-ampere-rated branch circuits, either or both of which shall also be permitted to supply other receptacle outlets in the kitchen, pantry, breakfast area and dining area. The receptacle outlet for refrigeration equipment shall be supplied from an individual branch circuit rated 15 amperes or greater. Dishwashers and disposals must be on separate circuits if they are more than eighty percent (80%) of the circuit load.

**Table E3705.1 ALLOWABLE AMPACITIES** delete in its entirety and replace with:

**Table E3705.1 ALLOWABLE AMPACITIES**

Conductor Size	Conductor Temperature Rating		
	60° c	75° c	90° c
AWG kcmil	Types TW, UF	Types RHW, THHW, THW, THWN, USE, XHHW	Types RHW-2, THHN, THHW, THW-2, THWN-2, XHHW, XHHW-2, USE-2
	<b>Copper</b>		
14 <sup>a</sup>	15	20	25
12 <sup>a</sup>	20	25	30
10 <sup>a</sup>	30	35	40
8	40	50	55
6	55	65	75
4	70	85	95
3	85	100	115
2	95	115	130
1	110	130	145
1/0	125	150	170
2/0	145	175	195
3/0	165	200	225
4/0	195	230	260

**See Table E3705 for conductor overcurrent protection limitations.**

**E3908.8 Types of equipment grounding conductors.** Delete in its entirety and replace with the following:

**E3908.8 Types of equipment grounding conductors.** The equipment grounding conductor run with or enclosing the circuit conductors shall be one or more or a combination of the following: A copper conductor. This conductor shall be solid or stranded; insulated, covered, or bare; and in the form of a wire or a busbar of any shape. Rigid metal conduit.  
Intermediate metal conduit.  
Electrical metallic tubing with an additional equipment grounding conductor.

Listed flexible metal conduit with an additional equipment grounding conductor, and meeting all the following conditions:

The conduit is terminated in listed fittings.

The combined length of flexible metal conduit and liquidtight flexible metal conduit in the same ground return path does not exceed 1.8 m (6 ft) for feeders and 15 m (50 ft) for branch circuits.

The additional equipment grounding conductor is terminated at each termination or junction point.

Listed liquidtight flexible metal conduit with an additional equipment grounding conductor and meeting all the following conditions:

The conduit is terminated in listed fittings.

For metric designators 12 through 16 (trade sizes 3/8 through 1/2), the circuit conductors contained in the conduit are protected by overcurrent devices rated at 20 amperes or less.

For metric designators 21 through 35 (trade sizes 3/4 through 1-1/4), the circuit conductors contained in the conduit are protected by overcurrent devices rated not more than 60 amperes and there is no flexible metal conduit, flexible metallic tubing, or liquidtight flexible metal conduit in trade sizes metric designators 12 through 16 (trade sizes 3/8 through 1 1/2) in the grounding path.

The combined length of flexible metal conduit and flexible metallic tubing and liquidtight flexible metal conduit in the same ground return path does not exceed 1.8 m (6 ft).

Where used to connect equipment where flexibility is necessary after installation, and equipment grounding conductor shall be installed.

Listed flexible metal tubing with an additional equipment grounding conductor and meeting all the following conditions:

The conduit is terminated in listed fittings.

The combined length of liquidtight flexible metal conduit and flexible metal conduit in the same ground return path does not exceed 15 m (50 ft) for branch circuits and 1.8 m (6 ft) for feeders.

The additional equipment grounding conductor is terminated at each termination or junction point.

Armor of Type AC cable with an additional equipment grounding conductor.

The copper sheath of mineral-insulated, metal-sheathed cable.

Type MC cable that provides an effective ground-fault current path in accordance with one or more of the following:

It contains an insulated or uninsulated equipment grounding conductor in compliance with 250.118(1).

The combined metallic sheath and uninsulated equipment grounding/bonding conductor of interlocked metal tape-type MC cable that is listed and identified as an equipment grounding conductor.

The metallic sheath or the combined metallic sheath and equipment grounding conductors of the smooth or corrugated tube-type MC cable that is listed and identified as an equipment grounding conductor.

Other listed electrically continuous metal raceways and listed auxiliary gutters.

Surface metal raceways listed for grounding.

**Section E3908.8.1 Flexible metal conduit.** Delete in its entirety.

**Section E3908.8.2 Liquid-tight flexible metal conduit.** Delete in its entirety.

**Chapter 41 Appliance Installation E4104.5 Disconnecting means:** Add the following to the end of the paragraph:

A disconnecting means shall be installed immediately adjacent to the water heater.

**Appendix E: Manufactured Housing Used As Dwellings** Delete in its entirety and replace with the following:

**APPENDIX E:** See State Office of Manufactured Housing Regulations.

**Appendix G: Swimming Pools, Spas and Hot Tubs** is amended as follows:

**SWIMMING POOL.** Delete this definition in its entirety and replace with the following:

**SWIMMING POOL.** Any contained body of water used for bathing or swimming purposes either above or below ground level with the container being eighteen (18) or more inches in depth at any point, and/or wider than eight (8) feet at any point. This includes in-ground, above-ground and on-ground swimming pools, hot tubs and spas.

**Section AG105 Barrier Requirements.** Delete in its entirety and replace with the following:

**Section AG105 Barrier Requirements.** Swimming pool enclosures and safety devices shall be installed pursuant to City of Buckeye Standards in the City of Buckeye Code of Ordinances Chapter 7 Section 5.4.5 D

**APPENDIX H: Patio Covers** is amended as follows:

**Section AH105.1 Design loads.** Replace “vertical live load of 10 pounds per square foot” with “vertical live load of 20 pounds per square foot.”

**Section AH105.2 Footings:** delete in its entirety.

**APPENDIX I: Private Sewage Disposal** Delete in its entirety and replace with the following:

**APPENDIX I:** See State Department of Environmental Quality Regulations.

### **Section 15-2-3 Mechanical Code**

A. Mechanical Code Adopted. That certain document designated and marked as the 2012 International Mechanical Code, including Appendix A and specifically excluding all other appendices contained therein, three (3) copies of which are on file in the office of the city clerk, the “2012 International Residential Code, the 2012 International Mechanical Code, the 2012 International Plumbing Code, the 2011 National Electrical Code, the 2012 International Fuel Gas Code, the 2012 International Energy Conservation Code, the 2012 International Existing Building Code and the 2012 International Fire Code applicable to the International Mechanical Code”, as all may be amended by the city, three (3) copies of which are on file in the office of the city clerk, together are hereby adopted by reference as the city's uniform building code as if fully set forth herein for the regulation and governance of the installation, construction, remodeling, alteration, repair and conversion of buildings within the corporate limits of the city, and it is hereby declared to be unlawful to be in violation of any provision of the uniform building code or cause or permit the same to be done, contrary to or in violation of any of the provisions of the uniform building code as hereby adopted by the city council.

B. City of Buckeye Amendments to the 2012 International Mechanical Code.

**Section 101.1 Title.** Insert the words “City of Buckeye” as the name of jurisdiction.

**Section 101.2.1 Appendices.** Delete in its entirety and replace with the following:

**101.2.1** The following appendices of the 2012 International Mechanical Code are adopted by the City of Buckeye: Appendix A.

**Section 106.4.4 Extensions.** Delete in its entirety and replace with the following:

#### **106.4.4 Permit extensions.**

- a. The Applicant can extend the permit expiration date when requested in writing before the permit expires.
- b. Permit Extension Fee is 50% of the original Permit Fee. Each extension will run for 180 days from the most recent inspection and there are a maximum of two extensions.

**Section 106.5.1 Work commencing before permit issuance.** Delete in its entirety and replace with the following:

Any person who commences any work on a mechanical system before obtaining the necessary permits shall be subject to a fee that is 1.5 times the amount of the entire original calculated permit fee (excludes plan review fees).

**Section 106.5.2 Fee schedule.** Delete in its entirety and replace with the following:

**106.5.2 Fee schedule.** All fees shall be in accordance with Chapter One of the 2012 International Building Code as adopted by the City of Buckeye and amended from time to time.

**Section 106.5.3 Fee refunds.** Delete in its entirety and replace with the following:

**106.5.3 Fee refunds.** The code official shall be permitted to authorize refunding of a fee paid hereunder which was erroneously paid or collected.

The code official shall be permitted to authorize refunding of not more than 80 percent of the permit fee paid when no work has been done under a permit issued in accordance with this code.

The code official shall be permitted to authorize refunding of not more than 80 percent of the plan review fee paid when an application for a permit for which a plan review fee has been paid is withdrawn or canceled before any examination time has been expended.

The code official shall not be permitted to authorize refunding of any fee paid except upon written application filed by the original permittee not later than 180 days after the date of fee payment.

**Section 108.4 Violation penalties.** Delete in its entirety.

**Section 108.5 Stop work order.** Amend the last sentence as follows: "Any person who shall continue any work on the system after having been served by a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable for a fine as established by the City of Buckeye."

**Section 201.4 Terms not defined.** Delete in its entirety and replace with the following:

**201.4 Terms not defined.** Where terms are not defined through the methods authorized by this chapter, such terms shall have ordinarily accepted meanings such as the context implies. Webster's Third New International Dictionary of the English Language, Unabridged, shall be considered as providing ordinarily accepted meanings.

**Section 303.3 Prohibited locations.** Add the following subsection:

6. Gas fired appliances with natural draft venting shall not be installed in any room operating under negative pressure unless the appliances are listed for that use.

**Section 304.3 Elevator of ignition source.** Add the following:

**Exception:** Clothes dryers and washing machines installed in private garages.

**Section 307.2.1 Condensate disposal.** Delete last sentence and replace with the following: "Condensate shall not discharge into an alley, street, sidewalks or any other hardened surfaces or any areas where it would cause a nuisance."

**Section 307.2.2 Drain pipe materials and sizes.** Delete in its entirety and replace with the following:

**307.2.2 Drain pipe materials and sizes.** Components of the condensate disposal system shall be cast iron, galvanize steel, copper, cross-linked polyethylene, polybutylene, polyethylene, ABS CPVC or PVC pipe or tubing. All components shall be selected for the pressure and temperature rating of the installation. Condensate waste and drain line size shall be not less than 3/4-inch (19 mm) internal diameter and shall not decrease in size from the drain pan connection to the place of condensate disposal. Where the drain pipes for more than one unit are manifolded together for condensate drainage, the pipe or tubing shall be sized in accordance with the following:

Equipment Capacity	Minimum Condensate Pipe Diameter
Up to 20 tons (70.3 kw) of refrigeration	¾ inch (19 mm)
Over 20 tons (70.3 kw) to 40 tons (141 kw)	1 inch (25 mm)
Over 40 tons (141 kw) to 90 tons (317 kw) of refrigeration	1 ¼ inch (32 mm)
Over 90 tons (317 kw) to 125 tons (440 kw) of refrigeration	1 ½ inch (38 mm)
Over 125 tons (440 kw) to 250 tons (879 kw) of refrigeration	2 inch (51 mm)

Such piping shall maintain a minimum horizontal slope in the direction of discharge of not less than one-eighth unit vertical in 12 unit's horizontal (1-percent slope).

**Section 505.1 Domestic systems.** Delete in its entirety and replace with the following:

**505.1 Domestic systems.** Where domestic range hoods and domestic appliances equipped with downdraft exhaust are located within dwelling units, such hoods and appliances shall discharge to the outdoors through sheet metal ducts constructed of galvanized steel, stainless steel, aluminum, or copper. Such ducts shall have smooth inner walls, shall be air tight, shall be equipped with a backdraft damper, and shall be independent of all other exhaust systems. Changes in size or direction shall be accomplished with an approved transition fitting.

**Section 602 Plenums.**

**Section 602.2 Construction.** Amend by adding the following after the first sentence of the first paragraph:

When plenum enclosures are constructed of combustible materials all of the following shall apply:

- a. Sprinklers shall be installed within the plenum space as per the adopted International Fire Code.
- b. Area smoke detectors shall be installed within the plenum space as per their listing.
- c. Duct smoke detectors shall be installed in the return air system of all air moving equipment serving the plenum.
- d. The area smoke detectors and the duct smoke detectors shall shut down all air moving equipment serving the plenum whenever any smoke detector senses smoke.

- e. All smoke detectors shall be interlocked with the fire alarm system.
- f. In occupancies not required to be equipped with a fire alarm system, actuation of any smoke detector shall activate a visible and audible signal in a location approved by the City Fire Marshall

## **Section 1004 Boilers**

**Section 1004.1 Standards.** Delete in its entirety and replace with the following:

**1004.1 Standards** Oil-fired boilers and their control systems shall be listed and labeled in accordance with UL 726. Electric boilers and their control systems shall be listed and labeled in accordance with UL 834. Boilers shall be designed and constructed in accordance with the ASME Boiler and Pressure Vessel Code, and Arizona Boiler Rules, Title 20 Chapter 5.

## **Section 15-2-4 Plumbing Code**

A. Plumbing Code Adopted. That certain document designated and marked as the 2012 International Plumbing Code, three (3) copies of which are on file in the office of the city clerk, the “2012 International Residential Code, the 2012 International Mechanical Code, the 2012 International Plumbing Code, the 2011 National Electrical Code, the 2012 International Fuel Gas Code, the 2012 International Energy Conservation Code, the 2012 International Existing Building Code and the 2012 International Fire Code applicable to the 2012 International Plumbing Code”, as all may be amended by the city, three (3) copies of which are on file in the office of the city clerk, together are hereby adopted by reference as the city's uniform building code as if fully set forth herein for the regulation and governance of the installation, construction, remodeling, alteration, repair and conversion of buildings within the corporate limits of the city, and it is hereby declared to be unlawful to be in violation of any provision of the uniform building code or cause or permit the same to be done, contrary to or in violation of any of the provisions of the uniform building code as hereby adopted by the city council.

B. City of Buckeye Amendments to the 2012 International Plumbing Code.

**The International Plumbing Code, 2012 Edition, is amended in the following respects:**

**Section 101.1 Title.** Insert the words “City of Buckeye” as the name of jurisdiction.

**Section 101.2 Scope.** Add the following after the last sentence: "Any references to the ICC Electrical Code shall be deleted and the words “Electrical Code adopted by the City of Buckeye and amended from time to time” shall be inserted in lieu thereof."

**Section 101.2 Appendices** Delete in its entirety and replace with the following:

**101.2 Appendices.** The following Appendices of the 2012 International Plumbing Code are adopted by the City of Buckeye: APPENDIX B – Rainfall Rates APPENDIX E – Water Sizing System.

**Section 106.5.4 Permit extensions.** Delete in its entirety and replace with the following:

**106.5.4 Permit extensions.** Any person who commences any work on a mechanical system before obtaining the necessary permits shall be subject to a fee that is 1.5 times the amount of the entire original calculated permit fee (excludes plan review fees).

**Section 106.6.1 Work commencing before permit issuance.** Delete in its entirety and replace with the following:

**106.6.1 Work commencing before permit issuance.** Any person who commences any work on a plumbing system before obtaining the necessary permits shall be subject to a fee that is 1.5 times the amount of the entire original calculated permit fee (excludes plan review fees).

**Section 106.6.2 Fee schedule.** Delete in its entirety and replace with the following:

**106.6.2 Fee schedule.** All fees shall be in accordance with Chapter One of the 2012 International Building Code as adopted by the City of Buckeye and amended from time to time.

**Section 106.6.3 Fee refunds.** Delete in its entirety and replace with the following:

**106.6.3 Fee refunds.** The code official shall be permitted to authorize refunding of a fee paid hereunder which was erroneously paid or collected.

The code official shall be permitted to authorize refunding of not more than 80 percent of the permit fee paid when no work has been done under a permit issued in accordance with this code

The code official shall be permitted to authorize refunding of not more than 80 percent of the plan review fee paid when an application for a permit for which a plan review fee has been paid is withdrawn or canceled before any examination time has been expended.

The code official shall not be permitted to authorize refunding of any fee paid except upon written application filed by the original permittee not later than 180 days after the date of fee payment.

**Section 108.4 Violation penalties.** Delete in its entirety.

**Section 108.5 Stop work orders.** Delete in its entirety and replace with the following:

**108.5 Stop work orders** Upon notice from the code official, work on any plumbing system that is being done contrary to the provisions of this code or in a dangerous or unsafe manner shall immediately cease. Such notice shall be in writing and shall be given to the owner of the property, or to the owner's agent, or to the person doing the work. The notice shall state the conditions under which work is authorized to resume. Where an emergency exists, the code official shall not be required to give a written notice prior to stopping the work Any person, who shall continue any work on the system after having been served by a stop work order except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable for a fine as established by the City of Buckeye.

**Section 201.4 Terms not defined.** Deleted in its entirety and replace with the following:

**201.4 Terms not defined.** Where terms are not defined through the methods authorized by this chapter, such terms shall have ordinarily accepted meanings such as the context implies. Webster's Third New International Dictionary of the English Language, Unabridged, shall be considered as providing ordinarily accepted meanings.

**Section 305.4 Sewer depth.** Deleted in its entirety and replace with the following:

**305.4.1 Sewer depth.** Building sewers that connect to private sewage disposal systems shall be installed not less than 12 inches (305 mm) below finished grade at the point of septic tank connection. Building sewers shall be installed not less than 12 inches (305 mm) below grade.

**Section 410.3 Substitution.** Deleted in its entirety and replace with the following:

**410.3 Substitution.** Where restaurants provide drinking water in a container free of charge, drinking fountains shall not be required in those restaurants. In other occupancies, where drinking fountains are required, bottle water dispensers or water coolers shall be permitted to be substituted.

**Section 504.6 Requirements for discharge piping.** Deleted in its entirety and replace with the following:

**504.6 Requirements for discharge piping.**

1. Not be directly connected to the drainage system.
2. Discharge through an air gap located in the same room as the water heater except where the discharge is to the outdoors, not subject to freezing and the piping terminates not less than 6 inches (152mm) and not more than 12 inches (305mm) above grade.
3. Not be smaller than the diameter of the outlet of the valve served and shall discharge full size to the air gap.
4. Serve a single relief device and shall not connect to piping serving any other relief device or equipment.
5. Discharge to the floor, to the pan serving the water heater or storage tank, to a waste receptor or to the outdoors.
6. Discharge in a manner that does not cause personal injury or structural damage.
7. Discharge to a termination point that is readily observable by the building occupants.
8. Not be trapped.
9. Be installed so as to flow by gravity.
10. Not terminate more than 6 inches (152 mm) above the floor or waste receptor.
11. Not have a threaded connection at the end of such piping.
12. Not have valves or tee fittings.
13. Be constructed of those materials listed in Section 605.4 or materials tested, rated and approved for such use in accordance with ASME A112.4.1.
14. Direct the discharge in a downward direction.

**Section 603.1 Size of water service pipe.** Deleted in its entirety and replace with the following:

**603.1 Size of water service pipe.** The water service pipe shall be sized to supply water to the structure in the quantities and at the pressures required in this code. The water service pipe shall be not less than 1 inch. The replacement of existing water service pipe shall not be less in size than the size of the pipe being replace.

**Section 708.3.1 Horizontal drains within buildings.** Deleted in its entirety and replace with the following:

**708.3.1 Horizontal drains within buildings.** All horizontal drains shall be provided with cleanouts located not more than 100 (one hundred) feet apart of total developed length.

**Section 708.3.3 Changes of directions.** Deleted in its entirety and replace with the following:

**708.3.3 Changes of directions:** Cleanouts shall be installed at each change of direction greater than 135 degrees in the building sewer, building drain and horizontal waste or soil lines.

**Section 712.3.1 Sump pump.** Deleted in its entirety and replace with the following:

**712.3.1 Sump pump:** Where sewage ejector pumps are used, two (2) sump pumps shall be required in all applications except R-3. The pumps shall operate alternately and in the event of pump failure or obstruction they shall be equipped with both visual and audible alarms located in a conspicuous place in a normally occupied area.

**Section 903.1 Roof extension** Deleted in its entirety and replace with the following:

**903.1 Roof extension** All open vent pipes shall extend through the roof and shall be terminated at least (10 inches) above the roof and minimum 36 inches from a vertical wall or parapet., except that where a roof is to be used for any purpose other than weather protection, the vent extensions shall be run at least 7 feet above the roof.

**Section 912.1 Horizontal wet vent permitted** Deleted in its entirety and replace with the following:

**Section 912.1 Horizontal wet vent permitted** No horizontal wet venting shall be permitted.

**Section 915.1 Type of fixtures** Deleted in its entirety and replace with the following:

**915.1 Type of fixtures** Combination waste and vent systems are accepted from a design professional only. Such systems may not serve toilets, urinals, food waste grinders or clinical waste receptors.

**Section 918.3 Where permitted.** Add the following after the last sentence:

Air admittance valves are approved only on a case per case basis and must be served by a vented branch.

**Section 1106.1 General.** Deleted in its entirety and replace with the following:

**1106.1 General** The size of the vertical conductors and leaders, building storm drains, building storm sewers, and any horizontal branches of such drains or sewers shall be based on 6" (inches) of rainfall per hour.

**Section 1202 Medical gases.** Add a new subsection, as follows:

**1202.1.1 Level 3 dental facilities.** Vacuum piping installed under an on grade floor shall be installed in compliance with recommendations and drawings prepared by a registered design professional and contained within the dental equipment manufacturer's specifications and details, and with the otherwise applicable provisions of NFPA99-2005. All drawings and specifications shall be sufficiently comprehensive as to provide prescriptive installation criteria. Special inspection in accordance with IBC Section 1704.1 shall be provided.

## **Section 15-2-5            Electrical Code**

A.     Electrical Code Adopted. That certain document designated and marked as the 2011 National Electrical Code, three (3) copies of which are on file in the office of the city clerk, the "2012 International Residential Code, the 2012 International Mechanical Code, the 2012 International Plumbing Code, the 2011 National Electrical Code, the 2012 International Fuel Gas Code, the 2012 International Energy Conservation Code, the 2012 International Existing Building Code and the 2012 International Fire Code applicable to the 2011 National Electrical Code", as all may be amended by the city, three (3) copies of which are on file in the office of the city clerk, together are hereby adopted by reference as the city's uniform building code as if fully set forth herein for the regulation and governance of the installation, construction, remodeling, alteration, repair and conversion of buildings within the corporate limits of the city, and it is hereby declared to be unlawful to be in violation of any provision of the uniform building code or cause or permit the same to be done, contrary to or in violation of any of the provisions of the uniform building code as hereby adopted by the city council.

B.     City of Buckeye Amendments to the 2011 National Electrical Code.

### **Article 90.1 Purpose.**

**(A) Practical safeguarding.** Add the following after the first paragraph:

Any and all electrical work for light, heat, power or any other purposes shall be installed in conformity with the rules and regulations as set forth in this Code and that document titled the National Electrical Code, 2011 Edition and in conformity with the rules and regulations as set forth by the Building Official.

**(E) Administrative code.** Add the following subsection:

**(E) Administrative code.** The International Building Code, 2012 Edition, Chapter One, as adopted by the City of Buckeye and amended from time to time, shall be considered the Administrative Code for this sub-section.

**Article 90.6 Formal interpretations** Delete in its entirety and replace with the following:

**90.6 Formal interpretations.** To promote uniformity of interpretation and application of the provisions of this Code, Appendix B: Board of Appeals of the International Building Code, 2012 Edition, as adopted by the city and amended from time to time, shall provide established procedures for appeals of interpretation under this Section.

**Article 110.7 Wiring integrity.** Add the following sentence: "All electrical equipment 1000 amps or larger must pass a dielectric strength test by a qualified third party before requesting a meter clearance."

**Article 210.5 Identification for branch circuits.** Add subsection (D) as follows:

(D) Color Code. Where branch circuits requiring a neutral, are installed in raceways, the conductors of branch circuits connected to the same system shall conform to the following color code:

Volts	Phase	System	Phase A	Phase B	Phase C	Neutral
120/208	3	Wye	Black	Red	Blue	White
277/480	3	Wye	Brown	Orange	Yellow	Gray
120/240	3	Delta	Black	Orange	Blue or Red	White

**Exception 1:** The above color coding is required in residential occupancies that have a 120/240 3 phase delta system. The high leg must meet all the requirements of NEC 110.15, 230.56, 408.3(e) and 408.3(f).

**Exception 2:** Existing industrial occupancies holding their own maintenance license may use their own color-coding system.

**Exception 3:** Conductors of listed cable assemblies shall be permitted to be permanently re-identified at the time of installation by distinctive markings at each outlet or termination where the conductor is visible and accessible; such as, six-inch taping or other effective means.

**Exception 4:** Additions to existing structures, where an acceptable color coding system exists, the existing color coding system shall be continued.

**Exception 5:** Switch legs and/or travelers may be identified by purple or pink.

**Article 230 Services.** Add the following subsection:

**230.63 Location.** All service equipment rated 1000 amperes or more located inside a building shall be enclosed within a room or space separated from the rest of the building by not less than one-hour fire-resistive occupancy separation or fire barrier installed in compliance with the building code.

**Article 250.118 Types of equipment grounding conductors.** Delete in its entirety and replace with the following:

**250.118 Types of equipment grounding conductors.** The equipment grounding conductor run with or enclosing the circuit conductors shall be one or more or a combination of the following:

A copper conductor. This conductor shall be solid or stranded; insulated, covered, or bare; and in the form of a wire or a busbar of any shape.

Rigid metal conduit.

Intermediate metal conduit.

Electrical metallic tubing with an additional equipment grounding conductor.

Listed flexible metal conduit with an additional equipment grounding conductor, and meeting all the following conditions:

The conduit is terminated is listed fittings.

The combined length of flexible metal conduit and liquidtight flexible metal conduit in the same ground return path does not exceed 1.8 m (6 ft) for feeders and 15 m (50 ft) for branch circuits

The additional equipment grounding conductor is terminated at each termination or junction point.

Listed liquidtight flexible metal conduit with an additional equipment grounding conductor and meeting all the following conditions:

The conduit is terminated in listed fittings.

For metric designators 12 through 16 (trade sizes 3/8 through 1/2), the circuit conductors contained in the conduit are protected by overcurrent devices rated at 20 amperes or less.

For metric designators 21 through 35 (trade sizes 3/4 through 1-1/4), the circuit conductors contained in the conduit are protected by overcurrent devices rated not more than 60 amperes and there is no flexible metal conduit, flexible metallic tubing, or liquidtight flexible metal conduit in trade sizes metric designators 12 through 16 (trade sizes 3/8 through 1 1/2) in the grounding path.

The combined length of flexible metal conduit and flexible metallic tubing and liquidtight flexible metal conduit in the same ground return path does not exceed 1.8 m (6 ft).

Where used to connect equipment where flexibility is necessary after installation, and equipment grounding conductor shall be installed.

Listed flexible metal tubing with an additional equipment grounding conductor and meeting all the following conditions:

The conduit is terminated in listed fittings.

The combined length of liquidtight flexible metal conduit and flexible metal conduit in the same ground return path does not exceed 15 m (50 ft) for branch circuits and 1.8 m (6 ft) for feeders.

The additional equipment grounding conductor is terminated at each termination or junction point.

Armor of Type AC cable with an additional equipment grounding conductor and as provided in 320.108.

The copper sheath of mineral-insulated, metal-sheathed cable.

Type MC cable that provides an effective ground-fault current path in accordance with one or more of the following:

It contains an insulated or uninsulated equipment grounding conductor in compliance with 250.118(1).

The combined metallic sheath and uninsulated equipment grounding/bonding conductor of interlocked metal tape-type MC cable that is listed and identified as an equipment grounding conductor.

The metallic sheath or the combined metallic sheath and equipment grounding conductors of the smooth or corrugated tube-type MC cable that is listed and identified as an equipment grounding conductor.

Cable trays as permitted in 392.3 and 392.7.

Cablebus framework as permitted in 370.3.

Other listed electrically continuous metal raceways and listed auxiliary gutters.

Surface metal raceways listed for grounding.

**Article 310.106(B) Conductor material.** Delete in its entirety and replace with the following:

**310.106(B) Conductor material.** Conductors in this article shall be copper. Aluminum and copper-clad aluminum with a melting point greater than or equal to 1750° Fahrenheit.

**Article 334 Nonmetallic-Sheathed Cable: Types NM, NMC, and NMS.**

**Article 334.10 Uses Permitted.** Delete (3), (4), and (5) in their entirety.

**Article 358.10(B) Corrosion Protection.** Delete in its entirety and replace with the following:

**358.10(B) Corrosion protection.** Ferrous or nonferrous EMT, elbows, couplings and fittings shall be permitted to be installed in concrete, that is not in direct contact with the earth or in areas subject to severe corrosive influences where protected by corrosion protection and judged suitable for the condition.

**Article 358.12 Uses not permitted.** Add the following:

(7) Ferrous or nonferrous EMT, elbows, couplings, and fittings shall not be permitted to be installed in concrete, in the earth, or in areas subject to severe corrosive influences.

**Article 422.31 Disconnection of permanently connected appliances.** Add the following Exception:

(1): Water heaters shall have a disconnecting means immediately adjacent to the water heater.

**Article 501.30 Grounding and Bonding, Class I, Division 1 and 2.** Delete the Exceptions (A) and (B) in their entirety.

**Article 502.30 Grounding and Bonding, Class II, Division 1 and 2.** Delete the Exceptions (A) and (B) in their entirety.

**Article 690 Solar Photovoltaic (PV) Systems.**

**Section 690.4 (H) Multiple inverters.** Amended by adding the following additional Exception:

In one or two family dwellings multiple inverters and their disconnecting means shall be grouped together.

**Section 690.15 Disconnection of photovoltaic equipment.** Delete in its entirety and replace with the following:

**690.15 Disconnection of photovoltaic equipment.** An **External** means shall be provided to disconnect equipment, such as inverters, batteries, charge controllers, and the like from all ungrounded conductors from all sources. If the equipment is energized by more than one source, the disconnecting means shall be grouped and identified.

## **Section 15-2-6 Fuel Gas Code**

A. Fuel Gas Code Adopted. That certain document designated and marked as the 2012 International Fuel Gas Code, three (3) copies of which are on file in the office of the city clerk, the “2012 International Residential Code, the 2012 International Mechanical Code, the 2012 International Plumbing Code, the 2011 National Electrical Code, the 2012 International Fuel Gas Code, the 2012 International Energy Conservation Code, the 2012 International Existing Building Code and the 2012 International Fire Code applicable to the 2012 International Fuel Gas Code”, as all may be amended by the city, three (3) copies of which are on file in the office of the city clerk, together are hereby adopted by reference as the city's uniform building code as if fully set forth herein for the regulation and governance of the installation, construction, remodeling, alteration, repair and conversion of buildings within the corporate limits of the city, and it is hereby declared to be unlawful to be in violation of any provision of the uniform building code or cause or permit the same to be done, contrary to or in violation of any of the provisions of the uniform building code as hereby adopted by the city council.

B. City of Buckeye Amendments to the 2012 International Fuel Gas Code.

**Section 101.1 Title.** Insert the words “City of Buckeye” as the name of jurisdiction.

**Section 101.3 Appendices** Delete in its entirety and replace with the following:

**101.3 Appendices.** The following appendices are adopted by the City of Buckeye Appendices A – Sizing and capacities of gas piping, B – Sizing of venting systems serving appliances equipped with draft hoods, category 1 appliances and appliances listed for use with type b vents, C – Exit terminals of mechanical draft and direct-vent venting systems.

**Section 106.5.4 Extensions.** Delete in its entirety and replace with the following:

### **106.5.4 Permit extensions.**

- a. The Applicant can extend the permit expiration date when requested in writing before the permit expires.
- b. Permit Extension Fee is 50% of the original Permit Fee.
- c. Each extension will run for 180 days from the most recent inspection and there are a maximum of two extensions.

**Section 106.6.1 Work commencing before permit issuance.** Delete in its entirety and replace with the following:

Any person who commences any work before obtaining the necessary permits shall be subject to a fee that is 1.5 times the amount of the entire original calculated permit fee (excludes plan review fees).

**Section 106.6.2 Fee schedule.** Delete in its entirety and replace with the following:

**106.6.2 Fee schedule.** All fees shall be in accordance with Chapter One of the International Building Code as adopted by the City of Buckeye and amended from time to time.

**Section 106.6.3 Fee refunds** Delete in its entirety and replace with the following:

**106.6.3 Fee refunds.**

The code official shall be permitted to authorize refunding of a fee paid hereunder which was erroneously paid or collected.

The code official shall be permitted to authorize refunding of not more than 80 percent of the permit fee paid when no work has been done under a permit issued in accordance with this code.

The code official shall be permitted to authorize refunding of not more than 80 percent of the plan review fee paid when an application for a permit for which a plan review fee has been paid is withdrawn or canceled before any examination time has been expended.

The code official shall not be permitted to authorize refunding of any fee paid except upon written application filed by the original permitted not late than 180 days after the date of fee payment.

**Section 108.4 Violation penalties.** Delete in its entirety.

**Section 108.5 Stop work order** Amended as follows:

**108.5 Stop work order.** The last sentence is amended to read: Any person who shall continue any work on the system after having been served by a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable for a fine as established by the City of Buckeye.

**Section 201.4 Terms not defined.** Delete in its entirety and replace with the following:

**201.4 Terms not defined.** Where terms are not defined through the methods authorized by this chapter, such terms shall have ordinarily accepted meanings such as the context implies. Webster's Third New International Dictionary of the English Language, Unabridged, shall be considered as providing ordinarily accepted meanings.

**Section 403.4.3 Copper and brass.** Deleted in its entirety.

**Section 403.5.2 Copper and brass tubing.** Delete in its entirety.

**Section 404.12 Minimum burial depth.** Delete in its entirety and replace with the following:

**404.12 Minimum burial depth.** Underground piping systems shall be installed a minimum depth of 12 inches (305mm) below grade for metal piping and 18 inches (457mm) for plastic piping.

**Section 404.12.1 Individual outside appliances:** Delete in its entirety.

**Section 406.4.1 Test pressure** Delete in its entirety and replace with the following:

**406.4.1 Test pressure.** The test pressure to be used shall be no less than 1 ½ times the proposed maximum working pressure, but no less than 3 psig (20 kPa gauge), the acceptable air gauge shall be calibrated in 1/10 lb increments. Where the test pressure exceeds 125 90 psig (862 kPa gauge), irrespective of design pressure, the test pressure shall not exceed a value that produces a hoop stress in the piping greater than 50 percent of the specified minimum yield strength of the pipe.

## **Section 15-2-7 Energy Conservation Code**

A. Energy Conservation Code Adopted. That certain document designated and marked as the 2012 International Energy Conservation Code, three (3) copies of which are on file in the office of the city clerk, the “2012 International Residential Code, the 2012 International Mechanical Code, the 2012 International Plumbing Code, the 2011 National Electrical Code, the 2012 International Fuel Gas Code, the 2012 International Energy Conservation Code, the 2012 International Existing Building Code and the 2012 International Fire Code applicable to the 2012 International Energy Conservation Code”, as all may be amended by the city, three (3) copies of which are on file in the office of the city clerk, together are hereby adopted by reference as the city's uniform building code as if fully set forth herein for the regulation and governance of the installation, construction, remodeling, alteration, repair and conversion of buildings within the corporate limits of the city, and it is hereby declared to be unlawful to be in violation of any provision of the uniform building code or cause or permit the same to be done, contrary to or in violation of any of the provisions of the uniform building code as hereby adopted by the city council.

B. City of Buckeye Amendments to the 2012 International Energy Conservation Code.

**Section C101.1 Title.** Insert the words “City of Buckeye” as the name of jurisdiction.

**Section C101.2 Scope.** Amend by adding the following to the end of the Section:

Group R-2 when defined as a Commercial Building by section C202, shall have the option of complying under the Residential Provisions of the code, regardless of height. Once defined as such on the submittal documents, all components of the Residential Provisions shall be followed.

**Section C107.2 Schedule of permit fees.** Delete in its entirety and replace with the following:

**Section C107.2 Schedule of permit fees.** All fees shall be in accordance with Chapter One of the International Building Code as adopted by the City of Buckeye and amended from time to time.

**Section C107.3 Work commencing before permit issuance.** Delete in its entirety and replace with the following:

**C107.3 Work commencing before permit issuance.** Any person who commences any work before obtaining the necessary permits shall be subject to a fee that is 1.5 times the amount of the entire original calculated permit fee (excludes plan review fees).

**Section C107.5 Refunds:** Delete in its entirety and replace with the following:

The code official shall be permitted to authorize refunding of a fee paid hereunder which was erroneously paid or collected.

The code official shall be permitted to authorize refunding of not more than 80 percent of the permit fee paid when no work has been done under a permit issued in accordance with this code.

The code official shall be permitted to authorize refunding of not more than 80 percent of the plan review fee paid when an application for a permit for which a plan review fee has been paid is withdrawn or canceled before any examination time has been expended.

The code official shall not be permitted to authorize refunding of any fee paid except upon written application filed by the original permitted not later than 180 days after the date of fee payment.

**Section R101.1 Title.** Insert the words “City of Buckeye” as the name of jurisdiction.

**Section R101.2 Scope.** Amend by adding the following to the end of the Section:

Group R-2 when defined as a Commercial Building by section C202, shall have the option of complying under the Residential Provisions of the code, regardless of height. Once defined as such on the submittal documents, all components of the Residential Provisions shall be followed.

**Section R102 Alternate materials-method of construction, design or insulating system.**

**Section 102.1.1 Above code programs.** Add the following subsection:

**R102.1.1.1 RESNET testing & inspection protocol.** The Residential Energy Services Network (RESNET) Mortgage Industry National Home Energy Rating System Standards Protocol for third party testing and inspections, shall be deemed to meet the requirements of sections N1102.4.1.1, N1102.4.1.2 and N1103.2.2. and shall meet the following conditions:

Third Party Testing and Inspections shall be completed by RESNET certified Raters or Rating Field Inspectors and shall be subject to RESNET Quality Assurance Field Review procedures.

Sampling in accordance with Chapter 6 of the RESNET Standards shall be performed by Raters or Rating Field Inspectors working under a RESNET Accredited Sampling Provider.

Third Party Testing is required for the following items:

402.4.1.1 –Building Envelope – Thermal and Air Barrier Checklist.

R402.4.1.2 –Testing – Air Leakage Rate.

R403.2.2 – Sealing – Duct Tightness.

The other requirements identified as “mandatory” in Chapter 4 shall be met.

Alternate testing and inspection programs and protocols shall be allowed when approved by the Code Official.

**Section R107.3 Work commencing before permit issuance.** Delete in its entirety and replace with the following:

**R107.3 Work commencing before permit issuance.** Any person who commences any work before obtaining the necessary permits shall be subject to a fee that is 1.5 times the amount of the entire original calculated permit fee (excludes plan review fees).

**Section R401.2 Compliance.** Delete in its entirety and replace with the following:

**R401.2 Compliance.** Projects shall comply with Sections identified as “mandatory” and with either sections identified as “prescriptive” or the performance approach in Section R405.

Add the following section:

**R401.2.1 Alternative approach for compliance.** A Home Energy Rating System (“HERS”) Index of 73 or less, confirmed in writing by a Residential Energy Services Network certified energy rater may be used in place of the approach described in section 401.2 above. Compliance may be demonstrated by sampling in accordance with Chapter 6 of the Mortgage Industry National Home Energy Rating Systems Standard as adopted by the Residential Energy Services Network.

**Section R403.2.1 Insulation (prescriptive).** Delete in its entirety and replace with the following:

**R403.2.1 Insulation (Prescriptive).** Supply ducts in attics shall be insulated to a minimum of R-8. Ducts in floor trusses shall be insulated to a minimum of R-6.

**Exceptions:**

1. Ducts or portions thereof located completely inside the building thermal envelope.
2. Supply ducts may be insulated to a minimum of R-6 when one or more of the following conditions are met:
  - 2.1 Minimum SEER rating of space heating/cooling system is increased to 15.
  - 2.2 Maximum U-factor is decreased to 0.35 and maximum SHGC is decreased to 0.22 for all fenestration products.
  - 2.3 Wall cavity insulation minimum R-value is increased to R-19.
  - 2.4 Residential buildings that meet the requirements of sections R102.1.1 or R405.
  - 2.5 Residential buildings with attic radiant barriers in accordance with ASTM C1313, installed in accordance with ASTM C1743.

## **Section 15-2-9 Existing Building Code**

- A. Existing Building Code Adopted. That certain document designated and marked as the 2012 International Existing Building Code, three (3) copies of which are on file in the office of the city clerk, the “2012 International Residential Code, the 2012 International Mechanical Code, the 2012 International Plumbing Code, the 2011 National Electrical Code, the 2012 International Fuel Gas Code, the 2012 International Energy Conservation Code, the 2012 International Existing Building Code and the 2012 International Fire Code applicable to the 2012 International Existing Building Code”, as all may be amended by the city, three (3) copies of which are on file in the office of the city clerk, together are hereby adopted by reference as the city’s uniform building code as if fully set forth herein for the regulation and governance of the installation, construction, remodeling, alteration, repair and conversion of buildings within the corporate limits of the city, and it is hereby declared to be unlawful to be in violation of any provision of the uniform building code or cause or permit the same to be done, contrary to or in violation of any of the provisions of the uniform building code as hereby adopted by the city council.
- B. City of Buckeye Amendments to the 2012 International Existing Building Code.

**The International Existing Buildings Code, 2012 Edition, is amended in the following respects:**

**Section 101.1 Title.** Insert the words “City of Buckeye” as the name of jurisdiction.

**Section 101.2. Scope** insert the words “when approved by the Building Official” at the end of the sentence.

**Section 105.3.2. Time limitation of application.** Delete in its entirety and replace with the following:

### **Section 105.3.2. Time limit of application.**

- a. The City will not hold or store plans. Any plan set or report that has not been picked up from the City within 90 days of the City's first notification to the applicant that the plans are ready to be picked up will be deemed abandoned and destroyed. The Developer/Landowner will be notified that the expired plan set or report will no longer be considered by the City. If a plan is abandoned, the Developer/Landowner will be required to resubmit the abandoned plan and pay the City all associated fees.
- b. If a construction permit for the plans has not been issued within 1 year from the date of approval noted on the cover sheet, the plans will be required to be resubmitted to the City for review and re-approval.
  - i. In order to resubmit plans the design engineer shall bring the plans into conformance of the City’s current standards and requirements.
  - ii. All revised plans will be subject to the City's current fee schedule.
  - iii. This resubmittal is required to go through a comprehensive review of all sheets.
- c. Plans shall be considered revised and shall be subject to revised plan fees (all sheets) if plans have been resubmitted to the City for review or permitting after 2 years and up to 5 years from the date of the last City action.

- d. If plans have not been resubmitted to the City for review or permitting within 5 years from the date of the last City action, the plans shall be considered expired. Once a plan has expired, the plan shall be resubmitted for first review and all associated fees shall be paid to the City.
  - i. In order to resubmit plans, the design engineer shall bring the plans into conformance with the City's current standards and requirements.
  - ii. All expired plans being resubmitted will be subject to the City's current fee schedule.
  - iii. This new submittal is required to go through a comprehensive review of all sheets.

**Section 108.2 Schedule of permit fees** Delete in its entirety and replace with the following:

**Section 108.2 Schedule of permit fees:** All fees shall be in accordance with Chapter One of the International Building Code as adopted by the City of Buckeye and amended from time to time.

**Section 108.4 Work commencing before permit issuance.** Delete in its entirety and replace with the following:

**108.4 Work commencing before permit issuance.** Any person who commences any work before obtaining the necessary permits shall be subject to a fee that is 1.5 times the amount of the entire original calculated permit fee (excludes plan review fees).

**Section 108.6 Refunds** delete in its entirety and replace with the following:

**108.6 Refunds** The code official shall be permitted to authorize refunding of a fee paid hereunder which was erroneously paid or collected.

The code official shall be permitted to authorize refunding of not more than 80 percent of the permit fee paid when no work has been done under a permit issued in accordance with this code.

The code official shall be permitted to authorize refunding of not more than 80 percent of the plan review fee paid when an application for a permit for which a plan review fee has been paid is withdrawn or canceled before any examination time has been expended.

The code official shall not be permitted to authorize refunding of any fee paid except upon written application filed by the original permittee not later than 180 days after the date of fee payment.

## **Section 15-2-10 Fire Code**

A. Fire Code Adopted. That for the purpose of prescribing regulations governing conditions hazardous to life and property from fire, hazardous materials or for explosion, that certain Code known as the International Fire Code, including all Appendix Chapters and Appendix Standards, published by the International Fire Code Council, being particularly the 2012 Edition thereof and the whole thereof, save and except such portions as are hereinafter deleted, modified or amended by the City, three (3) copies of which have been and are now filed in the office of the City Clerk of the City of Buckeye and the same are hereby adopted and incorporated as fully as if set out at length herein, and from the date on which this ordinance shall take effect, the provision thereof shall be controlling within the limits of the City of Buckeye.

B. Appeals. Whenever the fire chief disapproves an application or refuses to grant a permit applied for, or when it is claimed that the provisions of the code do not apply or that the true intent and meaning of the code have been misconstrued or wrongly interpreted, the applicant may appeal from the decision of the Fire Chief to City Council within 30 days from the date of the decision appealed.

C. New Materials, Process or Occupancies Which May Require Permits. The fire chief or his designee and the fire marshal shall act as a committee to determine and specify, after giving affected persons an opportunity to be heard, any new materials, process or occupancies for which permits are required in addition to those now enumerated in the International Fire Code. This information shall be posted in a conspicuous place at the fire station and distribute copies thereof to interested persons.

D. Deletions, Modifications, and Amendments. The following Sections of the 2012 Edition of the International Fire Code are amended as follows:

**Section 102.10 Administration; applicability; conflicting provisions.** Amend to read as follows:

**102.10 Conflicting provisions.** Where there is conflict between a general requirement and a specific requirement, the specific requirement shall be applicable. Where there is a conflict between this Code and another Code, rule or regulation of the City of Buckeye, the more stringent shall apply.

Section 104.8, entitled "Modifications," is hereby amended by adding a sentence to the beginning of the Section to read as follows: "The designated fire code official may develop guidance and details that are not consistent with the provisions of this code to assist those entities subject to this code comply with the provisions of this code."

**Section 106 Inspections** is hereby amended by adding a new sub-section:

**106.2 Special inspections.** The fire code official is authorized to appoint qualified persons or agencies having special technical skills as special inspectors or plan reviewers and accept their inspection, plan review and evaluation of specialized fire protection equipment or systems.

**Section 109 Violations** is hereby amended by adding a new sub-section:

**109.4.2 Abatement of environmental, health, fire or life safety hazards by fire code official.** If any person fails to comply with the orders of the Fire Code Official, or if the Fire Code Official is unable to locate the owner, operator, occupant or other person responsible within a reasonable time, the Fire Code Official or any authorized representative may take such steps as are necessary to abate the hazard for the protection and safety of the public. In no event is notice necessary before abatement, when the hazard is a clear and present danger to the public welfare. All costs and attorney fees related to such abatement shall become a lien on the subject property.

**Section 202 General definitions** is hereby amended by adding new definitions:

**Authorized emergency vehicle** is any of the following, per A.R.S. 28-101:

1. A fire department vehicle,
2. A police vehicle,
3. An ambulance or emergency vehicle of a municipal department or public service corporation that is designated or authorized by the department or a local authority, or
4. Any other ambulance, fire truck or rescue vehicle that is authorized by the department in its sole discretion and that meets liability insurance requirements prescribed by the department.”

**Fire Hazard** which is anything or act which increases or could cause an increase of the hazard or menace of fire to a greater degree than that customarily recognized as normal by persons in the public service regularly engaged in preventing, suppressing or extinguishing fire or anything or act which could obstruct, delay, hinder or interfere with the operation of the fire department or the egress of occupants in the event of fire.

**Single Family Dwelling.** A single family dwelling is less than 5000 square feet measured under the roof line, remote and detached from all other structures and property lines and meets all set back requirements as outlined in the current City of Buckeye Development Code or Standards.

**National Institute for the Certification of Engineering Technologies,** which is hereafter referred to as NICET (1420 King Street, Alexandria, VA, 22314-2915).

**Sky Lantern.** A sky lantern is a device designed to carry an open flame as an airborne light. It is also known as kongming lantern, wish lantern, sky candle, fire balloon, etc.

**Section 308.1.1** entitled, “Where prohibited,” is hereby amended by adding a new subsection:

**308.1.1.1 Sky lantern.** The lighting of, and the release of, sky lanterns shall be prohibited.

**Section 308.1.4 Open-flame cooking devices** is hereby amended to read as follows:

**3081.4 Open-flame cooking devices.** Charcoal burners, portable barbecues and other open flame devices shall not be operated on combustible balconies or within 10 feet (3048mm) of combustible construction.

**Exception:**

Single family dwellings.

**Section 308.1.4.1 Liquefied- petroleum-gas-fueled cooking devices.** Amend to read as follows:

**308.1.4.1 Liquefied- petroleum-gas-fueled cooking devices.** No person shall use individual fixed or portable LP-gas burners or barbecues on or under any attached covered patios, balconies, covered walkways, stair or roof overhangs and shall not be located within 10 feet (3,048 mm) of combustible construction. Liquid propane grills are not allowed above the ground floor and LP cylinders shall not be stored in or transported through the building.

**Exception:**

Single family dwellings.

**Section 503 Fire apparatus access roads** is hereby amended by adding new sub-sections:

**503.1.2.1 Additional access.** Residential developments where the number of dwelling units exceeds 10 shall be provided with two separate and approved fire apparatus access roads.

**503.1.4 Temporary fire apparatus access roads.** Temporary fire apparatus access roads, such as those used for fire department access during construction, must comply with Section 503.1.7.

**503.1.5 Required access.** Fire apparatus access is required within 150 feet of all points on the exterior of the building.

**503.1.6 Width.** Temporary fire apparatus access roads shall be a minimum of 20 feet in width.

**503.1.7 Surface.** The access roadway surface is usable in all weather conditions. Temporary fire apparatus access roads shall be constructed as follows: Minimum 6 inches of native soil compacted to 95% of standard proctor density (ASTM D698), and Minimum 4 inches of aggregate base compacted to 100% of standard proctor density (ASTM D698). The surface of temporary fire apparatus access roads may differ from the above requirements if it is shown that the surface provided is sufficient to support an imposed live load of 75,000 pounds with a maximum axle load of 24,000 pounds.

**503.1.8 Stabilization.** Curbs are not required for temporary fire apparatus access roads.

**Section 503.3 Marking.** Amend to read as follows:

Where required by the fire code official, approved signs or other approved notices shall be provided for fire apparatus access roads (fire lanes) to identify such roads or prohibit the obstruction thereof on public and private property. Signs or notices shall be maintained in a clean and legible condition at all times and shall be replaced or repaired when necessary to provide adequate visibility. All fire lanes shall be marked in the following manner:

1. Fire lane signs per City of Buckeye will adhere to standard detail specifications (City of Buckeye detail number B-365).
2. Curb, street or driveway will be painted red to indicate fire lane and labeled "FIRE LANE NO PARKING" in white block letters 3 inches (76.2mm) in height with a 3/4 in. (19.5 mm) stroke, on the vertical face of the curb to indicate a fire lane.
3. Lettering shall not be greater than 75'-0" (15.24m) apart and shall be posted at the beginning and end of the fire lane.
4. It shall be unlawful for any vehicle, equipment or device to park in or block the fire lane. Any vehicle, equipment or device found parked in or blocking a fire lane shall be cited by the police or the fire department.

**Exception:**

Authorized emergency vehicles."

**Section 503.6 Security gates.** Amend by adding new sub-sections:

**503.6.1 Fire department access limiting gates.** All gates limiting access will be required to provide emergency Access controls for Fire Department entry.

**503.6.2 Gate operations.** Operation of the gate shall be by pre-emption device and key switch.

**503.6.3 Permit required.** Gate Access information and scale plans shall be submitted to the Fire Department for a permit.

**503.6.4 Minimum installation standards.** The installation of preemption devices shall comply with the following:

1. Traffic Preemption opening device shall be on all motorized gates. Opticom, 3M, Model Specified by the Fire Department at time of installation shall be used.
2. Detectors shall be mounted 8 to 10 feet above grade.
3. Detectors shall be located a minimum of 18 inches behind the gate on the property side.
4. Detectors shall be mounted on a separate 4 inch by 4 inch metal post and not on the guidepost. The metal post shall be secured in concrete a minimum of 18 inches below grade.
5. Detectors shall activate at a minimum of 150 feet from the gate.
6. Detectors shall point toward both the approach and the exit path of the emergency vehicle."

7. The sight path of the detector shall be free of visual obstructions such as signs, covered parking, canopies and vegetation.
8. Individual detectors shall be mounted together with the power module in a dual detector-mounting box. Detectors shall be approved by the fire department. A list of approved devices will be maintained by the fire department and available to the public.

**503.6.5 Gate access roadways.** The gates shall be designed so that the access roadway or turning radius (WB50) shall not be obstructed by the operation of the gate. Minimum set back from the public streets shall be a distance determined by the City Engineer and allow the emergency vehicle the ability to safely operate the lock box or panel. Turning radius from the public street shall be WB50.

**503.6.6 Keyed access.** The lock box, padlock or key switch, must be an approved model utilized by the Buckeye Fire Department. Lock Box Authorized Forms may be picked up at the City of Buckeye Fire Department, Monday through Thursday, 7:00 am to 6:00 pm.

**503.6.7 Access controls.** Access controls shall be exterior to the gate and located for activation by the vehicle operator without dismounting from the vehicle. The height of the lock box/control panel shall be sixty (60) inches to sixty six (66) inches, measured from the finished grade line of the street.

**503.6.8 Access signage.** The control pedestal must be identified with a minimum six (6) inch by Ten (10) inch sign with white reflective letters on a red background. This sign must be securely fastened to the pedestal and legible from the approaching vehicle, and read: EMERGENCY FIRE DEPARTMENT ACCESS.

**503.6.9 Gate operation.** Gates must fully open within fifteen (15) seconds of activation and remain in the open position for thirty minutes or until closed by the Fire Department.

**503.6.10 Fail safe operation.** Battery back-up for all motorized gates is required, unless the gate fails safe (open) in the event of a power failure.

**Section 503 Fire apparatus access roads.** Amend by adding a new sub-section:

**Section 503.7 Hillside building requirements.** Residential developments where the access and operations of emergency services is determined by the Fire Code Official to be impacted by the terrain or other geographical issues may require additional fire protection and safety requirements for construction. These requirements include, but are not limited to:

1. All Structures are to be fully protected by an automatic fire sprinkler system including the attic.
2. On all driveways exceeding 150 feet or of a design that would impair access, a horizontal standpipe will be required.
3. All lots will require an operational platform of 400 square feet and of a design approved by the Fire Code Official.
4. Pullouts constructed of an all-weather surface will be required next to fire hydrants on all private drives or access roadways less than 20 feet in width.

5. Grades exceeding 15% will require flat areas for acceleration and staging.

**Section 505 Premises identification** is hereby amended to read as follows:

**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. These numbers shall contrast with their background. Address numbers shall be Arabic numerals or alphabet letters. Address and building numbers for commercial properties shall be a minimum of 12 inches (305 mm) high with a minimum stroke width of 2.0 inch (51 mm). Units within a building shall be a minimum of 6 inches (152 mm) high with a minimum stroke width of 1.0 inch (25.4 mm). Individual unit or suite numbers shall be a minimum of 4 inches (102 mm) high with a minimum stroke width of 0.5 inch (12.7 mm). One and two family dwelling shall be a minimum of 4 inches (102 mm) high with a minimum stroke width of 0.5 inch (12.7 mm). Where access is by means of a private road and the building cannot be viewed from the public way, a monument, pole or other sign or means shall be used to identify the structure. Address numbers shall be maintained.

**Section 506.1 Fire service features; key boxes.** Amend to read as follows:

**506.1 Where required.** Where access to or within a structure or an area is restricted because of secured openings or where immediate access is necessary for life-saving or fire-fighting purposes, or where there is an automatic fire sprinkler or fire alarm system, the Fire Official is authorized to require a key box to be installed in an accessible location(s). The key box shall be an approved type and shall contain keys to gain access as required by the Fire Official.

**Section 507.1 Required water supply.** Amend to read as follows:

**507.1 Required water supply.** Water supplies for automatic and manual fire suppression and fire hydrants shall be in accordance with Appendix B. When water is not available, or if the flow rate, pressure, or duration of the water available from the City of Buckeye or Private water Company does not meet the minimum requirements of this code, the owner shall be responsible for installing the entire infrastructure required to meet the fire flow, pressure, and duration requirements of this code.

**Section 507 Fire protection water supplies.** Amend by adding new sub-sections:

**507.1.2 Failure to provide water supply.** Failure to provide the required water supply necessary for fire protection shall be considered a hazard to life or property and is subject to enforcement under Section 109 of this code.

**507.5.2.1 Inspection of private water supply systems.** Private water supply system installations and modifications shall be subject to field inspection and tests by the Fire Department.

**507.5.7 Height.** Fire hydrants shall be installed so that the centerline of the lowest outlet is not less than 18 inches above grade and the highest outlet does not exceed 30 inches above grade.

**507.5.8 Color of hydrants.** The color of hydrants shall be fire hydrant yellow. Private fire hydrants shall have the bonnet painted reflective white. Hydrants not intended for fire department use shall have the bonnet painted black.

**Section 510 Emergency responder radio coverage.** Amend by adding new sub-sections:

**510.01 Purpose.** The purpose of this article is to provide minimum standards to insure a reasonable degree of reliability for emergency services communications from within certain buildings and structures within the City of Buckeye to and from emergency communications centers. It is the responsibility of the emergency service provider to get the signal to and from the building site.

**510.02 Scope.** The provisions of this article shall apply to new buildings and structures of construction greater than fifty thousand (50,000) square feet or modifications made within any twelve (12) month period and exceed fifty percent (50%) of the value of the existing building(s) or structure(s), or the use of the property is expanded or enlarged by fifty percent (50%), which have not received a final inspection prior to the adoption of these provisions; and All basements or sub-level parking structures over ten thousand (10,000) square feet where the design occupant load is greater than fifty (50), regardless of the occupancy. For the purpose of this section, area separation walls cannot be used to define separate buildings.

**Section 510.03 Radio coverage.** Except as otherwise provided in this article, no person shall erect construct or modify any building or structure or any part thereof, or cause the same to be done which fails to support adequate radio coverage for firefighters and police officers and other public safety personnel. A final inspection shall not be approved for any building or structure that fails to comply with this requirement.

**Section 510.3.1 Permit and approval.** The City's Telecommunications unit with consideration of the appropriate police, fire and emergency medical department services, at the time the building permit is issued, shall determine the frequency range or ranges that must be supported. For the purpose of this section, adequate radio coverage shall constitute a successful communications test between the building and the communications centers for all appropriate emergency service providers for the building.

**Section 901 Fire protection systems** is hereby amended by adding new sub-sections:

**901.2.2 Plan certification for fire alarm systems and occupant notification.** All fire alarm and occupant notification system plans submitted to the fire department for review and approval shall bear a qualified registrants seal or review certification of a minimum level III NICET in Fire Alarms.

**901.2.3 Plan certification for fire sprinkler systems.** All fire sprinkler plans submitted to the fire department for review and approval shall bear a qualified registrant's seal or review certification of a minimum level III NICET in fire sprinklers in accordance with fire department Interpretation and Applications Manual.

**901.2.4 Plan certification for all other fire protection systems.** Plan certification for all other fire protection systems will be accompanied by a certification of competence when required.

**901.2.5 On-site plans.** Plans and specifications shall be submitted to the fire department for review and approval prior to construction. One set of fire department approved plans shall be on the job site for each inspection.

**Section 901.7 Systems out of service** is amended by adding the following sentence at the end of the section: "No required fire sprinkler system or fire alarm system shall be placed out of service for more than 8 hours in any one day without written authorization by the fire code official."

**Section 903.2 Where required** is amended to read as follows:

**903.2 Where required.** An automatic sprinkler system shall be installed throughout all levels of new Groups A, B, E, F, H, I, M, R, S and U occupancies of more than zero (0) square feet.

**Exceptions:**

The following accessory structures shall be exempt from fire sprinkler requirements:

1. Gazebos and Ramada's for residential and public use.
2. Independent rest room buildings that are associated with golf courses, parks and similar uses.
3. Guardhouses for residential and commercial developments.
4. Detached non-combustible carports or parking structures for residential and commercial developments with covered parking less than 15,000 square feet (1,394 m<sup>2</sup>).
5. Barns and agricultural buildings for private, residential, non-commercial use, not exceeding 1,500 square feet (139.35m<sup>2</sup>) with no habitable areas.
6. Detached storage sheds for private, residential, non-commercial use, not exceeding 1,500 square feet (139.35 m<sup>2</sup>).
7. Detached 1, 2 and 3 car garages (without habitable spaces) in existing R-3 developed parcels.
8. Fabric covered shade structures.
9. Open shade horse stalls of non-combustible construction for private, residential, non- commercial use, not exceeding 5,000 square feet (464.52 m<sup>2</sup>) and no storage of combustible products, vehicles, or agricultural equipment.
10. Special use non-combustible structures as approved by the chief.

**Section 903.2.1 Group A** is hereby amended to read as follows:

**903.2.1 Group A.** An automatic sprinkler system shall be installed throughout all Group A occupancies in accordance with NFPA 13 Installation of Sprinkler Systems and Fire Department Interpretation and Applications Manual.

**Exceptions:**

1. An automatic sprinkler system need not be provided when the floor area of a temporary amusement building is less than 1,000 square feet and the exit travel distance from any point is less than 50 feet.

2. Press boxes and storage facilities less than 1,000 square feet in area and in conjunction with outdoor seating facilities where all means of egress in the seating area are essentially open to the outside.

**Section 903 Automatic sprinkler systems.** Amend by adding new sub-sections:

**903.2.2.1 Group B occupancies.** An automatic sprinkler system shall be installed throughout all Group B occupancies in accordance with NFPA 13 Installation of Sprinkler Systems as modified by Fire Department Interpretation and Applications Manual.

**903.3.2.3 Group E.** An automatic sprinkler system shall be installed throughout all Group E occupancies in accordance with NFPA 13 Installation of Sprinkler Systems and Fire Department Interpretation and Applications Manual.

**903.2.4 Group F.** An automatic sprinkler system shall be installed throughout all Group F occupancies in accordance with NFPA 13 Installation of Sprinkler Systems and Fire Department Interpretation and Applications Manual.

**903.2.5 Group H.** An automatic sprinkler system shall be installed throughout all Group H occupancies in accordance with NFPA 13 Installation of Sprinkler Systems and Fire Department Interpretation and Applications Manual.

**Section 903.2.5 Group H.** Amend by deleting sub-section 903.2.5.1 entitled "General."

Section 903.2.5 Group H is hereby amended by deleting sub-section 903.2.5.2 entitled "Group H-5 occupancies."

**Section 903.2.5 Group H.** Amend by deleting sub-section 903.2.5.3 entitled "Pyroxylin Plastics."

**Section 903.2.6 Group I.** Amend to read as follows:

**903.2.6 Group I.** An automatic sprinkler system shall be installed throughout all Group I occupancies in accordance with NFPA 13 Installation of Sprinkler Systems and Fire Department Interpretation and Applications Manual.

**Exception:**

In jails, prisons and reformatories, the piping system may be dry, provided a manually operated valve is installed at a continuously monitored location. Opening of the valve will cause the piping system to be charged. Sprinkler heads in such systems shall be equipped with fusible elements or the system shall be designed as required for deluge systems in the Building Code.

**Section 903.2.7 Group M.** Amend to read as follows:

**903.2.7 Group M.** An automatic sprinkler system shall be installed throughout all Group M occupancies in accordance with NFPA 13 Installation of Sprinkler Systems and Fire Department Interpretation and Applications Manual.

**Section 903.2.8 Group R** is hereby amended to read as follows:

**903.2.8 Group R.** An automatic sprinkler system shall be installed throughout all Group R occupancies in accordance with NFPA 13, 13-R, or 13D Installation of Sprinkler Systems and Fire Department Interpretation and Applications Manual.

**Exception:**

Single Family Dwellings less than 5000 square feet measured under the roof line, remote and detached from all other structures and property lines and meets all set back requirements as outlined in the current City of Buckeye development rules or standards.

Zero lot lines, Z-lots, court homes, cluster homes, condominiums, patio homes, townhomes and non-traditional housing units are not considered a single family structure and all other housing units by their design, construction or location, present access issues for Fire Department response and are required to be protected throughout with an approved automatic sprinkler system.

**Section 903.2.9 Group S.** Amend to read as follows:

**903.2.9 Group S.** An automatic sprinkler system shall be installed throughout all Group S occupancies in accordance with NFPA 13 Installation of Sprinkler Systems and Fire Department Interpretation and Applications Manual.

**Section 903.2.9.1 Repair garages.** Amend to read as follows:

**903.2.9.1 Repair garages.** An automatic sprinkler system shall be installed throughout all repair garages in accordance with NFPA 13 Installation of Sprinkler Systems as modified by Fire Department Interpretation and Applications Manual.

**Section 903.2.9.2 Bulk storage of tires.** Amend to read as follows:

**903.2.9.2 Bulk storage of tires.** An automatic sprinkler system shall be installed throughout all bulk tire storage facilities in accordance with NFPA 13 Installation of Sprinkler Systems as modified by Fire Department Interpretation and Applications Manual.

**Section 903.2.10 Group S-2** is hereby amended to read as follows:

**903.2.10 Group S-2 occupancies.** An automatic sprinkler system shall be installed throughout all Group S-2 occupancies in accordance with NFPA 13 Installation of Sprinkler Systems as modified by Fire Department Interpretation and Applications Manual.

**Section 903.2.10.1 Commercial parking garages.** Amend to read as follows:

**903.2.10.1 Commercial parking garages.** An automatic sprinkler system shall be installed throughout all commercial parking garages in accordance with NFPA 13 Installation of Sprinkler Systems as modified by Fire Department Interpretation and Applications Manual.

**Section 903.2.11.1 Stories without openings.** Amend by adding a new sub-section as follows:

**903.2.11.1.4 Windowless stories in all occupancies.** An automatic sprinkler system shall be installed throughout all Windowless stories in all occupancies in accordance with NFPA 13 Installation of Sprinkler Systems as modified by Fire Department Interpretation and Applications Manual.

**Section 903.2.11.3 Buildings 55 feet or more in height** is hereby amended to read as follows:

**903.2.11.3. Buildings 55 feet or more in height.** An automatic sprinkler system shall be installed throughout all buildings 55 feet or more in height in accordance with NFPA 13 Installation of Sprinkler Systems as modified by Fire Department Interpretation and Applications Manual.

**Section 903.3 Installation requirements.** Amend to read as follows:

**903.3 Installation requirements.** Automatic sprinkler systems shall be designed and installed in accordance with NFPA 13, 13-R, 13-D 13 Installation of Sprinkler Systems as modified by Fire Department Interpretation and Applications Manual.

**Section 1016 Exit access travel distance.** Amend by adding a new sub-section as follows:

**1016.2.2 Group F-1 and S-1 increase.** The maximum *exit access* travel distance shall be 400 feet (122 m) in Group F-1 and S-1 occupancies where all of the following are met:

1. The portion of the building classified as Group F-1 or S-1 is limited to one story in height.
2. The minimum height from the finish floor to the bottom of the ceiling or roof slab or deck is 24 feet (7,315 mm); and
3. The building is equipped throughout with an *automatic sprinkler system* in accordance with Section 903.3.1.1 and Chapter 32 of this code.
4. Additional building access shall be provided in accordance with this code, Sections 3206.6 through 3206.6.1.3.

**1016.2.2.1 Group F-1 and S-1 with a storage area greater than 500,000 square feet (46,451 m<sup>2</sup>).** When storage areas in Group F-1 and S-1 occupancies are greater than 500,000 square feet a technical report prepared by an Arizona professional shall be submitted for review and approval by the *fire code official*. Additional fire protection or life safety systems, or both, may be required by the Fire Marshal.

**Section 2301.4 Indoor motor fuel-dispensing facilities.** Amend to read as follows:

**2301.4 Indoor service stations.** Motor vehicle fuel-dispensing stations located inside buildings are prohibited within the entire City of Buckeye.

**Exception:**

Single family residences for alternative fuels when installed with applicable standards.

Section 2301.4, entitled "Indoor motor fuel-dispensing facilities," is hereby amended by deleting sub-section "**2301.4.2 Protection of floor openings in indoor motor fuel-dispensing facilities.**"

**Section 3310 Access for Fire Fighting.** Amend to read as follows:

**3310.3 Access road and signage.** During construction, approved signs shall be located to direct emergency responders into and through the construction site as required by the Fire Code Official.

**Section 5001.5.1 Hazardous materials management plan** is hereby amended to read as follows:

**5001.5.1 Hazardous materials management plan.** When required by the fire code official, each application for a permit shall include a Hazardous Materials Management Plan (HMMP). The HMMP shall include a facility site plan and include the information set forth below. HMMP shall be submitted annually or more often if the hazardous material amounts change by greater than 10% in any single category or overall. HMMP shall be submitted electronically in a format acceptable to the Buckeye Fire Department. The submittal shall be required to determine Fire Code Permitting criteria for storage, use, and/or handling of hazardous materials within the City of Buckeye. Any electronic submittal is acceptable as long as the data will import or interface with the software program currently being used by the Fire Department. Electronic reporting shall be required for all new and existing facilities upon permit renewal.

1. Storage and use areas.
2. Maximum amount of each material stored or used in each area.
3. Range of container sizes.
4. Locations of emergency isolation and mitigation valves and devices.
5. Product conveying piping containing liquids or gases, other than utility-owned fuel gas lines and low pressure fuel gas lines.
6. On and off positions of valves for valves that are of the self-indicating type.
7. Storage plan showing the intended storage arrangement, including the location and dimensions of aisles.
8. The location and type of emergency equipment. The plans shall be legible and drawn approximately to scale. Separate distribution systems are allowed to be shown on separate pages.

**Section 5001.5.2 Hazardous materials inventory statement** is hereby amended to read as follows:

**5001.5.2 Hazardous materials inventory statement (HMIS).** Where required by the fire code official, an application for a permit shall include an HMIS, such as SARA (Superfund Amendments and Reauthorization Act of 1986) Title III, Tier II Report, or other approved statement. The HMIS shall include the information set forth below. A HMIS shall be submitted annually or more often if the hazardous material amounts change by greater than 10% in any single category or overall. HMIS shall be submitted electronically in a format acceptable to the City of Buckeye Fire Department. The submittal shall be required to determine Fire Code Permitting criteria for storage, use, and/or handling of hazardous materials within the City of Buckeye. Any electronic submittal is acceptable as long as the data will import or interface with the software

program currently being used by the Fire Department. Electronic reporting shall be required for all new and existing facilities upon permit renewal.

1. Manufacturer's name.
2. Chemical name, trade names, hazardous ingredients.
3. Hazard classification.
4. MSDS or equivalent.
5. United Nations (UN), North America (NA) or the Chemical Abstract Service identification number.
6. Maximum quantity stored or used on site at one time.
7. Storage conditions related to the storage type, temperature and pressure.

**Section 5505 Use and handling** is hereby amended by adding a new subsection:

**5505.4.4 Trans-filling of liquid oxygen.** In addition to the requirements of this section, when trans-filling of liquefied oxygen is performed inside buildings for respiration purposes, the maximum aggregate quantity of all containers shall be limited to 72 pounds (32.7 kg). Trans-filling shall be on bare concrete floors with no combustible seams. The room shall be separated from the means of egress by one-hour fire barriers. The room shall have ventilation to handle off gassing of the containers. Refer to pamphlet CGA P-2.6, 1995 edition, and NFPA 99 2005 Edition. Trans-filling of Liquid Oxygen to be used for Respiration, for the requirements within health care, residential care, and assisted living facilities.

**Section 5704.2.13.1.4 Tanks abandoned in place** is hereby amended to read as follows:

**5704.2.13.1.4 Tanks abandoned in place.** The abandonment of tanks in place shall be prohibited within the entire City of Buckeye.