

BUILDING CODE NOTICE

Adoption of the 2018 code year editions of the International Code Council construction codes and the 2017 code year edition of the NFPA national electrical code with local amendments.

A copy of the local amendments is attached.

On 04/16/2024, the Bullhead City Council approved adoption of the 2018 code year editions of the International Code Council construction codes and the 2017 code year edition of the NFPA national electrical code with local code amendments.

- **This Ordinance will become effective July 1, 2024.**
- **Beginning July 1, 2024, applications utilizing the 2018 codes and the amendments adopted herein will be accepted. (We already accept projects using the 2018 codes for projects designed by a licensed registrant.)**
- **Applications utilizing the 2006 codes will be accepted only through September 30, 2024.**
- **Beginning October 1, 2024, only applications utilizing the 2018 codes and the amendments adopted herein will be accepted.**
- **Active permits issued under the 2006 code edition are authorized to be completed in accordance with approved plans. If a permit approved under the 2006 code expires, the 2006 code may still apply to that permit as long as the permit does not continue in the expired state for longer than one year.**

ORDINANCE NO. 2024-09, TITLE 15: BUILDINGS and CONSTRUCTION

**15.12 INTERNATIONAL BUILDING CODE, I.C.C., 2018 EDITION
15.14 INTERNATIONAL RESIDENTIAL CODE, I.C.C., 2018 EDITION
15.20 NATIONAL ELECTRICAL CODE, N.F.P.A. 70, 2017 EDITION
15.22 INTERNATIONAL ENERGY CONSERVATION CODE, I.C.C., 2018 EDITION
15.24 INTERNATIONAL FIRE CODE, I.C.C., 2018 EDITION
15.26 INTERNATIONAL EXISTING BUILDING CODE, I.C.C., 2018 EDITION
15.28 INTERNATIONAL MECHANICAL CODE, I.C.C., 2018 EDITION
15.30 INTERNATIONAL SWIMMING POOL AND SPA CODE, I.C.C., 2018 EDITION
15.32 INTERNATIONAL PLUMBING CODE, I.C.C., 2018 EDITION
15.34 INTERNATIONAL FUEL GAS CODE, I.C.C., 2018 EDITION**

I.C.C.	International Code Council
N.F.P.A.	National Fire Protection Association

BUILDING CODE AMENDMENTS 2024

Sections of the published codes not referenced below apply and remain as published. "Published" means the original version of the codes without City amendments. Referenced sections of the codes below are replaced in their entirety unless noted therein as: *(Add)* means addition of text to the published text; *(Delete)* means deletion of the published text in its entirety; *(Remain)* means referenced provisions remain as published; and *(Replace)* means replace a portion of published text only.

TITLE 15 BUILDINGS and CONSTRUCTION

15.12 INTERNATIONAL BUILDING CODE, I.C.C., 2018 EDITION
15.14 INTERNATIONAL RESIDENTIAL CODE, I.C.C., 2018 EDITION
15.20 NATIONAL ELECTRICAL CODE, N.F.P.A. 70, 2017 EDITION
15.22 INTERNATIONAL ENERGY CONSERVATION CODE, I.C.C., 2018 EDITION
15.24 INTERNATIONAL FIRE CODE, I.C.C., 2018 EDITION
15.26 INTERNATIONAL EXISTING BUILDING CODE, I.C.C., 2018 EDITION
15.28 INTERNATIONAL MECHANICAL CODE, I.C.C., 2018 EDITION
15.30 INTERNATIONAL SWIMMING POOL AND SPA CODE, I.C.C., 2018 EDITION
15.32 INTERNATIONAL PLUMBING CODE, I.C.C., 2018 EDITION
15.34 INTERNATIONAL FUEL GAS CODE, I.C.C., 2018 EDITION

I.C.C. International Code Council
N.F.P.A. National Fire Protection Association

Chapter 15.12 BUILDING CODE

15.12.010 International Building Code.

- A. The 2018 Edition of the International Building Code, copyrighted by International Code Council, Inc., shall be adopted including Appendix E, Appendix I, Appendix J, and Appendix K except as revised as follows:

Section 101.1 Title. These regulations shall be known as the Building Code of The City of Bullhead City, hereinafter referred to as "this code."

Section 105.2 Work exempt from permit.

Buildings:

(Remain - items 3, 5, 7, 8, 10 through 13)

1. One-story detached accessory structures, used as tool and storage sheds, gazebos, playhouses and similar uses, provided the floor area does not exceed 120 square feet (11.15 m²) and contains no electrical, mechanical or plumbing systems.
2. Fences not over 6 feet (1829 mm) in height located outside of the Zoning setback areas.

4. Retaining walls that are located outside of the Zoning setback areas when not over 4 feet (1219 mm) in height measured from the bottom of the footing to the top of the wall, unless supporting a surcharge or impounding Class I, II or IIIA liquids.

6. Sidewalks and driveways not more than 30 inches (762 mm) above adjacent grade, and not over any basement or story below and are not part of an accessible route. (Does not include portions within the City right-of-way.)

9. Prefabricated swimming pools accessory to a Group R-3 occupancy that contain water less than 18 inches (458 mm) in depth and are less than 8 feet (2438 mm) in width at any point, whether below ground or above ground. (Reference A.R.S. § 36-681)

Section 107.1 General.

(Add) Section 107.1.1 Documents prepared by a registered design professional. Not less than one set shall bear an original seal and signature of the registered design professional. An electronic signature, as an option to a permanently legible signature, in accordance with AZ Board of Technical Registration R4-30-304(G), is acceptable for all professional documents.

Section 109.2 Schedule of permit fees. On buildings, structures, electrical, gas, mechanical, and plumbing systems or alterations requiring a permit, a fee for each permit shall be paid as required, in accordance with the most current City of Bullhead City Comprehensive Fee Schedule.

Section 109.6 Refunds. The Building Official may authorize refunding of:

1. The full amount of any fee paid hereunder that was erroneously paid or collected.
2. Not more than fifty percent of the permit fee paid when no work has been done under a permit issued in accordance with this code.
3. Not more than fifty 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 review is done.
4. Not authorize refunding of any fee paid except on written application filed by the original permittee not later than 180 days after the date of payment.

Section 110.3.8 Energy efficiency inspections. Inspections shall be made to determine compliance with the approved plans.

Section 502.1 Address identification.

(Add) Section 502.1.1 Address identification for commercial buildings and multi-family dwelling buildings. Each character shall be a minimum of 6 inches (102 mm) high with a minimum stroke width of ½ inch (12.7 mm).

(Add) Section 502.1.2 Address identification locations. Numbers are to be on the building and by another approved means if the building can not be seen from the public way.

Section 903.2.8.1 Group R-3. An automatic residential fire sprinkler system may be installed in one- and two-family dwellings. An automatic sprinkler system installed in accordance with Section 903.3.1.3 shall be permitted in Group R-3 occupancies. (Reference A.R.S. § 9-807)

Section 906.1 Where required.

Exceptions:

1. In Group R-2 occupancies, portable fire extinguishers shall be required only in locations specified in list items 2 through 6 where each dwelling unit is provided with a portable fire extinguisher having a minimum rating of 3-A:10-B:C.

Section 1102.1 Design. Buildings and facilities shall be designed and constructed to the most restrictive provisions of this chapter, ICC A117.1 or Title 41, Chapter 9, Article 8, of the Arizona Revised Statutes (Arizonans with Disabilities Act).

Section 1202.1 General. Buildings shall be provided with natural ventilation in accordance with Section 1202.5, or mechanical ventilation in accordance with the International Mechanical Code. Where the air infiltration rate in a dwelling unit is less than 5 air changes per hour where tested with a blower door at a pressure 0.2 inch w.c. (50 Pa) in accordance with Section R402.4.1.2 of the International Energy Conservation Code—Residential Provisions, the dwelling unit may be ventilated by mechanical means in accordance with Section 403 of the International Mechanical Code. Ambulatory care facilities and Group I-2 occupancies shall be ventilated by mechanical means in accordance with Section 407 of the International Mechanical Code.

Section 1301.1.1 Criteria. All occupancy classifications may be designed and constructed in accordance with the 2018 International Energy Conservation Code. Buildings classified as an "R" occupancy shall be designed and constructed in accordance with the 2018 International Energy Conservation Code residential provisions or Chapter 11 of the 2018 International Residential Code for One- and Two-Family Dwellings, as amended in the City code.

Figure 1608.2 Ground Snow Loads:

(Add) Declared value 0.

Figure 1609.3(1) Basic Design Wind Speeds, V, For Risk Category II Buildings and Other Structures:

(Add) Declared value 100 mph.

Figure 1609.3(2) Basic Design Wind Speeds, V, For Risk Category III Buildings and Other Structures:

(Add) Declared value 105 mph.

Figure 1609.3(3) Basic Design Wind Speeds, V, For Risk Category IV Buildings and Other Structures:

(Add) Declared value 110 mph.

Figure 1609.3(4) Basic Design Wind Speeds, V, For Risk Category I Buildings and Other Structures:

(Add) Declared value 95 mph.

Figure 1611.1 100-Year, 1-Hour Rainfall (inches) Western United States:

(Add) Declared value 2 inches (50.8 mm) per hour.

Section 1612.3 Establishment of flood hazard areas. To establish flood hazard areas, the governing body shall adopt a flood hazard map and supporting data. The flood hazard map shall

include, at a minimum, areas of special flood hazard as identified by the Federal Emergency Management Agency in an engineering report entitled "The Flood Insurance Study of The City of Bullhead City," dated as the most current map available, as amended or revised with the accompanying Flood Insurance Rate Map (FIRM) and Flood Boundary and Floodway Map (FBFM) and related supporting data along with any revisions thereto. The adopted flood hazard map and supporting data are hereby adopted by reference and declared to be part of this section along with Chapter 15.36 Floodplain Regulations of the City code.

1613.1 Scope:

(Add) Seismic Design Category declared value B (Reference 2018 IRC, Figure R301.2(2)).

Section J102 Definitions.

(Add) ENGINEERED GRADING. Grading quantities of 3,000 cubic yards or more. Plans shall be prepared by a qualified, licensed Arizona registrant.

(Add) REGULAR GRADING. Grading quantities less than 3,000 cubic yards unless the Building Official determines that special conditions or unusual hazards exist, in which case grading shall conform to the requirements for engineered grading.

Section J103.2 Exemptions. A grading permit shall not be required for the following:

(Remain - items 2 through 7 and Exemption)

1. Grading less than 50 cubic yards and less than 12 inches of fill in a self-contained area, provided there is no danger to the public, and that such grading will not adversely affect adjoining properties.

Section J104.1 Submittal requirements. In addition to the provisions of Section 105.3, the applicant shall state the estimated quantities of excavation and fill. The project is to meet the requirements of Chapter 15.40 Grading and Dust Control of the City code.

Chapter 15.14 RESIDENTIAL CODE

15.14.010 International Residential Code.

- A. The 2018 Edition of the International Residential Code, copyrighted by International Code Council, Inc., shall be adopted including Appendix A, Appendix B, Appendix C, Appendix G, Appendix H, Appendix J, Appendix K, Appendix M, Appendix N, Appendix O and Appendix P, except as revised as follows:

Section R101.1 Title. These regulations shall be known as the Residential Code for One- and Two-family Dwellings of The City of Bullhead City and shall be cited as such and will be referred to herein as "this code."

Section R105.2 Work exempt from permit.

Building:

(Remain - items 4, 6, 8 and 9)

1. One-story detached accessory structures, used as tool and storage sheds, gazebos, playhouses and similar uses, provided the floor area does not exceed 120 square feet (11.15 m²) and contains no electrical, mechanical or plumbing systems.

2. Fences not over 6 feet (1829 mm) in height located outside of the Zoning setback areas
3. Retaining walls that are located outside of the Zoning setback areas when not over 4 feet (1219 mm) in height measured from the bottom of the footing to the top of the wall, unless supporting a surcharge.
5. Sidewalks and driveways. (Does not include portions within the City right-of-way.)
7. Prefabricated swimming pools that contain water less than 18 inches (458 mm) in depth and are less than 8 feet (2438 mm) in width at any point, whether below ground or above ground. (Reference A.R.S. § 36-681)
10. Decks that are not more than 30 inches (762 mm) above grade at any point 36 inches (914 mm) horizontal from the outside edge of the deck, are self-supporting and are not supporting a roof.

Section R106.1 Submittal documents.

(Add) Documents prepared by a registered design professional. Not less than one set shall bear an original seal and signature of the registered design professional. An electronic signature, as an option to a permanently legible signature, in accordance with AZ Board of Technical Registration R4-30-304(G), is acceptable for all professional documents.

Section R108.2 Schedule of permit fees. The fee policy is established in City Chapter 15.12.010, Section 109.2 Schedule of permit fees.

Section R108.5 Refunds. The refund policy is established in City Chapter 15.12.010, Section 109.6 Refunds.

Section R112 Board of appeals. The board of appeals policy is established in Section 113 of the 2018 International Building Code.

Section R113 Violations. The violations policy is established in Section 114 of the 2018 International Building Code.

Section R114 Stop work orders. The stop work order policy is established in Section 115 of the 2018 International Building Code.

Table R301.2(1) Climatic and Geographic Criteria.

Ground Snow Load: Table R301.2(6)	0
Ultimate Design Wind Speed:	115
Basic Design Wind Speed:	90
Tables R301.2(5)A, R301.2(5)B	Exposure C
Topographic Effects:	No
Special Wind Region:	No
Windborne Debris Zone:	No
Climate Zone: IECC	3B Hot-Dry
Seismic Design Category: NEHRP map	B
Weathering: Figure R301.2(4)	Negligible
Frost Line:	0
Termite:	Moderate to heavy
Winter Design Temp: IPC Appendix D	39
Ice Shield Under-layment Required:	No

Flood Hazards:	City municipal code Chapter 15.36 Floodplain Regulations
Air Freezing Index: NCDC Air Freezing Index-USA	NA
Mean Annual Temp:	70
Manual J Design:	Optional
Rainfall, 1-Hour (100 year)	2" per hour

(See table footnotes in IRC code book.)

Section R301.2.2.6 Irregular buildings.

2. Lateral support of roofs and floors.

Exception:

(Add) 1. Portions of floors that do not support shear walls, braced wall panels above, or roofs shall be permitted to extend not more than 6 feet (1829 mm) beyond a shear wall or braced wall line.

(Add) 2. For open sided patio covers, portions of trussed roofs that extend a maximum of 12' (3658 mm) beyond a shear wall or braced wall line may use the PFH portal frame with hold-downs method per Figure R602.10.6.2 or provide structural design by an Arizona licensed registrant.

Table R302.1(1) Exterior Walls.

EXTERIOR WALL ELEMENT		MINIMUM FIRE- RESISTANCE RATING	MINIMUM FIRE SEPARATION DISTANCE
Walls	Fire-resistance rated	1 hour assembly with exposure from both sides	0 feet
	Not fire-resistance rated	0 hours	≥ 3 feet
Projections	Not allowed	NA	< 2 feet
	Fire-resistance rated	1 hour on the underside, heavy timber or fire retardant-treated wood.	≥ 2 feet to < 3 feet
	Not fire-resistance rated	0 hours	≥ 3 feet
Openings in walls	Not allowed	NA	< 3 feet
	Unlimited	0 hours	3 feet
Penetrations	All	Comply with Section R302.4	< 3 feet
		None required	3 feet

(See table footnotes in IRC code book.)

Section R303.4 Mechanical ventilation. A dwelling unit may be provided with whole-house mechanical ventilation in accordance with Section M1505.4.

Section R313.2 One-and two-family dwellings automatic fire sprinkler systems. An automatic residential fire sprinkler system may be installed in one- and two-family dwellings. (Reference A.R.S. § 9-807)

Section R322.1 General.

(Add) 1. The adopted flood hazard map and supporting data are hereby adopted by reference and declared to be part of this section along with Chapter 15.36 Floodplain Regulations of the City code and Section 1612.3 of the International Building Code as amended.

Section R404.4 Retaining walls.

Retaining walls shall be constructed per the City of Bullhead City's standard retaining wall details or shall be designed by an Arizona licensed registrant.

Section N1101.1 Scope. This chapter regulates the energy efficiency for the design and construction of buildings regulated by this code and all "R" occupancy buildings regulated by the International Building Code. Three options are provided; the option to be used is to be declared when construction documents are submitted for review.

(Add) Option 1. Buildings may be designed in accordance with the 2018 International Energy Conservation Code, IECC-Residential Provisions as published; or

(Add) Option 2. Buildings may be designed in accordance with Chapter 11 Energy Efficiency of this code as published; or

(Add) Option 3. Building may be designed in accordance with Chapter 11 Energy Efficiency of this code as amended.

Section N1101.5 (R103.2) Information on construction documents.

(Delete - items 3 through 8)

Chapter 11 Energy Efficiency.

(Replace "Mandatory" with "Optional" in listed sections N1101.14 through N1104.1)

Section N1101.14 (R401.3) Energy efficiency certificate (Optional).

Section N1102.4 (R402.4) Air leakage (Optional).

Section N1103.3.3 (R403.3.3) Duct testing (Optional).

Section N1103.5.1 (R403.5.1) Heated water circulation and temperature maintenance systems (Optional).

Section N1103.6 (R403.6) Mechanical ventilation (Optional).

Section N1103.7 (R403.7) Equipment sizing and efficiency rating (Optional).

Section N1103.10 (R403.10) Pools and permanent spa energy consumption (Optional).

Section N1103.11 (R403.11) Portable spas (Optional).

Section N1103.12 (R403.12) Residential pools and permanent residential spas (Optional).

Section N1104.1 (R404.1) Lighting equipment (Optional).

Section N1104.1.1 (R404.1.1) Lighting equipment (Optional).

Figure N1101.7 Climate Zones.

(Add) US States, Arizona, Mohave County, Declared climate zone is 3-Dry(B).

Table N1102.1.2 Insulation and Fenestration Requirements by Components.

COMPONENT <small>R-values are <u>minimums</u>. U-factors and SHGC are <u>maximums</u>.</small>	VALUE REQ'D
Climate Zone	3
Fenestration, U-factor ^b	0.32
Skylight, U-factor ^b	0.55
Glazed Fenestration, SHGC ^{b,e}	0.25
Ceiling, R-value	38
Wood Frame Wall, R-value	20 or 13+5
Mass Wall, R-value ^f	8/13
Floor, R-value	19
Basement Wall, R-value ^c	5/13
Slab, R-value and Depth ^d	0
Crawl Space Wall, R-value ^c	5/13
Supply and Return Ducts, R-value	8
Ducts in Floor Trusses, R-value	6

(See table footnotes in IRC code book.)

Table N1102.1.4 Equivalent U-Factors. Declared climate zone is 3.

Section M1307.3 Elevation of ignition source.

Exemption:

(Add) Domestic clothes dryers shall be exempt from this requirement.

(Delete) **Section M1411.8 Locking access port caps.**

Section M2003.1 General.

(Add) Expansion tanks are required for all new construction water heater installations. Expansion tanks are not required for replacement water heater units when an expansion tank was not part of the original installation.

Section G2415.3 (R404.3) Prohibited locations.

(Add) Section G2415.3.1 Gas piping in accessory structures. Gas piping systems shall only be installed in structures with permanent foundations. Auger type tie-downs or similar devices shall not be considered permanent foundations.

Section P2503.5.1 Rough plumbing.

1. Water test. Each section shall be filled with water to a point not less than 10 feet (3048 mm) above the highest fitting connection in that section, or to the highest point in the completed system. Water shall be held in the section under test for a period of 15 minutes. The system shall prove leak free by visual inspection.

Section P2601 General.

(Add) Section P2601.4 Plumbing systems in accessory structures. Plumbing systems shall only be installed in structures with permanent foundations. Auger type tie-downs or similar devices shall not be considered permanent foundations.

Section P2603.5.1 Sewer depth. Building sewers that connect to private sewage disposal systems shall be regulated by the Mohave County Department of Public Health, Environmental Health Division. Building sewers shall be a minimum of 12 inches (304.8 mm) below grade.

Section P2906.7 Flexible water connectors. Flexible water connectors, exposed to continuous pressure, shall conform to ASME A112.18.6. Access shall be provided to all flexible water connectors. Flexible water connectors used must have metallic fittings when used to supply water to water closets, faucets, or ice makers.

Section E3401.1 Applicability.

(Add) Section E3401.1.1 Services above 400 amperes. Electrical plans submitted for services above 400 amperes shall be submitted and sealed by an Arizona licensed registrant. A qualified AZ Registrar of Contractors licensed contractor is required for services above 400 amperes.

Section E3601.1 Scope.

(Add) Section E3601.1.1 Electrical systems in accessory structures: Electrical systems shall only be installed in structures with permanent foundations. Auger type tie-downs or similar devices shall not be considered permanent foundations.

Section E3604.2.1 Above roofs.

(Add) Per the local electric utility provider conductors shall not be located over roofs. If utility provider permission is obtained in writing the installation is to meet the requirements of this section.

Section E3608.1 Grounding electrode system.

(Add) Two means of grounding are required. The primary grounding electrode shall be an 8 foot (2438 mm) long by 5/8 inch (15.88 mm) diameter driven rod. All supplemental grounding systems are open to any type allowed by the IRC or NEC.

Section E3902.2 Garage and accessory building receptacles.

(Add) Exception: The required GFCI outlet installed in the ceiling for the garage door opener may be replaced with a single outlet device.

Section E3902.9 Laundry areas.

(Add) Exception: The washer/dryer electrical outlet may be non-GFCI protected if the outlet is not readily accessible, and the outlet is no higher than 32 inches from the finished floor.

Section E3902.10 Kitchen dishwasher branch circuit.

(Add) Exception: The kitchen dishwasher electrical outlet may be non-GFCI protected.

Section E3902.16 Arc-fault circuit-interrupter protection. Branch circuits that supply 120-volt, single-phase, 15- and 20-ampere outlets installed in bedrooms shall be protected by any of the following: *(Remain - items 1 through 6 and Exemption)*

Chapter 15.20 ELECTRICAL CODE

15.20.020 National Electrical Code.

- A. The 2017 Edition of the National Electrical Code, copyrighted by International Code Council, Inc., shall be adopted, except as revised as follows:

Article 90 Introduction

(Add) Section 90.10 Administration.

(Add) Section 90.10.1 Schedule of permit fees. The fee policy is established in City Chapter 15.12.010, Section 109.2 Schedule of permit fees.

(Add) Section 90.10.2 Refunds. The fee refund policy is established in City Chapter 15.12.010, Section 109.6 Refunds.

(Add) Section 90.10.3 Board of Appeals. The board of appeals policy is established in Section 113 of the 2018 International Building Code.

(Add) Section 90.10.4 Violations. The violations policy is established in Section 114 of the 2018 International Building Code.

(Add) Section 90.10.5 Stop Work Orders. The stop work order policy is established in Section 115 of the 2018 International Building Code.

Section 110.1 Scope.

(Add) Section 110.1.1 Services above 400 amperes. Electrical plans submitted for services above 400 amperes shall be submitted and sealed by an Arizona licensed registrant. A qualified AZ Registrar of Contractors licensed contractor is required for services above 400 amperes.

Section 210.12 Arc-Fault Circuit-Interrupter Protection

(A) Dwelling Units. All 120-volt, single-phase, 15- and 20-ampere outlets or devices installed in bedrooms shall be protected by any of the means described in 210.12(A)(1) through (6):

(D) Branch Circuit Extensions or Modifications – Dwelling Units and Dormitory Units. In any of the areas specified in 210.12(A) or (B), where branch-circuit wiring is modified, replaced, or extended, the branch circuit may be protected by one of the following: *(Remain – items 1 and 2)*

Section 230.70 General.

(Add) (D) Shunt Trip Devices.

(1) Location. The shunt trip may be located in a central control station in a high-rise building, mall or atrium when approved by the fire department.

(2) Supply. The branch circuit supplying power for the shunt trip device shall be connected to the supply side of the main service disconnecting means and be a maximum conductor size of No. 12 AWG copper.

(3) Marking. Where a shunt trip station is installed outside the building or structure served, the station shall be a 1-foot (0.093 sq m.) square, colored yellow and have black lettering 1 inch (25.4 mm) high with a ¼ inch (6.35 mm) stroke describing it as the "Main Electrical Disconnect" in accordance with building department requirements.

(4) Enclosure. The shunt trip device shall be located inside an approved metal enclosure and shall have a hinged cover that can be locked from the exterior by means of an exposed shaft-type locking device. The shaft of the locking device shall be no larger than 5/16inch (7.94 mm) in diameter.

(5) Type. The shunt trip device shall be a momentary contact type switch.

Section 250.50 Grounding Electrode System.

(Add) Two means of grounding are required. The primary grounding electrode shall be an 8 foot (2438 mm) long by 5/8 inch (15.88 mm) diameter driven rod. All supplemental grounding systems are open to any type allowed by the NEC.

Section 406.12 Tamper-Resistant Receptacles.

(1) May be provided in One- and Two-Family dwelling units. Shall be provided in all other dwelling units in all areas specified in 210.52 and 550.13.

Chapter 15.22 ENERGY CONSERVATION CODE

15.22.010 International Energy Conservation Code.

- A. The 2018 Edition of the International Energy Conservation Code, copyrighted by International Code Council, Inc., shall be adopted including all appendices, except as revised as follows:

COMMERCIAL

Section C101.1 Title. These regulations shall be known as the Energy Conservation Code of The City of Bullhead City, hereinafter referred to as "this code."

Section C101.5 Compliance. All occupancy classifications may be designed and constructed in accordance with the 2018 International Energy Conservation Code. Buildings classified as an "R" occupancy shall be designed and constructed in accordance with the 2018 International Energy Conservation Code residential provisions, or Chapter 11 of the 2018 International Residential Code for One- and Two-family Dwellings, as amended in City Chapter 15.14 International Residential Code.

Section C103.1 General.

(Add) Section C103.1.1 Documents prepared by a registered design professional. Not less than one set shall bear an original seal and signature of the registered design professional. An electronic signature, as an option to a permanently legible signature, in accordance with AZ Board of Technical Registration R4-30-304(G), is acceptable for all professional documents.

Section C104.2 Schedule of permit fees. The fee policy is established in City Chapter 15.12.010, Section 109.2 Schedule of permit fees.

Section C104.5 Refunds. The refund policy is established in City Chapter 15.12.010, Section 109.6 Refunds.

Section C108 Stop work orders. The stop work order policy is established in Section 115 of the 2018 International Building Code.

Section C109 Board of appeals. The board of appeals policy is established in Section 113 of the 2018 International Building Code.

(Add) Section C110 Violations. The violations policy is established in Section 114 of the 2018 International Building Code.

RESIDENTIAL

Section R101.1 Title. These regulations shall be known as the Energy Conservation Code of The City of Bullhead City, hereinafter referred to as "this code."

Section R101.5 Compliance. Buildings classified as an "R" occupancy shall be designed and constructed in accordance with the 2018 International Energy Conservation Code residential provisions, or Chapter 11 of the 2018 International Residential Code for One- and Two-family Dwellings, as amended in City Chapter 15.14 International Residential Code.

Section R103.1 General.

(Add) Section R103.1.1 Documents prepared by a registered design professional. Not less than one set shall bear an original seal and signature of the registered design professional. An electronic signature, as an option to a permanently legible signature, in accordance with AZ Board of Technical Registration R4-30-304(G), is acceptable for all professional documents.

Section R104.2 Schedule of permit fees. The fee policy is established in City Chapter 15.12.010, Section 109.2 Schedule of permit fees.

Section R104.5 Refunds. The refund policy is established in City Chapter 15.12.010, Section 109.6 Refunds.

Section R108 Stop work order. The stop work order policy is established in Section 115 of the 2018 International Building Code, as amended.

Section R109 Board of appeals. The board of appeals policy is established in Section 113 of the 2018 International Building Code, as amended.

(Add) Section R110 Violations. The violations policy is established in Section 114 of the 2018 International Building Code, as amended.

Chapter 15.24 FIRE CODE

15.24.010 International Fire Code.

(Arizona Office of the State Fire Marshal has adopted the IFC 2018 and supporting NFPA standards as the State Fire Code.)

- A. The 2018 Edition of the International Fire Code, copyrighted by International Code Council, Inc., is adopted, with Appendix B, Appendix C, Appendix D, Appendix E, Appendix F, Appendix G, Appendix H, Appendix I, Appendix J, Appendix K and Appendix N except as revised as follows:

Section 101.1 Title. These regulations shall be known as the Fire Code of The City of Bullhead City, hereinafter referred to as "this code".

Section 105.4.1 Submittals.

(Add) Section 105.4.1.2 Documents prepared by a registered design professional. Not less than one set shall bear an original seal and signature of the registered design professional. An electronic signature, as an option to a permanently legible signature, in accordance with AZ Board of Technical Registration R4-30-304(G), is acceptable for all professional documents.

Section 106.2 Schedule of permit fees. The fee policy is established in City Chapter 15.12.010, Section 109.2 Schedule of permit fees.

Section 106.5 Refunds. The refund policy is established in City Chapter 15.12.010, Section 109.6 Refunds.

Section 109 Board of appeals. The board of appeals policy is established in Section 113 of the 2018 International Building Code.

Section 110 Violations. The violations policy is established in Section 114 of the 2018 International Building Code.

Section 112 Stop work orders. The stop work order policy is established in Section 115 of the 2018 International Building Code.

Section 903.2.8.1 Group R-3. An automatic residential fire sprinkler system may be installed in one- and two-family dwellings. An automatic sprinkler system installed in accordance with Section 903.3.1.3 shall be permitted in Group R-3 occupancies. (Reference A.R.S. § 9-807)

Section 906.1 Where required. Exception 1. In Group R-2 occupancies, portable fire extinguishers shall be required only in locations specified in list items 2 through 6 where each dwelling unit is provided with a portable fire extinguisher having a minimum rating of 3-A:10-B:C.

Appendix Chapter B

Section B103.1 Decreases.

The fire chief is authorized to reduce the fire-flow requirements for isolated buildings or a group of buildings in rural areas or small communities where the development of full fire-flow requirements is impractical. The Chief in communication with the Building Official will consider "rural areas" to be an existing subdivision approved without public water supply infrastructure. "Isolated buildings or group of buildings" are single family detached dwellings and any associated Group U occupancy accessory structures. "Impractical" will be determined by considering all relevant factors, including, but not limited to, the location in relation to existing waterlines of a public water utility.

Section B105.1 One- and two-family dwellings, group R-3 and R-4 buildings and townhouses.

(Add) Exceptions:

A. The minimum fire-flow requirements for single family detached dwellings having a fire-flow calculation area which does not exceed 3,600 square feet (344.5 m²) shall be 1,000 gallons per minute (3785.4 l/min). fire-flow and flow duration for single family detached dwellings having a fire-flow calculation area in excess of 3,600 square feet (344.5 m²) shall not be less than that specified in Table B105.1.

Exception: A reduction in required fire flow of 100 percent, as approved, is allowed when the building is located in a rural area, as defined in 15.24.010, and provided with an approved automatic sprinkler system as prescribed by NFPA 13D.

B. A reduction of required fire flow may be approved by the Bullhead City fire district chief for permits requested for Group U occupancy enclosed accessory structures in subdivisions recorded prior to July 1, 2003, conditioned upon property owners requesting a modification shall be required to sign an acknowledgement, waiver and release in the form of a recordable document that will be provided by the building official.

Chapter 15.26 EXISTING BUILDING CODE
15.26.010 International Existing Building Code.

- A. The 2018 Edition of the International Existing Building Code, copyrighted by International Code Council, Inc., is adopted, with Appendix B, except as revised as follows:

Section 101.1 Title. These regulations shall be known as the Existing Building Code of The City of Bullhead City, hereinafter referred to as "this code."

Section 106.1 General.

(Add) Section 106.1.1 Documents prepared by a registered design professional. Not less than one set shall bear an original seal and signature of the registered design professional. An electronic signature, as an option to a permanently legible signature, in accordance with AZ Board of Technical Registration R4-30-304(G), is acceptable for all professional documents.

Section 108.2 Schedule of permit fees. The fee policy is established in City Chapter 15.12.010, Section 109.2 Schedule of permit fees.

Section 108.6 Refunds. The refund policy is established in City Chapter 15.12.010, Section 109.6 Refunds.

Section 112 Board of appeals. The board of appeals policy is established in Section 113 of the 2018 International Building Code.

Section 113 Violations. The violations policy is established in Section 114 of the 2018 International Building Code.

Section 114 Stop work orders. The stop work order policy is established in Section 115 of the 2018 International Building Code.

Chapter 15.28 MECHANICAL CODE
15.28.010 International Mechanical Code.

- A. The 2018 Edition of the International Mechanical Code, copyrighted by International Code Council, Inc., shall be adopted, including Appendix A except as revised as follows:

Section 101.1 Title. These regulations shall be known as the Mechanical Code of The City of Bullhead City, hereinafter referred to as "this code".

Section 106.3.1 Construction documents.

(Add) Section 106.3.1.1 Documents prepared by a registered design professional. Not less than one set shall bear an original seal and signature of the registered design professional. An electronic signature, as an option to a permanently legible signature, in accordance with AZ Board of Technical Registration R4-30-304(G), is acceptable for all professional documents.

Section 106.5.2 Fee schedule. The fee policy is established in City Chapter 15.12.010, Section 109.2 Schedule of permit fees.

Section 106.5.3 Fee refunds. The refund policy is established in City Chapter 15.12.010, Section 109.6 Refunds.

Section 108.4 Violation penalties. The violations policy is established in Section 114 of the 2018 International Building Code.

Section 108.5 Stop work orders. The stop work order policy is established in Section 115 of the 2018 International Building Code.

Section 109 Means of appeal. The appeal policy is established in Section 113 of the 2018 International Building Code.

Section 304.3 Elevation of ignition source.

Exception:

1. Within private garages, in conjunction with dwelling units, clothes dryers are exempt from this requirement.

2. Elevation of the ignition source is not required for appliances that are listed as flammable vapor ignition resistant.

Section 601.2 Air movement in egress elements.

Exceptions:

3. Where located within tenant spaces of 1,500 square feet or less in area, utilization of corridors for conveying return air is permitted.

(Delete) **Section 1101.10 Locking access port caps.**

Chapter 15.30 SWIMMING POOL AND SPA CODE

15.30.010 International Swimming Pool and Spa Code.

- A. The 2018 Edition of the International Swimming Pool and Spa Code, copyrighted by International Code Council, Inc., shall be adopted, except as revised as follows:

Section 101.1 Title. These regulations shall be known as the Swimming Pool and Spa Code of The City of Bullhead City hereinafter referred to as “this code”.

Section 105.1 When required.

(Add) Section 105.1.1 ADEQ approval. Public swimming pools, spas and other aquatic recreation features are subject to additional permitting requirements of the Arizona Department of Environmental Quality (ADEQ). ADEQ requirements supersede this code.

Section 105.3 Construction documents.

(Add) 105.3.1 Documents prepared by a registered design professional. Not less than one set shall bear an original seal and signature of the registered design professional. An electronic signature, as an option to a permanently legible signature, in accordance with AZ Board of Technical Registration R4-30-304(G), is acceptable for all professional documents.

Section 105.6.2 Fee schedule. The fee policy is established in City Chapter 15.12.010, Section 109.2 Schedule of permit fees.

Section 105.6.3 Fee refunds. The refund policy is established in City Chapter 15.12.010, Section 109.6 Refunds.

Section 107 Violations. The violations policy is established in Section 114 of the 2018 International Building Code.

Section 107.5 Stop work orders. The stop work order policy is established in Section 115 of the 2018 International Building Code.

Section 108 Board of appeals. The board of appeals policy is established in Section 113 of the 2018 International Building Code.

(Delete) **Section 303 Energy.**

Section 305 Barrier Requirements.

Section 305.1 General. The provisions of this section shall apply to the design of barriers for restricting entry into areas having pools and spas whether belowground or aboveground. Where spas or hot tubs are equipped with a lockable safety cover complying with ASTM F1346 and swimming pools are protected by a motorized safety pool cover that complies with ASTM F1346 that requires the operation of a key switch which meets the ASTM emergency standards 13-89 and which does not require manual operation other than the use of the key switch, the areas where those spas, hot tubs or pools are located shall not be required to comply with amended Sections 305.2 through 305.5.

305.2 Outdoor swimming pools and spas. Outdoor pools and spas and indoor pools and spas shall be surrounded by a barrier that complies with Sections 305.2.1 through 305.5

Commercial and Multi-Family Locations: An interior barrier fence between the buildings and the pool / spa is required.

Single Family Residential Locations: Where the barrier requirements of sections 305.2.1 through 305.5 can not be achieved an inner barrier fence around the entire pool / spa is required.

Section 305.2.1 Barrier height and clearances.

1. The top of the barrier shall be not less than 60 inches (1524 mm) above grade where measured on the side of the barrier that faces away from the pool or spa. Such height shall exist around the entire perimeter of the barrier and for a distance of 48 inches (1219.2 mm) of the barrier and for a distance of 48 inches (1219.2 mm) measured horizontally from the outside of the required barrier from any natural or man-made object that would effectively reduce the 60 inch (1524 mm) non-climbable height of the barrier.

(Remain - items 2, 3 and 4)

Section 305.3.2 Double or multiple gates. Double gates or multiple gates shall have no fewer than one leaf secured in place, and the adjacent leaf shall be secured with a self-latching device. The gate and barrier shall not have openings larger than ½ inch (12.7 mm) within 24 inches (609.6 mm) of the latch release mechanism. The self-latching device shall comply with the requirements of Section 305.3.3. Gates shall remain locked when not in use.

Section 305.3.3 Latches. Where the release mechanism of the self-latching device is located less than 54 inches (1372 mm) from grade, the release mechanism shall be located on the pool or spa side of the gate not less than 5 inches (127 mm) below the top of the gate, and the gate and barrier shall not have openings greater than ½ inch (12.7 mm) within 24 inches (609.6 mm) of the release mechanism.

Section 305.4 Structure wall as a barrier.

(Remain - items 1, 2 and 3)

(Add) 4. All ground level doors or other doors with direct access to the swimming pool or other contained body of water shall be equipped with a self-latching device that meets the

requirements of 305.3.3 amended. Emergency escape or rescue windows from sleeping rooms with access to the swimming pool or other contained body of water shall be equipped with a latching device not less than 54 inches (1372 mm) above the floor. All other openable dwelling unit or guest room windows with similar access shall be equipped with a screwed in place wire mesh screen, or a keyed lock that prevents opening the window more than 4 inches (102 mm), or a latching device located not less than 54 inches (1372 mm) above the floor. (Reference A.R.S. § 36-68)

(Add) 5. Between the swimming pool or other contained body of water and the residence or living area, a minimum four foot (1219.2 mm) wall, fence or barrier to the pool area which meets all of the requirements of amended Sections 305.2 through 305.3.

(Delete) Section 305.6 Natural barriers.

(Delete) Section 305.7 Natural topography.

Chapter 15.32 PLUMBING CODE

15.32.010 International Plumbing Code.

- A. The 2018 Edition of the International Plumbing Code, copyrighted by International Code Council, Inc., shall be adopted including Appendix B, Appendix C, Appendix D and Appendix E, except as revised as follows:

Section 101.1 Title. These regulations shall be known as the Plumbing Code of The City of Bullhead City hereinafter referred to as "this code".

Section 106.3.1 Construction documents.

(Add) Section 106.3.1.1. Documents prepared by a registered design professional. Not less than one set shall bear an original seal and signature of the registered design professional. An electronic signature, as an option to a permanently legible signature, in accordance with AZ Board of Technical Registration R4-30-304(G), is acceptable for all professional documents.

Section 106.6.2 Fee schedule. The fee policy is established in City Chapter 15.12.010, Section 109.2 Schedule of permit fees.

Section 106.6.3 Fee refunds. The refund policy is established in City Chapter 15.12.010, Section 109.6 Refunds.

Section 108.4 Violation penalties. The violations policy is established in Section 114 of the 2018 International Building Code.

Section 108.5 Stop work orders. The stop work order policy is established in Section 115 of the 2018 International Building Code.

Section 109 Means of appeal. The board of appeals policy is established in Section 113 of the 2018 International Building Code.

Section 305.4.1 Sewer depth. Building sewers that connect to private sewage disposal systems shall be regulated by the Mohave County Department of Public Health, Environmental Health Division. Building sewers shall be a minimum of 12 inches below grade.

Section 605.6 Flexible water connectors. Flexible water connectors exposed to continuous pressure shall conform to ASME A112.17.6. Flexible water connectors used must have metallic

fittings when used to supply water to water closets, faucets, or ice makers. Access shall be provided to all flexible water connectors.

Section 802.1.1 Food handling. Equipment and fixtures utilized for the storage, preparation and handling of food including any three compartment sinks shall discharge through an indirect waste pipe by means of an air gap.

Section 903.1 Roof extension. Open vent pipes that extend through a roof shall be terminated not less than 12 inches (304.8 mm) above the roof. Where a roof is to be used for assembly or as a promenade, observation deck, sunbathing deck or similar purposes, open vent pipes shall terminate not less than 7 feet (2134 mm) above the roof.

Chapter 15.34 FUEL GAS CODE

15.34.010 International Fuel Gas Code.

- A. The 2018 Edition of the International Fuel Gas Code, copyrighted by International Code Council, Inc., with Appendix B and Appendix C shall be adopted, except as revised as follows:

Section 101.1 Title. These regulations shall be known as the Fuel Gas Code of The City of Bullhead City, hereinafter referred to as ‘this code’.

Section 106.3.1 Construction documents.

(Add) Section 106.3.1.1. Documents prepared by a registered design professional. Not less than one set shall bear an original seal and signature of the registered design professional. An electronic signature, as an option to a permanently legible signature, in accordance with AZ Board of Technical Registration R4-30-304(G), is acceptable for all professional documents.

Section 106.6.2 Fee schedule. The fee policy is established in City Chapter 15.12.010, Section 109.2 Schedule of permit fees.

Section 106.6.3 Fee refunds. The refund policy is established in City Chapter 15.12.010, Section 109.6 Refunds.

Section 108.4 Violation penalties. The violations policy is established in Section 114 of the 2018 International Building Code.

Section 108.5 Stop work orders. The stop work order policy is established in Section 115 of the 2018 International Building Code.

Section 109 Board of appeals. The board of appeals policy is established in Section 113 of the 2018 International Building Code.