Amended Report to the Building Code Advisory Board

Prepared by the Maricopa County Planning and Development Department

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Cases:	TA2013001 – 2012 International Codes
Meeting Date:	April 30, 2013
Agenda Item:	1
Supervisor District:	All
Applicant:	Staff
Request:	Initiate and Consider a Recommendation for a Text Amendment to the Maricopa County Local Additions & Addenda to adopt construction safety codes as amended
Support/Opposition:	No known opposition. One letter of support. One general comment letter.
Recommendation:	**Recommend Approval**

Discussion:

A text amendment to the Maricopa County Local Additions & Addenda (adopted construction safety codes) to adopt and amend the following:

- 2012 International Building Code
- 2012 International Residential Code
- 2012 International Plumbing Code
- 2012 International Mechanical Code
- 2012 International Fuel Gas Code
- 2012 International Green Construction Code
- 2012 International Energy Conservation Code
- 2012 International Existing Building Code
- 2011 National Electric Code

This text amendment to the Maricopa County Local Additions and Addenda proposes to replace the currently-adopted 2009 suite of building codes, with local amendments, with the updated 2012 suite of international building codes, with local amendments. In addition, three new construction codes are being considered for adoption. These codes include (1) the 2012 International Existing Building Code, (2) the 2012 International Energy Conservation Code, and (3) the 2012 International Green Construction Code (voluntary basis only). The purpose of the text amendment is to ensure updated construction safety codes with the Maricopa Association of Governments / Arizona Building Officials (MAG/AZBO) amendments that are consistent with other jurisdictions in the county and state. The April 9, 2013 BCAB meeting

minutes and the leg-edit Local Additions and Addenda showing all proposed changes are attached.
As noted, the proposed text amendment language is a repeal and replace of the existing document language for the Maricopa County Local Additions & Addenda. The leg-edit revised document is attached in its entirety. These are code updates and not substantial changes from current codes, except that the County has not previously adopted the Green Construction Code, Energy Conservation Code or the Existing Building Code – all of which are anticipated to be a benefit to our customers. Note that compliance to the Green Construction Code will be voluntary.

More specifically, the changes to the Local Additions and Addenda and the ICC/NEC Codes, shown in leg-edit form on the attached proposed language exhibit, are as follows:

Cover Page:

1. Updated to March 2013.
   Reason for change: Update to current year.

Table of Contents:

1. Updated to reference the 2012 codes and add the IGCC, IECC and IEBC.
   Reason for change: Update to correct year reference and add the new codes.

Chapter 1:

1. No Changes.

Chapter 2:

1. Removed the $75 fee for Expedited in-house plan review.
   Reason for change: This is not a service we offer.

2. Section 209. Noise Level Reduction. Updated Zoning Ordinance reference from Section 1007 to 1010.
   Reason for change: To reflect a change made to the Zoning Ordinance section.

3. Section 210.2 Definitions, Swimming Pool. Added "This does not include decorative fountains that contain water under 12" deep".
   Reason for change: Without this language, pool barriers are required around fountains, which is not necessary or practical.

4. Section 211.1.5 of Residential Woodburning Regulations. Text changed in its entirety to match current Arizona Revised Statutes (ARS) for the four types of allowable fireplaces/wood stoves.
   Reason for change: To be consistent with ARS.

Chapter 3:

1. Section 301. Adopts and amends 2012 IBC and Appendix G Flood Resistance Construction.
   Reason for change: We don't usually adopt appendices, but this one is necessary to maintain our standing in the National Flood Insurance Program (NFIP).

Of note, Section 202 through Section 3109 are the MAG/AZBO amendments that did not change other than some slight editorial corrections. We are still exempting single family residences from fire sprinkler requirements.

2. Section 302. Adopts and amends 2012 IRC. No changes other than some code section corrections. We are still exempting single family residences from fire sprinkler requirements.
   Reason for change: To update code section references.

3. Section 303. Adopts and amends 2012 IMC with new MAG/AZBO amendments for Domestic Systems and Standards.
   Reason for change: To be consistent with MAG/AZBO jurisdictions.

4. Section 304. Adopts and amends 2012 IPC with new MAG/AZBO amendment for Water Closet clearances. Kept same MAG/AZBO amendments for Discharge Piping and Vent Through Roof.
   Reason for change: To be consistent with MAG/AZBO jurisdictions.

5. Section 305. Adopts and amends 2011 NEC with the City of Phoenix Amendments, which haven't changed except for section number corrections to fit the new code.
   Reason for change: To be consistent with MAG/AZBO jurisdictions.

6. Section 306. Adopts and amends 2003 IFC.
   No changes: This code still only applies to County-owned buildings.

7. Section 307. Adopts and amends 2012 IFGC with same MAG/AZBO amendment for Burial Depth.
   Reason for change: To be consistent with MAG/AZBO jurisdictions.

8. Section 308. Adopts and amends 2012 IGCC with City of Phoenix proposed amendments. Specifies that code is optional.
   Reason for change: To allow optional use of code for builders who want to be energy conscious.

9. Section 309. Adopts and amends 2012 IECC with City of Phoenix and SRP proposed amendments for scoping and the RESNET testing and HERS ratings and pool motor requirements recommended by MAG/AZBO.
   Reason for change: To be consistent with MAG/AZBO jurisdictions.

10. Section 310. Adopts 2012 IEBC with no amendments.
    Reason for change: To allow greater flexibility in the redevelopment of existing buildings.

This item is being processed through the County's Enhanced Regulatory Outreach Program (EROP). A stakeholder meeting was held on February 22, 2013. This item was presented to the Maricopa County Building Code Advisory Board (BCAB) on April 9th for discussion and will be presented on April 30, 2013 for initiation and possible recommendation. At the April 30th meeting, the BCAB may recommend that the text amendment process be expedited. An expedited process recommendation means that the BCAB would both initiate and make a

recommendation regarding the text amendment at the same meeting. To be considered for the expedited process, the following three criteria must be met: (1) the amendment has been the subject of at least one Stakeholder Workshop (posted on the County's web site at least two weeks in advance); (2) a draft of the regulatory change was available on the EROP web site at least two weeks prior to the Board hearing; and (3) the BCAB has received no opposition to the proposed text amendment and is recommending approval of the proposed language. If the BCAB does not make a recommendation for expedited processing, an additional hearing date must be scheduled.

In accordance with state statutes, this text amendment will also be heard by the Maricopa County Planning and Zoning Commission (Commission). If these items are initiated at the April 25, 2013 Commission meeting, and positively acted on at the April 30, 2013 BCAB, the anticipated Commission hearing for recommendation to the Board of Supervisors (BOS) is June 6, 2013 and the tentative BOS hearing for adoption is July 17, 2013. The regulations will take immediate effect upon approval, but with a three month grace period where compliance with either the 2009 or 2012 ICC Codes will be allowed. This schedule is subject to change depending on information and recommendations received by the public and by the actions of the BCAB, Commission and/or BOS.

The initial February 22nd Stakeholder Meeting was well attended and this matter was discussed. (No minutes of the meeting were prepared.) The stakeholders indicated compliance with the Green Construction Codes should be optional, and that an alternative to energy code compliance must be offered. Staff is proposing an alternative approach to compliance by documenting a Home Energy Rating System (HERS) Index of 70 or less. There is no known opposition to the proposed language. A letter of support was received from SRP, attached. A general letter from the New River/Desert Hills Community is attached. They did receive an email response that compliance with the Green Construction Code will be optional. At the April 9, 2013 BCAB meeting BCAB members and a representative from the Home Builders Association had questions that were answered by staff as shown on the attached minutes from that meeting.

Recommendation:

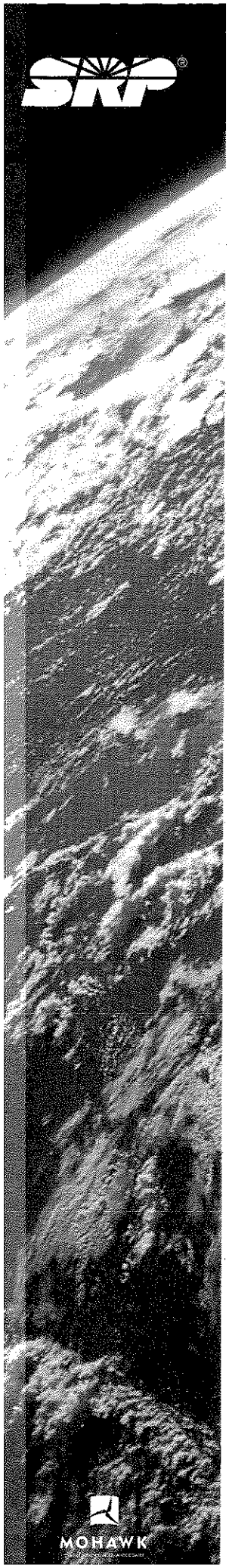
Staff recommends that the BCAB initiate TA2013001.

Staff further recommends, if the EROP criteria are met, that the BCAB recommend that TA2013001 be approved for expedited EROP processing and that the Maricopa County Planning and Zoning Commission and Board of Supervisors adopt the 2013 Maricopa County Local Additions and Addenda which adopt and amend the 2012 ICC Codes and the 2011 NEC Code.

If the EROP criteria are not met, staff recommends that the BCAB take action to set a Special Meeting to hear TA2013001 on June 11, 2013.

Prepared by Tom Ewers, Plan Review Manager

Attachments: SRP letter (1 page)
New River/Desert Hills email (2 pages) and letter (2 pages)
4/9/13 BCAB minutes (4 pages)
Proposed language (50 pages)



file in
Adoption of
2012 I Codes

March 19, 2013

Debra W. Stark, AICP
Maricopa County Planning and Development Director
501 N. 44th Street, Suite 200
Phoenix, AZ 85008

RE: Adoption of the 2012 I Codes

Ms. Debra Stark:

Thank you for taking the time to meet with me yesterday. I enjoyed our conversation about Maricopa County, and I hope I was able to provide some helpful information on why the adoption of the 2012 IECC is so important to our collective future. I will keep you posted as new information becomes available. Senate Bills 1365 and 1321 have been a concern to us all; SRP supports the right of Maricopa Co to define their own future, and determine what is best for their residents.

SRP supports your efforts to adopt the 2012 Codes, as well as your efforts to encourage design and building techniques that reduce energy consumption thereby saving Maricopa Counties businesses and residents money. It makes good business sense for the County to encourage building practices that protect their infrastructure. SRP's mission of providing reliable and reasonably priced electricity relies upon efforts such as this to assure our ability to meet future and current power demands.

Building Energy Codes are the most cost effective method of obtaining energy efficiency. SRP supports the adoption of the 2012 International Energy Conservation Code as a means to obtain reduced demand on your infrastructure and our generation facilities. The construction costs associated with building additional generation facilities will be born by all of us; all of us can contribute to postponing that work, allowing American ingenuity time to develop the next great energy generating resource.

Currently SRP obtains power from many types of generation facilities: hydro, nuclear, natural gas, wind, geothermal, solar, landfill gas, biomass, and fuel cell technology. In 2012 we met 9% of power demand with sustainable resources. During the past few years, SRP has introduced more than 25 energy efficiency programs. Through these rebate programs we have supported a movement in the market that has resulted in better built, more energy efficient homes and businesses. We support and encourage your adoption of the 2012 IECC as a means to continue this trend, saving your residents and business money in the most cost effective way.

If we can be of any support, including providing training and code books, please let us know.

Sincerely,

Sharon Bonesteel, RA, CBO, CP
Senior Policy Analyst – Codes & Standards Initiative
Office 602-236-4498, Cell 602-814-7357

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Lynn Favour - PLANDEVX

From: Darren Gerard - PLANDEVX
Sent: Wednesday, April 17, 2013 12:52 PM
To: 'Ann Hutchinson'; Alan & Candy Muller
Cc: Debra Stark - PLANDEVX; Michael Norris - PLANDEVX; Lynn Favour - PLANDEVX
Subject: RE: TA2013001-002--003 New River-Desert Hills Community Association Response

Ann: I'm sorry about this lack of attention to detail on my part, yes, it was a typo in my email yesterday. The P&Z (ZIPPOR) is here at the county planning office on Thursday 4/25, 9:30 a.m. TA2013001 also goes to the Building Code Advisory Board which is meeting Tuesday 4/30. If you're subscribed to EROP for automated email or text reply then you should be getting a notice when items are posted to the site. Next time your down this way let's make sure that you're subscribed to receive automated notices. Darren

From: Ann Hutchinson [mailto:behomes@q.com]
Sent: Wednesday, April 17, 2013 12:23 PM
To: Darren Gerard - PLANDEVX; Alan & Candy Muller
Cc: Debra Stark - PLANDEVX; Michael Norris - PLANDEVX; Lynn Favour - PLANDEVX
Subject: Re: TA2013001-002--003 New River-Desert Hills Community Association Response

Darren,
Thanks for this acknowledgement. Thanks for explanation too. We also found the link to the April 30 agenda (which includes the April 9 notes) that helped too.

I note that you say "at the 4/24 P&Z meeting. However, this is the first notification that we've received about this meeting. I think you may have a typo. The Enhanced Regulatory Outreach Program shows April 25 On the Step 4: Stakeholder Notification 2 Weeks Prior to Citizen's Board or Commission and Step 5: Public Meeting to Initiate Regulatory Change. The link for that is for a ZIPPOR meeting. Additionally for 001, the EROP shows April 30 with the Code Advisory Board; The link to the April 30 agenda (which includes the April 9 notes) helped us too. Which dates are correct? In any case, we did not receive any notifications. I have the EROP as my home page hoping that I monitor it more on my own – it is just a bit hard to figure out sometimes ... or notice any changes.

Thanks,

Ann Hutchinson
Planning and Development Liaison
New River - Desert Hills Community Association
515 E. Carefree Highway, #300
Phoenix, AZ 85085-8839
Email: behomes@q.com
www.nrdhca.org
623-742-6514

From: Darren Gerard - PLANDEVX
Sent: Tuesday, April 16, 2013 5:19 PM

To: 'Ann Hutchinson' ; Alan & Candy Muller
Cc: Debra Stark - PLANDEVX ; Michael Norris - PLANDEVX ; Lynn Favour - PLANDEVX
Subject: RE: TA2013001-002--003 New River-Desert Hills Community Association Response

Ann & Alan: your comments are appreciated and will be printed for hand out at the 4/24 P&Z meeting. The agenda and staff reports with attachments are available online. Please note regarding TA2013001 that the green construction codes will be voluntary. Also regarding TA2013003, please note that administrative drainage waivers will have site posting giving neighbors opportunity to provide comment, and that the administrative determination may be appealed to the Drainage Review Board. Please let me know if this alleviates your concerns. Darren

Darren V. Gérard, AICP, Deputy Director
Maricopa County Planning & Development Department
501 N. 44th St. # 200 Phoenix, AZ 85008
602-506-7139, 602-506-3711 (fax)
darrengerard@mail.maricopa.gov
www.maricopa.gov/planning
www.mygreengovernment.com
www.CleanAirMakeMore.com

Our office is located three blocks north of the 44th St. Light Rail Station, and along Bus Route 44. See www.valleymetro.org for trip information.

From: Ann Hutchinson [mailto:behomes@q.com]
Sent: Thursday, April 11, 2013 12:31 PM
To: Darren Gerard - PLANDEVX
Cc: Alan & Candy Muller
Subject: TA2013001-002--003 New River-Desert Hills Community Association Response

Darren,

The attached has the New River - Desert Hills response and consultant's analysis for TA2013001, TA2013002, and TA2013003

Thank you for your consideration,

Ann Hutchinson
Planning and Development Liaison
New River - Desert Hills Community Association
515 E. Carefree Highway, #300
Phoenix, AZ 85085-8839
Email: behomes@q.com
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New River/Desert Hills Community Association, Inc.
515 E. Carefree Hwy. #300
Phoenix, AZ 85085-8839
Phone 602-432-2800
Fax: 623-465-1177
Website: www.NRDHCA.ORG
President's email: Alan@NRDHCA.com

April 11, 2013

Darren Gerard
Maricopa County Planning and Development
501 North 44th Street, Suite 200
Phoenix, AZ 85008

Dear Darren,

The President of the New River/Desert Hills Community Association (NR/DHCA) has authorized me to submit following comments and recommendations:

- **TA2013001 – 2012 International Codes.** For the most part, this seems appropriate. **Concern:** There is concern about the implementation of the International Green Construction Code since may be greatly increase the cost of a new residencies. We suggest that the county phase this into the requirements to mitigate undue hardships.
- **TA2013002 - Hillside Retaining Walls.** This seems appropriate. **No concern:** It appears to merely clarifies the existing ordinance.
- **TA2013003 - Drainage Waivers.** For the most part, this seems appropriate. **Concern:** There is concern that there does not seem to be any checks and balances. Therefore it is not obvious that the administrative hearings will adequate and that there will not be an opportunity for public input. .

Please consider the attached letter from our consultant.

Regards,

Ann Hutchinson

Ann Hutchinson
Planning and Development Liaison
New River - Desert Hills Community Association
515 E. Carefree Highway, #300
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Email: behomes@q.com
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623-742-6514

Attachment: Consultant's analysis

PAUL H. McALLISTER
201 W. Circle Mountain Road
New River, AZ 85087
Date: 31 March 2013

To: NR-DHCA, INC.

I have reviewed the proposed TAs (Text Amendments) TA2013001, TA2013002 and TA2013003. TA2013001 proposes adopting 2012 International, Building, Residential, Plumbing, Mechanical, Fuel/Gas, Green Construction, Energy Conservation, Existing Building Codes. If Green Construction and Energy Conservation Codes are required, I can only hope Maricopa County does not require sealed plans/documents as part of the approval process.

TA2013001 incorporates The International Green Construction Code. This will elevate the cost of a new residence but only slightly. The new products on the market are tried and proven to bettor or as good as the older required products. Presently the newer (Green) materials are much cheaper than their accepted older materials.

When it comes to energy conservation, my experience in California was that energy efficacy compliance on the plans had to be documented and sealed for approval. This seal provided by a registered Architectural Engineer or a Engineer was required for approval.

Energy Conservation is often an expensive process and will increase the cost of a new residencies considerably. Insulation R designation (walls, attic, floors), windows shading, window size, air intrusion sealing (windows and doors mostly) all will become part of this change. Energy conservation in this area is a good thing but what cost is acceptable? The county should only require certain modifications to the structure and slowly, not enter all at once thereby avoiding anything that might be considered as a hardship.

I do not possess a copy of the International Existing Building Code and thereby know very little about it. I know virtually nothing about what requirements are in this code but it does not sound good (i.e. sounds expensive for little value).

TA2013002 this proposed addition to Chapter 11 will make no new requirements only spells-out those requirements that exist and clear up any confusion that currently exist.

TA2013003 Will allow drainage requirements to be approved administratively and not require (in some cases) approval only by the Drainage Review Board (a public meeting). The only objection to this method is that the county may use this method to approve everything. This TA provides no checks and balances but is open-ended.

Sincerely,

Paul H. McAllister

BUILDING CODE ADVISORY BOARD
MEETING MINUTES

DATE: April 9, 2013
TIME: 2:00 p.m.

LOCATION: 501 North 44th Street, 1st Floor
Phoenix, AZ 85008

MEMBERS PRESENT:

Mr. Tracy Finley, Chairman
Mr. Vincent Territo, Vice Chairman
Mr. John Kight
Mr. Robert Ghan

STAFF PRESENT:

Tom Ewers, Plan Review Manager/Chief Building Official
Lynn Favour, Deputy Director
Ralph Shepard, Plan Review Supervisor
Debra Stark, Director
Valerie Beckett, Ombudsman
Kathy Semder, Administrative Assistant

PUBLIC PRESENT:

Gabriel Millican
Jackson Moll

ROLL CALL

Chairman Finley called the meeting to order at 2:01 p.m.

APPROVAL OF MINUTES

Chairman Finley asked if everyone looked at the minutes from the previous January 8, 2013 meeting and were there any comments. Member Kight made a motion to approve the minutes. Member Ghan seconded the motion. Motion passed unanimously.

REPORT OF COMMITTEES

None

UNFINISHED BUSINESS

None

NEW BUSINESS

2012 ICC Code Adoptions – 2013 Maricopa County Local Additions and Addenda

Mr. Ewers advised that Maricopa County is in the process of adopting the new I-Codes and updating our Local Additions and Addenda. There is a new hearing process, the Enhanced Regulatory Outreach Program (EROP); and part of that is to give the public more access to our processes and provide more public notice for meetings. Unfortunately this was not done so this meeting is for discussion purposes only and Mr. Ewers will ask Chairman Finley to set a Special Meeting for April 30, 2013, at 2:00 p.m. to take any action, if necessary.

Mr. Ewers explained we are looking at adopting the following International Codes:

2012 International Building Code
2012 International Residential Code
2012 International Mechanical Code
2012 International Plumbing Code
2011 National Electric Code
2003 International Fire Code
2012 International Fuel Gas Code
2012 International Green Construction Code
2012 International Energy Conservation Code
2012 International Existing Building Code

Mr. Ewers then stated that we will do a bulk order for code books for the BCAB Members as well as our Staff once we have a clear idea of which codes will be adopted. A letter from Sharon Bonesteel of SRP was handed out to the Members showing general support for the adoption of the 2012 IECC.

In general, the updates from 2009 to 2012 are mainly that all Definitions can now be found in Chapter 2 of each of the Codes and they stopped including one Code within another, instead they just make reference to the relevant Code. This has cut down the total number of pages considerably for the new Code books. The only other main changes are clarifications to wind load design, earthquake design and wall bracing, to reflect different language.

The Local Additions and Addenda, which is the vehicle for adopting these National Codes, is updating the referenced code sections and other minor changes which Mr. Ewers then detailed by Section and Chapter. Everything in Chapter 3 is new and Section 301 adopts and amends the 2012 IBC and Appendix G Flood Resistance Construction. Although we don't normally adopt appendices, Mr. Ewers explained this is necessary to maintain our membership in the National Flood Insurance Program (NFIP). The Arizona Building Officials (AZBO) proposes Code changes to the International Code Commission every cycle and when they are approved they no longer have to be a Local Amendment. When those changes are not accepted, we must use the Local Amendments. Mr. Ewers went on to list each of the Chapter 3 Sections which adopt and amend the new International Codes mentioned earlier in the meeting. In Section 309, Mr. Ewers explained the acronyms for the energy testing and ratings systems and that there is currently legislation pending that the State may change the HERS ratings, which we would then have to amend as well.

Chairman Finley then opened the meeting for discussion to the Members. Member Kight asked if Section 309 is optional, similar to Sections 308 and 310 to which Mr. Ewers replied no, it includes energy conservation measures for both residential and commercial structures. Member Kight then asked if we intend to convert the optional Codes to mandatory at some point and Mr. Ewers answered not at this time but we cannot predict what the Board may decide in the future.

Vice Chairman Territo stated that he thought 18 inches was the standard and Mr. Ewers explained that the pool definition states 18 inches depth in water and 8 feet wide. In response to Vice Chairman Territo asking about training for Section 308, Mr. Ewers advised that we will look into third party reports. Vice Chairman Territo made a recommendation to make the ICC's errata, which is a correction for errors, automatically accepted but Chairman Finley said we would bring it back to the BCAB for review first rather than having them automatically adopted. In Chapter 3, page 6, Vice Chairman Territo advised that Section 1101.3 has now been revised to the 2010 ADA Standards to which Mr. Ewers explained that our Local Additions and Addenda require that we comply to the ADA and Arizonans with Disabilities Act and he will further investigate Vice Chairman Territo's concern that the statutes are not up to date. Mr. Ewers also advised that we intentionally did not include a year in the Section 304, page 9 Exception to stay in compliance with state and federal regulations.

Member Ghan asked if the 2003 IFC applied to County owned properties in the City of Phoenix, where would an applicant with a commercial property fall under. Mr. Ewers responded they would reference the International Building Code which covers all the requirements for fire alarms and sprinklers. We don't adopt the Fire Code, other than specifically for County owned properties in the City of Phoenix due to an existing IGA, because we don't maintain any Fire Departments or equipment or water systems. Outside of the cities, you would have to meet the adopted Codes of the Fire jurisdiction that you're in, such as Daisy Mountain.

Chairman Finley asked for any additional discussion from the Board Members and then opened the meeting to the public. Jackson Moll, of the Homebuilders Association, is on the City of Phoenix Advisory Board and wanted to know if some items discussed in Phoenix regarding the Energy Conservation Code were brought up here as well. For example, the trade-off table created by the City of Phoenix for supply duct insulation where the requirements are now R-8 insulation but R-6 could be used if certain criteria were met to maintain the relative energy efficiency. Mr. Ewers advised he looked at what is currently before the City of Phoenix for proposals to adopt these National Codes and Amendments. Chairman Finley agreed that he didn't see the trade-off table included in the proposal and that it was adopted by MAG and AZBO which then rolled over to the City of Phoenix. Mr. Moll then mentioned a reference to the air-handler requirement. Mr. Moll also questioned if it is the same for the IRC and Mr. Ewers explained that for the IRC we use the same Amendments we had in the past and our Local Additions and Addenda. Mr. Moll further clarified a grandfathering situation for certain lots already under preliminary plan review prior to 2007 and having only a 3 foot setback. Mr. Ewers advised this was discussed during the 2009 Adoption phase because of the difference with 3 and 5 foot setbacks. In the County we have larger lots where it's not as much of an issue and we require fire rating within 5 feet of the property line. We previously changed our Zoning Code to allow no separation between principal and accessory structures as well as between accessory structures and also reduced setbacks in side and rear yards, but the IRC doesn't require fire rating on residential structures on the same lot.

SET DATE OF NEXT MEETING

Mr. Ewers requested to close the discussion at this time and asked for a Special Meeting in three weeks to take any action. Member Ghan made a motion to have the Special Meeting scheduled for April 30, 2013, at 2:00 p.m., Member Kight seconded the motion. The motion passed unanimously.

ADJOURNMENT

Member Kight made a motion to adjourn the meeting. Member Ghan seconded the motion. The motion passed unanimously and the meeting was adjourned at 2:31 p.m.

Minutes prepared by Kathy Semder, Administrative Assistant
April 10, 2013

Minutes Reviewed by Thomas F. Ewers, Chief Building Official

Maricopa County
Local Additions & Addenda

Maricopa County Planning and Development Department
501 N. 44th St.
Phoenix, AZ 85008

March ~~2012~~ 2013

Maricopa County

MARICOPA COUNTY LOCAL ADDITIONS & ADDENDA

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MARICOPA COUNTY LOCAL ADDITIONS & ADDENDA

Chapter 1 – Purpose & Title

SECTION 101. PURPOSE

The purpose of this document is to provide all local addenda, amendments, and additions to the adopted national building codes in one location.

SECTION 102. TITLE

This document shall be referred to and known as "Local Additions & Addenda".

SECTION 103. SEPARABILITY

If any section, subsection, sentence clause, phrase or portion of this Ordinance is for any reason held to be invalid or unconstitutional by the decision of any court of competent jurisdiction, such decision shall not effect the validity of the remaining portions thereof.

SECTION 104. AMENDMENT

This document may be amended from time to time. It may be amended by simple motion of the Board of Supervisors, provided all state required legal advertising for amending a Building Code has been satisfied. Staff may correct typographical errors and/or reformat this document without being considered an amendment.

SECTION 105. REVOCATION

This document shall abolish, replace, and/or supercede any previous amendments, changes or additions to the national codes previously approved by Maricopa County.

MARICOPA COUNTY LOCAL ADDITIONS & ADDENDA

Chapter 2 – Administration

SECTION 201. PURPOSE

The purpose of this Chapter is to provide all local changes to the adopted national building codes that relate to the administration of those codes in on location.

SECTION 202. VIOLATION & PENALTY (Reserved)

SECTION 203. BUILDING CODE ADVISORY BOARD (Reserved)

SECTION 204. ORGANIZATION & ENFORCEMENT

Code Enforcement Agency

The Code Enforcement Agency created under the building code shall be defined in Maricopa County as the Planning and Development Department. This Planning and Development Department is charged by the Board of Supervisors to implement the building code and other pertinent laws, ordinances and/or regulations through the County's One Stop Shop Program.

Building Official

The Building Official shall be the Director of the Planning and Development Department (or his/her duly authorized representatives), who is charged with the administration and enforcement of the building code and Building Safety Ordinance.

General

Wherever the building code refers to the intent, purpose, implementation, inspection, enforcement, regulation, issuance of documents, compliance or other similar activity related to "this code", the phrase for purposed of implementing the "One Stop Shop Program" shall mean "this code or other pertinent laws, ordinances, and/or regulations implemented through the Code Enforcement Agency."

SECTION 205. PERMITS

Building Permits: A building permit shall not be required for a detached non-habitable accessory building that is single story and no greater than 200 square feet in floor area, provided such building does not include plumbing, electrical, or mechanical services or equipment. A building permit shall not be required to replace an existing water heater provided the work is done in accordance with manufacturer's specifications.

Permit Expiration: A permit may be renewed within one year of expiration provided that no change in ownership or engineer/architect of record has occurred. Renewal after expiration for

more than one year shall not be permitted. Any such permit shall be deemed to be revoked and a new permit must be issued.

The design and construction of structures located within the unincorporated areas of Maricopa County shall comport to the codes in effect at the time of permit application, provided the specific permit remains valid, regardless of whether or not the County adopts subsequent codes. When approved by the Building Official, utility-scale solar generating facilities in which permit applications have been submitted, the design and construction may continue to utilize the codes in effect at the time of initial permit application, regardless of the number of permits required to complete the project, provided that 1) all construction is covered by an issued permit, 2) any permits issued for construction remain valid, and 3) continuous construction takes place until the facility is commissioned for commercial service and the facility receives final inspection. Once the above conditions have been met, subsequent construction activity shall comply with the codes in effect at the time of the subsequent permit applications. Further, should a permit lapse, the work contemplated by the permit shall be subject to a new permit application and shall comport to the codes in effect at the time the new permit application is submitted. For purposes of this section, the term "Utility-Scale" shall be as defined by the Maricopa County Zoning Ordinance.

Temporary Event Permit Exemption: Structures erected pursuant to an approved Temporary Use Permit shall not require a building permit if standing for a period not to exceed 96 contiguous hours. The responsible party shall provide documentation, as specified in the Temporary Use Permit that said structures were erected and maintained subject to all applicable building safety codes and manufacturer's specifications. The documentation shall be provided to the Department within two working days following the end of the special event to be filed with the Temporary Use Permit. Failure to provide the required documents will render the Temporary Use Permit null and void and constitute a zoning violation in accordance with Chapter 15 of the Maricopa County Zoning Ordinance.

SECTION 206. INSPECTIONS

Pre-Permit Inspection: A pre-permit inspection may be necessary and shall be the responsibility of the permit holder to post the property in a manner approved by the Building Official.

Permit Holder Responsibilities: It shall be the responsibility of the permit holder to:

1. Call for an inspection.
2. Stake property corners.
3. Designate property lines prior to the inspection of any primary use.
4. Post the inspection card.
5. Provide a copy of the approved plans on the site.
6. Provide access to the site.
7. Have someone at the site during the inspection.

Failure to complete the above shall result in no inspection at the time and an assessment of a re-inspection fee. A survey of the lot may be required by the Building Official to verify that the building/structure is located in accordance with the approved plans.

Partial Inspections: Partial inspections may be requested and conducted when necessary due to common construction practices. If a partial inspection is approved, documentation shall be maintained during construction that identifies what segments of work have obtained what types of partial inspection approval.

Re-inspections: Re-inspection fees shall apply when:

1. Property lines have not been designated as required.
2. The inspection card is not posted or available on the work site.
3. Approved plans are not readily available to the inspector on the site.
4. There is no access on the date for which the inspection is requested.
5. Work is not ready for inspection.
6. Work has been covered.
7. Late cancellation.
8. There is a deviation from plans significant enough to require approval of revised plans.

To obtain a re-inspection, the applicant shall follow the same procedures required for an inspection after paying a re-inspection fee.

SECTION 207. CERTIFICATE OF OCCUPANCY

The purpose of a Certificate of Occupancy is to insure that all department requirements have been met. A Certificate of Occupancy is required for all permits except those issued over the counter.

Temporary Certificate: A Temporary Certificate of Occupancy may be issued with the concurrence of all impacted departments and when appropriate fees are paid. Bonding, if required, shall be provided in accordance with the direction of the Building Official prior to issuance of a Temporary Certificate.

Permanent Utility Authorization: Permanent utility approval shall be not be authorized until after a permanent Certificate of Occupancy has been issued. Said authorization to the utility company shall include a copy of the Certificate of Occupancy or letter of approval.

SECTION 208. FEES

Determination of Value: Values shall be determined through the use of the most current published Building Valuation data in the publication "Building Standards" as modified for Arizona. The Building Official may develop similar increases for unpublished valuations.

Additional Value Determinations:

Walls and fences:

Retaining walls	Per lineal foot
0-2′	$15
2-4′	$25
4-6′	$42
6′ or more	$86
Chain link	$ 6
CMU	
4″ 6′ or less	$14
4″ more than 6′	$21
8″ block or other	$22
Wrought iron	$16
Iron wood	$18
Wood	$11
3 strand barbed wire	$ 3
Rail	$ 6

In ground pools	$200 per perimeter foot

Wood frame or masonry patio covers shall be valued as open carports.

Metal patio covers and covered pipe-rail horse corrals shall be valued at 50 percent of the value of a wood or masonry patio cover.

Non-habitable accessory buildings, other than covered pipe-rail horse corrals, shall be valued as a private garage.

Water/sewer collection and distribution lines shall be valued as determined by the building official.

Shell buildings shall be valued at 80% of new building value.

Alterations shall be valued at 20% of new building value.

Processing: All plan review fees (65 percent of calculated permit fee) required to be paid shall entitle the applicant to three submissions and reviews of documents submitted. If the applicant is unable to obtain approval of his application with these three attempts, the application shall be denied. The applicant may then resubmit and the submittal shall be treated as a new application. Should these circumstances occur or the permit has been expired in accordance with the Building Code, the Building Official may use information located in the denied/expired files to

expedite processing, provided that the owner and/or architect/engineer have remained the same and that the building plans have not been changed.

No subsequent step in the permit process shall be undertaken without all fees due being paid.

Fees: The Building Official may develop a requirement for an initial flat rate filing fee for permits that require plan review. Should this type of fee be developed, said fee shall be considered as a part of and credited against any required plan review fees. The building plan review fees specified in the code are separate fees from the permit fees specified, these fees are also separate from the fees specified for investigations. Building plan review fees are assessed in addition to these other fees. All fees may be rounded up to the next full dollar amount at the discretion of the Building Official.

The following fees are hereby established for use.

TABLE 1-A – BUILDING CODE/PERMIT FEES

Total Valuation	**Fee**
$1 to $500	$23.50
$501 to $2,000	$23.50 for the first $500 plus $3.05 for each additional $100, or fraction thereof, to and including $2,000
$2,001 to $25,000	$69.25 for the first $2,000 plus $14.00 for each additional $1000, or fraction thereof, to and including $25,000
$25,001 to $50,000	$391.75 for the first $25,000 plus $10.10 for each additional $1000, or fraction thereof, to and including $50,000
$50,001 to $100,000	$643.75 for the first $50,000 plus $7.00 for each additional $1000, or fraction thereof, to and including $100,000
$100,001 to $500,000	$993.75 for the first $100,000 plus $5.60 for each additional $1000, or fraction thereof, to and including $500,000
$500,001 to $1,000,000	$3,233.75 for the first $500,000 plus $4.75 for each additional $1000, or fraction thereof, and including $1,000,000
$1,000,001 and up	$5,608.75 for the first $1,000,000 plus $3.65 for each additional $1000, or fraction thereof

Other Inspections and Fees:

1. Inspections outside of normal business hours	$ 150 per residential inspection $ 250 per commercial inspection
2. Reinspection fees	$ 150 per residential inspection $ 250 per commercial inspection
3. Inspections for which no fee is indicated	$ 150 per inspection
~~4. Expedited in-house plan review~~	~~$ 75 per hour~~
~~5~~4. Expedited plan review by consultant	Actual costs
~~6~~5. Standard plan review (5 options)	2 times normal plan review fee
~~7~~6. Change to approved plan (includes standards)	$ 250
~~8~~7. Code Modification	$ 100 per request
~~9~~8. Alternate material, design or methods	$ 100 per request
~~10~~9. Tests required	$ 100 per test & test fees paid by applicant
~~11~~10. Appeal to the Building Code Advisory Board	$ 500
~~12~~11. Amendment to the Code	$1500
~~13~~12. Requested/needed staff directive	$ 250
~~14~~13. Requested staff research report	$ 100 residential property $ 250 commercial property

Flat Rate Fees:

Air conditioner	$ 50
Elec. Serv Residential 1 – 200 amps	$ 50
Elec. Serv Res or Comm 201 – 400 amps	$ 75
Elec. Serv over 400 amps	$ 120
Temporary meter	$ 50
Evaporative cooler	$ 50
Gas Line (connect or clearance)	$ 50
Mobile home "Pre-HUD Upgrade"	$ 50
Plumbing sewer line SFR	$ 50
Irrigation System	$ 50
Sprinkler	$ 50
Mechanical	$ 50
Plumbing (Install or replace Equip/fixture/devices)	$ 50
Demolition Permit	$ 50
Manufactured/Mobile Home Setup/Installation	$ 300
Commercial Manufactured Building (factory built building)	Based on installation value & Table 1-A
Occupancy Change	$ 75
Hot tub or Spa (in or above ground)	$ 75
Swimming pool above ground	$ 75
Compliance Inspection	$ 100
Move on House (compliance inspection	$ 100

Renew permit for final	$ 100
Special Event Fee (tents)	$ 100 per event

Additional Fees:

Plumbing (water/sewer collector lines)	$30 min based on valuation
Amendment to approved plan data	$30
Unpaved Parking Area Paving	$100
Temporary Certificate of Occupancy	
Without bonding	$250
With bonding	$500
Subdivision Infrastructure Permit	$300
Ground mounted residential solar system (Less than six (6) feet high)	$500
Roof mounted residential solar system	$300

Copy Charges:

Additional copy of:	
Permit	$ 2
Job card	$ 2
Certificate of Occupancy	$ 2
Copy (Approved Plans – per set)	$ 15 per set (Restamping Only)
Copy (per page)	
Standard copier	$ 1
Oversize copier	$ 6

Grading Fees:

Plan Review Fees:

Volume of material (Cut and Fill)	Fee
<50 cubic yards	No fee
50 – 100 cubic yards	$ 23.50
101 – 1,000 cubic yards	$ 37.00
1,001 – 10,000 cubic yards	$ 49.25

10,001 – 200,000 cubic yards	$ 49.25 plus $ 24.50 for each additional 10,000 cubic yards or fraction thereof
200,001 or more cubic yards	$269.75 plus $ 7.25 for each additional 10,000 cubic yards or fraction thereof
Additional plan review required by changes, additions, or revisions to approved plans	$ 50.00

Permit Fees:

Volume of material (Cut and Fill)	Fee
<50 cubic yards	$ 23.50
50 – 100 cubic yards	$ 37.00
101 – 1,000 cubic yards	$ 37.00 plus $ 17.50 for each additional 100 cubic yards or fraction thereof
1,001 – 10,000 cubic yards	$194.50 plus $ 14.50 for each additional 1,000 cubic yards or fraction thereof
10,001 – 100,000 cubic yards	$325.00 plus $ 66.00 for each additional 10,000 cubic yards or fraction thereof
100,001 or more cubic yards	$919.00 plus $ 24.50 for each additional 10,000 cubic yards or fraction thereof

Payment of Fees: No application shall be scheduled for hearing by any board or commission acting pursuant to the "Maricopa County Local Additions and Addenda", or administratively approved unless and until all fees and fines owed to the Department as a result of any activity or inactivity attributable to the property that is the subject of the application are brought current and paid in full or any amounts owed pursuant to an agreement of compliance are current, as the case may be. This requirement shall not be waived by the board/commission.*1*2

SECTION 209. ADDITIONAL REGULATIONS

NOISE LEVEL REDUCTION: Any building within the vicinity of a military airport or ancillary military facility as defined by State Statute shall have a noise level reduction incorporated in the design and construction of any residential building or portions of buildings where the public is received, office areas and where normal noise level is low for first occupancy, including libraries, schools and churches, pursuant to building permits issued after December

31, 2001 in order to achieve a maximum interior noise level of forty-five decibels in areas within noise contours described in Section ~~1007~~ 1010 of the Maricopa County Zoning Ordinance. All residential buildings in territory in the vicinity of a military airport but outside the noise contours as described in this section shall be constructed with a minimum of R18 exterior wall assembly, a minimum of R30 roof and ceiling assembly, dual-glazed windows and solid wood, foam-filled fiberglass or metal doors to the exterior or, if the specified building standards are not met, the County may approve as an alternative, a certification by an architect or engineer registered pursuant to A.R.S. Title 32, Chapter 1 to achieve a maximum interior noise level of forty-five decibels at the time of final construction.

SECTION 210. BARRIERS FOR SWIMMING POOLS, SPAS & HOT TUBS

SECTION 210.1 - GENERAL

210.1.1

Scope. The provisions of this section apply to the design and construction of barriers for swimming pools located on the premises of Group R, Division 3 Occupancies.

210.1.2

Standards of Quality. In addition to the other requirements of this code, safety covers for pools and spas shall meet the requirements for pool and spa safety covers as listed below. The standard listed below is a recognized standard. (See Section 3504.)

1. ASTM F 1346, Standard Performance Specification for Safety Covers and Labeling Requirement for All Covers for Swimming Pools, Spas and Hot Tubs

SECTION 210.2 – DEFINITIONS

For the purpose of this section, certain terms, words and phrases are defined as follows:

ABOVEGROUND/ON-GROUND POOL. See definition of "swimming pool."

BARRIER is a fence, wall, building wall or combination thereof that completely surrounds the swimming pool and obstructs access to the swimming pool.

GRADE is the underlying surface, such as earth or a walking surface.

HOT TUB. See definition of "spa, nonself-contained" and "spa, self-contained."

IN-GROUND POOL. See definition of "swimming pool."

SEPARATION FENCE is a barrier that separates all doors of a dwelling unit with direct access to a swimming pool from the swimming pool.

SPA, NONSELF-CONTAINED is a hydro massage pool or tub for recreational or therapeutic use, not located in health-care facilities, designed for immersion of users and usually having a filter, heater and motor-driven blower. It may be installed indoors or outdoors, on the ground or on a supporting structure, or in the ground or in a supporting structure. A nonself-contained spa is intended for recreational bathing and contains water over 24 inches (610mm) deep.

SPA, SELF-CONTAINED is a continuous-duty appliance in which all control, water-heating and water-circulating equipment is an integral part of the product, located entirely under the spa skirt. A self-contained spa is intended for recreational bathing and contains water over 18 inches deep.

SWIMMING POOL is any structure intended for swimming or recreational bathing that contains water over 18 inches deep and/or wider than 8 feet at any point. This includes in-ground, aboveground and on-ground swimming pools, and fixed-in-place wading pools. This does not include decorative fountains that contain water less than 12 inches deep.

SWIMMING POOL, INDOOR is a swimming pool that is totally contained within a residential structure and surrounded on all four sides by walls of said structure.

SWIMMING POOL, OUTDOOR is any swimming pool that is not an indoor pool.

SECTION 210.3 – REQUIREMENTS

210.3.1 Outdoor Swimming Pool. An outdoor swimming pool shall be provided with a barrier that shall be installed, inspected and approved prior to plastering or filling with water. The barrier shall comply with the following:

1. The top of the barrier shall be at least 60 inches above grade measured on the side of the barrier that faces away from the swimming pool. The maximum vertical clearance between grade and the bottom of the barrier shall be 2 inches (51 mm) measured on the side of the barrier that faces away from the swimming pool. The maximum vertical clearance at the bottom of the barrier may be increased to 4 inches (102 mm) when grade is a solid surface such as a concrete deck, or when the barrier is mounted on the top of the aboveground pool structure. When barriers have horizontal members spaced less than 54 inches apart, the horizontal members shall be placed on the pool side of the barrier. Any decorative design work on the side away from the swimming pool, such as protrusions, indentations or cutouts, which render the barrier easily climbable, is prohibited.

2. Openings in the barrier shall not allow passage of a 1 ¾-inch-diamenter (44.5 mm) sphere.

EXCEPTIONS:

1. When vertical spacing between such openings is 54 inches or more, the opening size may be increased such the passage of a 4-inch-diameter (102 mm) sphere is not allowed.
2. For fencing composed of vertical and horizontal members, the spacing between vertical members may be increased up to 4 inches (102 mm) when the distance between the tops of horizontal members is 54 inches or more.
3. Chain link fences used as the barrier shall not be less than 11 gage.
4. Access gates shall comply with the requirements of Items 1 through 3. Pedestrian access gates shall be self-closing and have a self-latching device. Where the release mechanism of the self-latching device is located less than 54 inches (1372 mm) from the bottom of the gate, (1) the release mechanism shall be located on the pool side of the barrier at least 3 inches (76 mm) below the top of the gate, and (2) the gate and barrier shall have no opening greater than ½ inch (12.7 mm) within 18 inches (457 mm) of the release mechanism. Pedestrian gates shall swing away from the pool. Any gates other than pedestrian access gates shall be equipped with lockable hardware or padlocks and shall remain locked at all times when not in use.
5. Where a wall of a Group R, Division 3 Occupancy dwelling unit serves as part of the barrier and contains door openings between the dwelling unit and the outdoor swimming pool that provide direct access to the pool, a separation fence meeting the requirements of Items 1, 2, 3 and 4 of Section 210.3.1 shall be provided.

EXCEPTIONS: When approved by the Building Official, one the following may be used:

1. Self-closing and self-latching devices installed on all doors with direct access to the pool with the release mechanism located a minimum of 54 inches (1372 mm) above the floor.
2. An alarm installed on all doors with direct access to the pool. The alarm shall sound continuously for a minimum of 30 seconds within seven seconds after the door and its screen, if present, are opened, and be capable of providing a sound pressure level of not less than 85 dBA when measured indoors at 10 feet (3048 mm). The alarm shall automatically reset under all conditions. The alarm system shall be equipped with a manual means such a touchpad or switch, to temporarily deactivate the alarm for a single opening. Such deactivation shall last no longer than 15 seconds. The deactivation switch shall be located at least 54 inches (1372 mm) above the threshold of the door.
3. Other means of protection may be acceptable so long as the degree of protection afforded is not less than that afforded by any of the devices described above.

4. Where an aboveground pool structure is used as a barrier or where the barrier is mounted on top of the pool structure, and the means of access is a ladder or steps, then (1) the ladder or steps shall be capable of being secured, locked or removed to prevent access or (2) the ladder or steps shall be surrounded by a barrier that meets the requirements of Items 1 through 5. When the ladder or steps are secured, locked or removed, any opening created shall be protected by a barrier complying with Items 1 through 5.

210.3.2 **Indoor Swimming Pool.** For an indoor swimming pool, protection shall comply with the requirements of Section 210.3.1 Item 5

210.3.3 **Spas and Hot Tubs.** For a nonself-contained and self-contained spa or hot tub protection shall comply with the requirements of Section 210.3.1

EXCEPTION: A self-contained spa or hot tub equipped with a listed safety cover shall be exempt from the requirements of Section 210.3.1

210.3.4 Where a window faces a swimming pool enclosure, said window shall be equipped with a screwed in place wire mesh screen, a keyed lock that prevents opening the window more than 4" or a latching device located not less than 54" above the floor. Emergency escape or rescue windows in bedrooms which face swimming pool enclosures shall be equipped with a latching device located no less than 54" above the floor.

210.3.5 Protective enclosures shall be located at a minimum horizontal distance of 54" from any equipment, permanent structures, planters, or similar objects that could be used to climb the enclosure. This provision shall not apply to the area between the pool and the protective enclosure if the protective enclosure is a solid wall with no openings.

SECTION 211. RESIDENTIAL WOODBURING REGULATIONS

211.1 FIREPLACE RESTRICTIONS

211.1.1 Purpose

The purpose of this subsection is to regulate fireplaces, wood stoves, or other solid-fuel burning devices to reduce the amount of air pollution caused by particulate matter and carbon monoxide.

211.1.2 Applicability

The Residential Woodburning Restriction Ordinance applies to any residential wood burning device in sections of Area A that are within Maricopa County or within incorporated cities and towns in such sections.

AREA A – As defined in Arizona Revised Statues (ARS) §49-541(1), the area in Maricopa County delineated as follows:

Township 8 North, Range 2 East and Range 3 East
Township 7 North, Range 2 West through Range 5 East
Township 6 North, Range 5 West through Range 6 East
Township 5 North, Range 5 West through Range 7 East
Township 4 North, Range 5 West through Range 8 East
Township 3 North, Range 5 West through Range 8 East
Township 2 North, Range 5 West through Range 8 East
Township 1 North, Range 5 West through Range 7 East
Township 1 South Range 5 West through Range 7 East
Township 2 South, Range 5 West through Range 7 East
Township 3 South Range 5 West through Range 1 East
Township 4 South Range 5 West Through Range 1 East

211.1.3 Effective Date

The effective date of the regulations and prohibitions set forth this subsection shall be December 31, 1998.

211.1.4 Definitions

For purposes of this subsection, the following words and terms shall be defined as follows:

FIREPLACE means a built in place masonry hearth and fire chamber of a factory-built appliance, designed to burn solid fuel or to accommodate gas or electric log insert or similar device, and which is intended for occasional recreational or aesthetic use, not for cooking, heating, or industrial processes.

SOLID FUEL includes but is not limited to wood, coal, or other nongaseous or nonliquid fuels, including those fuels defined by the Maricopa County Air Pollution Control Officer as "inappropriate fuel" to burn in residential wood-burning devices.

WOOD STOVE means a solid-fuel burning heating appliance, including a pellet stove, which is either freestanding or designed to be inserted into a fireplace.

211.1.5 Installation Restrictions

(a) On or after December 31, 1998, no person, firm or corporation shall construct or install a fireplace or a wood stove, and the Building Official shall not approve or issue a permit to construct or install a fireplace or a wood stove, unless the fireplace or wood stove complies with one of the following:

~~1. A fireplace which has a permanently installed gas or electric log insert.~~

2. A fireplace, wood stove or other solid fuel burning appliance which has been certified by the United States Environmental Protection Agency as conforming to 40 Code of Federal Regulations Part 60, Subpart AAA as in effect on July 1, 1990.
3. A fireplace, wood stove or other solid fuel burning appliance which has been tested and listed by a nationally recognized testing agency to meet performance standards, equivalent to those adopted by 40 Code of Federal Regulations Part 60, Subpart AAA as in effect on July 1, 1990.
4. A fireplace, wood stove or other solid fuel burning appliance which has been determined by the Maricopa County Air Pollution Control Officer to meet performance standards equivalent to those adopted by 40 Code of Federal Regulations Part 60, Subpart AAA as in effect on July 1, 1990.
5. A fireplace which has a permanently installed wood stove insert which complies with subparagraphs 2, 3, or 4 above.

(b) The following installations are not regulated by this Article and are not prohibited by this Article:

1. Furnaces, boilers, incinerators, kilns, and other similar space heating or industrial process equipment.
2. Cook stoves, barbecue grills, and similar appliances designed primarily for cooking.
3. Fire pits, barbecue grills, and other outdoor fireplaces.

211.1.6 Fireplace or Wood Stove Alterations Prohibited

(a) On or after December 31, 1998 no person, firm or corporation shall alter or remove a gas or electric log insert or a wood stove insert from a fireplace for purposes of converting the fireplace to directly burn wood or other solid fuel.

(b) On or after December 31, 1998 no person, firm or corporation shall alter a fireplace, wood stove or other solid fuel burning appliance in any manner that would void its certification or operational compliance with the provisions of this subsection.

1. Provides the sole or primary source of heat or fuel for cooking for a residence.
2. Meets performance standards for new residential wood heaters manufactured on or after July 1, 1990, or sold at retail on or after July 1, 1992, as prescribed by 40 Code of Federal Regulations Part 60, Subpart AAA.
3. Burns gaseous fuels, including gas logs.
4. Meets rules adopted by the Board of Supervisors as prescribed in ARS § 49-479 for burning wood in approved appliances.

211.1.~~7~~6 Permits Required

In addition to the provisions and restrictions of this subsection, construction, installation or alteration of all fireplaces, wood stoves and gas, electric or solid-fuel burning appliances and equipment shall be done in compliance with provisions of the County Building Code and shall be subject to the permits and inspections required by the County Building Code.

MARICOPA COUNTY LOCAL ADDITIONS & ADDENDA

Chapter 3 – Adoption of National Codes

~~SECTION 301. 2009 INTERNATIONAL BUILDING CODE~~

The 2009 International Building Code has been adopted as the building code for Maricopa County along with the following M.A.G. amendments:

Amendments to the 2009 International Building Code:

Revise the following Sections to read:

109.4 Work commencing before permit issuance. Any person who commences any work on a building, structure, electrical, gas, mechanical or plumbing system before obtaining the necessary *permits* shall be subject to a fee established by the Building Official that shall be in addition to the required *permit fees.* Said fee to be the building permit fee doubled.

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

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

A facility such as the above with 10 or fewer persons shall be classified as a Group R-4 Condition 1 or shall comply with the *International Residential Code* in accordance with Section 101.2 where the building is in compliance with Section 424 of this code.

308.3 Group I-2. This occupancy shall include buildings and structures used for medical, surgical, psychiatric, nursing, custodial, personal or directed care on a 24-hour basis of more than five persons who are not capable of self-preservation by responding to an emergency situation without physical assistance from staff. This group shall include, but not be limited to the following:

Child care facilities
Hospitals
Nursing homes (both intermediate-care facilities and skilled nursing facilities)
~~Mental hospitals~~

~~Detoxification facilities~~

A facility such as the above with five or fewer persons shall be classified as Group R-3 or shall comply with the *International Residential Code* in accordance with Section 101.2.

This occupancy shall also include buildings and structures used for assisted living homes providing supervisory, personal, or directed care on a 24-hour basis of more than 10 persons who are not capable of self-preservation by responding to an emergency situation without physical assistance from staff. A facility such as the above with ten or fewer persons shall be classified as R-4 Condition 2.

310.1 R-4 Residential occupancies shall include buildings arranged for occupancy as residential care/assisted living homes including not more than 10 occupants, excluding staff.

310.1.1 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 1 facilities housing more than 10 persons shall be classified as a Group I-1.

310.1.2 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 without physical assistance from staff. Condition 2 facilities housing more than 10 persons shall be classified as Group I-2.

R-4 occupancies shall meet the requirements for construction as defined in Group R-3 except as otherwise provided for in this code, and Section 424 or shall comply with the *International Residential Code* in accordance with Section 101.2 where the building is in compliance with Section 424 of this code.

310.1 Definitions

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 the administration of medications and treatments.

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.~~

~~**Residential Care/Assisted Living Home.** A building or part thereof housing a maximum of 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 supervisory, personal, or directed services. This classification shall include, but not be limited to, the following: residential board and care facilities, assisted living homes, halfway houses, group homes, congregate care facilities, social rehabilitation facilities, alcohol and drug abuse centers and convalescent facilities.~~

424 Residential Care/Assisted Living Homes

424.1 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 cares services. Except as specifically required by this division, R-4 occupancies shall meet all applicable provisions of Group R-3.

424.2 General. Buildings or portions of buildings classified as R-4 occupancies shall meet all the applicable provisions of Group R-3, 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 2000 square feet above the first story except as provided in Section 506.

424.3 Special Provisions. R-4 occupancies having more than 2000 square feet of floor area above the first floor shall be of not less than one-hour fire-resistive construction throughout.

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

424.4 Access and Means of Egress Facilities.

424.4.1 Accessibility. R-4 occupancies shall be provided with at least one accessible route per the Arizonans with Disabilities Act. Sleeping rooms and associated toilets shall be accessible.

> Exception: Existing buildings shall comply with Section 3409. Bathing and toilet facilities need not be made accessible, but shall be provided with grab bars in accordance with ICC/ANSI A 117.1.

424.4.2 Exits

424.4.2.1 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 may~~ have one means of egress as provided in Chapter 10.

424.4.2.2 Distance to Exits. The maximum travel distance shall comply with Section 1014, except that the maximum travel distance from the center point of any sleeping room to an exit shall not exceed 75 feet.

424.4.2.3 Emergency Exit Illumination. In the 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 ICC Electric Code.

424.4.2.4 Emergency Escape and Rescue. R-4 occupancies shall comply with the requirements of Section 1029, except that Exception 1 to Section 1029.1 does not apply to R-4 occupancies.

424.4.2.5 Delayed Egress Locks. In R-4 Condition 2 occupancies, delayed egress locks shall be permitted in accordance with Sections 1008.1.4.4, and items 1, 2, 4, 5 and 6, or 1008.1.9.8.

424.4 Smoke Detectors and Sprinkler Systems

424.5.1 Smoke Alarms. All habitable rooms and hallways in R-4 occupancies shall be provided with smoke alarms installed in accordance with Section 907.2.11.

424.5.2 Sprinkler Systems. R-4 occupancies shall be provided with a sprinkler system installed in accordance with Section 903.3. Sprinkler systems installed under this Section shall be installed throughout, including attached garages, and in Condition 2 facilities shall include attics and 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 R-4 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.

Add new exception to **716.5.4**

Exceptions:

4. Such walls are penetrated by ducted HVAC systems, have a required fire-resistance rating of 1 hour or less and are in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.3.1 or 903.3.1.2. For the purposes of this exception, a ducted HVAC system shall be a duct system for conveying supply, return or exhaust air as part of the structure's HVAC system. Such a duct system shall be constructed of sheet steel not less than 26 gage thickness and shall be continuous from the air-handling appliance or ~~equipment to the air outlet and inlet terminals.~~

~~**Section 903.2.8, Group R:** An automatic sprinkler system installed in accordance with Section~~ 903.3 shall be provided throughout all buildings with a Group R fire area except one and two family dwellings.

Section 1008.1.2, Door Swing. Egress doors shall be side-hinged swinging.

Exceptions:

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

Add 1101.3 as follows:

1101.3 Other Regulations: In addition to the requirements of this code all structures and sites must comply with the "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). These regulations incorporate the federal "Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities". These requirements will apply to new construction and alterations and are not applicable in existing buildings or portions of existing buildings that do not meet the standards and specifications of these regulations. These regulations are hereby adopted and made a part hereof as though fully set forth in this section. Where these regulations differ from the requirements of Chapter 11 of the 2006 International Building Code, the stricter shall apply.

Revise as follows:

1210.2 Walls. Walls within 2 feet (10 mm) of service sinks, urinals and water closets shall have a smooth, hard, nonabsorbent surface, to a height of 4 feet (1219 mm) above the floor and except for structural elements, the materials used in such walls shall be of a type that is not adversely affected by moisture.

Chapter 13 Energy Efficiency is deleted in its entirety.

1503.4.4 Where Required. All roofs, paved areas, yards, courts and courtyards shall drain into a separate storm sewer system, or a combined sewer system, or to an approved place of disposal.

1503.4.5 Roof Design. Roofs shall be designed for the maximum possible depth of water that will pond thereon as determined by the relative levels of roof deck and overflow weirs, scuppers, edges or serviceable drains in combination with the deflected structural elements. In determining the maximum possible depth of water, all primary roof drainage means shall be ~~assumed to be blocked. Design shall be based on 6" rainfall in 1 hour.~~

~~**1503.4.6 Overflow Drainage Required.** Overflow (emergency) roof drains or scuppers shall~~ be provided where the roof perimeter construction extends above the roof in such a manner that water will be entrapped if the primary drains allow buildup for any reason.

1503.4.6.1 Separate Systems Required. Overflow roof drain systems shall have the end point of discharge separate from the primary system. Discharge shall be above grade, in a location, which would normally be observed by the building occupants or maintenance personnel.

1503.4.6.2 Overflow Drains and Scuppers. Where roof drains are required, overflow drains having the same size as the roof drains shall be installed with the inlet flow line located 2 inches (51mm) above the low point of the roof, or overflow scuppers having three times the size of the roof drains may be installed in the adjacent parapet walls. Scuppers shall be sized to prevent the depth of ponding water from exceeding that for which the roof was designed as determined by the plumbing code. Scuppers shall not have an opening dimension of less than 4 inches (102 mm). The flow through the primary system shall not be considered when sizing the secondary roof drain system.

Table 1607.1 Revise as follows:

OCCUPANCY OR USE	UNIFORM (PSF)	CONCENTRATED (LBS.)
27. Residential		
One- and two-family dwellings		
Uninhabitable attics with limited storage	40	
Habitable attics and sleeping areas	40	
(no other changes in item 27)		

Section 3109 Swimming Pool Enclosures is deleted.

SECTION 302. 2009 INTERNATIONAL RESIDENTIAL CODE

The 2009 International Residential Code has been adopted as the Residential Building Code for Maricopa County along with the following M.A.G. amendments.

~~**Amendments to the 2009 International Residential Code:**~~

~~Revise Table R 301.5 as follows:~~

Use	Live Load
Attics with limited storage [b,g]	40
Habitable attics and attics served with fixed stairs	40
Sleeping rooms	40

No other changes to table

Section R313 Automatic fire sprinkler systems is deleted

Chapter 11 Energy Efficiency is deleted in it entirety.

M1307.7 Liquefied Petroleum Appliances. LPG appliances shall not be installed in an attic, pit or other location that would cause a ponding or retention of gas.

M1503.1 General. Range hoods shall discharge to the outdoors though 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. Changes in size or direction shall be accomplished with a pre-manufactured transition fitting. Ducts serving range hoods shall not terminate in an attic or crawl space or areas inside the building (no other changes)

G2406.2 Add new item 6 text after the exceptions as follows:

6. Liquefied Petroleum Appliances. LPG appliances shall not be installed in an attic, pit or other location that would cause a ponding or retention of gas.

G2415.10 (404.9) 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 (457 mm) for plastic piping.

SECTION G2415.10.1 Outside appliances is deleted

SECTION P2803.6.1 Requirements for discharge piping. The discharge piping serving a pressure relief valve, temperature relief valve or combination thereof shall:

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 that 12 inches (305mm)~~ above grade.

3. Not be smaller that 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 that 6 inches (152mm) 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 P2904 DWELLING UNIT FIRE SPRINKLER SYSTEMS is deleted.

SECTION 303. 2009 INTERNATIONAL MECHANICAL CODE

The 2009 International Mechanical Code has been adopted as the Mechanical Code for Maricopa County with one amendment to delete Section 301.2.

SECTION 304. 2009 INTERNATIONAL PLUMBING CODE

The 2009 International Plumbing Code has been adopted as the plumbing code for Maricopa County with two amendments.

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

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 that 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 as to flow by gravity.
10. Not terminate more than 6 inches (152mm) 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 6-5-.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.

904.1 Roof extension All open vent pipes that extend through a roof shall be terminated at least six inches (152mm) above the roof, except that where a roof is to be used for any purpose other than weather protection, the vent extensions shall be run at least 7 feet (2134mm) above the roof.

SECTION 305. 2008 NATIONAL ELECTRICAL CODE

The 2008 National Electrical Code has been adopted as the electrical code for Maricopa County along with the following M.A.G. amendments.

Revise the following sections to read:

210-8. Ground-Fault Circuit-Interrupter Protection for Personnel

FPN: See 215.9 for ground-fault circuit-interrupter protection for personnel on feeders.

(A) All Occupancies. All 125-volt, single-phase, 15 and 20-ampere receptacles installed in the locations specified in (1) through (9) shall have ground-fault circuit-interrupter protection for personnel.

1. Bathrooms
2. Garages, and also accessory buildings that have a floor located at or below grade level not intended as habitable rooms and limited to storage areas, work areas and areas of similar use.
3. ~~Outdoors~~

~~Exception No. 1 to (3): Receptacles that are not readily accessible and are supplied by a~~ dedicated branch circuit for electric snow-melting or deicing equipment shall be permitted to be installed in accordance with 426.28.

Exception No. 2 to (3): In industrial establishments only, where the conditions of maintenance and supervision ensure that only qualified personnel are involved, an assured equipment grounding conductor program as specified in 590.6(B)(2) shall be permitted for only those receptacle outlets used to supply equipment that would create a greater hazard if power is interrupted or having a design that is not compatible with GFCI protection.

4. Crawl Spaces – at or below grade level

5. Unfinished basements – for purposes of this section, unfinished basements are defined as portions or areas of the basement not intended as habitable rooms and limited to storage areas, work areas, and the like.

Exception to (5): A receptacle supplying only a permanently installed fire alarm or burglar alarm system shall not be required to have ground-fault circuit-interrupter protection.

FPN: See 760.41(B) and 760.121(B) for power supply requirements for fire alarm systems.

Receptacles installed under the exception to 210.8(A)(5) shall not be considered as meeting the requirements of 210.52(G).

6. Kitchens –
   (a) Dwelling units – where the receptacles are installed to serve countertop surfaces
   (b) Other that dwelling units – all locations

7. Sinks – where the receptacle are installed within 1.8m (6 ft) of the outside edge of the sink.

Exception No. 1 to (7): In industrial laboratories, receptacles used to supply equipment where removal of power would introduce a greater hazard shall b e permitted to be installed without GFCI protection.

Exception No. 2 to (7): For receptacles located in patient care areas of health care facilities other than those covered under 210.8(A)(1), GFCI protection shall not be required.

8. Boathouses

9. Indoors:
   ~~(a) Damp locations~~

~~(b) Wet locations~~

(B) Boat Hoists. GFCI protection shall be provided for outlets not exceeding 240 volts that supply boat hoists installed in dwelling unit locations.

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:

FPN: For effective ground-fault current pate, see 250.2 Definition.

1. A copper, aluminum, or copper-clad aluminum 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.
2. Rigid metal conduit.
3. Intermediate metal conduit.
4. Electrical metallic tubing with an additional equipment grounding conductor.
5. Listed flexible metal conduit with an additional equipment grounding conductor, and meeting all the following conditions:
   a. The conduit is terminated in listed fittings.
   b. The combined length of flexible metal conduit and liquidtight flexible metal conduit in the same ground return path does not exceed 1.8 m (6ft) for feeders and 15 m (50ft) for branch circuits.
   c. The additional equipment grounding conductor is terminated at each termination or junction point.
6. Listed liquidtight flexible metal conduit meeting all the following conditions:
   a. The conduit is terminated in listed fittings.
   b. For metric designators 12 through 16 (trade sizes 3/8 through ½), the circuit conductors contained in the conduit are protected by overcurrent devices rated at 20 amperes or less.
   c. For metric designators 21 through 35 (trade sizes ¾ through 11/4), the circuit conductors contained in the conduit are protected of 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 ½) in the grounding path.
   d. 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 (6ft).
   e. Where used to connect equipment where flexibility is necessary after installation, an equipment grounding conductor shall be installed.
7. Listed liquidtight flexible metal conduit with an additional equipment grounding ~~conductor and meeting all of the following conditions:~~

~~a. The conduit is terminated in listed fittings.~~

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

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

8. Flexible metallic tubing where the tubing is terminated in listed fittings and meeting the following conditions:

   a. The circuit conductors contained in the tubing are protected by overcurrent devices rated at 20 amperes or less.

   b. 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 (6ft).

9. Armor of Type AC cable with an additional equipment grounding conductor and as provided in 320.108.
10. The copper sheath of mineral-insulated, metal-sheathed cable.
11. Type MC cable where listed and identified for grounding in accordance with the following:

    a. The combined metallic sheath and grounding conductor of interlocked metal tape-type MC cable.

    b. The metallic sheath or the combined metallic sheath and grounding conductors of the smooth or corrugated tube-type MC cable.

12. Cable trays as permitted in 392.3 and 392.7.
13. Cablebus framework as permitted in 370.3.
14. Other listed electrically continuous metal raceways and listed auxiliary gutters.
15. Surface metal raceways listed for grounding.

334.10 Uses Permitted. Type NM, Type NMC and Type NMS cables shall be permitted to be used in the following:

1. One-and two-family dwellings.
2. Multifamily dwellings permitted to be of Types III, IV, and V construction
3. Other dwelling unit accessory buildings and structures in accordance with 334.10 (1) and (2).

   FPN No. 1: Types of building construction and occupancy classifications are defined in NFPA 220-2006, *Standard on Types of Building Construction*, or the applicable building code, or both.

   FPN No. 2: See Annex E for determination of building types [NFPA 220, Table 3-1].

4. Cable trays in structures permitted to be Types III, IV, or V where the cables are ~~identified for the use.~~

~~FPN: See 310.10 for temperature limitation of conductors.~~

(A) Type NM. Type NM cable shall be permitted as follows:
1. For both exposed and concealed work in normally dry locations.
2. To be installed or fished in air voids in masonry block or tile walls.

(B) Type NMC. Type NMC cable shall be permitted as follows:
1. For both exposed and concealed work in dry, moist, damp, or corrosive locations.
2. In outside and inside walls of masonry block or tile.
3. In a shallow chase in masonry, concrete, or adobe protected against nails or screws by a steel plate at least 1.59 mm (1/16 in.) thick and covered with plaster, adobe, or similar finish.

(C) Type NMS. Type NMS cable shall be permitted as follows:
1. For both exposed and concealed work in normally dry locations.
2. To be installed or fished in air voids in masonry block or tile walls.

334.12 Uses Not Permitted.

(A) Types NM, NMC, and NMS. Types NM, NMC, and NMS cables shall not be permitted as follows:
1. In any dwelling or structure not specifically permitted in 334.10 (1), (2), and (3).
2. As service-entrance cable.
3. In hoistways or on elevators or escalators.
4. Embedded in poured cement, concrete, or aggregate.

(B) Types NM and NMS. Types NM and NMS cables shall not be used under the following conditions or in the following locations:
1. Where exposed to corrosive fumes or vapors.
2. Where embedded in masonry, concrete, adobe, fill or plaster.
3. In a shallow chase in masonry, concrete or adobe and covered with plaster, adobe or similar finish.
4. In wet or damp locations.

SECTION 306. 2003 INTERNATIONAL FIRE CODE

The 2003 International Fire Code has been adopted as the Fire Code only for properties owned by Maricopa County, regardless of the jurisdiction within which the property lies, along with ~~the following amendments:~~

~~AMENDMENTS TO THE 2003 INTERNATIONAL FIRE CODE~~

Delete all references to the International Existing Building Code from sections 102.3, 102.4, 102.5 and any other sections.

Revise section 104.6 to read:
104.6 Official Records. The fire code official shall keep official records as required by Sections 104.6.1 through 104.6.4. Such official records shall be retained for not less than ninety (90) days after final occupancy approval, unless otherwise provided by other regulations.

Delete Section 105 Permits.

Delete Section 107 Maintenance.

Delete Section 109.3 Violation Penalties.

Delete all Appendices A through G.

SECTION 307. 2009 INTERNATIONAL FUEL GAS CODE

The 2009 International Fuel Gas Code has been adopted as the Fuel Gas Code for Maricopa County with one amendment to delete sections 301.2 and 404.9.1, and one revision as follows:

404.9 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.

THE REMAINING PAGES ARE THE NEW TEXT FOR CHAPTER 3.

MARICOPA COUNTY LOCAL ADDITIONS & ADDENDA

Chapter 3 – Adoption of National Codes

SECTION 301. 2012 INTERNATIONAL BUILDING CODE

The 2012 International Building Code has been adopted as the building code for Maricopa County along with the following amendments:

Amendments to the 2012 International Building Code:

Adopt Appendix G Flood-Resistant Construction

Revise the following Sections to read:

109.4 Work commencing before permit issuance. Any person who commences any work on a building, structure, electrical, gas, mechanical or plumbing system before obtaining the necessary *permits* shall be subject to a fee established by the Building Official that shall be in addition to the required *permit fees*. Said fee to be the building permit fee doubled.

SECTION 202 DEFINITIONS.

PERSONAL CARE SERVICE is 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.

SUPERVISORY CARE SERVICE is general supervision, including daily awareness of resident functioning and continuing needs.

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

ASSISTED LIVING FACILITY is 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 CENTER is an assisted living facility that provides resident rooms to eleven or more residents.

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

INSTITUTIONAL GROUP I

308.3 Institutional Group I-1. This occupancy shall include buildings, structures or portions thereof for more than 10 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

308.3.2 Six to Ten Persons Receiving Care. A facility such as above, housing not fewer than six and not more than 10 persons receiving such care, shall be classified as Group R-4, except as provided for assisted living homes.

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 310.2 DEFINITIONS. The following terms are defined in Chapter 2:

ASSISTED LIVING FACILITY

ASSISTED LIVING CENTER

ASSISTED LIVING HOME

BOARDING HOUSE

CONGREGATE LIVING FACILITIES

DIRECTED CARE SERVICES

DORMITORY

GROUP HOME

PERSONAL CARE SERVICE

SUPERVISORY CARE SERVICES

TRANSIENT

310.5.1 Care facilities with 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.

310.6 Residential Group R-4. This occupancy shall include buildings, structures or portions thereof for more than five but not more than 10 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 1 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.

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.

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 903.2.8 Group R: An automatic sprinkler system installed in accordance with Section 903.3 shall be provided throughout all buildings with a Group R fire area except one and two family dwellings.

Section 1008.1.2 Door Swing. Egress doors shall be side-hinged swinging.

Exceptions:

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

Add 1101.3 as follows:

1101.3 Other Regulations: In addition to the requirements of this code all structures and sites must comply with the "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). These regulations incorporate the federal "Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities". These requirements will apply to new construction and alterations and are not applicable in existing buildings or portions of existing buildings that do not meet the standards and specifications of these regulations. These regulations are hereby adopted and made a part hereof as though fully set forth in this section. Where these regulations differ from the requirements of Chapter 11 of the 2012 International Building Code, the stricter shall apply.

Revise as follows:

1210.2 Walls. Walls within 2 feet (10 mm) of service sinks, urinals and water closets shall have a smooth, hard, nonabsorbent surface, to a height of 4 feet (1219 mm) above the floor and except for structural elements, the materials used in such walls shall be of a type that is not adversely affected by moisture.

1503.4.4 Where Required. All roofs, paved areas, yards, courts and courtyards shall drain into a separate storm sewer system, or a combined sewer system, or to an approved place of disposal.

1503.4.5 Roof Design. Roofs shall be designed for the maximum possible depth of water that will pond thereon as determined by the relative levels of roof deck and overflow weirs, scuppers, edges or serviceable drains in combination with the deflected structural elements. In determining the maximum possible depth of water, all primary roof drainage means shall be assumed to be blocked. Design shall be based on 6" rainfall in 1 hour.

1503.4.6 Overflow Drainage Required. Overflow (emergency) roof drains or scuppers shall be provided where the roof perimeter construction extends above the roof in such a manner that water will be entrapped if the primary drains allow buildup for any reason.

1503.4.6.1 Separate Systems Required. Overflow roof drain systems shall have the end point of discharge separate from the primary system. Discharge shall be above grade, in a location, which would normally be observed by the building occupants or maintenance personnel.

1503.4.6.2 Overflow Drains and Scuppers. Where roof drains are required, overflow drains having the same size as the roof drains shall be installed with the inlet flow line located 2 inches (51mm) above the low point of the roof, or overflow scuppers having three times the size of the roof drains may be installed in the adjacent parapet walls. Scuppers shall be sized to prevent the depth of ponding water from exceeding that for which the roof was designed as determined by the plumbing code. Scuppers shall not have an opening dimension of less than 4 inches (102 mm). The flow through the primary system shall not be considered when sizing the secondary roof drain system.

Table 1607.1 Revise as follows:

OCCUPANCY OR USE	UNIFORM (PSF)	CONCENTRATED (LBS.)
25. Residential One- and two-family dwellings Uninhabitable attics with limited storage Habitable attics and sleeping areas (no other changes in item 25)	 40 40	

Section 3109 Swimming Pool Enclosures is deleted.

SECTION 302. 2012 INTERNATIONAL RESIDENTIAL CODE

The 2012 International Residential Code has been adopted as the Residential Building Code for Maricopa County along with the following amendments.

Amendments to the 2012 International Residential Code:

Revise Table R 301.5 as follows:

Use	Live Load
Attics with limited storage [b,g]	40
Habitable attics and attics served with fixed stairs	40
Sleeping rooms	40

No other changes to table

Section R313 Automatic fire sprinkler systems is deleted.

M1307.7 Liquefied Petroleum Appliances. LPG appliances shall not be installed in an attic, pit or other location that would cause a ponding or retention of gas.

M1503.1 General. Range hoods shall discharge to the outdoors though 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 a pre-manufactured transition fitting. Ducts serving range hoods shall not terminate in an attic or crawl space or areas inside the building.

G2406.2 Add new item 6 text after the exceptions as follows:

6. Liquefied Petroleum Appliances. LPG appliances shall not be installed in an attic, pit or other location that would cause a ponding or retention of gas.

G2415.12 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 (457 mm) for plastic piping.

SECTION G2415.12.1 Individual Outside appliances is deleted

SECTION P2803.6.1 Requirements for discharge piping. The discharge piping serving a pressure relief valve, temperature relief valve or combination thereof shall:

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 that 12 inches (305mm) above grade.
3. Not be smaller that 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 that 6 inches (152mm) 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 P2904 DWELLING UNIT FIRE SPRINKLER SYSTEMS is deleted.

SECTION 303. 2012 INTERNATIONAL MECHANICAL CODE

The 2012 International Mechanical Code has been adopted as the Mechanical Code for Maricopa County along with the following amendments.

Amendments to the 2012 International Mechanical Code:

Revise the following sections to read:

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.

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 304. 2012 INTERNATIONAL PLUMBING CODE

The 2012 International Plumbing Code has been adopted as the plumbing code for Maricopa County along with the following amendments.

Amendments to the 2012 International Plumbing Code:

Add to Section 405.3.1:

Exception: Side clearances for accessible or ambulatory water closets shall comply with ICC/ANSI A117.1.

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

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 that 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 as to flow by gravity.
10. Not terminate more than 6 inches (152mm) 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 6-5-.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.

Add to Section 904.1:

All open vent pipes that extend through a roof shall be terminated at least six inches (152mm) above the roof, except that where a roof is to be used for any purpose other than weather protection, the vent extensions shall be run at least 7 feet (2134mm) above the roof.

SECTION 305. 2011 NATIONAL ELECTRICAL CODE

The 2011 National Electrical Code has been adopted as the electrical code for Maricopa County along with the following amendments.

Revise the following sections to read:

ARTICLE 210 – Branch Circuits

Section 210.8 Ground-Fault Circuit-Interrupter Protection for Personnel

(B) Other Than Dwelling Units. All 125-volt, single-phase, 15- and 20-ampere receptacles installed in the locations specified in 210.8(B)(1) through (8) shall have ground-fault circuit-interrupter protection for personnel.

(6) Indoor damp and wet locations.

ARTICLE 250 – Grounding and Bonding

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:

(1) A copper, aluminum or copper-clad aluminum 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.

(2) Rigid metal conduit.

(3) Intermediate metal conduit.

(4) Electric metallic tubing with an additional equipment grounding conductor.

(5) Listed flexible metal conduit meeting all the following conditions:

a. The conduit is terminated in listed fittings.

b. The circuit conductors contained in the conduit are protected by overcurrent devices rated at 20 amperes or less.

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

d. If used to connect equipment where flexibility is necessary to minimize the transmission of vibration from equipment or to provide flexibility for equipment that requires movement after installation, an equipment grounding conductor shall be installed.

(6) Listed liquidtight flexible metal conduit meeting all the following conditions:

a. The conduit is terminated in listed fittings.

b. 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.

c. 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 metal tubing, or liquidtight flexible metal conduit in trade sizes metric designators 12 through 16 (trade sizes 3/8 through 1/2) in the ground-fault current path.

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

e. If used to connect equipment where flexibility is necessary to minimize the transmission of vibration from equipment or to provide flexibility for equipment that requires movement after installation, an equipment grounding conductor shall be installed.

(7) Flexible metallic tubing where the tubing is terminated in listed fittings and meeting the following conditions:

a. The circuit conductors contained in the tubing are protected by overcurrent devices rated at 20 amperes or less.

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

(8) Armor of Type AC cable as provided in 320.108.

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

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

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

b. 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.

c. 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.

(11) Cable trays as permitted in 392.10 and 392.60.

(12) Cablebus framework as permitted in 370.3

(13) Other listed electrically continuous metal raceways and listed auxiliary gutters.

(14) Surface metal raceways listed for grounding.

ARTICLE 334 – Nonmetallic-Sheathed Cable; Types NM, NMC and NMS

II. Installation

334.10 Uses Permitted. Type NM, Type NMC and Type NMS cables shall be permitted to be used in the following:

(1) One- and two- family dwellings and their attached or detached garages, and their storage buildings.

(2) Multifamily dwellings permitted to be of Types III, IV and V construction except as prohibited in 334.12.

(3) Other dwelling unit accessory buildings and structures in accordance with 334.10(1) and 334.10 (2) and other provisions of this Code.

(4) Cable trays in structures permitted to be Types III, IV or V in accordance with 334.10(1) and (2) where the cables are identified for the use.

(5) Types I and II construction in accordance with 334.10(1) and (2) where installed within raceways permitted to be installed in Types I and II construction.

(A) Type NM. Type NM cable shall be permitted as follows:

(1) For both exposed and concealed work in normally dry locations.

(2) To be installed or fished in air voids in masonry block or tile walls.

(B) Type NMC. Type NMC cable shall be permitted as follows:

(1) For both exposed and concealed work in dry, moist, damp or corrosive locations.

(2) In outside and inside walls of masonry block or tile.

(3) In a shallow chase in masonry, concrete or adobe protected against nails or screws by a steel plate at least 1.59 mm (1/16 in.) thick and covered with plaster, adobe or similar finish.

C) Type NMS. Type NMS cable shall be permitted as follows:

(1) For both exposed and concealed work in normally dry locations.

(2) To be installed or fished in air voids in masonry block or tile walls.

334.12 Uses Not Permitted.

(A) Types NM, NMC and NMS. Type NM, Type NMC and Type NMS cables shall not be permitted as follows:

(1) In any dwelling or structure not specifically permitted in 334.10(1), (2) and (3).

(2) As service-entrance cable.

(3) In hoistways or on elevators or escalators

(4) Embedded in poured cement, concrete or aggregate.

(B) Types NM and NMS. Types NM and NMS cables shall not be used under the following conditions or in the following locations:

(1) Where exposed to corrosive fumes or vapors.

(2) Where embedded in masonry, concrete, adobe, fill or plaster.

(3) In a shallow chase in masonry, concrete or adobe and covered with plaster, adobe or similar finish.

(4) In wet or damp locations.

SECTION 306. 2003 INTERNATIONAL FIRE CODE

The 2003 International Fire Code has been adopted as the Fire Code only for properties owned by Maricopa County, regardless of the jurisdiction within which the property lies, along with the following amendments:

AMENDMENTS TO THE 2003 INTERNATIONAL FIRE CODE:

Delete all references to the International Existing Building Code from sections 102.3, 102.4, 102.5 and any other sections.

Revise section 104.6 to read:
104.6 Official Records. The fire code official shall keep official records as required by Sections 104.6.1 through 104.6.4. Such official records shall be retained for not less than ninety (90) days after final occupancy approval, unless otherwise provided by other regulations.

Delete Section 105 Permits.

Delete Section 107 Maintenance.

Delete Section 109.3 Violation Penalties.

Delete all Appendices A through G.

SECTION 307. 2012 INTERNATIONAL FUEL GAS CODE

The 2012 International Fuel Gas Code has been adopted as the Fuel Gas Code for Maricopa County with one amendment to delete sections 301.2 and 404.11.1, and one revision as follows:

404.12 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.

Delete Section 404.12.1

SECTION 308. 2012 INTERNATIONAL GREEN CONSTRUCTION CODE

The 2012 International Green Construction Code has been adopted as the Green Construction Code for Maricopa County along with the following amendments:

Amendments to the 2012 International Green Construction Code:

Revise the following sections to read:

SECTION 101 GENERAL

[A] 101.1 Title.
These regulations shall be known as the Maricopa County Green Construction Code hereinafter referred to as "this code."

101.2 General.
The use of this code is optional, unless specifically required through ordinance by Maricopa County. This code is an overlay document to be used in conjunction with the other codes and standards adopted by the jurisdiction. This code is not intended to be used as a standalone construction regulation document and permits are not to be issued under this code. This code is not intended to abridge or supersede safety, health or environmental requirements under other applicable codes or ordinances.

TABLE 302.1
REQUIREMENTS DETERMINED BY THE JURISDICTION

Section	Section Title of Description and Directives	Jurisdictional Requirements	
CHAPTER 1. SCOPE			
101.3 Exception 1.1	Detached one- and two-family dwellings and multiple single-family dwellings (townhouses) not more than three stories in height above grade plane with a separate means of egress, their accessory structures, and the site or lot upon which these buildings are located, shall comply with ICC 700.	**Yes**	
101.3 Exception 1.2	Group R-3 residential buildings, their accessory structures, and the site or lot upon which these buildings are located, shall comply with ICC 700.	**Yes**	
101.3 Exception 1.3	Group R-2 and R-4 residential buildings four stories or less in height above grade plane, their accessory structures, and the site or lot upon which these buildings are located, shall comply with ICC 700.	**Yes**	
CHAPTER 4. SITE DEVELOPMENT AND LAND USE			
402.2.1	Flood hazard area preservation, general		**No**
402.2.2	Flood hazard area preservation, specific		**No**
402.3	Surface water protection		**No**
402.5	Conservation area	**Yes**	

402.7	Agricultural land	**Yes**	
402.8	Greenfield sites	**Yes**	
407.4.1	High-occupancy vehicle parking	**Yes**	
407.4.2	Low-emissions, hybrid and electric vehicle parking	**Yes**	
409.1	Light pollution control	**Yes**	
CHAPTER 5. MATERIAL RESOURCE CONSERVATION AND EFFICIENCY			
503.1	Minimum percentage of waste material diverted from landfills.	**50%**	
CHAPTER 6. ENERGY CONSERVATION, EFFICIENCY AND CO2e EMISSIONS REDUCTION			
302.1, 302.1.1, 602.1	zEPI of Jurisdictional Choice . The jurisdiction shall indicate a zEPI of 46 or less in each occupancy for which it intends to require enhanced energy performance.	Occupancy: _____ zEPI: _____	
604.1	Automated demand response infrastructure		**No**
CHAPTER 7. WATER RESOURCES CONSERVATION, QUALITY AND EFFICIENCY			
702.7	Municipal reclaimed water		**No**
CHAPTER 8. INDOOR ENVIRONMENT QUALITY AND COMFORT			
804.2	Post-Construction Pre-Occupancy Baseline IAQ Testing		**No**
807.1	Sound transmission and sound levels	**Yes**	
CHAPTER 10. EXISTING BUILDINGS			
1007.2	Evaluation of existing buildings	**Yes**	
1007.3	Post Certificate of Occupancy zEPI, energy demand and CO2e emissions reporting		**No**

SECTION 309. 2012 INTERNATIONAL ENERGY CONSERVATION CODE

The 2012 International Energy Conservation Code has been adopted as the Energy Conservation Code for Maricopa County along with the following amendments:

Amendments to the 2012 International Energy Conservation Code:

Revise the following sections to read:

C101.2 Scope. This code applies to commercial buildings and the building sites and associated systems and equipment. 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.

R101.2 Scope. This code applies to residential buildings and the building sites and associated systems and equipment. Group R-2 when defined as a Residential Building by Section R202, shall have the option of complying under the Commercial Provisions of the code, regardless of height. Once defined as such on the submittal documents, all components of the Commercial Provisions shall be followed.

Add Section R102.1.2

R102.1.2 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 R402.4.1.1, R402.4.1.2 and R403.2.2 and shall meet the following conditions:

1. 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.
2. 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.
3. Third Party Testing is required for the following items:
    a. R402.4.1.1 – Building Envelope – Thermal and Air Barrier Checklist
    b. R402.4.1.2 – Testing – Air Leakage Rate
    c. R403.2.2 – Sealing – Duct Tightness
4. The other requirements identified as "mandatory" in Chapter 4 shall be met.
5. Alternate testing and inspection programs and protocols shall be allowed when approved by the Code Official.

Add Section R401.2.1

R401.2.1 Alternative Approach for Compliance. A Home Energy Rating System ("HERS") Index of 70 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.

Delete Section R403.9.3 and replace with:

R403.9.3 Motors with a total horsepower of one or more for pools and in-ground permanently installed spas shall have the capability of operating at two or more speeds with a low speed having a rotation rate that is no more than one-half of the motor's maximum

rotation rate and shall be operated with a pump control with the capability of operating the pump at two or more speeds. Residential pool pump motor controls that are sold for use with a two or more speed motor shall have a default circulation speed setting no more than one-half of the motor's maximum rotation rate. Any high speed override capability shall be for a temporary period not to exceed one twenty-four hour cycle without resetting to the default setting.

SECTION 310. 2012 INTERNATIONAL EXISTING BUILDING CODE

The 2012 International Existing Building Code has been adopted as the Existing Building Code for Maricopa County with no amendments.

ORIGINAL STAFF REPORT POSTED TO THE EROP WEBSITE ON APRIL 16, 2013

MARICOPA COUNTY
Planning & Development Department
AGENDA

SPECIAL MEETING OF THE MARICOPA COUNTY BUILDING CODE ADVISORY BOARD, TUESDAY, APRIL 30, 2013, AT 2:00 P.M. IN THE DEPARTMENT OF PLANNING AND DEVELOPMENT GOLD CONFERENCE ROOM, 501 NORTH 44TH STREET, 1st FLOOR, PHOENIX. All items on this agenda are for Board action unless otherwise noted.

Maricopa County has an aggressive strategy to provide accessibility for all citizens to these programs, activities and services, as required by the American with Disabilities Act (ADA). Accommodations for Individuals with Disabilities alternative format materials, sign language interpretation, and assistive listening devices are available upon 72 hours' advance notice through the Office of the Clerk of the Board, 301 West Jefferson Avenue, Tenth Floor, Phoenix, Arizona 85003, 602-506-3766, Fax 602-506-6402, TTY 506-2000 and on the internet at http://www.maricopa.gov/agendas/default.asp. To the extent possible, additional reasonable accommodations will be made available within the time constraints of the request.

CALL TO ORDER BY THE CHAIRMAN

ROLL CALL

APPROVAL OF THE MINUTES OF THE REGULAR MEETING OF
April 9, 2013

REPORT OF COMMITTEES
None

UNFINISHED BUSINESS
None

NEW BUSINESS

1. 2012 ICC Code Adoptions – 2013 Maricopa County Local Additions and Addenda

OTHER BUSINESS

NEXT REGULAR MEETING
July 9, 2013

ADJOURNMENT

Maricopa County
Planning & Development Department

Tom Ewers
Plan Review Manager
501 N. 44th St., Suite 200
Phoenix, Arizona 85008
Phone: (602) 506-7145
www.maricopa.gov/planning

TO: BUILDING CODE ADVISORY BOARD
FROM: TOM EWERS, PLAN REVIEW DIVISION MANAGER
DATE: April 11, 2013
RE: April 30, 2013 BCAB MEETING

Approval of Minutes:

At your April 30, 2013 meeting please approve the attached minutes of your April 9, 2013 meeting.

New Business:

1. **2012 ICC Code Adoption – 2013 Maricopa County Local Additions and Addenda**

   Attached please find the 2013 Maricopa County Local Additions and Addenda which we use to adopt and amend the following International Codes:

   2012 International Building Code
   2012 International Residential Code
   2012 International Mechanical Code
   2012 International Plumbing Code
   2011 National Electrical Code
   2003 International Fire Code
   2012 International Fuel Gas Code
   2012 International Green Construction Code
   2012 International Energy Conservation Code
   2012 International Existing Building Code

   We had hoped to have new codebooks available for the BCAB members but we can't order them until we have a clear idea of exactly which codes will be adopted. Then we can do a bulk order for the BCAB and our plan review and inspections staff.

   In general the 2012 ICC Codes, and 2011 NEC Code, did not contain many actual changes, other than housekeeping changes to move all definitions to chapter two and not include related code language in every section, but just refer to the related code sections. This resulted in far fewer pages in each code book. The only big actual changes to the IBC and IRC are clarifications to wind load design, earthquake design and wall bracing.

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We are adding the Green Construction Code, Energy Conservation Code and Existing Building Code.

Similarly, the Local Additions and Addenda are not changing much other than to update the referenced code sections. We are still recommending adoption of the MAG/AZBO Amendments for the IBC, IRC, IMC, IPC and IFGC and the City of Phoenix Amendments for the NEC, IGCC , IECC and IEBC.

I will describe more specifically the changes to the Local Additions and Addends and the ICC/NEC Codes:

Cover Page:
1. Updated to March 2013.

Table of Contents:
1. Updated to reference the 2012 codes and add the IGCC, IECC and IEBC.

Chapter 1:
1. No Changes.

Chapter 2:
1. Removed the $75 fee for Expedited in-house plan review, since this is not a service we offer.
2. Section 209. Noise Level Reduction. Updated Zoning Ordinance reference from Section 1007 to 1010 to reflect a change made to the Zoning Ordinance.
3. Section 210.2 Definitions, Swimming Pool. Added "This does not include decorative fountains that contain water under 12" deep". Without this language, we were requiring pool barriers around fountains.
4. Section 211.1.5 of Residential Woodburning Regulations completely changed to match current Arizona Revised Statutes (ARS) for the four types of allowable fireplaces/wood stoves.

Chapter 3:
1. Section 301. Adopts and amends 2012 IBC and Appendix G Flood Resistance Construction. We don't usually adopt appendices, but this one is necessary to maintain our standing in the NFIP.
    a. Section 202 through Section 3109 are the MAG/AZBO amendments that did not change other than some slight editorial corrections. We are still exempting single family residences from fire sprinkler requirements.

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2. Section 302. Adopts and amends 2012 IRC. No changes other than some code section corrections. We are still exempting single family residences from fire sprinkler requirements.
3. Section 303. Adopts and amends 2012 IMC with new MAG/AZBO amendments for Domestic Systems and Standards.
4. Section 304. Adopts and amends 2012 IPC with new MAG/AZBO amendment for Water Closet clearances. Kept same MAG/AZBO amendments for Discharge Piping and Vent Through Roof.
5. Section 305. Adopts and amends 2011 NEC with the City of Phoenix Amendments, which haven't changed except for section number corrections to fit the new code.
6. Section 306. Adopts and amends 2003 IFC. No changes, still only applies to County owned buildings.
7. Section 307. Adopts and amends 2012 IFGC with same MAG/AZBO amendment for Burial Depth.
8. Section 308. Adopts and amends 2012 IGCC with City of Phoenix proposed amendments. Specifies that code is optional.
9. Section 309. Adopts and amends 2012 IECC with City of Phoenix and SRP proposed amendments for scoping and the RESNET testing and HERS ratings and pool motor requirements recommended by MAG/AZBO.
10. Section 310. Adopts 2012 IEBC with no amendments.

It is staff's recommendation that the BCAB recommend that the Maricopa County Planning and Zoning Commission and Board of Supervisors adopt the 2013 Maricopa County Local Additions and Addenda which adopts and amends the 2012 ICC codes and the 2011 NEC code.

BUILDING CODE ADVISORY BOARD
MEETING MINUTES

DATE: April 9, 2013
TIME: 2:00 p.m.

LOCATION: 501 North 44th Street, 1st Floor
Phoenix, AZ 85008

MEMBERS PRESENT:

Mr. Tracy Finley, Chairman
Mr. Vincent Territo, Vice Chairman
Mr. John Kight
Mr. Robert Ghan

STAFF PRESENT:

Tom Ewers, Plan Review Manager/Chief Building Official
Lynn Favour, Deputy Director
Ralph Shepard, Plan Review Supervisor
Debra Stark, Director
Valerie Beckett, Ombudsman
Kathy Semder, Administrative Assistant

PUBLIC PRESENT:

Gabriel Millican
Jackson Moll

ROLL CALL

Chairman Finley called the meeting to order at 2:01 p.m.

APPROVAL OF MINUTES

Chairman Finley asked if everyone looked at the minutes from the previous January 8, 2013 meeting and were there any comments. Member Kight made a motion to approve the minutes. Member Ghan seconded the motion. Motion passed unanimously.

REPORT OF COMMITTEES

None

UNFINISHED BUSINESS

None

NEW BUSINESS

2012 ICC Code Adoptions – 2013 Maricopa County Local Additions and Addenda

Mr. Ewers advised that Maricopa County is in the process of adopting the new I-Codes and updating our Local Additions and Addenda. There is a new hearing process, the Enhanced Regulatory Outreach Program (EROP); and part of that is to give the public more access to our processes and provide more public notice for meetings. Unfortunately this was not done so this meeting is for discussion purposes only and Mr. Ewers will ask Chairman Finley to set a Special Meeting for April 30, 2013, at 2:00 p.m. to take any action, if necessary.

Mr. Ewers explained we are looking at adopting the following International Codes:

2012 International Building Code
2012 International Residential Code
2012 International Mechanical Code
2012 International Plumbing Code
2011 National Electric Code
2003 International Fire Code
2012 International Fuel Gas Code
2012 International Green Construction Code
2012 International Energy Conservation Code
2012 International Existing Building Code

Mr. Ewers then stated that we will do a bulk order for code books for the BCAB Members as well as our Staff once we have a clear idea of which codes will be adopted. A letter from Sharon Bonesteel of SRP was handed out to the Members showing general support for the adoption of the 2012 IECC.

In general, the updates from 2009 to 2012 are mainly that all Definitions can now be found in Chapter 2 of each of the Codes and they stopped including one Code within another, instead they just make reference to the relevant Code. This has cut down the total number of pages considerably for the new Code books. The only other main changes are clarifications to wind load design, earthquake design and wall bracing, to reflect different language.

The Local Additions and Addenda, which is the vehicle for adopting these National Codes, is updating the referenced code sections and other minor changes which Mr. Ewers then detailed by Section and Chapter. Everything in Chapter 3 is new and Section 301 adopts and amends the 2012 IBC and Appendix G Flood Resistance Construction. Although we don't normally adopt appendices, Mr. Ewers explained this is necessary to maintain our membership in the National Flood Insurance Program (NFIP). The Arizona Building Officials (AZBO) proposes Code changes to the International Code Commission every cycle and when they are approved they no longer have to be a Local Amendment. When those changes are not accepted, we must use the Local Amendments. Mr. Ewers went on to list each of the Chapter 3 Sections which adopt and amend the new International Codes mentioned earlier in the meeting. In Section 309, Mr. Ewers explained the acronyms for the energy testing and ratings systems and that there is currently legislation pending that the State may change the HERS ratings, which we would then have to amend as well.

Chairman Finley then opened the meeting for discussion to the Members. Member Kight asked if Section 309 is optional, similar to Sections 308 and 310 to which Mr. Ewers replied no, it includes energy conservation measures for both residential and commercial structures. Member Kight then asked if we intend to convert the optional Codes to mandatory at some point and Mr. Ewers answered not at this time but we cannot predict what the Board may decide in the future.

Vice Chairman Territo stated that he thought 18 inches was the standard and Mr. Ewers explained that the pool definition states 18 inches depth in water and 8 feet wide. In response to Vice Chairman Territo asking about training for Section 308, Mr. Ewers advised that we will look into third party reports. Vice Chairman Territo made a recommendation to make the ICC's errata, which is a correction for errors, automatically accepted but Chairman Finley said we would bring it back to the BCAB for review first rather than having them automatically adopted. In Chapter 3, page 6, Vice Chairman Territo advised that Section 1101.3 has now been revised to the 2010 ADA Standards to which Mr. Ewers explained that our Local Additions and Addenda require that we comply to the ADA and Arizonans with Disabilities Act and he will further investigate Vice Chairman Territo's concern that the statutes are not up to date. Mr. Ewers also advised that we intentionally did not include a year in the Section 304, page 9 Exception to stay in compliance with state and federal regulations.

Member Ghan asked if the 2003 IFC applied to County owned properties in the City of Phoenix, where would an applicant with a commercial property fall under. Mr. Ewers responded they would reference the International Building Code which covers all the requirements for fire alarms and sprinklers. We don't adopt the Fire Code, other than specifically for County owned properties in the City of Phoenix due to an existing IGA, because we don't maintain any Fire Departments or equipment or water systems. Outside of the cities, you would have to meet the adopted Codes of the Fire jurisdiction that you're in, such as Daisy Mountain.

Chairman Finley asked for any additional discussion from the Board Members and then opened the meeting to the public. Jackson Moll, of the Homebuilders Association, is on the City of Phoenix Advisory Board and wanted to know if some items discussed in Phoenix regarding the Energy Conservation Code were brought up here as well. For example, the trade-off table created by the City of Phoenix for supply duct insulation where the requirements are now R-8 insulation but R-6 could be used if certain criteria were met to maintain the relative energy efficiency. Mr. Ewers advised he looked at what is currently before the City of Phoenix for proposals to adopt these National Codes and Amendments. Chairman Finley agreed that he didn't see the trade-off table included in the proposal and that it was adopted by MAG and AZBO which then rolled over to the City of Phoenix. Mr. Moll then mentioned a reference to the air-handler requirement. Mr. Moll also questioned if it is the same for the IRC and Mr. Ewers explained that for the IRC we use the same Amendments we had in the past and our Local Additions and Addenda. Mr. Moll further clarified a grandfathering situation for certain lots already under preliminary plan review prior to 2007 and having only a 3 foot setback. Mr. Ewers advised this was discussed during the 2009 Adoption phase because of the difference with 3 and 5 foot setbacks. In the County we have larger lots where it's not as much of an issue and we require fire rating within 5 feet of the property line. We previously changed our Zoning Code to allow no separation between principal and accessory structures as well as between accessory structures and also reduced setbacks in side and rear yards, but the IRC doesn't require fire rating on residential structures on the same lot.

SET DATE OF NEXT MEETING

Mr. Ewers requested to close the discussion at this time and asked for a Special Meeting in three weeks to take any action. Member Ghan made a motion to have the Special Meeting scheduled for April 30, 2013, at 2:00 p.m., Member Kight seconded the motion. The motion passed unanimously.

ADJOURNMENT

Member Kight made a motion to adjourn the meeting. Member Ghan seconded the motion. The motion passed unanimously and the meeting was adjourned at 2:31 p.m.

Minutes prepared by Kathy Semder, Administrative Assistant
April 10, 2013

Minutes Reviewed by Thomas F. Ewers, Chief Building Official

Maricopa County
Local Additions & Addenda

Maricopa County Planning and Development Department
501 N. 44th St.
Phoenix, AZ 85008

March 2013

Maricopa County

MARICOPA COUNTY LOCAL ADDITIONS & ADDENDA

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MARICOPA COUNTY LOCAL ADDITIONS & ADDENDA

Chapter 1 – Purpose & Title

SECTION 101. PURPOSE

The purpose of this document is to provide all local addenda, amendments, and additions to the adopted national building codes in one location.

SECTION 102. TITLE

This document shall be referred to and known as "Local Additions & Addenda".

SECTION 103. SEPARABILITY

If any section, subsection, sentence clause, phrase or portion of this Ordinance is for any reason held to be invalid or unconstitutional by the decision of any court of competent jurisdiction, such decision shall not effect the validity of the remaining portions thereof.

SECTION 104. AMENDMENT

This document may be amended from time to time. It may be amended by simple motion of the Board of Supervisors, provided all state required legal advertising for amending a Building Code has been satisfied. Staff may correct typographical errors and/or reformat this document without being considered an amendment.

SECTION 105. REVOCATION

This document shall abolish, replace, and/or supercede any previous amendments, changes or additions to the national codes previously approved by Maricopa County.

MARICOPA COUNTY LOCAL ADDITIONS & ADDENDA

Chapter 2 – Administration

SECTION 201. PURPOSE

The purpose of this Chapter is to provide all local changes to the adopted national building codes that relate to the administration of those codes in on location.

SECTION 202. VIOLATION & PENALTY (Reserved)

SECTION 203. BUILDING CODE ADVISORY BOARD (Reserved)

SECTION 204. ORGANIZATION & ENFORCEMENT

Code Enforcement Agency

The Code Enforcement Agency created under the building code shall be defined in Maricopa County as the Planning and Development Department. This Planning and Development Department is charged by the Board of Supervisors to implement the building code and other pertinent laws, ordinances and/or regulations through the County's One Stop Shop Program.

Building Official

The Building Official shall be the Director of the Planning and Development Department (or his/her duly authorized representatives), who is charged with the administration and enforcement of the building code and Building Safety Ordinance.

General

Wherever the building code refers to the intent, purpose, implementation, inspection, enforcement, regulation, issuance of documents, compliance or other similar activity related to "this code", the phrase for purposed of implementing the "One Stop Shop Program" shall mean "this code or other pertinent laws, ordinances, and/or regulations implemented through the Code Enforcement Agency."

SECTION 205. PERMITS

Building Permits: A building permit shall not be required for a detached non-habitable accessory building that is single story and no greater than 200 square feet in floor area, provided such building does not include plumbing, electrical, or mechanical services or equipment. A building permit shall not be required to replace an existing water heater provided the work is done in accordance with manufacturer's specifications.

Permit Expiration: A permit may be renewed within one year of expiration provided that no change in ownership or engineer/architect of record has occurred. Renewal after expiration for

more than one year shall not be permitted. Any such permit shall be deemed to be revoked and a new permit must be issued.

The design and construction of structures located within the unincorporated areas of Maricopa County shall comport to the codes in effect at the time of permit application, provided the specific permit remains valid, regardless of whether or not the County adopts subsequent codes. When approved by the Building Official, utility-scale solar generating facilities in which permit applications have been submitted, the design and construction may continue to utilize the codes in effect at the time of initial permit application, regardless of the number of permits required to complete the project, provided that 1) all construction is covered by an issued permit, 2) any permits issued for construction remain valid, and 3) continuous construction takes place until the facility is commissioned for commercial service and the facility receives final inspection. Once the above conditions have been met, subsequent construction activity shall comply with the codes in effect at the time of the subsequent permit applications. Further, should a permit lapse, the work contemplated by the permit shall be subject to a new permit application and shall comport to the codes in effect at the time the new permit application is submitted. For purposes of this section, the term "Utility-Scale" shall be as defined by the Maricopa County Zoning Ordinance.

Temporary Event Permit Exemption: Structures erected pursuant to an approved Temporary Use Permit shall not require a building permit if standing for a period not to exceed 96 contiguous hours. The responsible party shall provide documentation, as specified in the Temporary Use Permit that said structures were erected and maintained subject to all applicable building safety codes and manufacturer's specifications. The documentation shall be provided to the Department within two working days following the end of the special event to be filed with the Temporary Use Permit. Failure to provide the required documents will render the Temporary Use Permit null and void and constitute a zoning violation in accordance with Chapter 15 of the Maricopa County Zoning Ordinance.

SECTION 206. INSPECTIONS

Pre-Permit Inspection: A pre-permit inspection may be necessary and shall be the responsibility of the permit holder to post the property in a manner approved by the Building Official.

Permit Holder Responsibilities: It shall be the responsibility of the permit holder to:

1. Call for an inspection.
2. Stake property corners.
3. Designate property lines prior to the inspection of any primary use.
4. Post the inspection card.
5. Provide a copy of the approved plans on the site.
6. Provide access to the site.
7. Have someone at the site during the inspection.

Failure to complete the above shall result in no inspection at the time and an assessment of a re-inspection fee. A survey of the lot may be required by the Building Official to verify that the building/structure is located in accordance with the approved plans.

Partial Inspections: Partial inspections may be requested and conducted when necessary due to common construction practices. If a partial inspection is approved, documentation shall be maintained during construction that identifies what segments of work have obtained what types of partial inspection approval.

Re-inspections: Re-inspection fees shall apply when:

1. Property lines have not been designated as required.
2. The inspection card is not posted or available on the work site.
3. Approved plans are not readily available to the inspector on the site.
4. There is no access on the date for which the inspection is requested.
5. Work is not ready for inspection.
6. Work has been covered.
7. Late cancellation.
8. There is a deviation from plans significant enough to require approval of revised plans.

To obtain a re-inspection, the applicant shall follow the same procedures required for an inspection after paying a re-inspection fee.

SECTION 207. CERTIFICATE OF OCCUPANCY

The purpose of a Certificate of Occupancy is to insure that all department requirements have been met. A Certificate of Occupancy is required for all permits except those issued over the counter.

Temporary Certificate: A Temporary Certificate of Occupancy may be issued with the concurrence of all impacted departments and when appropriate fees are paid. Bonding, if required, shall be provided in accordance with the direction of the Building Official prior to issuance of a Temporary Certificate.

Permanent Utility Authorization: Permanent utility approval shall be not be authorized until after a permanent Certificate of Occupancy has been issued. Said authorization to the utility company shall include a copy of the Certificate of Occupancy or letter of approval.

SECTION 208. FEES

Determination of Value: Values shall be determined through the use of the most current published Building Valuation data in the publication "Building Standards" as modified for Arizona. The Building Official may develop similar increases for unpublished valuations.

Additional Value Determinations:

Walls and fences:

Retaining walls	Per lineal foot
0-2′	$15
2-4′	$25
4-6′	$42
6′ or more	$86
Chain link	$ 6
CMU	
4″ 6′ or less	$14
4″ more than 6′	$21
8″ block or other	$22
Wrought iron	$16
Iron wood	$18
Wood	$11
3 strand barbed wire	$ 3
Rail	$ 6

In ground pools	$200 per perimeter foot

Wood frame or masonry patio covers shall be valued as open carports.

Metal patio covers and covered pipe-rail horse corrals shall be valued at 50 percent of the value of a wood or masonry patio cover.

Non-habitable accessory buildings, other than covered pipe-rail horse corrals, shall be valued as a private garage.

Water/sewer collection and distribution lines shall be valued as determined by the building official.

Shell buildings shall be valued at 80% of new building value.

Alterations shall be valued at 20% of new building value.

Processing: All plan review fees (65 percent of calculated permit fee) required to be paid shall entitle the applicant to three submissions and reviews of documents submitted. If the applicant is unable to obtain approval of his application with these three attempts, the application shall be denied. The applicant may then resubmit and the submittal shall be treated as a new application. Should these circumstances occur or the permit has been expired in accordance with the Building Code, the Building Official may use information located in the denied/expired files to

expedite processing, provided that the owner and/or architect/engineer have remained the same and that the building plans have not been changed.

No subsequent step in the permit process shall be undertaken without all fees due being paid.

Fees: The Building Official may develop a requirement for an initial flat rate filing fee for permits that require plan review. Should this type of fee be developed, said fee shall be considered as a part of and credited against any required plan review fees. The building plan review fees specified in the code are separate fees from the permit fees specified, these fees are also separate from the fees specified for investigations. Building plan review fees are assessed in addition to these other fees. All fees may be rounded up to the next full dollar amount at the discretion of the Building Official.

The following fees are hereby established for use.

TABLE 1-A – BUILDING CODE/PERMIT FEES

Total Valuation	**Fee**
$1 to $500	$23.50
$501 to $2,000	$23.50 for the first $500 plus $3.05 for each additional $100, or fraction thereof, to and including $2,000
$2,001 to $25,000	$69.25 for the first $2,000 plus $14.00 for each additional $1000, or fraction thereof, to and including $25,000
$25,001 to $50,000	$391.75 for the first $25,000 plus $10.10 for each additional $1000, or fraction thereof, to and including $50,000
$50,001 to $100,000	$643.75 for the first $50,000 plus $7.00 for each additional $1000, or fraction thereof, to and including $100,000
$100,001 to $500,000	$993.75 for the first $100,000 plus $5.60 for each additional $1000, or fraction thereof, to and including $500,000
$500,001 to $1,000,000	$3,233.75 for the first $500,000 plus $4.75 for each additional $1000, or fraction thereof, and including $1,000,000
$1,000,001 and up	$5,608.75 for the first $1,000,000 plus $3.65 for each additional $1000, or fraction thereof

Other Inspections and Fees:

1. Inspections outside of normal business hours	$ 150 per residential inspection $ 250 per commercial inspection
2. Reinspection fees	$ 150 per residential inspection $ 250 per commercial inspection
3. Inspections for which no fee is indicated	$ 150 per inspection
4. Expedited plan review by consultant	Actual costs
5. Standard plan review (5 options)	2 times normal plan review fee
6. Change to approved plan (includes standards)	$ 250
7. Code Modification	$ 100 per request
8. Alternate material, design or methods	$ 100 per request
9. Tests required	$ 100 per test & test fees paid by applicant
10. Appeal to the Building Code Advisory Board	$ 500
11. Amendment to the Code	$1500
12. Requested/needed staff directive	$ 250
13. Requested staff research report	$ 100 residential property $ 250 commercial property

Flat Rate Fees:

Air conditioner	$ 50
Elec. Serv Residential 1 – 200 amps	$ 50
Elec. Serv Res or Comm 201 – 400 amps	$ 75
Elec. Serv over 400 amps	$ 120
Temporary meter	$ 50
Evaporative cooler	$ 50
Gas Line (connect or clearance)	$ 50
Mobile home "Pre-HUD Upgrade"	$ 50
Plumbing sewer line SFR	$ 50
Irrigation System	$ 50
Sprinkler	$ 50
Mechanical	$ 50
Plumbing (Install or replace Equip/fixture/devices)	$ 50
Demolition Permit	$ 50
Manufactured/Mobile Home Setup/Installation	$ 300
Commercial Manufactured Building (factory built building)	Based on installation value & Table 1-A
Occupancy Change	$ 75
Hot tub or Spa (in or above ground)	$ 75
Swimming pool above ground	$ 75
Compliance Inspection	$ 100
Move on House (compliance inspection	$ 100
Renew permit for final	$ 100

Special Event Fee (tents)	$ 100 per event

Additional Fees:

Plumbing (water/sewer collector lines)	$30 min based on valuation
Amendment to approved plan data	$30
Unpaved Parking Area Paving	$100
Temporary Certificate of Occupancy	
Without bonding	$250
With bonding	$500
Subdivision Infrastructure Permit	$300
Ground mounted residential solar system (Less than six (6) feet high)	$500
Roof mounted residential solar system	$300

Copy Charges:

Additional copy of:	
Permit	$ 2
Job card	$ 2
Certificate of Occupancy	$ 2
Copy (Approved Plans – per set)	$ 15 per set (Restamping Only)
Copy (per page)	
Standard copier	$ 1
Oversize copier	$ 6

Grading Fees:

Plan Review Fees:

Volume of material (Cut and Fill)	Fee
<50 cubic yards	No fee
50 – 100 cubic yards	$ 23.50
101 – 1,000 cubic yards	$ 37.00
1,001 – 10,000 cubic yards	$ 49.25
10,001 – 200,000 cubic yards	$ 49.25 plus $ 24.50 for each additional

	10,000 cubic yards or fraction thereof
200,001 or more cubic yards	$269.75 plus $ 7.25 for each additional 10,000 cubic yards or fraction thereof
Additional plan review required by changes, additions, or revisions to approved plans	$ 50.00

Permit Fees:

Volume of material (Cut and Fill)	Fee
<50 cubic yards	$ 23.50
50 – 100 cubic yards	$ 37.00
101 – 1,000 cubic yards	$ 37.00 plus $ 17.50 for each additional 100 cubic yards or fraction thereof
1,001 – 10,000 cubic yards	$194.50 plus $ 14.50 for each additional 1,000 cubic yards or fraction thereof
10,001 – 100,000 cubic yards	$325.00 plus $ 66.00 for each additional 10,000 cubic yards or fraction thereof
100,001 or more cubic yards	$919.00 plus $ 24.50 for each additional 10,000 cubic yards or fraction thereof

Payment of Fees: No application shall be scheduled for hearing by any board or commission acting pursuant to the "Maricopa County Local Additions and Addenda", or administratively approved unless and until all fees and fines owed to the Department as a result of any activity or inactivity attributable to the property that is the subject of the application are brought current and paid in full or any amounts owed pursuant to an agreement of compliance are current, as the case may be. This requirement shall not be waived by the board/commission.[*1*2]

SECTION 209. ADDITIONAL REGULATIONS

NOISE LEVEL REDUCTION: Any building within the vicinity of a military airport or ancillary military facility as defined by State Statute shall have a noise level reduction incorporated in the design and construction of any residential building or portions of buildings where the public is received, office areas and where normal noise level is low for first occupancy, including libraries, schools and churches, pursuant to building permits issued after December 31, 2001 in order to achieve a maximum interior noise level of forty-five decibels in areas

within noise contours described in Section 1010. of the Maricopa County Zoning Ordinance. All residential buildings in territory in the vicinity of a military airport but outside the noise contours as described in this section shall be constructed with a minimum of R18 exterior wall assembly, a minimum of R30 roof and ceiling assembly, dual-glazed windows and solid wood, foam-filled fiberglass or metal doors to the exterior or, if the specified building standards are not met, the County may approve as an alternative, a certification by an architect or engineer registered pursuant to A.R.S. Title 32, Chapter 1 to achieve a maximum interior noise level of forty-five decibels at the time of final construction.

SECTION 210. BARRIERS FOR SWIMMING POOLS, SPAS & HOT TUBS

SECTION 210.1 - GENERAL

210.1.1

Scope. The provisions of this section apply to the design and construction of barriers for swimming pools located on the premises of Group R, Division 3 Occupancies.

210.1.2

Standards of Quality. In addition to the other requirements of this code, safety covers for pools and spas shall meet the requirements for pool and spa safety covers as listed below. The standard listed below is a recognized standard. (See Section 3504.)

1. ASTM F 1346, Standard Performance Specification for Safety Covers and Labeling Requirement for All Covers for Swimming Pools, Spas and Hot Tubs

SECTION 210.2 – DEFINITIONS

For the purpose of this section, certain terms, words and phrases are defined as follows:

ABOVEGROUND/ON-GROUND POOL. See definition of "swimming pool."

BARRIER is a fence, wall, building wall or combination thereof that completely surrounds the swimming pool and obstructs access to the swimming pool.

GRADE is the underlying surface, such as earth or a walking surface.

HOT TUB. See definition of "spa, nonself-contained" and "spa, self-contained."

IN-GROUND POOL. See definition of "swimming pool."

SEPARATION FENCE is a barrier that separates all doors of a dwelling unit with direct access to a swimming pool from the swimming pool.

SPA, NONSELF-CONTAINED is a hydro massage pool or tub for recreational or therapeutic use, not located in health-care facilities, designed for immersion of users and usually having a filter, heater and motor-driven blower. It may be installed indoors or outdoors, on the ground or on a supporting structure, or in the ground or in a supporting structure. A nonself-contained spa is intended for recreational bathing and contains water over 24 inches (610mm) deep.

SPA, SELF-CONTAINED is a continuous-duty appliance in which all control, water-heating and water-circulating equipment is an integral part of the product, located entirely under the spa skirt. A self-contained spa is intended for recreational bathing and contains water over 18 inches deep.

SWIMMING POOL is any structure intended for swimming or recreational bathing that contains water over 18 inches deep and/or wider than 8 feet at any point. This includes in-ground, aboveground and on-ground swimming pools, and fixed-in-place wading pools. This does not include decorative fountains that contain water less than 12 inches deep.

SWIMMING POOL, INDOOR is a swimming pool that is totally contained within a residential structure and surrounded on all four sides by walls of said structure.

SWIMMING POOL, OUTDOOR is any swimming pool that is not an indoor pool.

SECTION 210.3 – REQUIREMENTS

210.3.1 Outdoor Swimming Pool. An outdoor swimming pool shall be provided with a barrier that shall be installed, inspected and approved prior to plastering or filling with water. The barrier shall comply with the following:

1. The top of the barrier shall be at least 60 inches above grade measured on the side of the barrier that faces away from the swimming pool. The maximum vertical clearance between grade and the bottom of the barrier shall be 2 inches (51 mm) measured on the side of the barrier that faces away from the swimming pool. The maximum vertical clearance at the bottom of the barrier may be increased to 4 inches (102 mm) when grade is a solid surface such as a concrete deck, or when the barrier is mounted on the top of the aboveground pool structure. When barriers have horizontal members spaced less than 54 inches apart, the horizontal members shall be placed on the pool side of the barrier. Any decorative design work on the side away from the swimming pool, such as protrusions, indentations or cutouts, which render the barrier easily climbable, is prohibited.

2. Openings in the barrier shall not allow passage of a 1 ¾-inch-diamenter (44.5 mm) sphere.

EXCEPTIONS:

1. When vertical spacing between such openings is 54 inches or more, the opening size may be increased such the passage of a 4-inch-diameter (102 mm) sphere is not allowed.
2. For fencing composed of vertical and horizontal members, the spacing between vertical members may be increased up to 4 inches (102 mm) when the distance between the tops of horizontal members is 54 inches or more.
3. Chain link fences used as the barrier shall not be less than 11 gage.
4. Access gates shall comply with the requirements of Items 1 through 3. Pedestrian access gates shall be self-closing and have a self-latching device. Where the release mechanism of the self-latching device is located less than 54 inches (1372 mm) from the bottom of the gate, (1) the release mechanism shall be located on the pool side of the barrier at least 3 inches (76 mm) below the top of the gate, and (2) the gate and barrier shall have no opening greater than ½ inch (12.7 mm) within 18 inches (457 mm) of the release mechanism. Pedestrian gates shall swing away from the pool. Any gates other than pedestrian access gates shall be equipped with lockable hardware or padlocks and shall remain locked at all times when not in use.
5. Where a wall of a Group R, Division 3 Occupancy dwelling unit serves as part of the barrier and contains door openings between the dwelling unit and the outdoor swimming pool that provide direct access to the pool, a separation fence meeting the requirements of Items 1, 2, 3 and 4 of Section 210.3.1 shall be provided.

EXCEPTIONS: When approved by the Building Official, one the following may be used:

1. Self-closing and self-latching devices installed on all doors with direct access to the pool with the release mechanism located a minimum of 54 inches (1372 mm) above the floor.
2. An alarm installed on all doors with direct access to the pool. The alarm shall sound continuously for a minimum of 30 seconds within seven seconds after the door and its screen, if present, are opened, and be capable of providing a sound pressure level of not less than 85 dBA when measured indoors at 10 feet (3048 mm). The alarm shall automatically reset under all conditions. The alarm system shall be equipped with a manual means such a touchpad or switch, to temporarily deactivate the alarm for a single opening. Such deactivation shall last no longer than 15 seconds. The deactivation switch shall be located at least 54 inches (1372 mm) above the threshold of the door.
3. Other means of protection may be acceptable so long as the degree of protection afforded is not less than that afforded by any of the devices described above.
4. Where an aboveground pool structure is used as a barrier or where the barrier is mounted on top of the pool structure, and the means of access is a ladder or steps, then (1) the ladder or steps shall be capable of being secured, locked or removed to prevent access or (2) the ladder or steps shall be surrounded by a

barrier that meets the requirements of Items 1 through 5. When the ladder or steps are secured, locked or removed, any opening created shall be protected by a barrier complying with Items 1 through 5.

210.3.2 **Indoor Swimming Pool.** For an indoor swimming pool, protection shall comply with the requirements of Section 210.3.1 Item 5

210.3.3 **Spas and Hot Tubs.** For a nonself-contained and self-contained spa or hot tub protection shall comply with the requirements of Section 210.3.1

EXCEPTION: A self-contained spa or hot tub equipped with a listed safety cover shall be exempt from the requirements of Section 210.3.1

210.3.4 Where a window faces a swimming pool enclosure, said window shall be equipped with a screwed in place wire mesh screen, a keyed lock that prevents opening the window more than 4" or a latching device located not less than 54" above the floor. Emergency escape or rescue windows in bedrooms which face swimming pool enclosures shall be equipped with a latching device located no less than 54" above the floor.

210.3.5 Protective enclosures shall be located at a minimum horizontal distance of 54" from any equipment, permanent structures, planters, or similar objects that could be used to climb the enclosure. This provision shall not apply to the area between the pool and the protective enclosure if the protective enclosure is a solid wall with no openings.

SECTION 211. RESIDENTIAL WOODBURING REGULATIONS

211.1 FIREPLACE RESTRICTIONS

211.1.1 Purpose

The purpose of this subsection is to regulate fireplaces, wood stoves, or other solid-fuel burning devices to reduce the amount of air pollution caused by particulate matter and carbon monoxide.

211.1.2 Applicability

The Residential Woodburning Restriction Ordinance applies to any residential wood burning device in sections of Area A that are within Maricopa County or within incorporated cities and towns in such sections.
AREA A – As defined in Arizona Revised Statues (ARS) §49-541(1), the area in Maricopa County delineated as follows:

Township 8 North, Range 2 East and Range 3 East
Township 7 North, Range 2 West through Range 5 East

Township 6 North, Range 5 West through Range 6 East
Township 5 North, Range 5 West through Range 7 East
Township 4 North, Range 5 West through Range 8 East
Township 3 North, Range 5 West through Range 8 East
Township 2 North, Range 5 West through Range 8 East
Township 1 North, Range 5 West through Range 7 East
Township 1 South Range 5 West through Range 7 East
Township 2 South, Range 5 West through Range 7 East
Township 3 South Range 5 West through Range 1 East
Township 4 South Range 5 West Through Range 1 East

211.1.3 Effective Date

The effective date of the regulations and prohibitions set forth this subsection shall be December 31, 1998.

211.1.4 Definitions

For purposes of this subsection, the following words and terms shall be defined as follows:

FIREPLACE means a built in place masonry hearth and fire chamber of a factory-built appliance, designed to burn solid fuel or to accommodate gas or electric log insert or similar device, and which is intended for occasional recreational or aesthetic use, not for cooking, heating, or industrial processes.

SOLID FUEL includes but is not limited to wood, coal, or other nongaseous or nonliquid fuels, including those fuels defined by the Maricopa County Air Pollution Control Officer as "inappropriate fuel" to burn in residential wood-burning devices.

WOOD STOVE means a solid-fuel burning heating appliance, including a pellet stove, which is either freestanding or designed to be inserted into a fireplace.

211.1.5 Installation Restrictions

(a) On or after December 31, 1998, no person, firm or corporation shall construct or install a fireplace or a wood stove, and the Building Official shall not approve or issue a permit to construct or install a fireplace or a wood stove, unless the fireplace or wood stove complies with one of the following:

1. Provides the sole or primary source of heat or fuel for cooking for a residence.
2. Meets performance standards for new residential wood heaters manufactured on or after July 1, 1990, or sold at retail on or after July 1,

1992, as prescribed by 40 Code of Federal Regulations Part 60, Subpart AAA.

3. Burns gaseous fuels, including gas logs.
4. Meets rules adopted by the Board of Supervisors as prescribed in ARS § 49-479 for burning wood in approved appliances.

211.1.6 Permits Required

In addition to the provisions and restrictions of this subsection, construction, installation or alteration of all fireplaces, wood stoves and gas, electric or solid-fuel burning appliances and equipment shall be done in compliance with provisions of the County Building Code and shall be subject to the permits and inspections required by the County Building Code.

MARICOPA COUNTY LOCAL ADDITIONS & ADDENDA

Chapter 3 – Adoption of National Codes

SECTION 301. 2012 INTERNATIONAL BUILDING CODE

The 2012 International Building Code has been adopted as the building code for Maricopa County along with the following amendments:

Amendments to the 2012 International Building Code:

Adopt Appendix G Flood-Resistant Construction

Revise the following Sections to read:

109.4 Work commencing before permit issuance. Any person who commences any work on a building, structure, electrical, gas, mechanical or plumbing system before obtaining the necessary *permits* shall be subject to a fee established by the Building Official that shall be in addition to the required *permit fees*. Said fee to be the building permit fee doubled.

SECTION 202 DEFINITIONS.

PERSONAL CARE SERVICE is 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.

SUPERVISORY CARE SERVICE is general supervision, including daily awareness of resident functioning and continuing needs.

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

ASSISTED LIVING FACILITY is 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 CENTER is an assisted living facility that provides resident rooms to eleven or more residents.

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

INSTITUTIONAL GROUP I

308.3 Institutional Group I-1. This occupancy shall include buildings, structures or portions thereof for more than 10 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

308.3.2 Six to Ten Persons Receiving Care. A facility such as above, housing not fewer than six and not more than 10 persons receiving such care, shall be classified as Group R-4, except as provided for assisted living homes.

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 310.2 DEFINITIONS. The following terms are defined in Chapter 2:

ASSISTED LIVING FACILITY

ASSISTED LIVING CENTER

ASSISTED LIVING HOME

BOARDING HOUSE

CONGREGATE LIVING FACILITIES

DIRECTED CARE SERVICES

DORMITORY

GROUP HOME

PERSONAL CARE SERVICE

SUPERVISORY CARE SERVICES

TRANSIENT

310.5.1 Care facilities with 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.

310.6 Residential Group R-4. This occupancy shall include buildings, structures or portions thereof for more than five but not more than 10 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 1 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.

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.

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 903.2.8 Group R: An automatic sprinkler system installed in accordance with Section 903.3 shall be provided throughout all buildings with a Group R fire area except one and two family dwellings.

Section 1008.1.2 Door Swing. Egress doors shall be side-hinged swinging.

Exceptions:

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

Add 1101.3 as follows:

1101.3 Other Regulations: In addition to the requirements of this code all structures and sites must comply with the "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). These regulations incorporate the federal "Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities". These requirements will apply to new construction and alterations and are not applicable in existing buildings or portions of existing buildings that do not meet the standards and specifications of these regulations. These regulations are hereby adopted and made a part hereof as though fully set forth in this section. Where these regulations differ from the requirements of Chapter 11 of the 2012 International Building Code, the stricter shall apply.

Revise as follows:

1210.2 Walls. Walls within 2 feet (10 mm) of service sinks, urinals and water closets shall have a smooth, hard, nonabsorbent surface, to a height of 4 feet (1219 mm) above the floor and except for structural elements, the materials used in such walls shall be of a type that is not adversely affected by moisture.

1503.4.4 Where Required. All roofs, paved areas, yards, courts and courtyards shall drain into a separate storm sewer system, or a combined sewer system, or to an approved place of disposal.

1503.4.5 Roof Design. Roofs shall be designed for the maximum possible depth of water that will pond thereon as determined by the relative levels of roof deck and overflow weirs, scuppers, edges or serviceable drains in combination with the deflected structural elements. In determining the maximum possible depth of water, all primary roof drainage means shall be assumed to be blocked. Design shall be based on 6" rainfall in 1 hour.

1503.4.6 Overflow Drainage Required. Overflow (emergency) roof drains or scuppers shall be provided where the roof perimeter construction extends above the roof in such a manner that water will be entrapped if the primary drains allow buildup for any reason.

1503.4.6.1 Separate Systems Required. Overflow roof drain systems shall have the end point of discharge separate from the primary system. Discharge shall be above grade, in a location, which would normally be observed by the building occupants or maintenance personnel.

1503.4.6.2 Overflow Drains and Scuppers. Where roof drains are required, overflow drains having the same size as the roof drains shall be installed with the inlet flow line located 2 inches (51mm) above the low point of the roof, or overflow scuppers having three times the size of the roof drains may be installed in the adjacent parapet walls. Scuppers shall be sized to prevent the depth of ponding water from exceeding that for which the roof was designed as determined by the plumbing code. Scuppers shall not have an opening dimension of less than 4 inches (102 mm). The flow through the primary system shall not be considered when sizing the secondary roof drain system.

Table 1607.1 Revise as follows:

OCCUPANCY OR USE	UNIFORM (PSF)	CONCENTRATED (LBS.)
25. Residential One- and two-family dwellings		
Uninhabitable attics with limited storage	40	
Habitable attics and sleeping areas	40	
(no other changes in item 25)		

Section 3109 Swimming Pool Enclosures is deleted.

SECTION 302. 2012 INTERNATIONAL RESIDENTIAL CODE

The 2012 International Residential Code has been adopted as the Residential Building Code for Maricopa County along with the following amendments.

Amendments to the 2012 International Residential Code:

Revise Table R 301.5 as follows:

Use	Live Load
Attics with limited storage [b,g]	40
Habitable attics and attics served with fixed stairs	40
Sleeping rooms	40

No other changes to table

Section R313 Automatic fire sprinkler systems is deleted.

M1307.7 Liquefied Petroleum Appliances. LPG appliances shall not be installed in an attic, pit or other location that would cause a ponding or retention of gas.

M1503.1 General. Range hoods shall discharge to the outdoors though 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 a pre-manufactured transition fitting. Ducts serving range hoods shall not terminate in an attic or crawl space or areas inside the building.

G2406.2 Add new item 6 text after the exceptions as follows:

6. Liquefied Petroleum Appliances. LPG appliances shall not be installed in an attic, pit or other location that would cause a ponding or retention of gas.

G2415.12 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 (457 mm) for plastic piping.

SECTION G2415.12.1 Individual Outside appliances is deleted

SECTION P2803.6.1 Requirements for discharge piping. The discharge piping serving a pressure relief valve, temperature relief valve or combination thereof shall:

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 that 12 inches (305mm) above grade.
3. Not be smaller that 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 that 6 inches (152mm) 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 P2904 DWELLING UNIT FIRE SPRINKLER SYSTEMS is deleted.

SECTION 303. 2012 INTERNATIONAL MECHANICAL CODE

The 2012 International Mechanical Code has been adopted as the Mechanical Code for Maricopa County along with the following amendments.

Amendments to the 2012 International Mechanical Code:

Revise the following sections to read:

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.

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 304. 2012 INTERNATIONAL PLUMBING CODE

The 2012 International Plumbing Code has been adopted as the plumbing code for Maricopa County along with the following amendments.

Amendments to the 2012 International Plumbing Code:

Add to Section 405.3.1:

Exception: Side clearances for accessible or ambulatory water closets shall comply with ICC/ANSI A117.1.

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

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 that 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 as to flow by gravity.
10. Not terminate more than 6 inches (152mm) 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 6-5-.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.

Add to Section 904.1:

All open vent pipes that extend through a roof shall be terminated at least six inches (152mm) above the roof, except that where a roof is to be used for any purpose other than weather protection, the vent extensions shall be run at least 7 feet (2134mm) above the roof.

SECTION 305. 2011 NATIONAL ELECTRICAL CODE

The 2011 National Electrical Code has been adopted as the electrical code for Maricopa County along with the following amendments.

Revise the following sections to read:

ARTICLE 210 – Branch Circuits

Section 210.8 Ground-Fault Circuit-Interrupter Protection for Personnel

(B) Other Than Dwelling Units. All 125-volt, single-phase, 15- and 20-ampere receptacles installed in the locations specified in 210.8(B)(1) through (8) shall have ground-fault circuit-interrupter protection for personnel.

(6) Indoor damp and wet locations.

ARTICLE 250 – Grounding and Bonding

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:

(1) A copper, aluminum or copper-clad aluminum 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.

(2) Rigid metal conduit.

(3) Intermediate metal conduit.

(4) Electric metallic tubing with an additional equipment grounding conductor.

(5) Listed flexible metal conduit meeting all the following conditions:

a. The conduit is terminated in listed fittings.

b. The circuit conductors contained in the conduit are protected by overcurrent devices rated at 20 amperes or less.

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

d. If used to connect equipment where flexibility is necessary to minimize the transmission of vibration from equipment or to provide flexibility for equipment that requires movement after installation, an equipment grounding conductor shall be installed.

(6) Listed liquidtight flexible metal conduit meeting all the following conditions:

a. The conduit is terminated in listed fittings.

b. 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.

c. 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 metal tubing, or liquidtight flexible metal conduit in trade sizes metric designators 12 through 16 (trade sizes 3/8 through 1/2) in the ground-fault current path.

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

e. If used to connect equipment where flexibility is necessary to minimize the transmission of vibration from equipment or to provide flexibility for equipment that requires movement after installation, an equipment grounding conductor shall be installed.

(7) Flexible metallic tubing where the tubing is terminated in listed fittings and meeting the following conditions:

a. The circuit conductors contained in the tubing are protected by overcurrent devices rated at 20 amperes or less.

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

(8) Armor of Type AC cable as provided in 320.108.

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

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

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

b. 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.

c. 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.

(11) Cable trays as permitted in 392.10 and 392.60.

(12) Cablebus framework as permitted in 370.3

(13) Other listed electrically continuous metal raceways and listed auxiliary gutters.

(14) Surface metal raceways listed for grounding.

ARTICLE 334 – Nonmetallic-Sheathed Cable; Types NM, NMC and NMS

II. Installation

334.10 Uses Permitted. Type NM, Type NMC and Type NMS cables shall be permitted to be used in the following:

(1) One- and two- family dwellings and their attached or detached garages, and their storage buildings.

(2) Multifamily dwellings permitted to be of Types III, IV and V construction except as prohibited in 334.12.

(3) Other dwelling unit accessory buildings and structures in accordance with 334.10(1) and 334.10 (2) and other provisions of this Code.

(4) Cable trays in structures permitted to be Types III, IV or V in accordance with 334.10(1) and (2) where the cables are identified for the use.

(5) Types I and II construction in accordance with 334.10(1) and (2) where installed within raceways permitted to be installed in Types I and II construction.

(A) Type NM. Type NM cable shall be permitted as follows:

(1) For both exposed and concealed work in normally dry locations.

(2) To be installed or fished in air voids in masonry block or tile walls.

(B) Type NMC. Type NMC cable shall be permitted as follows:

(1) For both exposed and concealed work in dry, moist, damp or corrosive locations.

(2) In outside and inside walls of masonry block or tile.

(3) In a shallow chase in masonry, concrete or adobe protected against nails or screws by a steel plate at least 1.59 mm (1/16 in.) thick and covered with plaster, adobe or similar finish.

C) Type NMS. Type NMS cable shall be permitted as follows:

(1) For both exposed and concealed work in normally dry locations.

(2) To be installed or fished in air voids in masonry block or tile walls.

334.12 Uses Not Permitted.

(A) Types NM, NMC and NMS. Type NM, Type NMC and Type NMS cables shall not be permitted as follows:

(1) In any dwelling or structure not specifically permitted in 334.10(1), (2) and (3).

(2) As service-entrance cable.

(3) In hoistways or on elevators or escalators

(4) Embedded in poured cement, concrete or aggregate.

(B) Types NM and NMS. Types NM and NMS cables shall not be used under the following conditions or in the following locations:

(1) Where exposed to corrosive fumes or vapors.

(2) Where embedded in masonry, concrete, adobe, fill or plaster.

(3) In a shallow chase in masonry, concrete or adobe and covered with plaster, adobe or similar finish.

(4) In wet or damp locations.

SECTION 306. 2003 INTERNATIONAL FIRE CODE

The 2003 International Fire Code has been adopted as the Fire Code only for properties owned by Maricopa County, regardless of the jurisdiction within which the property lies, along with the following amendments:

AMENDMENTS TO THE 2003 INTERNATIONAL FIRE CODE:

Delete all references to the International Existing Building Code from sections 102.3, 102.4, 102.5 and any other sections.

Revise section 104.6 to read:
104.6 Official Records. The fire code official shall keep official records as required by Sections 104.6.1 through 104.6.4. Such official records shall be retained for not less than ninety (90) days after final occupancy approval, unless otherwise provided by other regulations.

Delete Section 105 Permits.

Delete Section 107 Maintenance.

Delete Section 109.3 Violation Penalties.

Delete all Appendices A through G.

SECTION 307. 2012 INTERNATIONAL FUEL GAS CODE

The 2012 International Fuel Gas Code has been adopted as the Fuel Gas Code for Maricopa County with one amendment to delete sections 301.2 and 404.11.1, and one revision as follows:

404.12 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.

Delete Section 404.12.1

SECTION 308. 2012 INTERNATIONAL GREEN CONSTRUCTION CODE

The 2012 International Green Construction Code has been adopted as the Green Construction Code for Maricopa County along with the following amendments:

Amendments to the 2012 International Green Construction Code:

Revise the following sections to read:

SECTION 101 GENERAL

[A] 101.1 Title.

These regulations shall be known as the Maricopa County Green Construction Code hereinafter referred to as "this code."

101.2 General.

The use of this code is optional, unless specifically required through ordinance by Maricopa County. This code is an overlay document to be used in conjunction with the other codes and standards adopted by the jurisdiction. This code is not intended to be used as a standalone construction regulation document and permits are not to be issued under this code. This code is not intended to abridge or supersede safety, health or environmental requirements under other applicable codes or ordinances.

TABLE 302.1
REQUIREMENTS DETERMINED BY THE JURISDICTION

Section	Section Title of Description and Directives	Jurisdictional Requirements	
CHAPTER 1. SCOPE			
101.3 Exception 1.1	Detached one- and two-family dwellings and multiple single-family dwellings (townhouses) not more than three stories in height above grade plane with a separate means of egress, their accessory structures, and the site or lot upon which these buildings are located, shall comply with ICC 700.	**Yes**	
101.3 Exception 1.2	Group R-3 residential buildings, their accessory structures, and the site or lot upon which these buildings are located, shall comply with ICC 700.	**Yes**	
101.3 Exception 1.3	Group R-2 and R-4 residential buildings four stories or less in height above grade plane, their accessory structures, and the site or lot upon which these buildings are located, shall comply with ICC 700.	**Yes**	
CHAPTER 4. SITE DEVELOPMENT AND LAND USE			
402.2.1	Flood hazard area preservation, general		**No**
402.2.2	Flood hazard area preservation, specific		**No**
402.3	Surface water protection		**No**
402.5	Conservation area	**Yes**	

402.7	Agricultural land	**Yes**	
402.8	Greenfield sites	**Yes**	
407.4.1	High-occupancy vehicle parking	**Yes**	
407.4.2	Low-emissions, hybrid and electric vehicle parking	**Yes**	
409.1	Light pollution control	**Yes**	
CHAPTER 5. MATERIAL RESOURCE CONSERVATION AND EFFICIENCY			
503.1	Minimum percentage of waste material diverted from landfills.	**50%**	
CHAPTER 6. ENERGY CONSERVATION, EFFICIENCY AND CO2e EMISSIONS REDUCTION			
302.1, 302.1.1, 602.1	zEPI of Jurisdictional Choice . The jurisdiction shall indicate a zEPI of 46 or less in each occupancy for which it intends to require enhanced energy performance.	Occupancy: _____ zEPI: _____	
604.1	Automated demand response infrastructure		**No**
CHAPTER 7. WATER RESOURCES CONSERVATION, QUALITY AND EFFICIENCY			
702.7	Municipal reclaimed water		**No**
CHAPTER 8. INDOOR ENVIRONMENT QUALITY AND COMFORT			
804.2	Post-Construction Pre-Occupancy Baseline IAQ Testing		**No**
807.1	Sound transmission and sound levels	**Yes**	
CHAPTER 10. EXISTING BUILDINGS			
1007.2	Evaluation of existing buildings	**Yes**	
1007.3	Post Certificate of Occupancy zEPI, energy demand and CO2e emissions reporting		**No**

SECTION 309. 2012 INTERNATIONAL ENERGY CONSERVATION CODE

The 2012 International Energy Conservation Code has been adopted as the Energy Conservation Code for Maricopa County along with the following amendments:

Amendments to the 2012 International Energy Conservation Code:

Revise the following sections to read:

C101.2 Scope. This code applies to commercial buildings and the building sites and associated systems and equipment. 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.

R101.2 Scope. This code applies to residential buildings and the building sites and associated systems and equipment. Group R-2 when defined as a Residential Building by Section R202, shall have the option of complying under the Commercial Provisions of the code, regardless of height. Once defined as such on the submittal documents, all components of the Commercial Provisions shall be followed.

Add Section R102.1.2

R102.1.2 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 R402.4.1.1, R402.4.1.2 and R403.2.2 and shall meet the following conditions:

1. 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.
2. 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.
3. Third Party Testing is required for the following items:
    a. R402.4.1.1 – Building Envelope – Thermal and Air Barrier Checklist
    b. R402.4.1.2 – Testing – Air Leakage Rate
    c. R403.2.2 – Sealing – Duct Tightness
4. The other requirements identified as "mandatory" in Chapter 4 shall be met.
5. Alternate testing and inspection programs and protocols shall be allowed when approved by the Code Official.

Add Section R401.2.1

R401.2.1 Alternative Approach for Compliance. A Home Energy Rating System ("HERS") Index of 70 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.

Delete Section R403.9.3 and replace with:

R403.9.3 Motors with a total horsepower of one or more for pools and in-ground permanently installed spas shall have the capability of operating at two or more speeds with a low speed having a rotation rate that is no more than one-half of the motor's maximum

rotation rate and shall be operated with a pump control with the capability of operating the pump at two or more speeds. Residential pool pump motor controls that are sold for use with a two or more speed motor shall have a default circulation speed setting no more than one-half of the motor's maximum rotation rate. Any high speed override capability shall be for a temporary period not to exceed one twenty-four hour cycle without resetting to the default setting.

SECTION 310. 2012 INTERNATIONAL EXISTING BUILDING CODE

The 2012 International Existing Building Code has been adopted as the Existing Building Code for Maricopa County with no amendments.