

AN ORDINANCE OF THE COUNTY OF ORANGE, CALIFORNIA, REPEALING THE INTERNATIONAL BUILDING CODE, 2009 EDITION; THE CALIFORNIA BUILDING CODE, 2010 EDITION; THE CALIFORNIA RESIDENTIAL CODE, 2010 EDITION; AND THE CALIFORNIA GREEN BUILDING STANDARDS CODE, 2010 EDITION; REPEALING ORDINANCE 11-001 AND ADOPTING BY REFERENCE THE CALIFORNIA BUILDING CODE, 2013 EDITION; THE INTERNATIONAL BUILDING CODE, 2012 EDITION; THE CALIFORNIA RESIDENTIAL CODE, 2013 EDITION; THE CALIFORNIA ENERGY CODE, 2013 EDITION; AND THE CALIFORNIA GREEN BUILDING STANDARDS CODE, 2013 EDITION; WITH AMENDMENTS THERETO.

SECTION 1. Article 2 of Division 1 of Title 7 of the Orange County Codified Ordinances is hereby

led.

ARTICLE 2. BUILDING AND STRUCTURES

The Board of Supervisors of the County of Orange hereby adopts the California Building Code, 2012 Edition and the International Building Code, 2012 Edition, as published by the International Code Council, including Division II of Chapter 1 Administration, Appendix C, Appendix I, except Chapters 1, 7, 28, 29 in the text of the International Building Code, except such portions as are deleted, amended, or amended in this Article. Chapter 1 of the International Building Code is replaced with Division II of Chapter 1 of the California Building Code with County amendments.

The Board of Supervisors of the County of Orange hereby adopts the California Residential Code, Edition. Division II of Chapter 1 of the California Residential Code is replaced with Division II of Chapter 1 of the California Building Code with County amendments.

1 The Board of Supervisors of the County of Orange hereby adopts the California Energy Code,
2 2013 Edition.

3 The Board of Supervisors of the County of Orange hereby adopts the California Green Building
4 Standards Code, 2013 Edition. Chapter 1 of the California Green Code is added with Division II of
5 Chapter 1 of the California Building Code with County amendments.

6 b. The purpose of these codes is to prescribe regulations for the erection, construction,
7 enlargement, alteration, repair, improving, removal, conversion, demolition, occupancy, equipment, use,
8 height, area and maintenance of all buildings and structures.

9 c. Not less than one (1) copy of each has been made and is now filed in the office of the OC Public
10 Works. They are hereby adopted and incorporated as if set forth at length herein. Whenever there is a
11 difference between the California Code and the International Code, the California Code shall prevail.

12 Section 7-1-13. SECTION 101.1 OF DIVISION II OF CHAPTER 1 AMENDED.

13 Section 101.1 of Division II of Chapter 1 of the 2013 California Building Code is hereby amended
14 to read as follows:

15 TITLE

16 Section 101.1 these regulations shall be known as the Orange County Building
17 Code, hereinafter referred to as "this Code".

18 Section 7-1-14. SECTION 101.2 AND SECTION 101.4 OF DIVISION II OF CHAPTER 1 AMENDED.

19 Section 101.2 and Section 101.4 Division II of Chapter 1 of the 2013 California Building Code is
20 hereby amended to read as follows:

21 SCOPE

22 Section 101.2. The provisions of this Code shall apply to the construction, alteration, movement,
23 enlargement, replacement, equipment, location, removal, demolition, repair, maintenance and use and
24 occupancy of any building or structure within the unincorporated area of the County, and County-owned
25 buildings and structures within incorporated cities, except work located primarily in a public way, public
26 utility towers and poles, mechanical equipment not specifically regulated in this Code, and hydraulic

1 flood control structures.

2 For additions, alterations, movement and maintenance of buildings and structures see Chapter
3 34. For temporary buildings and structures, see Section 3103.

4 Where, in any special case, different sections of this Code specify different materials, method of
5 construction or other requirements, the most restrictive shall govern. Where there is a conflict between
6 a general requirement and a specific requirement, the specific requirement shall be applicable.

7 Wherever in this Code reference is made to the Appendix, the provisions in the Appendix shall not
8 apply unless specifically adopted.

9 Section 101.4.1 The other codes listed in Section 101.4.1 through 101.4.6 and referenced
10 elsewhere in the Code shall be considered part of the requirements of the Code to the prescribed extent
11 of each such reference.

12 Section 101.4.1 Gas. The provisions of the California Plumbing Code shall apply to the installation
13 of gas piping from the point of delivery, gas appliances and related accessories as covered in this Code.
14 These requirements apply to gas piping systems extending from the point of delivery to the inlet
15 connections of appliances and the installation and operation of residential and commercial gas
16 appliances and related accessories.

17 Section 101.4.2 Mechanical. The provisions of the California Mechanical Code shall apply to the
18 installation, alterations, repairs and replacement of mechanical systems, including equipment,
19 appliances, fixtures, fittings and/or appurtenances, including ventilating, heating, cooling, air-
20 conditioning and refrigeration systems, incinerators and other energy-related systems.

21 Section 101.4.3 Plumbing. The provisions of the California Plumbing Code shall apply to the
22 installation, alteration, repair and replacement of plumbing systems, including equipment, appliances,
23 fixtures, fittings and appurtenances, and where connected to a water or sewage system and all aspects
24 of a medical gas system. The provisions of the California Plumbing Code shall apply to private sewage
25 disposal systems.

26 Section 101.4.4 Property Maintenance. The provisions of the California Building Code shall apply

1 to existing structures and premises; equipment and facilities; light, ventilation, space heating,
2 sanitation, life and fire safety hazards; responsibilities of owners, operators and occupants; and
3 occupancy of existing premises and structures.

4 Section 104.4.5 Fire Prevention. The provisions of the California Fire Code shall apply to all
5 matters affecting or relating to structures, processes and premises from the hazard of fire and explosion
6 arising from storage, handling or use of structures, materials or devices; from conditions hazardous to
7 life, property or public welfare in the occupancy of structures or premises; and from the construction,
8 extension, repair, alteration or removal of fire suppression and alarm systems or fire hazards in the
9 structure or on the premises from occupancy or operation.

10 Section 101.4.6 Energy. The provisions of the California Energy Code, Title 24, Part 6 shall apply
11 to all matters governing the design and construction of buildings for energy efficiency.

12 *Exception: [OSHPD 1,2 & 4] Not required by OSHPD*

13 Section 7-1-15. SECTION 101.5 OF DIVISION II OF CHAPTER 1 ADDED.

14 Section 101 of Division II of Chapter 1 of the 2010 California Building Code is hereby amended by
15 adding Section 101.5 to read as follows:

16 UNDERGROUND UTILITIES REQUIRED

17 Section 101.5. The Building Official shall, as a condition precedent to the issuance of a Building
18 Permit, require all utility services located within the exterior boundary lines of lot or parcel of property to
19 be installed underground if:

- 20 (1) The property is to be developed with a new or relocated main building;
21 (2) The remodeling, alteration, or addition to an existing main building, exceeds 50 percent of
22 the value and/or area of the existing building;
23 (3) A residential building or use is converted to any nonresidential use or purpose.

24 For purposes of this section, the term "main building" shall mean a building in which is conducted
25 the principal use of the lot or building site on which it is located.

26 The owner or developer of the property is responsible for complying with the requirements of

1 this section and shall provide all necessary facilities on the property to receive such service from the
2 supplying utilities.

3 If it is determined that practical difficulties, or unreasonable hardships inconsistent with the
4 purposes of this chapter and unique to a particular parcel of property, would result from the literal
5 interpretation of this section, the Building Official may waive, modify or delay the imposition of an
6 underground requirement imposed pursuant to this section upon written application of any affected
7 property owner. The Building Official shall notify the applicant of his decision in writing by certified mail.
8 If the Building Official determines to delay the installation of required underground utilities, he may
9 require a recorded agreement guaranteeing the future performance of the work, together with adequate
10 performance security enforceable by the County in the form of a cash deposit, bond, letter of credit, or
11 other instrument satisfactory to the County Counsel.

12 For purposes of this section, appurtenances and associated equipment such as, but not limited
13 to, surface-mounted transformers, pedestal-mounted terminal boxes and meter cabinets, and concealed
14 ducts in an underground system, may be placed above ground.

15 Any person dissatisfied with the decision of the Building Official may file an appeal with the
16 Hearing Officer within fifteen (15) days after the decision of the Building Official is deposited in the mail
17 by filing a written statement setting forth the reasons for said appeal with the County Clerk. The
18 Hearing Officer may overrule, modify, or affirm the decision of the Building Official.

19 Section 7-1-16. SECTION 116 OF DIVISION II OF CHAPTER 1 REPLACED.

20 Section 116 of Division II of Chapter 1 of the 2013 California Building Code is hereby replaced to
21 read as follows:

22 UNSAFE BUILDING, NUISANCES, NOTICE, ADMINISTRATIVE HEARING, APPEAL.

23 Section 116. (a) Unsafe Buildings. All buildings or structures which are structurally unsafe or not
24 provided with adequate egress, or which constitute a fire hazard, or are otherwise dangerous to human
25 life, or which in relation to existing use constitute a hazard to safety or health or public welfare, by
26 reason of inadequate maintenance, dilapidation, obsolescence, fire hazard, disaster damage, or

1 abandonment, as specified in this Code or in any other effective ordinance or statute, are, for the
2 purpose of this section, unsafe buildings and constitute an unsafe condition. All such unsafe buildings or
3 conditions are hereby declared to be public nuisances and shall be abated by repair, rehabilitation,
4 improvement, removal, or demolition, in whole or part, in accordance with the procedures specified in
5 this section.

6 (b) Fire Hazard. No person, including but not limited to the state and its political
7 subdivisions, operating any occupancy subject to these regulations shall permit any fire hazard, as
8 defined in this section, to exist on premises under their control, or fail to take immediate action to abate
9 a fire hazard when requested to do so by the enforcing agency.

10 NOTE: "Fire hazard" as used in these regulations means any condition, arrangement or act which
11 will increase, or may cause an increase of the hazard or menace of fire to a greater degree than
12 customarily recognized as normal by persons in the public service of preventing, suppressing or
13 extinguishing fire; or which may obstruct, delay or hinder, or may become the cause of obstruction,
14 delay or hindrance to the prevention, suppression or extinguishment of fire.

15 (c) Inspection. The Building Official shall examine or cause to be examined every building
16 or structure or portion thereof or other condition reported as unsafe, dangerous, damaged, or otherwise
17 constituting a hazard as set forth in subsection (a) of this section. Said examination shall be conducted
18 in accordance with the provisions of this Code, other applicable statutes, and the ordinances, rules, and
19 regulations of the County of Orange.

20 (d) Notice of Defects. In any case where this section is made applicable by reference or if
21 any building, structure, or part thereof is found to be an unsafe building as defined in this section, the
22 Building Official shall give notice, setting forth the defects found, to the owner, other responsible
23 person, or authorized representative, hereinafter referred to as "owner," of such building or structure.
24 The notice shall also set forth the right of the owner to be present at an administrative hearing, at his
25 option, and introduce such relevant evidence on the issues as he desires. The notice shall also set forth
26 the requirements of commencement and completion of work and the effect of failure to so do as set

1 forth in subsections (g) and (h) of this section.

2 (e) Time and Place of Hearing, Evidence. The notice shall set forth the time and place a
3 hearing shall be had before the Building Official. At the time and place so specified, evidence shall be
4 submitted as to the facts of any such defects as to reasonably establish their existence and the Building
5 Official shall determine whether the facts so established constitute an unsafe building. Evidence may
6 further be submitted as to the repairs, rehabilitation, improvements, removal or demolition considered
7 necessary to correct said defects.

8 (f) Order, Finality, Appeal.

9 (1) At the hearing and upon the determination of the existence of defects, the
10 Building Official shall determine whether such defects are subject to repair, rehabilitation, or
11 improvement, or whether they are of such a nature as to require removal or demolition of a part of or
12 the whole of any such building or structure, and he shall order such repairs, rehabilitation,
13 improvements, or demolition as is considered necessary in the case.

14 (2) The determination and order may be made orally at the hearing and shall be
15 written and transmitted to the owner within a reasonable time; the determination and order shall
16 become final within five (5) days, excluding Saturday, Sunday, and holidays, from the time it is first
17 rendered, or in the event that the owner was not present at the hearing, within five (5) days of the
18 mailing of the order to the last known address of said owner, responsible party, or representative,
19 whichever first occurs.

20 (3) Appeal. The owner shall, if he desires to do so, at any time prior to the
21 determination and order becoming final as heretofore set forth, appeal the decision of the Building
22 Official to the Hearing Officer, and shall thereupon make a determination and order affirming, reversing,
23 or modifying the determination and order of the Building Official as the Hearing Officer may deem
24 proper. The order of the Hearing Officer shall be immediately final.

25 (g) Commencement and Completion of Work. The owner shall, upon the expiration of five
26 (5) days, excluding Saturday, Sunday, and holidays, following the finality of the determination and order

1 of the Building Official (or, if appealed, the determination and order of the Hearing Officer) commence
2 the repairs, rehabilitation, improvements, removal, or demolition ordered, and such work shall be
3 completed within the time specified by the Building Official (or the Hearing Officer, if appealed).

4 (h) Failure of Commencement of Work. If the owner neglects or fails to commence, within
5 the time provided therefore, activity and the corrective work deemed necessary and as ordered, the
6 Building Official may cause the ordered repairs, rehabilitation, or improvements to be performed
7 forthwith and any cost thereof shall be a charge and expense against the owner personally and
8 collectible by an action at law.

9 (i) Right to Demolish. In case the owner shall fail, neglect, or refuse to comply with the
10 notice or order to remove or demolish said building or structure or portion thereof, the Board of
11 Supervisors of the County of Orange may order the Building Official to proceed with the work specified
12 in the notice or order. A statement of the cost of such work shall be transmitted to the Board of
13 Supervisors, who shall cause the same to be paid and levied as a special assessment against the
14 property. The Building Official may apply to the Board of Supervisors for an order under this subsection
15 to proceed with the work specified in subsection (h) above where such work is not deemed by him to
16 require emergency action.

17 (j) Costs incurred under subsections (h) and (i) shall be paid by the County. Such costs
18 shall be charged to the owner of the premises involved. The Building Official may apply to the Board of
19 Supervisors to cause the costs for such work specified in subsection (h), and shall make such application
20 for costs incurred under subsection (i), to be paid and levied as a special assessment against the
21 property and collected in the manner provided for special assessments.

22 (k) Vacation of Premises, posting of signs. If necessary, the notice shall require the
23 building or structure or portion thereof or other site to be vacated forthwith, and within the time
24 specified, in the interest of immediate public safety pending the finality of any determination and order.

25 The Building Official shall cause to be posted at each entrance to such building a notice to
26 prohibit occupancy.

1 Such notices shall remain posted until the corrected conditions, required repairs, rehabilitation,
2 removal or demolition are completed and a Certificate of Occupancy is issued as set forth in this Code.

3 Such posted notices shall not be removed without written permission of the Building Official, and
4 no person shall enter the building except for the purpose of making the required repairs or of
5 demolishing the building. The notice required by this section may be served either:

6 (1) By delivering a copy to the owner or authorized representative as designated on
7 papers, applications, or permits on file with the Building Official, personally; or

8 (2) If either or both be absent from his place of residence and from his usual or
9 designated place of business, by leaving a copy with some person of suitable age and discretion at
10 either place, and sending a copy of certified mail, receipt requested, addressed to the owner or
11 authorized representative at his place of residence; or

12 (3) If such place of residence and business cannot be ascertained, or a person of suitable
13 age or discretion there cannot be found, then by affixing a copy in a conspicuous place on the property,
14 building structure, and also delivering copy to a person there residing, if any; to the person in charge, if
15 any; and also sending a copy by certified mail, return receipt requested, addressed to the owner at the
16 place where the property, building, or structure is situated, or to the owner at his last known or
17 designated address, or both.

18 Section 7-1-17. SECTION 105.2 OF DIVISION II OF CHAPTER 1 AMENDED.

19 Section 105.2 of Division II of Chapter 1 of the 2013 California Building Code is hereby amended
20 to replace items 1 and 2, and add item 14 as follows:

21 (1) One-story detached accessory buildings used as tool and storage sheds, play houses
22 and similar uses, provided the floor area does not exceed 120 square feet, and the structure is at least 3
23 feet from property line and 6 feet from other buildings or structures located on the same property.

24 (2) Fences not over six (6) feet high. Exception: Walls and fences less than six (6) feet in
25 height which are required as a condition of project approval to have permits.

26 (14) Other incidental structures and improvements of a minor nature may be exempt from

1 the provisions of this Code upon the determination of the Building Official.

2 Note: The balance of Section 105.2 is implemented as written.

3 Section 7-1-18. SECTION 105.3 OF DIVISION II OF CHAPTER 1 AMENDED.

4 Section 105.3 of Division II of Chapter 1 of the 2013 California Building code is hereby amended
5 to read as follows:

6 Section 105.3 Application for permit. A separate permit shall be required for each building or
7 structure. To obtain a permit, the applicant shall first file an application therefore in writing on a form
8 furnished by the OC Public Works for that purpose. Such application shall:

- 9 1. Identify and describe the work to be covered by the permit for which application is made.
- 10 2. Describe the land on which the proposed work is to be done by legal description, street
11 address or similar description that will readily identify and definitely locate the proposed
12 building or work.
- 13 3. Indicate the use and occupancy for which the proposed work is intended.
- 14 4. Be accompanied by construction documents and other information as required in Section 107.
- 15 5. State the valuation of the proposed work.
- 16 6. Be signed by the applicant, or the applicant's authorized agent.
- 17 7. Give such other data and information as required by the Building Official.

18 Note: The balance of Section 105.3 is implemented as written, except Section 105.3.2 is deleted

19 Section 7-1-19. SECTION 105.5 OF DIVISION II OF CHAPTER 1 REPLACED.

20 Section 105.5 of Division II of Chapter 1 of the 2013 California Building Code is hereby replaced
21 as follows:

22 PERMIT EXPIRATION

23 Section 105.5 Expiration. Every permit issued by the Building Official under the provisions of this
24 Code shall expire by limitation and become null and void if the building or work authorized by such
25 permit is not commenced within one hundred eighty (180) days from the date of such permit, or if the
26 building or work authorized by such permit is suspended or abandoned at any time after the work is

1 commenced for a period of one hundred eighty (180) days. Before such work can be commenced or
2 recommenced, a permit shall first be extended or re-issued.

3 1) Requesting extension of an unexpired permit: Any permittee holding an unexpired permit or
4 a permit which has expired for less than 180 days may apply for an extension of time within which
5 permittee may commence work under that permit when he/she is unable to commence or recommence
6 work within the time required by this section for good and satisfactory reasons. The Building Official
7 may extend the time for action by the permittee for a period not exceeding one hundred eighty (180)
8 days upon written request by the permittee showing that circumstances beyond the control of the
9 permittee have prevented action from being taken. Permits extended in this manner shall not be subject
10 to new regulations adopted after issuance of the permit. Fees for time extension shall be as established
11 by the Board of Supervisors. Fees shall not be required for first extension.

12 (2) Requesting re-issuance of a permit which has been expired for 180 days or more: Any
13 permittee holding a permit which has been expired for 180 days or more may apply for re-issuance of
14 the permit subject to compliance with current regulations and payment of full plan check and permit
15 fees. Plans must be re-submitted for plan check. Portions of the structure which have been built under
16 the expired permit shall not be subject to current regulations.

17 (3) For the purpose of permit extension, multiple permits of the same structure such as
18 building, foundation, retaining wall, plumbing, mechanical, and electrical permits shall be considered as
19 one permit. Extension of building permit shall include extension of ancillary permits of the same
20 structure. Each separate permit with work completed inspected and approved entirely prior to
21 suspension or abandonment shall not be subject to extension or re-issuance.

22 Section 7-1-20. SECTION 105.8 OF DIVISION II OF CHAPTER 1 ADDED.

23 Section 105 of Division II of Chapter 1 of the 2013 California Building Code is hereby amended by
24 adding Section 105.8 to read as follows:

25 Section 105.8 Change of Contractor or of Ownership. A permit issued hereunder shall expire
26 upon a change of ownership or a change of contractor regarding the building, structure or grading for

1 which said permit was issued if the work thereon has not been completed, and a new permit shall be
2 required for the completion of the work. If the provisions of section 105.5 above are not applicable and
3 if no changes have been made to the plans and specifications last submitted to the Building Official, no
4 charge, other than a "name change" and the permit issuance fee, shall be made for the issuance of the
5 new permit under such circumstances. If, however, changes have been made to the plans and
6 specifications last submitted to the Building Official, fees as established by the Board of Supervisors
7 shall be charged to the permit application.

8 Section 7-1-21. SECTION 109 OF DIVISION II OF CHAPTER 1 REPLACED.

9 Section 109 of Division II of Chapter 1 of the 2013 California Building Code is hereby replaced to
10 read as follows:

11 Section 109. FEES AND PLAN REVIEW

12 Section 109.1 General. A fee as established by the Board of Supervisors shall be paid for each
13 permit at time of issuance.

14 Section 109.2 Permit Fees. The determination of value or valuation under any of the provisions of
15 this Code shall be as established by the Board of Supervisors. The valuation shall be the total value of
16 all construction work for which the permit is issued, as well as all finish work, painting, roofing,
17 electrical, plumbing, heating, air conditioning, elevators, fire-extinguishing systems and any other
18 permanent equipment.

19 Failure to pay fees and obtain a permit before commencing work shall be deemed a violation of
20 this Code, except when it can be proven to the satisfaction of the Building Official that an emergency
21 existed which made it impractical to first obtain the permit. A violation shall result in an assessment of
22 double fees for work done prior to permit issuance. Payment of a double fee shall not relieve any person
23 from fully complying with the requirements of this Code nor from any other penalties prescribed herein.

24 Section 109.3 Plan Review Fees. When a plan or other data is required to be submitted for plan
25 review, a plan-checking fee shall be paid at the time of submitting plans and specifications for checking.
26 Said plan-checking fee shall be established by the Board of Supervisors.

1 Section 109.4 Expiration of Plan Review. Application for which no permit is issued within 180 days
2 following the date of application shall expire by limitation, and plans and other data submitted for
3 review may thereafter be returned to the applicant or destroyed by the Building Official. The Building
4 Official may extend the time for action by the applicant for a period of 180 days on request by the
5 applicant showing that circumstances beyond the control of the applicant have prevented action from
6 being taken. No application shall be extended more than once. In order to renew action on an
7 application after expiration, the applicant shall resubmit plans and pay a new plan review fee. Extension
8 or renewal of building permit application shall include extension or renewal of ancillary permit
9 applications of the same structure.

10 Section 109.5 Investigation Fee. An investigation fee as established by the Board of Supervisors
11 may be charged by the Building Official whenever work for which a permit is required by this Code has
12 been commenced without first obtaining said permit. This fee shall be paid and the investigation shall be
13 made prior to the issuance of any permit for said work. An investigation fee may be charged for any
14 investigation of a building, structure, work reports, certification or any other related work requested by
15 an owner or authorized agent of such owner.

16 Section 109.6 Fee Refunds. The Building Official may authorize refunding of fee which was
17 erroneously paid or collected.

18 Section 109.7 Additional Plan Review Fees. Where plans are incomplete or changed so as to
19 require additional plan checking, an additional plan checking fee as established by the Board of
20 Supervisors shall be paid. Said fee may be waived when in the opinion of the Building Official the
21 additional fee is not warranted.

22 Section 109.8 Conversion Inspection Fee. A fee as established by the Board of Supervisors shall
23 be paid when a conversion inspection is required by the Building Official.

24 Note: The conversion fees do not include the fees for the building permit, nor fees for electrical,
25 plumbing or heating and ventilating permits covering the alterations and/or repairs of the conversion.

26 Section 7-1-22. SECTION 111 OF DIVISION II OF CHAPTER 1 AMENDED.

1 Section 111 of Division II of Chapter 1 of the 2013 California Building Code is hereby amended to
2 read as follows:

3 Section 111. CERTIFICATE OF OCCUPANCY

4 Section 111.1 Use and Occupancy. No building or structure shall be used or occupied, nor shall
5 the gas or electrical systems be energized, until the Building Official has determined compliance with
6 this Code, all other applicable ordinances and laws and the conditions of the building permit, and has
7 authorized occupancy of such building or structure by the issuance of a Certificate of Occupancy
8 therefore as provided herein. No change in the existing occupancy classification of a building or
9 structure or portion thereof shall be made until the Building Official has issued a Certificate of
10 Occupancy therefore as provided herein.

11 *Exception: Gas and electrical systems may be energized prior to the issuance of a Certificate of*
12 *Occupancy when properly authorized by the Building Official for the purpose of testing systems or*
13 *equipment.*

14 111.2 Certificate Issue. After the Building Official inspects the building or structure and finds no
15 violation of the provisions of this Code or other applicable laws and regulations, the Building Official
16 shall issue a Certificate of Occupancy.

17 Issuance of a Certificate of Occupancy shall not be construed as an approval of a violation of the
18 provisions of this Code or of other ordinances of the jurisdiction. Certificates presuming to give authority
19 to violate or cancel the provisions of this Code or other ordinances of the jurisdiction shall not be valid.

20 Note: Sections 111.3 and 111.4 are implemented as written.

21 Section 7-1-23. SECTION 113 OF DIVISION II OF CHAPTER 1 REPLACED.

22 Section 113 of Division II of Chapter 1 of the 2013 California Building Code is hereby replaced to
23 read as follows:

24 HEARING OFFICER

25 Section 113.1 General. In order to determine the suitability of alternate materials and methods of
26 construction and to provide for reasonable interpretations of this Code, there shall be and is hereby

1 created a Hearing Officer. Hearing Officer shall be appointed by the Director of OC Public Works.

2 Section 7-1-24. SECTION 114 OF DIVISION II OF CHAPTER 1 AMENDED.

3 Section 114 of Division II of Chapter 1 of the 2013 California Building Code is hereby amended to
4 read as follows:

5 VIOLATIONS AND PENALTIES.

6 Section 114.1. It shall be unlawful for any person, firm, or corporation to erect, construct,
7 enlarge, alter, repair, move, improve, remove, convert or demolish, equip, use, occupy, or maintain any
8 building or structure in the unincorporated area of the County of Orange, or cause or permit the same
9 to be done in violation of this Code.

10 Any person, firm, corporation violating any of the provisions of this Code shall be deemed guilty
11 of a misdemeanor, and each such person shall be deemed guilty of a separate offense for each and
12 every day or portion thereof during which any violation of any of the provisions of this Code is
13 committed, continued, or permitted, and upon conviction of any such violation such person shall be
14 punished by a fine of not more than Five Hundred Dollars (\$500) or by imprisonment for not more than
15 six (6) months, or by both such fine and imprisonment.

16 In addition to any such fine or imprisonment, the court may also require such party to correct of
17 mitigate the building violation to the satisfaction of the Building Official.

18 Section 114.1.1 In addition to the provisions of the subsections above, a notice of violation of this
19 Code may be recorded in accordance with the following procedures.

20 1. Notice of intent

21 A written notice of intent to record a notice of violation shall be served on the current
22 owner of record of the property. Such notice shall describe the property, the violation and the action
23 necessary to correct or mitigate the violation. The notice shall inform the owner that a notice of violation
24 will be recorded if the owner does not, within 20 days of receipt thereof, either correct the violation or
25 request a meeting with the Building Officials as set forth below. The notice shall include a copy of this
26 subsection 114.1.1 and be substantially as follows:

1 "Notice of Continuing Violation of the California and Orange County Building Code.

2 Notice is hereby given that the County of Orange has determined that a violation of the above
3 Code exists on the following described property (description). The violation consists of (description).

4 While a violation of the above Code exists, the County of Orange may refuse to approve
5 building or occupancy permits, subdivision maps, use permits, and other discretionary permits and
6 development approvals."

7 2. Correction of Violation

8 If, within 20 days of receipt of a notice of intent, the owner corrects the violation, no notice
9 of violation shall be recorded. The Building Official may grant extensions of time for good cause.

10 3. Meeting

11 If the owner requests a meeting, the Building Official shall schedule a
12 meeting. Notice of the meeting shall be served on the owner not less than 15 days prior thereto. The
13 Building Official may reschedule the meeting from time to time for a good cause with adequate notice to
14 the landowner. At the meeting, the owner may be represented by counsel and may present any
15 relevant evidence that violations do not exist.

16 4. Decision, Notice

17 Within 30 days following completion of the meeting, the Building
18 Official shall issue and serve on the owner his determination as to whether or not a notice of violation
19 will be recorded. This determination shall be supported by appropriate findings on all material issues
20 raised at the meeting. The decision of the Building Official shall be final with respect to recordation of a
21 notice of violation, but shall not affect other proceedings under Section 114.1.1.

22 5. Recordation

23 If the Building Official determines that a notice will be recorded, such notice shall be recorded
24 15 days or more days after service of notice of the decision.

25 6. Release of Notice

1 When a violation is corrected or mitigated to the satisfaction of
2 the Building Official, if a notice of violation had been recorded, the Building Official shall cause a release
3 to be recorded. Said release shall refer to the notice of violation and shall state that the violation
4 described therein has been corrected.

5 Note: The balance of Section 114 is implemented as written, except Section 114.4 is deleted.

6 Section 7-1-25. SECTION 117 OF DIVISION II OF CHAPTER 1 ADDED.

7 Division II of Chapter 1 of the 2013 California Building Code is hereby amended by adding Section 117 to
8 read as follows:

9 PLASTERING PERMITS, FEES

10 Section 117. It shall be unlawful for any person, firm or corporation, whether acting as principal,
11 agent or employee, to do or cause or permit to be done any plastering work, interior or exterior, within
12 the area covered by this Code without first obtaining a permit therefore from the Building Official, and
13 further:

14 1. Every applicant for a permit to plaster shall state, in writing on the application form
15 provided for that purpose, the character of the work proposed to be done and the amount and kind,
16 together with such information pertinent thereto, as may be required.

17 Such applicant shall pay for each permit issued a fee as established by the Board of
18 Supervisors.

19 3. Any person who shall commence on plastering work for which a permit is required by
20 this Code without having first obtained a permit therefore, shall, if subsequently permitted to obtain a
21 permit, pay double the fees fixed by this Code for such work.

22 Section 7-1-26. SECTION 1507.3 AMENDED.

23 Section 1507.3 of the 2013 California Building Code and the 2012 International Building Code is
24 hereby amended to add Section 1057.3.11 as follows:

25 Section 1507.3.11. For the design of fasteners for tile roofing materials, the unincorporated area
26

of the County shall be considered as a "Special Wind Region" with a basic wind speed over 80 miles per hour.

Note: The balance of Section 1507.3 is implemented as written.

Section 7-1-27. SECTION 1507 AMENDED

Section 1507 of the 2013 California Building Code and the 2012 International Building Code is hereby amended to add Section 1507.18 as follows:

Section 1507.18. The roof covering or roof assembly on any structure regulated by this Code shall be as specified and classified in Chapter 15.

Exceptions:

- 1. All new buildings and additions shall be minimum Class B roof.*
- 2. Re-roofing, repairs or replacements on buildings shall be of the same classification as the original roof except that non-rated and Class C roofs shall be a minimum Class C.*
- 3. When any re-roofing, repair or replacement to an existing roof exceeds 40 percent of the roof area, the entire roof shall be replaced with minimum class B roof.*
- 4. Roofing on buildings located within Wildland – Urban Interface Fire Area shall be Class A and meet additional requirements of Chapter 7A of the California Building Code.*

Note: The balance of Section 1507 is implemented as written.

Section 7-1-28. SECTION 1612.3 AMENDED.

Section 1612.3 of the 2013 California Building Code and the 2012 International Building Code is hereby amended to insert:

NAME OF JURISDICTION: COUNTY OF ORANGE

DATE OF ISSUANCE: FEBRUARY 18, 2004

NOTE: The balance of Section 1612.3 is implemented as written.

Section 7-1-29. SECTION 1704.2.4 AMENDED.

SPECIAL INSPECTIONS

Section 1704.2.4 of the 2013 California Building Code and the 2012 International Building Code is

hereby amended to add Section 1704.2.4.1 as follows:

Section 1704.2.4.1 Special Inspector. The special inspector shall be a qualified person who shall demonstrate competence, to the satisfaction of the Building Official, for inspection of the particular type of construction or operation requiring special inspection.

Each person applying for listing as a special inspector for the OC Public Works of the County of Orange shall provide evidence of experience and possess a valid Certification as a Special Inspector issued by the International Code Council (ICC) or equivalent as determined by the Building Official for each classification for which the person is applying.

A County of Orange registration card, which identifies the person as a special inspector in the appropriate category, shall be issued to each such person that has successfully completed the application and examination process as determined by the Building Official and upon payment of a registration fee as established by the Board of Supervisors.

The annual renewal of the registration cards shall occur on renewal date of ICC certification or equivalent for the classification being renewed. A renewal fee established by the Board of Supervisors for each inspection category shall be charged. The application and renewal fee shall be accompanied by appropriate evidence that the person's ICC or equivalent special inspector's certification is valid.

The Building Official may revoke any County of Orange special inspector's registration card at any time for due cause by written notice. This notice shall set forth the time and place a hearing shall be held before the Building Official at which time and place evidence would be submitted to show cause why the registration card should not be withdrawn. Failure to appear at such hearing by the special inspector may result in immediate revocation of said special inspector's registration card.

Note: The balance of Section 1704.2.4 is implemented as written.

Section 7-1-30. SECTION 403 AMENDED

Section 403 of the 2013 California Building Code and the 2012 International Building Code is hereby amended to replace the title of Section 403 and amend Sections 403.1 and 403.1.1 as follows:

Section 403. HIGH-RISE BUILDINGS HAVING OCCUPIED FLOORS LOCATED MORE THAN 55 FEET

1 ABOVE THE LOWEST LEVEL OF FIRE DEPARTMENT VEHICLE ACCESS AND GROUP I-2 OCCUPANCIES
2 HAVING OCCUPIED FLOORS LOCATED MORE THAN 75 FEET ABOVE THE LOWEST LEVEL OF THE FIRE
3 DEPARTMENT VEHICLE ACCESS.

4 Section 403.1 Applicability. New high-rise building having occupied floors located more than 55
5 feet above the lowest level of fire department vehicle access and new Group I-2 occupancies having
6 occupied floors located more than 75 feet above the lowest level of fire department vehicle access shall
7 comply with Sections 403.2 through 403.6.

8
9 Section 7-1-31. SECTION 202 AMENDED.

10 Section 202 of the 2013 California Building Code and the 2012 International Building Code is
11 hereby amended to add the definitions as follows:

12 Section 202 Definitions is hereby amended by adding the following definitions:

13 APPROACH DEPARTURE PATH. The flight path of the helicopter as it approaches or departs
14 from the landing pad.

15 EMERGENCY HELICOPTER LANDING FACILITY (EHLF). A landing area on the roof of a
16 building that is not intended to function as a heliport or helistop but is capable of
17 accommodating fire or medical helicopters engaged in emergency operations.

18 HIGH-RISE STRUCTURE. Every building of any type of construction or occupancy having
19 floors used for human occupancy located more than 55 feet above the lowest floor level
20 having building access, except buildings used as hospitals as defined in Health and Safety
21 Code Section 1250.

22 SAFETY AREA. A defined area surrounding the landing pad which is free of obstructions.

23 TAKEOFF AND LANDING AREA. The combination of the landing pad centered within the
24 surrounding safety area.

25 Section 7-1-32. SECTION 412.7 AMENDED

26 Section 412.7 of the 2013 California Building and the 2012 International Building Code is hereby

amended to add Sections 412.7.6 through 412.7.6.13 as follows:

Section 412.7.6 Emergency Helicopter Landing Facility. Emergency Helicopter Landing Facility (EHLF) shall be constructed as specified in Section 412.7.6.1 through 412.7.6.13.

Section 412.7.6.1 General. Every building of any type of construction or occupancy having floors used for human occupancy located more than 75 feet above the lowest level of the fire department vehicle access shall have a rooftop emergency helicopter landing facility (EHLF) in a location approved by the fire code official for use by fire, police, and emergency medical helicopters only.

Section 412.7.6.2 Rooftop Landing Pad. The landing pad shall be 50 feet by 50 feet or a 50 foot diameter circle that is pitched or sloped to provide drainage away from the access points and passenger holding areas at as slope of 0.5 percent to 2 percent. The landing pad surface shall be constructed of approved non-combustible, nonporous materials. It shall be capable of supporting a helicopter with a maximum gross weight of 15,000 pounds. For structural design requirements, see California Building Code.

Section 412.7.6.3 Approach-Departure Path. The emergency helicopter landing facility shall have two approach-departure paths separated in plan from each other by at least 90 degrees. No objects shall penetrate above the approach-departure paths. The approach-departure path begins at the edge of the landing pad, with the same width or diameter as the landing pad and is a rising slope extending outward and upward at a ratio of eight feet horizontal distance for every one foot of vertical height.

Section 412.7.6.4 Safety Area. The safety area is a horizontal plane level with the landing pad surface and shall extend 25 feet in all directions from the edge of the landing pad. No objects shall penetrate above the plane of the safety area.

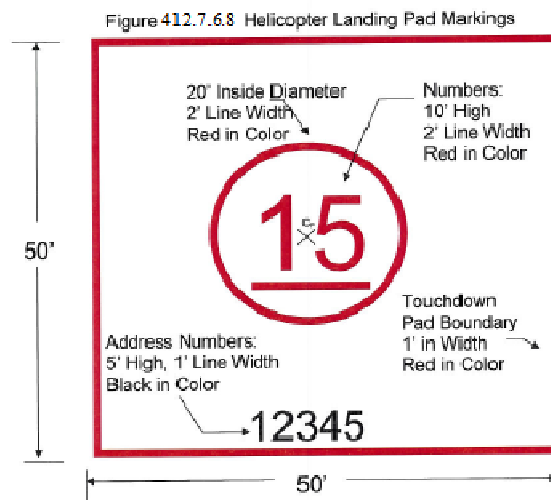
Section 412.7.6.5 Safety Net. If the rooftop landing pad is elevated more than 30 inches (2'-6") above the adjoining surfaces, a 6 foot wide horizontal safety net capable of supporting 25 lbs/psf shall be provided around the perimeter of the landing pad. The inner edge of the safety net attached to the landing pad shall be slightly dropped (greater than 5 inches but less than 18 inches) below the pad

elevation. The safety net shall slope upward but the outer safety net edge shall not be above the elevation of the landing pad.

Section 412.7.6.6 Take-off and Landing Area. The take-off and landing area shall be free of obstructions and 100 feet x 100 feet or 100 feet in diameter.

Section 412.7.6.7 Wind Indicating Device. An approved wind indicating device shall be provided but shall not extend into the safety area or the approach-departure path.

Section 412.7.6.8 Special Markings. The emergency helicopter landing facility shall be marked as indicated in Figure 412.7.6.8.



1. The preferred background is white or tan.
2. The circled, red numbers indicate the allowable weight that the facility is capable of supporting in thousands of pounds.
3. The numbers shall be oriented towards the preferred flight (typically facing the prevailing wind).

Section 412.7.6.9 EHLF Exits. Two stairway exits shall be provided from the landing platform area to the roof surface. For landings areas less than 2,501 square feet in area, the second exit may be a fire escape or ladder leading to the roof surface below. The stairway from the landing facility platform to the floor below shall comply with CFC 1009.4.2 for riser height and tread depth. Handrails shall be

provided, but shall not extend above the platform surface.

Section 412.7.6.10 Standpipe systems. The standpipe system shall be extended to the roof level on which the EHLF is located. All portions of the EHLF area be within 150 feet of a 2.5 inch outlet on a Class I or III standpipe.

Section 412.7.6.11 Fire extinguishers. A minimum of one portable fire extinguisher having a minimum 80-B:C rating shall be provided and located near the stairways or ramp to the landing pad. The fire extinguisher cabinets shall not penetrate the approach-departure paths, or the safety area. Installation, inspection, and maintenance of extinguishers shall be in accordance with the CFC, Section 906.

Section 412.7.6.13 EHLF. Fueling, maintenance, repairs, or storage of helicopters shall not be permitted.

Section 7-1-33. SECTION 903.2 AMENDED

Section 903.2 of the 2013 California Building Code and the 2012 International Building Code is hereby amended to read as follows:

[F] Section 903.2 Where required. Approved automatic sprinkler systems in buildings and structures shall be provided in the following locations:

1. New Buildings: Notwithstanding any applicable portions of Sections 903.2.1 through 903.2.12, an automatic fire-extinguishing system shall also be installed in all occupancies when the total building area, as defined in Section 502.1, exceeds 5,000 square feet (465 m²), or more than two stories in height, regardless of fire areas or allowable area.
Exception: Group R-3 occupancies. Group R-3 occupancies shall comply with Section 903.2.8.
2. Existing building. Notwithstanding any applicable provisions of this Code, an automatic sprinkler system shall be provided in an existing building when an addition occurs and when one of the following conditions exist.

- a. When the addition is 33% or more of the existing building area and the resulting building area, as defined by Section 502.1, exceeds 5,000 square feet (465m²); or
- b. When the addition exceeds 2,000 (185.81m²)square feet and the resulting building area, as defined by Section 502.1, exceeds 5,000 square feet (465m²); or
- c. An additional story is added above the second floor regardless of fire areas or allowable area.

Note: The balance of Section 903.2 beginning with Section 903.2.1 is implemented as written with exception that Section 903.2.8 is amended.

Section 7-1-34. SECTION 903.2.8 AMENDED.

Section 903.2.8 of the 2013 California Building Code and 2012 International Building Code is hereby amended to read as follows:

[F] 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 as follows:

1. New Buildings: An automatic sprinkler system shall be installed throughout all new buildings.
2. Existing buildings: All existing buildings shall be equipped with an automatic sprinkler when the alteration or addition meets the following conditions:
 - a. Alteration: When the area of the existing structure is greater than 5,500 square feet and the area of alteration within any two year period exceeds 50% of area of the existing structure.

Exception: When the cost of installing an approved automatic fire sprinkler exceeds 5% of the cost of the alteration, with the approval of the Fire Code Official, the required automatic fire sprinkler system may be omitted.

- b. Addition: The addition and existing building shall be equipped with an automatic sprinkler system when the total square footage of the structure, including any

addition greater than 550 square feet, is 5,500 square feet or greater.

Exception: When the cost of installing an approved automatic sprinkler system exceeds 5% of the cost of the addition, with the approval of the Fire Code Official, the required automatic sprinkler system may be omitted.

Note: The balance of Section 903.2.8, beginning with Exceptions, is implemented as written.

Section 7-1-35. SECTION 903.3 AMENDED

Section 903.3 of the 2013 California Building Code and the 2012 International Building Code is hereby amended as follows:

[F] Section 903.3.1.1.1 Exempt locations, is hereby amended by revising Exception 5 as follows:

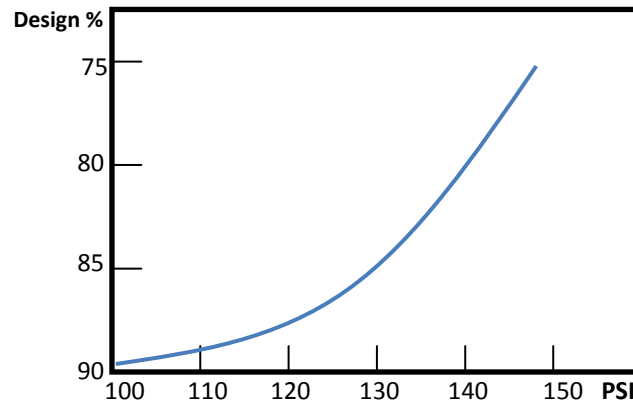
Exception:

5. When approved by the fire code official, spaces or areas in telecommunications buildings used exclusively for telecommunications equipment, and associated electrical power distribution equipment, provided those spaces or areas are equipped throughout with an automatic smoke detection system in accordance with Section 907.2 and are separated from the remainder of the building by fire barriers consisting of not less than 1-hour fire-barriers constructed in accordance with Section 707 or not less than 2-hour horizontal assemblies constructed in accordance with Section 712, or both.

[F] Section 903.3.5.3 Hydraulically calculated systems. The design of hydraulically calculated fire sprinkler systems shall not exceed 90% of the water supply capacity.

Exception: When static pressure exceeds 100 psi, and required by the Fire Code Official, the fire sprinkler system shall not exceed water supply capacity specified by Table 903.3.5.3

TABLE 903.3.5.3
Hydraulically Calculated Systems



Note: The balance of Section 903.3 is implemented as written.

Section 7-1-36. SECTION 903.4 AMENDED.

Section 903.4 of the 2013 California Building code and the 2012 International Building Code is hereby amended to read as follows:

[F] Section 903.4 Sprinkler system supervision and alarms. All valves controlling the water supply for automatic sprinkler systems, pumps, tanks, water levels and temperatures, critical air pressures and water-flow switches on all sprinkler systems shall be electronically supervised by a listed fire alarm control unit.

Exceptions:

1. Automatic sprinkler systems protecting one and two family dwellings.
2. Limited area systems serving fewer than 20 sprinklers.
3. Jockey pump control valves that are sealed or locked in the open position.
4. Valves controlling the fuel supply to fire pump engines that are sealed or locked in the open position.
5. Trim valves to pressure switches in dry, preaction and deluge sprinkler systems that are sealed or locked in the open position.

Note: The balance of Section 903.4, beginning with Section 903.4.1., is implemented as

written.

Section 7-1-37. DELETED.

Section 7-1-38. SECTION 905.4 AMENDED

Section 905.4 of the 2013 California Building Code and the 2012 International Building Code is hereby amended by adding item 7 as follows:

[F] Section 905.4 Location of Class 1 standpipe hose connections. Class 1 standpipe hose connections shall be provided in all of the following locations:

1. In every required stairway, a hose connection shall be provided for each floor level above or below grade. Hose connections shall be located at an immediate floor level landing between floors, unless otherwise approved by the fire code official. See Section 909.20.2.3 for additional provisions in smoke proof enclosures.

2. On each side of the wall adjacent to the exit opening of a horizontal exit.

Exception: Where floor areas adjacent to a horizontal exit are reachable from exit stairway hose connections by a nozzle attached to 100 feet (30 480 mm) of hose, as measured along the path of travel, a hose connection shall not be required at the horizontal exit.

3. In every exit passageway, at the entrance from the exit passageway to other areas of the building.

Exception: Where the floor areas adjacent to an exit passageway are reachable from exit stairway hose connections by a 30-foot (9144mm) hose stream from a nozzle attached to 100 feet (30 480mm) of hose, a hose connection shall not be required at the entrance from the exit passageway to other areas of the building.

4. In covered mall buildings, adjacent to each exterior public entrance to the mall and adjacent to each entrance from an exit passageway or exit corridor to the mall.

5. Where the roof has a slope less than four units vertical in 12 units horizontal (33.3

percent slope), each standpipe shall be provided with a hose connection located either on the roof or at the highest landing of a stairway with stair access to the roof. An additional hose connection shall be provided at the top of the most hydraulically remote standpipe for testing purposes.

6. Where the most remote portion of a non-sprinklered floor or story is more than 150 feet (45 720mm) from a hose connection or the most remote portion of a sprinklered floor or story is more than 150 feet (45 720mm) from a hose connection, the fire code official is authorized to require that additional hose connections be provided in approved locations. The distance from a hose connection shall be measured along the path of travel.

7. The centerline of the 2.5 inches (64mm) outlet shall be no less than 18 inches (457mm) above and no more than 24 inches (610mm) above the finished floor.

Note: The balance of Section 905.4 is implemented as written.

Section 7-1-39. SECTION 907.2.13 AMENDED.

Section 907.2.13 of the 2013 California Building Code and the 2012 International Building Code is hereby amended to read as follows:

[F] Section 907.2.13. High-rise building having occupied floors located more than 55 feet above the lowest level of fire department access and Group I-2 occupancies having floors located more than 75 feet above the lowest level fire department vehicle access. High-rise buildings having occupied floors located more than 55 feet above the lowest level of fire department vehicle access and Group I-2 occupancies having floors located more than 75 feet above the lowest level fire department vehicle access shall be provided with an automatic smoke detection in accordance with Section 907.2.13.1, a fire department communication system in accordance with Section 907.2.13.2 and an emergency voice/alarm communication system in accordance with Section 907.5.2.2.

Exceptions:

1. *Airport traffic control towers in accordance with Section 907.2.22 and Section 412.*

1 2. *Open parking garages in accordance with Section 406.3.*

2 3. *Buildings with occupancy in Group A-5 in accordance with Section 303.1.*

3 4. *Low-hazard special occupancies in accordance with Section 503.1.1.*

4 5. *In Group I-2 and R-2-1 occupancies, the alarm shall sound at a constantly attended*
5 *location and general occupant notification shall be broadcast by the emergency*
6 *voice/alarm communication system.*

7 Note: The balance of Section 907.2.13 is implemented as written.

8 Section 7-1-40. SECTION 907.3.1 AMENDED

9 Section 907.3.1 of the 2013 California Building Code and the 2012 International Building Code is
10 hereby amended to read as follows:

11 [F] Section 907.3.1 Duct Smoke Detectors. Smoke detectors installed in ducts shall be listed for
12 the air velocity, temperature and humidity present in the duct. Duct smoke detectors shall be connected
13 to the building's fire alarm control unit when a fire alarm system is installed. Activation of a duct smoke
14 detector shall initiate a visible and audible supervisory signal at a constantly attended location and shall
15 perform the intended fire safety function in accordance with this code and the California Mechanical
16 Code. Duct smoke detectors shall not be used as a substitute for required open area detection.

17 *Exception:*

18 *In occupancies not required to be equipped with a fire alarm system, actuation of a smoke*
19 *detector shall activate a visible and an audible signal in an approved location. Smoke detector*
20 *trouble conditions shall activate a visible and audible signal in an approved location and shall be*
21 *identified as air duct detector trouble.*

22 Section 7-1-41. SECTION 907.5.2.2 AMENDED

23 Section 907.5.2.2 of the 2013 California Building Code and the 2012 International Building Code
24 is hereby amended to read as follows:

25 [F] Section 907.5.2.2 Emergency voice/alarm communication system. Emergency voice/alarm
26

communication system required by this code shall be designed and installed in accordance with NFPA 72. The operation of any automatic fire detector, sprinkler waterflow device or manual fire alarm box shall automatically sound an alert tone followed by voice instructions giving approved information and directions for a general or staged evacuation in accordance with the building's fire safety and evacuation plans required by Section 404. In high-rise buildings having occupied floors located more than 55 feet above the lowest level of fire department vehicle access, and Group I-2 occupancies having floors located more than 75 feet above the lowest level of fire department vehicle access, the system shall operate on a minimum of the alarming floor, the floor above and the floor below. Speakers shall be provided throughout the building by paging zones. At a minimum, paging zones shall be provided as follows:

1. Elevator groups
2. Exit stairways
3. Each floor
4. Areas of refuge as defined in Section 1002.1
5. Dwelling units in apartment houses
6. Hotel guest rooms or suites

Exception: In Group I-1 and R-2.1 occupancies, the alarm shall sound in a constantly attended area and a general occupant notification shall be broadcast over the overhead page.

Note: The balance of Section 907.5.2.2 is implemented as written.

Section 7-1-42. SECTION 907.6 AMENDED

Section 907.6 of the 2013 California Building Code and the 2012 International Building Code is hereby amended to read as follows:

[F] Section 907.6.3.2 High-rise buildings. High rise buildings having occupied floors located more than 55 feet (16764 mm) above the lowest level of fire department vehicle access and Group I-2 occupancies having floors located more than 75 feet above the lowest level fire department vehicle

1 access, a separate zone by floor shall be provided for all of the following types of alarm-initiating devices
2 where provided:

- 3 1. Smoke detectors.
- 4 2. Sprinkler water-flow devices.
- 5 3. Manual fire alarm boxes.
- 6 4. Other approved types of automatic fire detection devices or suppression systems.

7 [F] Section 907.6.5 Monitoring. Fire alarm systems required by this chapter or by the California
8 Building Code shall be monitored by an approved supervising station in accordance with NFPA 72, this
9 section, and per Orange County Fire Authority Guideline "New and Existing Fire Alarm & Signaling
10 Systems."

11 Note: The balance of Section 907.6 is implemented as written.

12 Section 7-1-43. Chapter 7A AMENDED

13 Chapter 7A of the 2013 California Building Code is hereby amended to read as follows:

14 Section 710A.3.2. Detached accessory structures within 50 feet of an applicable building shall
15 comply with the requirements of this section.

16 Section 710A.4 Requirements. Accessory structures shall be constructed of non-combustible or
17 ignition-resistant materials.

18 Section 7-1-44 CHAPTER 35 AMENDED

19 Chapter 35 of the 2013 California Building Code and the 2012 International Building Code is
20 hereby amended to read as follows:

21 Chapter 35 Referenced Standards is hereby adopted and revised as follows:

22 NFPA 13, 2013 Edition, Installation of Sprinkler Systems is hereby amended as follows:

23 Section 6.8.3 is hereby revised as follows:

24 Section 6.8.3. Fire department connections (FDC) shall be of an approved type. The FDC shall
25 contain a minimum of two 2 ½ inch inlets. The location shall be approved and be no more than 150 feet
26

1 from a public hydrant. The size of piping and the number of inlets shall be approved by the chief. If
2 acceptable to the water authority, it may be installed on the backflow assembly. Fire department inlet
3 connections shall be painted OSHA safety red. When the fire sprinkler density design requires 500 gpm
4 (including inside hose stream demand) or greater, or a standpipe system is included, four 2 ½ inch inlets
5 shall be provided.

6 Section 8.3.3.1 is hereby revised as follows:

7 Section 8.3.3.1. When the fire sprinkler systems are installed in shell buildings of undetermined
8 use (Spec Buildings) other than warehouses (S occupancies), fire sprinklers of the quick-response type
9 shall be used. Use is considered undetermined if a specific tenant/occupant is not identified at the time
10 the permit is issued. Sprinklers in light hazard occupancies shall be one of the following.

- 11 1. Quick-response type as defined in 3.6.4,7
- 12 2. Residential sprinklers in accordance with the requirements of 8.4.5.
- 13 3. Standard-response sprinklers used for modifications or additions to existing light hazard
14 systems equipped with standard-response sprinklers
- 15 4. Standard-response sprinklers used where individual standard-response sprinklers are
16 replaced in existing high hazard systems

17 Section 8.17.1.1.1. is hereby added as follows:

18 Section 8.17.1.1.1 Residential Waterflow Alarms. A local water-flow alarm shall be provided on
19 all sprinkler systems and shall be connected to the building fire alarm or water-flow monitoring system
20 where provided. Group R occupancies not requiring a fire alarm system by the California Fire Code shall
21 be provided with a minimum of one approved interior alarm device in each unit. Interior alarm devices
22 shall be required to provide 55 dBA or 15 dBA above ambient, whichever is greater, throughout all living
23 spaces within each unit. Sound levels in all sleeping areas with all intervening doors closed shall be a
24 minimum of 15 dBA above the average ambient sound level but not less than 75 dBA, whichever is
25 greater. When not connected to a fire alarm or water-flow monitoring system, audible devices shall be
26

1 powered from an uninterruptible circuit (except for over-current protection) serving normally operated
2 appliances in the residence.

3 Section 11.1.1.2 is hereby added as follows:

4 Section 11.1.1.2. When fire sprinkler systems are required in buildings of undetermined use
5 other than warehouses, they shall be designed and installed to have a fire sprinkler density of not less
6 than that required for an Ordinary Hazard Group 2 use, with no reduction(s) in density or design area.
7 Warehouse fire sprinkler systems shall be designed to Figure 16.2.1.3.2 (d) curve "G". Use is
8 considered undetermined if a specific tenant/occupant is not identified at the time the permit is issued.
9 Where a subsequent occupancy requires a system with greater capability, it shall be the responsibility of
10 the occupant to upgrade the system to the required density for the new occupancy.

11 Section 11.2.3.1.1.1 is hereby added as follows:

12 Section 11.2.3.1.1.1. The available water supply for fire sprinkler system design shall be
13 determined by one of the following methods, as approved by the Fire Code Official:

- 14 1. Subtract the project site elevation from the low water level for the appropriate pressure
15 zone and multiply the result by 0.433;
- 16 2. Use a maximum of 40 psi, if available;
- 17 3. Utilize the Orange County Fire Authority water-flow test form/directions to document a
18 flow test conducted by the local water agency or an approved third party licensed in the
19 State of California.

20 Section 23.2.1.1 is hereby revised as follows:

21 Section 23.2.1.1. Where a waterflow test is used for the purposes of system design, the test shall
22 be conducted no more than 6 months prior to working plan submittal unless otherwise approved by the
23 authority having jurisdiction.

24 NFPA 13R 2013 Edition installation of sprinkler systems in residential occupancies up to and
25 including four stories in height is hereby amended as follows:
26

Section 6.16.1 is hereby revised as follows:

Section 6.16.1. A local water-flow alarms shall be provided on all sprinkler systems and shall be connected to the building fire alarm or water-flow monitoring system where provided. Group R occupancies containing less than the number of stories, dwelling units or occupant load specified in the 2013 California Fire Code as requiring a fire alarm system shall be provided with a minimum of one approved interior alarm device in each unit. Interior alarm devices shall be required to provide 55 dBA or 15 dBA above ambient, whichever is greater, throughout all living spaces within each dwelling unit. Sound levels in all sleeping areas with all intervening doors closed shall be a minimum of 15 dBA above the average ambient sound level but not less than 75 dBA, whichever is greater. When not connected to a fire alarm or water-flow monitoring system, audible devices shall be powered from an uninterruptible circuit (except for over-current protection) serving normally operated appliances in the residence.

There shall also be a minimum of one exterior alarm indicating device, listed for outside service and audible from the access roadway that serves the building.

NFPA 13D 2013 Edition installation of sprinkler systems in one and two-family dwellings and manufactured homes is hereby amended as follows:

Section 4.1.3 is hereby added as follows:

Section 4.1.3 Stock of Spare Sprinklers

Section 4.1.3.1. A supply of at least two sprinklers for each type shall be maintained on the premises so that any sprinklers that have operated or been damaged in any way can be promptly replaced.

Section 4.1.3.2 is hereby added as follows:

Section 4.1.3.2. The sprinklers shall correspond to the types and temperature ratings of the sprinklers on the property.

Section 4.1.3.3 is hereby added as follows:

Section 4.1.3.3. The sprinklers shall be kept in a cabinet located where the temperature to which

they are subjected will at no time exceed 100°F (38°C).

Section 4.1.3.4 is hereby added as follows:

Section 4.1.3.4. A special sprinkler wrench shall be provided and kept in the cabinet to be used in the removal and installation of sprinklers. One sprinkler wrench shall be provided for each type of sprinkler installed.

Section 7.1.2 is hereby revised as follows:

Section 7.1.2. The system piping shall not have a separate control valve unless supervised by a central station, proprietary or remote station alarm service.

Section 7.6 Alarms. Exterior alarm indicating device shall be listed for outside service and audible from the street from which the house is addressed. Exterior audible devices shall be placed on the front or side of the structure and the location subject to final approval by the fire code official. Additional interior alarm devices shall be required to provide 55 dBA or 15 dBA above ambient, whichever is greater, throughout all living spaces. Sound levels in all sleeping areas with all intervening doors closed shall be a minimum of 15 dBA above the average ambient sound level but not less than 75 dBA, whichever is greater. Audible devices shall be powered from an uninterruptible circuit (except for over-current protection) serving normally operated appliances in the residence.

Exceptions:

1. *When an approved water flow monitoring system is installed, interior audible devices may be powered through the fire alarm control panel.*
2. *When smoke detectors specified under the CBC Section 310.9 are used to sound an alarm upon waterflow switch activation.*

NFPA 24, 2013. Edition, installation of private fire service mains and their appurtenances is hereby amended as follows:

Section 6.2.1.1 is hereby added as follows:

Section 6.2.1.1. The closest upstream indicating valve to the riser shall be OSHA red.

Section 6.2.11 (5) is hereby deleted without replacement and (6) and (7) renumbered:

Section 6.2.11 (5) Control Valves installed in a fire-rated room accessible from the exterior.

Section 6.2.11 (6) Control Valves in a fire-rated stair enclosure accessible from the exterior as permitted by the authority having jurisdiction.

Section 6.3.3 is hereby added as follows;

Section 6.3.3. All post indicator valves controlling fire suppression water supplies shall be a painted OSHA red.

Section 10.1.6.3 is hereby added as follows:

Section 10.1.6.3. All ferrous pipe shall be coated and wrapped. Joints shall be coated and wrapped after assembly. All fittings shall be protected with a loose 8-mil polyethylene tube. The ends of the tube shall extend past the joint by a minimum of 12 inches and be sealed with a 2 inch wide tape approved for underground use. Galvanizing does not meet the requirements of this section.

Exception: 304 or 316 Stainless steel pipe and fittings.

Section 10.3.6.2 is hereby revised as follows:

Section 10.3.6.2. All bolted joint accessories shall be cleaned and thoroughly coated with asphalt or other corrosive-retarding material, prior to poly-tube, and after installation.

Exception: Bolted joint accessories made from 304 or 316 stainless steel.

Section 10.3.6.3 is hereby added as follows:

Section 10.3.6.3. All bolts used in pipe-joint assembly shall be 316 stainless steel.

Section 10.6.3.1 is hereby revised as follows:

Section 10.6.3.1. Where fire service mains enter the building adjacent to the foundation, the pipe may run under a building to a maximum of 24 inches, as measured from the interior face of the exterior wall to the center of the vertical pipe. The pipe under the building or building foundation shall be 304 or 316 stainless steel and shall not contain mechanical joints or it shall comply with 10.6.2.

Section 10.6.4 is hereby revised as follows:

1 Section 10.6.4. Pipe joints shall not be located under foundation footings. The pipe under the
2 building or building foundation shall be 304 or 316 stainless steel and shall not contain any mechanical
3 joints.

4 Section 7-1-45. SECTION 3109 ADOPTED AND AMENDED

5 Section 3109 of the 2013 California Building Code, and 2012 International Building Code is hereby
6 adopted and amended to read as follows:

7 Section 3109 SWIMMING POOL ENCLOSURES AND SAFETY DEVICES

8 Section 3109.1 General. Swimming pools shall comply with the requirements of this section and
9 other applicable sections of this Code.

10 Section 3109.2 Definitions. The following word and term shall, for the purpose of this section and
11 as used elsewhere in this Code, have the meaning shown herein.

12 SWIMMING POOLS. Any structure intended for swimming, recreational bathing or wading that
13 contains water over 18 inches (457.2mm) deep. This includes in-ground, above-ground and on-ground
14 pools; spas and fixed-in-place wading pools. See Section 3102B for definition of private pools and public
15 pools.

16 Section 3109.3 Public swimming pools. Public swimming pools shall comply with Chapter 31B.

17 Section 3109.4 Private swimming pools. Private swimming pools shall comply with Section
18 3109.4.1 through 3109.4.3.

19 Section 3109.4.1 Barrier height and clearances. The top of the barrier shall be at least 60 inches
20 (1524mm) above grade measured on the side of the barrier that faces away from the swimming pool.
21 The maximum vertical clearance between grade and the bottom of the barrier shall be 2 inches (51mm)
22 measured on the side of the barrier that faces away from the swimming pool. Where the top of the pool
23 structure is above grade, the barrier is authorized to be at ground level or mounted on top of the pool
24 structure, and the maximum vertical clearance between the top of the pool structure and the bottom of
25 the barrier shall be 4 inches (102mm),
26

Note: The balance of Section 3109, beginning with Section 3109.4.1 is implemented as written, except Section 3109.4.2 is deleted.

Section 7-1-46 SECTION 3405.2.4 ADDED

Section 3405.2 of the 2013 California Building Code and 2012 International Building Code is amended by adding Section 3405.2.4 to read as follows:

Section 3405.2.4 Seismic evaluation and design procedures for repairs. The seismic evaluation and design shall be based on the procedures specified in the California Building Code, ASCE 31 Seismic Evaluation of Existing Buildings (for evaluation only) or ASCE 41 Seismic Rehabilitation of Existing Buildings. The procedures contained in Appendix A of the International Existing Building Code shall be permitted to be used as specified in Section 3403.5.1.1.3.

Section 3405.2.4.1 Compliance with CBC level seismic forces. Where compliance with the seismic design provisions of the California Building Code is required, the procedures shall be in accordance with one of the following:

1. One-hundred percent of the values in the California Building Code. Where the existing seismic force-resisting system is a type that can be designated as "Ordinary", the values of R_7 , Ω_0 and C_d for analysis in accordance with Chapter 16 of the California Building Code shall be those specified for structural systems classified as "Ordinary" in accordance with Table 12.2-1 of ASCE 7, unless it is demonstrated that the structural system will provide performance equivalent to that of a "Detailed", "Intermediate" or "Special" system
2. Compliance with ASCE 41 using both BSE-1 and BSE-2 earthquake hazard levels and the corresponding performance levels in Table 3405.2.4.1.

TABLE 3405.2.4.1

PERFORMANCE CRITERIA FOR CBC LEVEL SEISMIC FORCES

OCCUPANCY CATEGORY (BASED ON CBC TABLE 1604.5)	PERFORMANCE LEVEL FOR USE WITH ASCE 41 BSE-1 EARTHQUAKE HAZARD LEVEL	PERFORMANCE LEVEL FOR USE WITH ASCE 41 BSE-2 EARTHQUAKE HAZARD LEVEL
I	Life Safety (LS)	Collapse Prevention (CP)

II	Life Safety (LS)	Collapse Prevention (CP)
III	Note a	Note a
IV	Immediate Occupancy (IO)	Life Safety (LS)

- a. Acceptance criteria for Occupancy Category III shall be taken as 80 percent of the acceptance criteria specified for Occupancy Category II performance levels, but not need be less than the acceptance criteria specified for Occupancy Criteria IV performance levels.

Section 3405.2.4.2 Compliance with reduced CBC level seismic forces. Values where seismic evaluation and design is permitted to meet reduced California Building Code seismic force levels, the procedures used shall be as in accordance with one of the following:

1. The California Building Code using 75 percent of the prescribed forces. Values OF R_7, Ω_0 , and C_d used for analysis shall be as specified in Section 3405.2.4.1., Item 1.
2. Structures or portions of structures that comply with the requirements of the applicable chapter in Appendix A of the International Existing Building Code as specified in Items 2.1 through 2.5 below shall be deemed to comply with this section.
 - 2.1 The seismic evaluation and design of unreinforced masonry bearing wall buildings in Occupancy Category I and II are permitted to be based on the procedures specified in Appendix Chapter A1.
 - 2.2 Seismic evaluation and design of the wall anchorage system in reinforced concrete and reinforced masonry wall buildings with flexible diaphragms in Occupancy Category I or II are permitted to be based on the procedures specified in Appendix Chapter A2.
 - 2.3 Seismic evaluation and design of cripple walls and sill plate anchorage in residential buildings of light-frame wood construction in Occupancy Category I or II are permitted to be based on the procedures specified in Appendix Chapter A3.

2.4 Seismic evaluation and design of soft, weak, or open-front walls conditions in multiunit residential buildings of wood construction in Occupancy Category I or II are permitted based on the procedures specified in Appendix Chapter A4.

2.5 Seismic evaluation and design of concrete buildings in all Occupancy Categories are permitted to be based on the procedures specified in Appendix Chapter A5.

3. Compliance with ASCE 31 based on the applicable performance level as shown in Table 3405.2.4.2. It shall be permitted to use the BSE-1 earthquake hazard level as defined in ASCE 41 and subject to the limitations in item 4 below.

4. Compliance with ASCE 41 using the BSE-1 Earthquake Hazard Level defined in ASCE 41 and the performance level as shown in Table 3405.2.4.2. The design spectral response acceleration parameters S_{xs} and S_{x1} specified in ASCE 41 shall not be taken less than 75 percent of the respective design spectral response acceleration parameters S_{DS} and S_{D1} defined by the California Building Code and its reference standards.

TABLE 3405.2.4.2

PERFORMANCE CRITERIA FOR REDUCED CBC

LEVEL SEISMIC FORCES

<i>OCCUPANCY CATEGORY (BASED ON CBC TABLE 1604.5)</i>	<i>PERFORMANCE LEVEL FOR USE WITH ASCE 31</i>	<i>PERFORMANCE LEVEL FOR USE WITH ASCE 41 BSE-1 EARTHQUAKE HAZARD LEVEL</i>
I	Life Safety (LS)	Life Safety (LS)
II	Life Safety (LS)	Life Safety (LS)
III	Note a, Note b	Note a
IV	Immediate Occupancy (IO)	Immediate Occupancy (IO)

a. Acceptance criteria for Occupancy Category III shall be taken as 80 percent of the acceptance criteria specified for Occupancy Category II performance levels, but need not be less than the acceptance criteria specified for Occupancy Category IV performance levels.

b. For Occupancy Category III, the ASCE screening phase

checklists shall be based on the life safety performance level.

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Section 3405.2.4.3 Referenced Standards

Standard Reference Number	Title	Reference in Code Section Number
ASCE 31-03	Seismic Evaluation of Existing Buildings	3405.2.4.1 TABLE 3405.2.4.1. 3405.242 TABLE 3405.2.4.2
ASCE 41-06 Including Supplement NO. 1	Seismic Rehabilitation of Existing Buildings	3405.2.4.1 TABLE 3405.2.4.1 3405.2.4.2 TABLE 3405.2.4.2.

Section 7-1-47. TABLE R301.2 (1) AMENDED

Table R301.2 (1) is revised to read

GROUND SNOW LOAD	WIND DESIGN		SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP ^e	ICE BARRIER UNDERLAYMENT REQUIRED ^h	FLOOD HAZARDS ^g	AIR FREEZING INDEX ⁱ	MEAN ANNUAL TEMP ^j
	SPEED ^d (mph)	Topographic effects ^k		Weathering ^a	Frostline Depth ^b	Termite ^c					
Zero	85	NO	D ₃ or E	Negligible	12-24"	Very Heavy	43	NO	See Table A	0	60

- a. Weathering may require a higher strength concrete or grade of masonry than necessary to satisfy the structural requirements of this Code. The weathering column shall be filled in with the weathering index (i.e. "negligible", "moderate" or "severe") for concrete as determined from the Weathering Probability Map [Figure R301.2(3)]. The grade of masonry units shall be determined from the ASTM C 34, C 55, C 62, C 73, C 90, C 129, C 145, C 216 or C 652.

- 1 b. The frost line depth may require deeper footings than indicated in Figure R403.1 (1).
2 The jurisdiction shall fill in the frost line depth column with the minimum depth of
3 footing below finish grade.
- 4 c. The jurisdiction shall fill in this part of the table to indicate the need for protection
5 depending on whether there has been a history of local subterranean termite
6 damage.
- 7 d. The jurisdiction shall fill in this part of the table with the wind speed from the basic
8 wind speed map [Figure R301.2(4)] Wind exposure category shall be determined on
9 a site-specific basis in accordance with Section R301.2.1.4.
- 10 e. Temperatures shall be permitted to reflect local climates or local weather experience
11 as determined by the Building Official.
- 12 f. The jurisdiction shall fill in this part of the table with the seismic design category
13 determined from Section R301.2.2.1.
- 14 g. The jurisdiction shall fill in this part of the table with (a) the date of the jurisdiction's
15 entry into the National Flood Insurance Program (date of adoption of the first code
16 or ordinance for management of flood hazard areas), (b) the date(s) of the Flood
17 Insurance Study and (c) the panel numbers and dates of all currently effective
18 FIRMs and FBFMs or other flood hazard map adopted by the authority having
19 jurisdiction, as amended.
- 20 h. In accordance with Sections R905.2.7.1, R905.4.3.1, R905.5.3.1, R905.6.3.1,
21 R905.7.3.1 and R905.8.3.1, where there has been a history of local damage from
22 the effects of ice damming, the jurisdiction shall fill in this part of the table with
23 "YES". Otherwise, the jurisdiction shall fill in this part of the table with "NO".
- 24 i. The jurisdiction shall fill in this part of the table with the 100-year return period air
25 freezing index (BF-days) from Figure R403.3 (2) or from the 100-year (99%) value
26

on the National Climatic Data Center data table "Air Freezing Index-USA Method (Base 32°F) at www.ncdc.noaa.gov/fpsf.html.

- j. The jurisdiction shall fill in this part of the table with the mean annual temperature from the National Climatic Data Center data table "Air Freezing Index-USA Method (Base 32°F)" at www.ncdc.noaa.gov/fpsf.html.
- k. In accordance with Section R301.2.1.5 where there is local historical data documenting structural damage to buildings due to topographic wind speed-up effects, the jurisdiction shall fill in this part of the table with "YES". Otherwise, the jurisdiction shall indicate "NO" in this part of the table.

TABLE A

<i>Community Name</i>	<i>Community Number</i>	<i>Located on Panels</i>	<i>Initial NFIP Map Date</i>	<i>Initial Firm Date</i>	<i>Most Recent Firm Panel Date</i>
Orange County Unincorporated Areas	060212	28, 29, 33, 34 ¹ , 38, 42, 55 ¹ , 58, 59 ¹ , 61, 62, 63, 64, 66, 67 ¹ , 68, 69, 90, 95, 108, 112, 113, 114, 116, 117, 118, 129, 136, 137, 138, 151, 153, 154, 156, 157, 158, 159, 162, 164, 166, 167, 168, 169, 180, 185, 190, 195, 225 ¹ , 226, 227, 229, 231, 233, 234, 241, 242, 251, 256, 264, 267, 269, 277, 278, 281, 282, 286, 294, 305, 306, 307, 308 ¹ , 309, 315, 316, 317, 326, 327, 328, 329 ¹ , 335, 336, 337, 338, 339, 345, 375 ¹ , 377, 404, 406 ¹ , 407, 408, 409, 412, 416, 417, 419, 426, 428, 432, 434, 436, 438, 441, 442, 444, 451, 452, 453, 454, 460, 465, 470, 500, 526, 527 ¹ , 529 ¹ , 535 ¹	1/10/75	9/14/79	12/3/09

¹ PANEL NOT PRINTED – NO SPECIAL FLOOD HAZARD AREAS

Section 7-1-48. SECTION R313.1 AMENDED

Section R313.1 of the 2013 California Residential Code is hereby amended to read as follows:

Section R313.1. Townhouse Automatic Fire Sprinkler Systems. Fire sprinkler systems shall be provided as required under Section 903.2.8 of the California Building Code with amendments by County Ordinance.

Note: The balance of Section R313.1, beginning with Section R313.1.1. is implemented as

written.

Section 7-1-49. SECTION R313.2 AMENDED

Section R313.2 of the 2013 California Residential Code is hereby amended to read as follows:

Section R313.2. One and Two Family Dwellings Automatic Fire Sprinkler Systems. Fire sprinkler systems shall be provided as required under Section 903.2.8 of the California Building Code with amendments by the County Ordinance.

Note: The balance of Section R313.2, beginning with Section R313.2.1 is implemented as written.

Section 7-1-50. SECTION R403.1.3 AMENDED

Section R403.1.3 of the 2013 California Residential Code is hereby amended to read as follows:

Section R403.1.3 Seismic Reinforcing. Concrete footings located in Seismic Design Categories D₀, D₁, and D₂ as established in Table R301.2(1), shall have minimum reinforcement. Bottom reinforcement shall be located a minimum of 3 inches (76mm) clear of the bottom of the footing.

In Seismic Design Categories D₀, D₁, D₂ where a construction joint is created between a concrete footing and a stem wall, a minimum of one No. 4 bar shall be installed at not more than 4 feet (1219mm) on center. The vertical bar shall extend to 3 inches (76mm) clear of the bottom of the footing, have a standard hook and extend a minimum of 14 inches (357mm) into the stem wall.

In Seismic Design Categories D₀, D₁ and D₂, where a grouted masonry stem wall is supported on a concrete footing and stem wall, a minimum of one No. 4 bar shall be installed at not more than 4 feet (1219mm) on center. The vertical bar shall extend to 3 inches (76mm) clear of the bottom of the footing and have a standard hook.

In Seismic Design Categories D₀, D₁ and D₂ masonry stem walls without solid grout and vertical reinforcing are not *permitted*.

Note: The balance of Section R403.1.3, beginning with Section R403.1.3.1 is implemented as written.

Section 7-1-51. SECTION R405.1 AMENDED

Section R405.1 of the 2013 California Residential Code is hereby amended to read as follows:

Section R405.1 Concrete or masonry foundations. Drains shall be provided around all concrete or masonry foundations that retain earth and enclose habitable or usable spaces located below grade. Drainage tiles, gravel, or crushed stone rains, perforated pipe or other approved systems or materials shall be installed at or below the area to be protected and shall discharge by gravity or mechanical means into an approved drainage system. Gravel or crushed stone drains shall extend at least 1 foot (305mm) beyond the outside edge of the footing and 6 inches (152mm) above the top of the footing and be covered with an approved filter membrane material. The top of open joints of drain tiles shall be protected with strips of building paper, and the drainage tiles or perforated pipe shall be placed on a minimum of 2 inches (51mm) of washed gravel or crushed rock at least one sieve size larger than the tile joint opening or perforation and covered with not less than 6 inches (152mm) of the same material.

Note: The balance of Section 405.1, beginning with Section 405.1.1 is implemented as written.

Section 7-1-52. SECTION R902.1 REPLACED

Section R902.1 of the 2013 California Residential Code is hereby amended to read as follows:

Section R902.1 Roofing covering materials. Roofs shall be covered with materials as set forth in Section R904 and R905. A minimum Class A,B or C roofing shall be installed in areas designated by this section. Classes A,B and C roofing required by this section to be listed shall be tested in accordance with UL 790 or ASTM E 108.

Exceptions:

- 1. All new buildings and additions shall be minimum Class B roof.*
- 2. Re-roofing, repairs or replacements on buildings shall be of the same classification as the original roof except that non-rated and Class C roofs shall be a minimum Class C.*
- 3. When any re-roofing, repair or replacement to an existing roof exceeds 40 percent of the roof area, the entire roof shall be replaced with a minimum Class B roof.*

1 4. *Roofing on buildings located within Wildland – Urban Interface Fire Area shall be Class A and*
2 *meet additional requirements of Chapter 7A of the California Building Code.*

3 For the design of fasteners for tile roofing materials, the unincorporated area of the County
4 shall be considered as a "Special Wind Region" with a basic wind speed over 80 miles per hour.

5 Note: The balance of Section R902.1, beginning with Section R902.1.1 is implemented as
6 written.

7 Section 7-1-53. CHAPTER 44 AMENDED

8 Chapter 44 Referenced Standards of the 2013 California Residential Code is hereby adopted in its
9 entirety with the same amendments for Chapter 35 Reference Standards of the 2010 California Building
10 Code.

11 Section 7-1-54. SECTION 105.2 OF DIVISION II OF CHAPTER 1 AMENDED.

12 Section 105.2 of Division II of Chapter 1 of the 2013 California Residential Code is hereby
13 amended to replace items 1 and 2, and add item 11 as follows:

14 (1) One-story detached accessory buildings used as tool and storage sheds, play houses
15 and similar uses, provided the floor area does not exceed 120 square feet, and the structure is at least 3
16 feet from property line and 6 feet from other buildings or structures located on the same property.

17 (2) Fences not over six (6) feet high. Exception: Walls and fences less than six (6) feet in
18 height which are required as a condition of project approval to have permits.

19 (11) Other incidental structures and improvements of a minor nature may be exempt from
20 the provisions of this Code upon the determination of the Building Official.

21 Note: The balance of Section 105.2 is implemented as written.

22 Section 7-1-55. SECTION 202 AMENDED

23 Section 202 of the 2013 California Green Building Standards Code is hereby amended to add a
24 definition to read as follows:
25

26 Sustainability. Consideration of present development and construction impacts on the

community, the economy, and the environment without compromising the needs of the future.

Section 7-1-56. SECTION 4.304.1 AMENDED

Section 4.304.1 of the 2013 California Green Building Standards Code is hereby amended to read as follows;

Section 4.304.1. Irrigation controllers. Automatic irrigation system controllers for landscaping provided and installed at the time of final inspection and shall comply with the following:

1. Controllers shall be weather or soil moisture-based irrigation controllers that automatically adjust irrigation in response to changes in plants' needs as weather conditions change.
2. Weather-based controllers without integral rain sensors or communication systems that account for local rainfall shall have a separate wired or wireless rain sensor which connects or communicates with the controller(s). Soil moisture-based controllers are not required to have rain sensor input.

Note: More information regarding irrigation controller function and specifications is available from the Irrigation Association.

This ordinance shall take effect and be in full force thirty (30) days from and after its passage and before the expiration of fifteen (15) days after the passage thereof, shall be published once in an adjudicated newspaper in the County of Orange.

THE FOREGOING was PASSED and ADOPTED by the following vote of the Orange County Board of Supervisors on December 17, 2013, to wit:

AYES: Supervisors: JOHN M.W. MOORLACH, SHAWN NELSON, JANET NGUYEN,
TODD SPITZER, PATRICIA BATES

NOES:

EXCUSED:

ABSTAINED:

(Signature on File)

Susan Novak, Clerk of the Board of Supervisors, County of Orange, California