

ORDINANCE NO. ~~186488~~ \_\_\_\_\_

An ordinance amending Chapter IX of the Los Angeles Municipal Code to incorporate by reference certain portions of the 2018 International Building Code and the 2019 Edition of the California Building Code and to make local administrative, climatic, geologic or topographical changes.

**WHEREAS**, California Health and Safety Code Sections 17958.5 and 17958.7 authorize the City Council to make reasonably necessary changes or modifications to the provisions of the California Building Standards Code (Title 24, California Code of Regulations) upon finding these changes are reasonably necessary due to local administrative, climatic, geologic or topographical conditions;

**WHEREAS**, the City of Los Angeles has geological conditions, such as the San Andreas Fault and other earthquake faults, which run through, adjacent and under the City;

**WHEREAS**, the City of Los Angeles is located in Seismic Zone 4, which is considered by experts to be the most seismically active of the four seismic zones in the world;

**WHEREAS**, seismic experts predict a massive earthquake on one of these faults within the next 30 years and several earthquakes similar in intensity to the 1994 Northridge Earthquake (6.8 magnitude) during the same period;

**WHEREAS**, massive earthquakes pose unusual and extraordinary stresses on buildings and structures requiring more stringent building regulations than would otherwise be required;

**WHEREAS**, in 1999, large pockets of methane gas in the subsurface geological formation were discovered in various areas of the City of Los Angeles;

**WHEREAS**, the City of Los Angeles has topographic conditions, natural and man-made, such as the natural hills, mountains and the coastal region, as well as the man-made harbors and highly concentrated areas of high-rise buildings;

**WHEREAS**, the City of Los Angeles has flat land and hillside areas that create a natural basin with high strong winds which contribute to the spread of fires;

**WHEREAS**, in the highly concentrated area of high-rise buildings, traffic congestion and possible gridlock may jeopardize the quick response to fires by the Fire Department;

**WHEREAS**, the City of Los Angeles has climatic conditions, which subject it to a mild winter, an extremely hot desert-like summer, and hot, dry (Santa Ana) winds that

make the temperature rise and the humidity drop, increasing the fire danger to all exposed combustible materials; and

**WHEREAS**, in support of the following modifications and changes, the City Council hereby expressly finds that the following amendments and modifications to the California Building Standards Code are reasonably necessary due to local administrative, climatic, geological or topographical conditions.

**NOW, THEREFORE,**

**THE PEOPLE OF THE CITY OF LOS ANGELES  
DO ORDAIN AS FOLLOWS:**

Section 1. The second paragraph of Subsection 91.101.1 of Section 91.101, Division 1, Article 1, Chapter IX of the Los Angeles Municipal Code (LAMC) is amended to read as follows:

The Los Angeles Building Code and the Los Angeles Residential Code adopt by indicated reference portions of the 2019 California Building Code (CBC) or the 2019 California Residential Code (CRC) located at Title 24 of the California Code of Regulations (CCR).

Sec. 2. Subsection 91.101.3 of Section 91.101, Division 1, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.101.3. Application.** Chapters 1 through 97 of the LABC as published by the International Code Council (hereinafter referred to as the published code), are Divisions 1 through 97, respectively, of Article 1, Chapter IX of the LAMC. Only the division and section numbers are stated in the published code, for uniformity with the CBC. For the complete LAMC section number, each code section number specified in Chapters 1 through 97 of the published code shall be presumed to be preceded by two digits and a decimal point (specifically "91."). For example, this section is Section 91.101.3 of the LAMC.

Sec. 3. Subsection 91.106.1.3 of Section 91.106, Division 1, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.106.1.3. Temporary Permits.** Before commencing the construction of any work for temporary use, a building permit authorizing such work shall be obtained from the Department. Such construction shall be occupied or used only for the period set forth on the permit application, but shall not exceed 180 days.

Except for tents and bleachers, application for permit shall be filed at least seven days prior to the construction, erection or operation of any device, structure, or any work regulated by this article for temporary use.

All temporary construction or installations shall be demolished or removed within five days after the expiration of the Certificate of Occupancy. Requests for inspection must be received by the department at least two days prior to public use or occupancy.

Sec. 4. Subsection 91.106.3.2.2 of Section 91.106, Division 1, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.106.3.2.2. Number of Sets of Plans.** Each application for a permit shall be accompanied by two sets of plans and specifications for plan checking.

The number of sets of plans and specifications submitted with each application for a building permit shall comply with the regulations of LAMC Subdivision 91.106.3 of this Code.

**EXCEPTION:** The Superintendent of Building may waive the requirement for plans and specifications as required in this article if the Superintendent of Building finds that the information on the application is sufficient to show that the work will conform to the provisions of this Code and other relevant laws.

Sec. 5. Subsection 91.106.3.3.1 of Section 91.106, Division 1, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.106.3.3.1. General.** All plans and specifications submitted to the Department for checking shall be drawn with ink or indelible pencil, or shall be made by a reproduction process approved by the department. The first sheet of each set of plans and specifications shall give the street address of the work and the name and address of the owner of the building.

The plans and specifications shall be of sufficient clarity to indicate the nature and extent of the proposed work and to show in detail that it will conform to the provisions of this Code and of relevant laws, ordinances, rules, regulations and orders.

Plans for buildings more than two stories in height of other than Group R, Division 3 and Group U Occupancies shall indicate how required structural and fire resistive integrity will be maintained where a penetration will be made for electrical, mechanical, plumbing and communication conduits, pipes and similar systems.

In lieu of detailed specifications, the Department may approve reference on the plans to a specific section, subsection or paragraph of this Code or other ordinance or law.

Distances and dimensions on the plans, when required to show conformity with the provisions of this Code, shall be done in figures.

When required by LAMC Subsection 91.1704.3, a statement of special inspection prepared by the registered engineer or licensed architect responsible for the design of the project shall be included with the set of plans.

Sec. 6. Subsection 91.106.3.3.3 of Section 91.106, Division 1, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.106.3.3.3. Design Professional in Responsible Charge.** Where it is required that documents be prepared by a registered design professional, the Superintendent of Building shall have authority to require the owner or owner's authorized agent to engage and designate on the building permit application a registered design professional who shall act as the registered design professional in responsible charge. If the circumstances require, the owner or the owner's authorized agent shall designate a substitute registered design professional in responsible charge who shall perform the duties require of the original registered design professional in responsible charge. The Superintendent of Building shall be notified in writing by the owner or owner's authorized agent if the registered design professional in responsible charge is changed or is unable to continue to perform the duties.

The registered design professional in responsible charge shall be responsible for reviewing and coordinating submittal documents prepared by others, included phased and deferred submittal items for compatibility with the design of the building.

Sec. 7. A new Subsection 91.106.3.3.3.1 is added to Section 91.106, Division 1, Article 1, Chapter IX of the LAMC to read as follows:

**91.106.3.3.3.1. Deferred Submittals.** Deferral of any submittal items shall have the prior approval of the Superintendent of Building. The registered design professional in responsible charge shall list the deferred submittals on the construction documents for review by the Superintendent of Building.

Documents for deferred submittal items shall be submitted to the registered design professional in responsible charge who shall review them and forward them to the Superintendent of Building with a notation indicating that the deferred submittal documents have been reviewed and found to be in general conformance to the design of the building. The deferred submittal items shall not be installed until the deferred submittal documents have been approved by the Superintendent of Building.

Sec. 8. A new Subsection 91.106.3.3.5 is added to Section 91.106, Division 1, Article 1, Chapter IX of the LAMC to read as follows:

**91.106.3.3.5. Exterior Balconies and Elevated Walking Surfaces.** Where balconies or other elevated walking surfaces are exposed to water from direct or blowing rain, snow, or irrigation, and the structural framing is protected by an impervious moisture barrier, the construction documents shall include details for all elements of the

impervious moisture barrier system. The construction documents shall include manufacturer's installation instructions.

Sec. 9. Paragraph A of Exception 15 of Subsection 91.106.4.1 of Section 91.106, Division 1, Article 1, Chapter IX of the LAMC is amended to read as follows:

A. The applicant incorporates into the development to the satisfaction of the Bureau of Sanitation of the Department of Public Works, best management practices necessary to control storm water pollution in accordance with the "Low Impact Development Ordinance" (Ord. No. 181,899) and the "Planning and Land Development Best Management Practices Handbook, Low Impact Development Manual, Part B Planning Activities" adopted by the Board of Public Works as authorized by LAMC Section 64.72; and

Sec. 10. Subsection 91.107.3.2 of Section 91.107, Division 1, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.107.3.2. Preinspection Fees.** The Department shall collect a fee of \$121.00 for each of the following:

1. **Grading Preinspection.** A grading preinspection fee shall be collected for any building permit application involving work in the hillside grading area and for all grading plans submitted to the Department.

**EXCEPTION:** The grading preinspection fee may be waived when the Department determines that the nature of the work does not require preinspection of the work site.

2. **Sign Preinspection.** A sign preinspection fee shall be collected when a permit application is filed for construction, replacement, alteration or repair of a sign.

**EXCEPTION:** The sign preinspection fee may be waived when the Department determines that the nature of the sign does not require preinspection of the proposed location to determine compliance with applicable requirements.

3. **Demolition Preinspection.** A demolition preinspection fee shall be collected for all proposed demolition of buildings (including accessory buildings) or structures on a site and shall be conducted before the issuance of a demolition permit.

**EXCEPTION:** The demolition preinspection and demolition preinspection fee may be waived when the Department determines that previous inspections associated with the Department's abatement programs have been made.

4. **Preinspection.** Preinspection fee shall be collected whenever the Department determines that due to the nature of the work involved, an inspection is necessary.

Sec. 11. Subdivision 3 of Subsection 91.107.4.6.4 of Section 91.107, Division 1, Article 1, Chapter IX of the LAMC is amended to read as follows:

3. The repair, renovation or rehabilitation of a building or structure for the installation of fire sprinklers pursuant to Division 9, Article 1, Chapter IX of the LAMC.

Sec. 12. Subsection 91.107.4.7 of Section 91.107, Division 1, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.107.4.7. Affordable Housing Linkage Fee.** Before issuance of a building permit for any development project, the Department of Building and Safety shall affix to the permit an Affordable Housing Linkage Fee per LAMC Section 19.18.

The Department of Building and Safety shall determine which exceptions apply to any project based on documentation submitted by the applicant prior to the issuance of the building permit per LAMC Section 19.18.B.2.

**EXCEPTION:** The notice required by this section shall not be affixed to building permits for the following projects or portion thereof:

1. Any project for which a building permit is issued with less than 40,000 square feet (3716 m<sup>2</sup>) of new floor area as determined by the Department of Building and Safety;
2. Any project located within the boundaries of an enterprise zone designated in LAMC Section 12.04;
3. Any project developed by nonprofit entities such as hospitals, schools, religious institutions, museums, day care providers and other similar organizations, where the construction is directly related to the nonprofit purpose of the organization as determined by the Housing and Community Investment Department. This exception shall not apply to nonprofit development of leasable commercial office space;
4. Any project or portion of a project for industrial, warehouse development or parking structures as defined by the Los Angeles Municipal Code and determined by the Department of Building and Safety;
5. Any project within a current neighborhood Community Redevelopment Agency project area as defined in LAMC Section 12.04

other than the Bunker Hill, Central Business District and Little Tokyo redevelopment areas;

6. Any development project where one or more of the following discretionary approvals, initiated by application of the property owner or their representatives, was granted by a government agency between January 1, 1986 and October 1, 1989 and remains valid: zone change, conditional use permit, variance, height district change, zone boundary adjustment, specific plan exception, project permit pursuant to a moratorium ordinance, development agreement, coastal development permit, commercial corner development, project permit pursuant to an interim control ordinance, parcel map, tract map or vesting tentative tract map.

In addition, prior to the issuance of any such building permit, the Department of Planning shall certify in writing that the necessary environmental clearances were completed and that the discretionary approval included a determination of one or more of the following: building location, height, density, use, parking and access of the proposed project;

7. Any project for which architectural and structural plans sufficient for a complete plan check for a building permit have been accepted by the Department of Building and Safety and for which plan check fees were collected on or before the effective date of this section and for which no subsequent changes are made to those plans which increase the height, floor area or occupancy load by more than 5 percent;

8. Any project for an existing building which will not result in the addition of over 40,000 square feet (3716 m<sup>2</sup>) of new space as determined by the Department of Building and Safety; and

9. Residential buildings which contain one or more dwelling units, efficiency dwelling units, apartment units or the residential portion of a building that has both residential and nonresidential uses. This exception shall not apply to hotels.

10. Any project located within the boundaries of the Central City West Specific Plan Area, as defined in Ordinance No. 163,094, if the developer or project owner agrees by covenant and agreement or development agreement to abide by the linkage fee and replacement housing obligations set forth in the Specific Plan for the Central City West Specific Plan Area.

11. The repair, renovation or rehabilitation of a building or structure of historical, archaeological or architectural consequence, if such building or structure has been officially designated, or has been

determined by state or federal action to be eligible for designation, on the National Register of Historic Places, or has been included on the City of Los Angeles list of Historic Cultural Monuments.

The Department of Building and Safety shall determine which exceptions apply to any project based on documentation submitted by the applicant prior to the issuance of the building permit.

Sec. 13. A new Subsection 91.108.6.1 is added to Section 91.108, Division 1, Article 1, Chapter IX of the LAMC to read as follows:

**91.108.6.1. Weather Exposed Balcony and Walking Surface Waterproofing.**

Where balcony or other elevated walking surfaces are exposed to water from direct or blowing rain, snow, or irrigation, and the structural framing is protected by an impervious moisture barrier, all elements of the impervious moisture barrier system shall not be concealed until inspected and approved.

Sec. 14. Subsection 91.108.8 of Section 91.108, Division 1, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.108.8. Surveys.** In the absence of any designation of the proper location of the lot or the building to be erected on the lot, for which building a permit has been issued or for which an application for a building permit has been filed, or as requested in a written notice from the Department, the Department may require the owner to have the lot surveyed and staked by a registered civil engineer, licensed prior to January 1, 1982, or a registered land surveyor, so that the proper location of the lot or the building on the lot may be determined or the location of the required features in the Department's written notice may be determined.

Sec. 15. Subdivision 1 of Subsection 91.108.12.3 of Section 91.108, Division 1, Article 1, Chapter IX of the LAMC is amended to read as follows:

1. The certified licensed contractor has a valid Certificate of Registration obtained in accordance with LAMC Subsection 91.1704.1.

Sec. 16. The first sentence of Subsection 91.109.7 of Section 91.109, Division 1, Article 1, Chapter IX of the LAMC is amended to read as follows:

Notwithstanding the provisions of LAMC Subsection 91.109.5, whenever public improvements are required in connection with the replacement or restoration of a building destroyed or damaged during the local emergency declared by the Mayor in April 1972, the completion of those public improvements may be deferred until June 1, 1995, and a temporary Certificate of Occupancy may issue for the new or restored building, or a portion thereof, prior to the completion of the public improvements.



Sec. 17. The first sentence of Section 91.202, Division 2, Article 1, Chapter IX of the LAMC is amended to read as follows:

Section 202 of the CBC is adopted by reference, except that the following CBC definitions are not adopted:

**APPROVED AGENCY**

**APPROVED FABRICATOR**

**BUILDING LINE**

**BUILDING OFFICIAL**

**DEPARTMENT**

Sec. 18. The following definitions in Section 91.202, Division 2, Article 1, Chapter IX of the LAMC are amended to read as follows:

**APPROVED AGENCY or APPROVED TESTING AGENCY.** An established and recognized agency regularly engaged in conducting tests or furnishing inspection services which has been approved by the Superintendent of Building.

**NON-DUCTILE CONCRETE BUILDING.** A concrete building that was built pursuant to a permit application for a new building submitted before January 13, 1976, or, if no permit can be located, is determined by the Department to have been built under building code standards enacted before January 13, 1976.

**EXCEPTION:** "Non-Ductile Concrete Building" shall not include detached single-family dwellings or duplexes.

Sec. 19. The definition of Occupancy in Section 91.202, Division 2, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 20. The definition of Substantial Structural Damage in Section 91.202, Division 2, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 21. The following definition in Section 91.202, Division 2, Article 1, Chapter IX of the LAMC is amended to read as follows:

**TEMPORARY.** Buildings and facilities intended for use at one location for not more than 180 days and seats intended for use at one location for not more than 90 days.

Sec. 22. Section 91.703, Division 7, Article 1, Chapter IX of the LAMC is amended to read as follows:

Section 703 of the CBC is adopted by reference, except that Section 703.3 of the CBC is not adopted and, in lieu, LAMC Subsection 91.703.3 is added.

Sec. 23. Subsection 91.703.3 of Section 91.703, Division 7, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.703.3. Methods for Determining Fire Resistance.** The application of any of the methods listed in this section shall be based on the fire exposure and acceptance criteria specified in ASTM E 119 or UL 263. The required fire resistance of a building element, component or assembly, shall be permitted to be established by any of the following methods or procedures:

1. Fire-resistance designs documented in approved sources.
2. Prescriptive designs of fire-resistance-rated building elements, component or assemblies as prescribed in CBC Section 721.
3. Calculations in accordance with CBC Section 722.
4. Engineering analysis based on a comparison of building element, component or assembly designs having fire-resistance ratings as determined by the test procedures set forth in ASTM E 119 or UL 263.
5. Alternative construction methods as allowed by LAMC Subsection 91.104.2.6.
6. Fire-resistance designs certified by an approved agency.

Sec. 24. Section 91.1207 of Division 12, Article 1, Chapter IX of the LAMC is renumbered as Section 91.1206 and amended to read as follows:

**SEC. 91.1206. SOUND TRANSMISSION.**

Section 1206 of the CBC is adopted by reference, except CBC Section 1206.1, is not adopted and, in lieu, LAMC Subsections 91.1206.1, 91.1206.1.2, 91.1206.6, 91.1206.7, 91.1206.8, 91.1206.9, 91.1206.9.1, 91.1206.10, 91.1206.11, 91.1206.12, 91.1206.13, 91.1206.14, 91.1206.14.1, 91.1206.14.2, 91.1206.14.3, 91.1206.15.4, 91.1206.16 and 91.1206.17 are added.

Sec. 25. Subsections 91.1207.1, 91.1207.1.2, 91.1207.6, 91.1207.7, 91.1207.8, 91.1207.9, 91.1207.9.1, 91.1207.10, 91.1207.11, 91.1207.12, 91.1207.13, 91.1207.14, 91.1207.14.1, 91.1207.14.2, 91.1207.15.4, 91.1207.16 and 91.1207.17 of Section 91.1207, Division 12, Article 1, Chapter IX of the LAMC are respectively renumbered as Subsections 91.1206.1, 91.1206.1.2, 91.1206.6, 91.1206.7, 91.1206.8, 91.1206.9,

91.1206.9.1, 91.1206.10, 91.1206.11, 91.1206.12, 91.1206.13, 91.1206.14, 91.1206.14.1, 91.1206.14.2, 91.1206.15.4, 91.1206.16 and 91.1206.17.

Sec. 26. Subsection 91.1207.14.3 of Section 91.1207, Division 12, Article 1, Chapter IX of the LAMC is renumbered as Subsection 91.1206.14.3 and amended in its entirety to read as follows:

**91.1206.14.3. Airport Noise Sources.** Residential structures and all other structures identified in LAMC Subsection 91.1206.1 located where the annual  $L_{dn}$  or CNEL (as defined in California Code of Regulations, Title 21, Division 2.5, Chapter 6, Section 5001) exceeds 60 db, shall require an acoustical analysis showing that the proposed design will achieve the prescribed allowable interior level.

**EXCEPTION:** New single-family detached dwellings and all non-residential noise sensitive structures located outside the noise impact boundary of 65 db CNEL are exempt from LAMC Section 91.1206.

Alterations or additions to all noise sensitive structures, within the 65 db and greater CNEL shall comply with LAMC Section 91.1206. If the addition or alteration cost exceeds 75% of the replacement cost of the existing structure, then the entire structure must comply with LAMC Section 91.1206.

For public-use airports or heliports, the  $L_{dn}$  or CNEL shall be determined from the Aircraft Noise Impact Area Map prepared by the Airport Authority. For military bases, the  $L_{dn}$  shall be determined from the facility Air Installation Compatible Use Zone (AICUZ) plan. For all other airports or heliports, or public-use airports or heliports for which a land-use plan has not been developed, the  $L_{dn}$  or CNEL shall be determined from the noise element of the general plan of the local jurisdiction.

When aircraft noise is not the only significant source, noise levels from all sources shall be added to determine the composite site noise level.

Sec. 27. Section 91.1403, Division 14, Article 1, Chapter IX of the LAMC is renumbered as Section 91.1402 and amended to read as follows:

#### **SEC. 91.1402. PERFORMANCE REQUIREMENTS.**

Section 1402 of the CBC is adopted by reference, except Section 1402.3 of the CBC is not adopted and in lieu, LAMC Subsection 19.1402.3 is added.

Sec. 28. Subsection 91.1403.3 of Section 91.1403, Division 14, Article 1, Chapter IX of the LAMC is renumbered as Section 91.1402.3.

Sec. 29. Section 91.1405, Division 14, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 30. Section 91.1603, Division 16, Article 1, Chapter IX of the LAMC is amended to read as follows:

Section 1603 of the CBC is adopted by reference, except CBC Section 1603.1.9 is not adopted and, in lieu, LAMC Subsection 91.1603.1.9 is added.

Sec. 31. The first sentence of Subsection 91.1603.1.9 of Section 91.1603, Division 16, Article 1, Chapter IX of the LAMC is amended to read as follows:

Construction documents or specifications shall be prepared for those systems and components requiring special inspection for seismic resistance as specified in CBC Section 1705.12 by the registered design professional responsible for their design and shall be submitted for approval in accordance with LAMC Subsection 91.106.3.3.

Sec. 32. The first and second sentences of Subdivision 12.11.2.2.3 of Subsection 91.1613.5.3 of Section 91.1613, Division 16, Article 1, Chapter IX of the LAMC are amended to read as follows:

The anchorage of concrete or masonry structural walls to wood diaphragms shall be in accordance with AWC SDPWS 4.1.5.1 and this section. Continuous ties required by this section shall be in addition to the diaphragm sheathing.

Sec. 33. The Exception to Subsection 91.1613.5.5 of Section 91.1613, Division 16, Article 1, Chapter IX of the LAMC is amended to read as follows:

**EXCEPTION:** Reinforced concrete frame members not designed as part of the seismic force resisting system shall comply with Section 18.14 of ACI 318.

Sec. 34. Subsection 91.1613.5.6 of Section 91.1613, Division 16, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 35. The second sentence of Subsection 91.1613.8.1.3.3 of Section 91.1613, Division 16, Article 1, Chapter IX of the LAMC is amended to read as follows:

Power supply for exit illumination shall comply with the requirements of CBC Section 1008.3.

Sec. 36. Subsection 91.1613.9.5.4 of Section 91.1613, Division 16, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.1613.9.5.4. Limitations.** The following lateral-force-resisting elements shall not be designed to resist seismic forces below the base level diaphragm in the downhill direction:

1. Wood structural panel wall sheathing,

2. Cement plaster and lath,
3. Gypsum wallboard, and
4. Tension only braced frames.

Braced frames designed in accordance with the requirements of CBC Section 2205.2.1.2 may be used to transfer forces from the primary anchors and diaphragm struts to the foundation, provided lateral forces do not induce flexural stresses in any member of the frame or in the diaphragm struts. Deflections of frames shall account for the variation in slope of diagonal members when the frame is not rectangular.

Sec. 37. The second sentence of Subsection 91.1613.9.9.5.2 of Section 91.1613, Division 16, Article 1, Chapter IX of the LAMC is amended to read as follows:

Deflections of shear walls may be estimated by AWC SDPWS Section 4.3.2.

Sec. 38. The first sentence of the last unnumbered paragraph of Subsection 91.1613.9.9.6 of Section 91.1613, Division 16, Article 1, Chapter IX of the LAMC is amended to read as follows:

Braced frames designed in accordance with the requirements of CBC Section 2205.2.1.2 may be designed as lateral-force-resisting elements in the direction normal to the downhill direction, provided lateral forces do not induce flexural stresses in any member of the frame.

Sec. 39. The Exception to Subsection 91.1613.10.2 of Section 91.1613, Division 16, Article 1, Chapter IX of the LAMC is amended to read as follows:

**EXCEPTIONS:**

1. A building selected by the State of California as part of its Strong Motion Instrumentation Program (California Public Resources Code Section 2700 *et seq.*) need not comply with this section until it ceases to be part of the program.
2. All new buildings that are designed using the non-linear response history procedure of "Seismic Response History Procedures" of Chapter 16 of ASCE 7 shall be equipped with a structural monitoring system in accordance with standards established by the Superintendent of Building.
3. A building designed using a two-stage analysis procedure per Section 12.2.3.2 of ASCE 7 having a flexible upper portion above a

rigid lower portion and a total building height not exceeding 85 feet above the grade plane.

Sec. 40. The title of Section 91.1702, Division 17, Article 1, Chapter IX of the LAMC is amended to read as follows:

**SEC. 91.1702. NEW MATERIALS.**

Sec. 41. Subsection 91.1702.1 of Section 91.1702, Division 17, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 42. Section 91.1703 of Division 17, Article 1, Chapter IX of the LAMC is amended to read as follows:

Section 1703 of the CBC is adopted by reference, except Sections 1703.1, 1703.2, 1703.3, 1703.4, 1703.4.1, and 1703.4.2 of the CBC are not adopted; and, in lieu LAMC Subsections 91.1703.1, 91.1703.2, 91.1703.3, 91.1703.4, 91.1703.4.1, and 91.1703.4.2 are added.

Sec. 43. Subsection 91.1703.1.1 of Section 91.1703, Division 17, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 44. Subsection 91.1703.4.1 of Section 91.1703, Division 17, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.1703.4.1. Research and Investigation.** Sufficient technical data shall be submitted to the Superintendent of Building to substantiate the proposed use of any product, material or assembly. If it is determined that the evidence submitted is satisfactory proof of performance for the use intended, the Superintendent of Building shall approve the use of the product, material or assembly subject to the requirements of this Code. The costs, reports and investigations required under these provisions shall be paid by the permit applicant as required by LAMC Sections 98.0501, 98.0502 and 98.0503.

Sec. 45. Subsection 91.1703.4.2 of Section 91.1703, Division 17, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.1703.4.2. Research Reports.** Supporting data, where necessary to assist in the approval of products, materials or assemblies not specifically provided for in this Code, shall consist of valid research reports from approved sources as required in LAMC Sections 98.0501 and 98.0502.

Sec. 46. Subsection 91.1703.6 of Section 91.1703, Division 17, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 47. Section 91.1704 of Division 17, Article 1, Chapter IX of the LAMC is amended to read as follows:

Section 1704 of the CBC is adopted by reference, except that CBC Sections 1704.2, 1704.2.1, 1704.2.3, 1704.2.4, 1704.2.5, 1704.2.5.1, 1704.2.5.2, 1704.6, 1704.6.2, 1704.7, 1704.8 and 1704.9 are not adopted; and, in lieu, LAMC Subsections 91.1704.1.1, 91.1704.1.2, 91.1704.1.3, 91.1704.1.4, 91.1704.1.5, 91.1704.1.6, 91.1704.1.7, 91.1704.2, 91.1704.2.1, 91.1704.2.1.1, 91.1704.2.1.2, 91.1704.2.1.3, 91.1704.2.3, 91.1704.2.4, 91.1704.2.5, 91.1704.2.5.1, 91.1704.2.5.2, 91.1704.6, and 91.1704.6.2 are added or amended, to read as follows:

Sec. 48. Subsections 91.1704.1, 91.1704.1.1, 91.1704.1.2, 91.1704.1.3, 91.1704.1.4, 91.1704.1.5, and 91.1704.1.6, of Section 91.1704, Division 17, Article 1, Chapter IX of the LAMC are renumbered respectively as Subsections 91.1704.1.1, 91.1704.1.2, 91.1704.1.3, 91.1704.1.4, 91.1704.1.5, 91.1704.1.6, and 91.1704.1.7.

Sec. 49. Subsection 91.1704.2 of Section 91.1704, Division 17, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.1704.2. Special Inspections.** Where application is made for construction as described in this section, the owner or the registered design professional in responsible charge acting as the owner's agent shall employ one or more Registered Deputy Inspectors to perform inspections during construction on the types of work listed under CBC Section 1705. The Registered Deputy Inspector shall be a qualified person as set forth in LAMC Subsection 91.1704.2.1 and shall demonstrate competence to the satisfaction of the Superintendent of Building for inspection of the particular type of construction or operation requiring special inspection.

The special inspections shall be in addition to the inspections made by the employees of the Department as set forth in LAMC Section 91.108.

All special inspections shall be made by a Registered Deputy Inspector. Whenever the term "Special Inspector" is used in this Code, it shall mean "Registered Deputy Inspector" as described in LAMC Subdivision 91.1704.2.1.

#### **EXCEPTIONS:**

1. Special inspections are not required for construction of a minor nature or as warranted by conditions in the jurisdiction as approved by the Superintendent of Building.
2. Unless otherwise required by the Superintendent of Building, special inspections are not required for Group U occupancies that are accessory to a residential occupancy including, but not limited to, those listed in CBC Section 312.1.
3. Special inspections are not required for portions of structures designed and constructed in accordance with the cold-formed steel light-

frame construction provisions of CBC Section 2211.7 or the conventional light-frame construction provisions of CBC Section 2308.

4. The contractor is permitted to employ the approved agencies where the contractor is also the owner.

Sec. 50. Subsection 91.1704.2.1 of Section 91.1704, Division 17, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.1704.2.1. Registered Deputy Inspector Qualifications.** An applicant for Deputy Inspector shall provide written documentation to the Superintendent of Building demonstrating his or her competence and relevant experience or training. Experience or training shall be considered relevant when the documented experience or training is related in complexity to the same type of special inspection activities for projects of similar complexity and material qualities. These qualifications are in addition to qualifications specified in other sections of this Code.

Application for registration as a Registered Deputy Inspector shall be made to the Superintendent of Building on a form furnished by the Department. A separate application shall be made for each type of registration desired. Registration is available for the following types of inspections: Reinforced Concrete (RC), Structural Masonry (SM), Structural Steel/Welding (SSW), Grading (GD), Sprayed Fire resistant Materials (SFRM), Methane Barrier (MB) and Wood (WD).

A committee appointed by the Superintendent of Building shall examine each applicant as to his or her experience and training for performing the duties of an inspector of the type for which application has been made. Additionally, the applicant will be examined on the applicant's knowledge of the LAMC and Registered Deputy Inspector duties, responsibilities and procedures. When satisfied as to the fitness of the applicant, the Superintendent of Building shall issue a Certificate of Registration. Upon application for renewal of a Certificate of Registration, the applicant shall be re-examined to ascertain the applicant's fitness to perform the duties of inspector of the type for which application has been made.

**EXCEPTION:** If the Department determines that the initial examination (which includes general knowledge, code requirements and plan comprehension) for the special inspector program under the International Code Council (ICC) is equivalent to the above-described initial or renewal examination, then the Department may accept the results of the ICC examination in lieu of the Department's examination in that category; however, the Department will be examining the applicant's knowledge of the LAMC and Registered Deputy Inspector duties, responsibilities and procedures

The Superintendent of Building shall issue a separate Certificate of Registration for each type of registration requiring special inspection in accordance with LAMC



Section 91.1704 and as determined by the Superintendent of Building for any construction requiring either continuous or periodic special inspection.

Nothing here shall be deemed to prohibit any one person from being qualified for more than one type of special inspection, provided he or she applies, pays the required fees, takes the required examinations and is duly qualified by the Superintendent of Building for each type.

Each Certificate of Registration shall expire three (3) years from the date of issuance, but may be renewed by the Superintendent of Building within a grace period of thirty (30) days thereafter.

The Department shall maintain a list of the names of all Registered Deputy Inspectors, showing the type of work each has been authorized to inspect. This list shall be available to the public.

Upon evidence satisfactory to the Superintendent of Building of incompetence, of willful or negligent failure to observe or report violations of this Code, or of any other failure to perform properly and effectively the duties assumed by a Registered Deputy Inspector, the Superintendent of Building may revoke, suspend or refuse to renew any Certificate of Registration. But, prior to that action, the holder shall be given an opportunity to appear before the Superintendent of Building and be heard.

Except where there is a City employee inspecting buildings or structures being erected or repaired by the City, no Registered Deputy Inspector shall receive any compensation from the City. A Registered Deputy Inspector shall undertake and perform the duties of inspection solely on the request of the owner or the owner's agent. The designation shall be deemed to indicate that the duties incident to the inspection are within the course and scope of the Registered Deputy Inspector's employment by the owner or agent, and except where the Registered Deputy Inspector is in fact an employee of the City, the Registered Deputy Inspector shall not be deemed an employee of the City, a contractor, a subcontractor or a material vendor for any purpose.

The registered design professional in responsible charge and engineers of record involved in the design of the project are permitted to act as the supervising agency and their personnel are permitted to act as the deputy inspector for the work designed by them, provided they qualify as Registered Deputy Inspectors.

Sec. 51. Subsection 91.1704.2.3 of Section 91.1704, Division 17, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.1704.2.3. Statement of Special Inspections.** The permit applicant shall submit a statement of special inspections in accordance with LAMC Subsection 91.106.3.3. The statement of special inspections shall be prepared by the registered design professional

in responsible charge as a condition for permit issuance. This statement shall be in accordance with LAMC Subsection 91.1704.3.

**EXCEPTION:**

1. A statement of special inspections is not required for portions of structures designed and constructed in accordance with the cold-formed steel light-frame construction provisions of CBC Section 2211.1.2 or the conventional light-frame construction provisions of LAMC Section 91.2308.

Sec. 52. Subsection 91.1704.2.4 of Section 91.1704, Division 17, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.1704.2.4. Report Requirement.** In addition to all the requirements of LAMC Subsection 91.1704.2.1.1, Registered Deputy Inspectors shall keep records of inspections and tests. The Registered Deputy Inspectors shall furnish inspection reports and tests to the Superintendent of Building, and to the registered design professional in responsible charge. Reports shall indicate that work inspected was or was not completed in conformance to approved construction documents. Discrepancies shall be brought to the immediate attention of the contractor for correction. If they are not corrected, the discrepancies shall be brought to the attention of the Superintendent of Building and to the registered design professional in responsible charge prior to the completion of that phase of the work. A final report documenting required special inspections and tests, and correction of any discrepancies noted in the inspections or tests, shall be submitted at a point in time agreed upon prior to the start of the work by the owner or owner's authorized agent to the Superintendent of Building.

Sec. 53. Subsection 91.1704.2.5 of Section 91.1704, Division 17, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.1704.2.5. Special Inspection of Fabricated Items.** Where fabrication of structural, load-bearing or lateral load resisting members or assemblies is being conducted on the premises of a fabricator's shop, deputy inspections of the fabricated items shall be performed during fabrication, when approved by the Superintendent of Building, except where the fabricator has been approved to perform work without special inspection in accordance with LAMC Subsection 1704.2.5.1.

Sec. 54. Subsection 91.1704.2.5.1 of Section 91.1704, Division 17, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 55. Subsection 91.1704.2.5.2 of Section 1704, Division 17, Article 1, Chapter IX of the LAMC is renumbered as Subsection 91.1704.2.5.1 and amended in its entirety to read as follows:

**91.1704.2.5.1. Fabricator Approval.** Pursuant to LAMC Section 96.200 et seq., special inspections required by LAMC Section 91.1705 are not required where the work is done on the premises of a fabricator approved to perform such work without special inspection. Approval shall be based upon review of the fabricator's written fabrication procedures and quality control manuals that provide a basis for control of materials and workmanship, with periodic auditing of fabrication and quality control practices by an approved agency or the Superintendent of Building. At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the owner or owner's authorized agent for submittal to the Superintendent of Building as specified in CBC Section 1704.5 stating that the work was performed in accordance with the approved construction documents.

Sec. 56. Subsection 91.1704.3 of Section 91.1704, Division 17, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 57. Subsection 91.1704.3.1 of Section 91.1704, Division 17, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 58. Subsection 91.1704.4 of Section 91.1704, Division 17, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 59. The first paragraph of Subsection 91.1704.6 of Section 91.1704, Division 17, Article 1, Chapter IX of the LAMC is amended to read as follows:

Where required by the provisions of LAMC Subsections 91.1704.6.1, 91.1704.6.2, or 91.1704.6.3, the owner shall employ the registered design professional in responsible charge for the structural design, or another registered design professional designated by the registered design professional in responsible charge of the structural design to perform structural observations as defined in CBC Section 202.

Sec. 60. Subsection 91.1704.6.1 of Section 91.1704, Division 17, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 61. Subsection 91.1704.6.2 of Section 91.1704, Division 17, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.1704.6.2. Structural Observations for Seismic Resistance.** Structural observations shall be provided for those structures assigned to Seismic Design Category D, E or F where one or more of the following conditions exist:

1. The structure is classified as Risk Category III or IV.
2. The structure is classified as Risk Category I or II in accordance with CBC Table 1604.5, and a lateral design is required for the structure or portion thereof.

**EXCEPTION:** One-story wood framed Group R-3 and Group U Occupancies less than 2,000 square feet (185.8 m<sup>2</sup>) in area, provided the adjacent grade is not steeper than 1-unit vertical in 10 units horizontal (10% sloped), assigned to Seismic Design Category D.

1. When so designated by the registered design professional responsible for the structural design.
2. When such observation is specifically required by the Department.

Sec. 62. Section 91.1705 of Division 17, Article 1, Chapter IX of the LAMC is amended to read as follows:

Section 1705 of the CBC is adopted by reference, except CBC Sections 1705.3, 1705.3.2, 1705.6, 1705.7, 1705.8, 1705.11.1, 1705.11.4, 1705.12.1, 1705.12.1.1, 1705.16.2 and 1705.17 are not adopted; and, in lieu, LAMC Subsections 91.1705.1.2, 91.1705.1.3, 91.1705.1.4, 91.1705.1.5, 91.1705.1.6, 91.1705.1.7, 91.1705.1.8, 91.1705.1.9, 91.1705.1.10, 91.1705.1.11, 91.1705.1.12, 91.1705.1.13, 91.1705.2.4, 91.1705.3, 91.1705.3.1.2, 91.1705.3.2, 91.1705.6, 91.1705.6.2, 91.1705.7, 91.1705.8, 91.1705.12.1, 91.1705.12.1.1.1, 91.1705.13.1, 91.1705.17.2 and 91.1705.18, and Table 1705.3 are added.

Sec. 63. Subsection 91.1705.1.1 of Section 91.1705, Division 17, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 64. Subsection 91.1705.1.2 of Section 91.1705, Division 17, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.1705.1.2. Certifications by Engineer or Geologist.** If the grading or foundation earthwork has required continuous inspection, the responsible engineering geologist or soils engineer shall certify by signature to the Department that, to the best of his or her knowledge, the field work was completed in conformity with the technical design data.

Sec. 65. Subsection 91.1705.1.8 of Section 91.1705, Division 17, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.1705.1.8. Registration.** The procedures and conditions of registration as a Special Activity Inspector shall be the same as applicable to a Registered Deputy Inspector under LAMC Subsection 91.1704.2.1, except that the extent and duration of special inspection authority shall be as specified in the rules and regulations adopted by the Superintendent of Building.

Sec. 66. Subsection 91.1705.1.9 of Section 91.1705, Division 17, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.1705.1.9. Duties.** Except as otherwise indicated by regulations promulgated by the Superintendent of Building, the duties and responsibilities for a Special Activity Inspector shall be the same as specified for a Registered Duty Inspector under LAMC Subsection 91.1704.2.1.1.

Sec. 67. Subsection 91.1705.1.10 of Section 91.1705, Division 17, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.1705.1.10. Fees.** The procedures for the examination, registration and renewal of authority as a Special Activity Inspector shall be the same as specified for a Registered Deputy Inspectors under LAMC Subsection 91.1704.2.1.2.

Sec. 68. Subsection 91.1705.1.11 of Section 91.1705, Division 17, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.1705.1.11. Renewal Process.** LAMC Subsection 91.1704.2.1.2 applies to the application, examination and renewal process for registration as a Special Activity Inspector.

Sec. 69. Subsection 91.1705.2.2 of Section 91.1705, Division 17, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 70. Subsection 91.1705.3 of Section 91.1705, Division 17, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.1705.3. Concrete Construction.** Special inspections and tests of concrete construction shall be performed in accordance with this section and LAMC Table 1705.3.

**EXCEPTION:** Special inspections and tests shall not be required for:

1. Isolated spread concrete footings of buildings three stories or less above grade plane that are fully supported on earth or rock, where the structural design of the footing is based on a specified compressive strength,  $f'_c$ , no greater than 2,500 pounds per square inch (psi) (17.2 MPa).

2. Continuous concrete footings supporting walls of buildings three stories or less above grade plane that are fully supported on earth or rock where:

2.1. The footings support walls of light-frame construction;

2.2. The footings are designed in accordance with LAMC Table 1809.7; or

2.3. The structural design of the footing is based on a specified compressive strength,  $f_c$ , not more than 2,500 pounds per square inch (psi) (17.2 MPa), regardless of the compressive strength specified in the approved construction documents or used in the footing construction.

3. Nonstructural concrete slabs supported directly on the ground, including prestressed slabs on grade, where the effective prestress in the concrete is less than 150 psi (1.03 MPa).

4. Concrete foundation walls constructed in accordance with CBC Table 1807.1.6.2.

5. Concrete patios, driveways and sidewalks on grade.

Sec. 71. Table 1705.3 following Subsection 91.1705.3 of Section 91.1705, Division 17, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**[Intentionally Blank]**

**TABLE 1705.3  
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION**

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD <sup>a</sup>	LABC REFERENCE
1. Inspect reinforcement, including prestressing tendons, and verify placement.	—	X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1–26.6.3	1908.4
2. Reinforcing bar welding: a. Verify weldability of reinforcing bars other than ASTM A706; b. Inspect single-pass fillet welds, maximum $5/16$ " <sup>c</sup> ; and c. Inspect all other welds.	—   X	X  X	  AWS D1.4 ACI 318: 26.6.4	  —
3. Inspect anchors cast in concrete.	—	X	ACI 318: 17.8.2	—
4. Inspect anchors post-installed in hardened concrete members. <sup>b</sup> a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads. b. Mechanical anchors and adhesive anchors not defined in 4.a.	  X	   X	  ACI 318: 17.8.2.4  ACI 318: 17.8.2	  —
5. Verify use of required design mix.	—	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	—	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	1908.10
7. Inspect concrete and shotcrete placement for proper application techniques.	X	—	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. Verify maintenance of specified curing temperature and techniques.	—	X	ACI 318: 26.5.3–26.5.5	1908.9
9. Inspect prestressed concrete for: a. Application of prestressing forces; and b. Grouting of bonded prestressing tendons.	X  X	—	  ACI 318: 26.10	  —
10. Inspect erection of precast concrete members.	—	X	ACI 318: 26.9	—

11. Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	—	X	ACI 318: 26.11.2	—
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.	—	X	ACI 318: 26.11.1.2(b)	—

For SI: 1 inch = 25.4 mm.

- a. Where applicable, see CBC Section 1705.12, special inspections for seismic resistance.
- b. Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with 17.8.2 in ACI 318, or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work.

Sec. 72. Subsection 91.1705.3.1 of Section 91.1705, Division 17, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 73. Subsection 91.1705.3.2 of Section 91.1705, Division 17, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.1705.3.2. Material Tests.** In the absence of sufficient data or documentation providing evidence of conformance to quality standards for materials in Chapters 19 and 20 of ACI 318, the Superintendent of Building shall require testing of materials in accordance with the appropriate standards and criteria for the material in Chapters 19 and 20 of ACI 318. Weldability of reinforcement, except that which conforms to ASTM A 706, shall be determined in accordance with the requirements of Section 26.6.4 of ACI 318.

Sec. 74. The first sentence of Subsection 91.1705.6 of Section 91.1705, Division 17, Article 1, Chapter IX of the LAMC is amended to read as follows:

Special inspections defined per LAMC Subsections 91.7008.2 and 91.7011.3 and tests for existing site soil conditions, fill placement and load-bearing requirements shall be as required by this section and LAMC Table 1705.6.

Sec. 75. Subsection 91.1705.6.1 of Section 91.1705, Division 17, Article 1, Chapter IX of the LAMC is renumbered as 91.1705.6.2.

Sec. 76. Subsection 91.1705.7 of Section 91.1705, Division 17, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:



**91.1705.7. Driven Deep Foundations and Connecting Grade Beams.** Special inspections and tests shall be performed during installation and testing of the driven deep foundation elements as specified by CBC Table 1705.7. The approved geotechnical report, required by CBC Section 1803.6 and the construction documents prepared by the registered design professionals shall be used to determine compliance. Special inspections for connecting grade beams shall be in accordance with LAMC Section 91.1705.3.

Sec. 77. Subsection 91.1705.8 of Section 19.1705, Division 17, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.1705.8. Cast-in-Place Deep Foundations and Connecting Grade Beams.** Special inspections and tests shall be performed during installation and testing of cast-in-place deep foundation elements as specified by CBC Table 1705.8. The approved geotechnical report, required by CBC Section 1803.6 and the construction documents prepared by the registered design professionals shall be used to determine compliance. Special inspections for connecting grade beams shall be in accordance with LAMC Section 91.1705.3.

Sec. 78. Subsection 91.1705.12.1 of Section 91.1705, Division 17, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.1705.12.1. Structural Steel.** Special inspection for seismic resistance shall be in accordance with CBC Sections 1705.12.1.1 or 1705.12.1.2, as applicable and during the fabrication and erection of buildings over 160 feet (48,768 mm) in height with structural steel moment resisting frames. A registered deputy inspector shall be present during the performance of all structural welding or the installation of all high-strength bolts whether in a fabricator's shop or at the job site.

**EXCEPTIONS:**

1. Single-pass fillet welds not exceeding 5/16-inch (7.9 mm) in size.
2. Floor and roof deck welding.

Sec. 79. The Exception to Subsection 91.1705.13.1 of Section 91.1705, Division 17, Article 1, Chapter IX of the LAMC is deleted.

Sec. 80. Section 91.1707, Division 17, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 81. Subsections 91.1707.1 and 91.1707.2 of Section 91.1707, Division 17, Chapter IX of the LAMC are deleted in their entirety.

Sec. 82. The second sentence of Subsection 91.1807.1.4 of Section 91.1807, Division 18, Article 1, Chapter IX of the LAMC is amended to read as follows:

Lumber and plywood shall be treated in accordance with AWPA U1 (Commodity Specification A, Use Category 4B and Section 5.2) and shall be identified in accordance with CBC Section 2303.1.9.1.

Sec. 83. A new Subsection 91.1808.7.1.1 is added to Section 91.1808, Division 18, Article 1, Chapter IX of the LAMC to read as follows:

**91.1808.7.1.1. Exception to CBC Section 1808.7.1.** An Exception to CBC Section 1808.7.1 is an open deck or patio not covered with a roof or other overhead structure, which shall not be considered a building for the specific application of the building clearance pursuant to CBC Section 1808.7.1 and CBC Figure 1808.7.1.

Sec. 84. The first sentence of Subsection 91.1810.3.3.1.4 of Section 91.1810, Division 18, Article 1, Chapter IX of the LAMC is amended to read as follows:

The assumed frictional resistance developed by any uncased cast-in-place deep foundation element shall not exceed one-sixth (1/6) of the bearing value of the soil material at minimum depth as set forth in CBC Table 1806.2, up to a maximum of 500 psf (24 kPa), unless a greater value is allowed by the Department on the basis of a geotechnical investigation as specified in LAMC Section 91.1803 or a greater value is substantiated by a load test in accordance with CBC Section 1810.3.3.1.2.

Sec. 85. Section 91.1900 of Division 19, Article 1, Chapter IX of the LAMC is amended to read as follows:

Chapter 19 of the CBC is adopted by reference, except that CBC Sections 1905.1, 1905.1.7, and 1906.1 are not adopted; and, in lieu, LAMC Subsections 91.1905.1, 91.1905.1.7, 91.1905.1.9, 91.1905.1.10, 91.1905.1.11, 91.1905.1.12, and 91.1906.1 are added.

Sec. 86. Subsection 91.1905.1.7 of Section 91.1900, Division 19, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.1905.1.7. ACI 318, Section 14.1.4.** Delete ACI 318, Section 14.1.4, and replace with the following:

14.1.4 - Plain concrete in structures assigned to Seismic Design Category C, D, E or F.

14.1.4.1 - Structures assigned to Seismic Design Category C, D, E or F shall not have elements of structural plain concrete, except as follows:

(a) Concrete used for fill with a minimum cement content of two (2) sacks of Portland cement per cubic yard.

(b) Isolated footings of plain concrete supporting pedestals or columns are permitted, provided the projection of the footing beyond the face of the supported member does not exceed the footing thickness.

(c) Plain concrete footings supporting walls are permitted provided the footings have at least two continuous longitudinal reinforcing bars. Bars shall not be smaller than No. 4 and shall have a total area of not less than .002 times the gross cross-sectional area of the footing. A minimum of one bar shall be provided at the top and bottom of the footing. Continuity of reinforcement shall be provided at corners and intersections.

**EXCEPTION:** In detached one- and two-family dwellings three stories or less in height and constructed with stud-bearing walls, plain concrete footings with at least two continuous longitudinal reinforcement bars not smaller than No. 4 are permitted to have a total area of less than .002 times the gross cross-sectional area of the footing.

Sec. 87. Subsection 91.1905.1.10 of Section 91.1900, Division 19, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.1905.1.10. ACI 318, Section 18.7.5.** Modify ACI 318, Section 18.7.5, by adding Section 18.7.5.9 to read as follows:

18.7.5.9 - At any section where the design strength,  $P_n$ , of the column is less than the sum of the shears  $V_e$  computed in accordance with ACI 318 Sections 18.6.5.1 and 18.7.6.1.1 for all the beams framing into the column above the level under consideration, transverse reinforcement as specified in ACI 318 Section 18.7.5.1 through 18.7.5.3 shall be provided. For beams framing into opposite sides of the column, the moment components may be assumed to be of opposite sign. For determination of the design strength,  $P_n$ , of the column, these moments may be assumed to result from the deformation of the frame in any one principal axis.

Sec. 88. The second sentence in Subdivision 18.10.4.6 of Subsection 91.1905.1.11 of Section 91.1900, Division 19, Article 1, Chapter IX of the LAMC is amended to read as follows:

Such walls shall conform to the requirements of ACI 318, Section 18.14 for wall piers.

Sec. 89. The text in brackets following the last sentence of Subdivision 18.12.6.2 of Subsection 91.1905.1.12 of Section 91.1900, Division 19, Article 1, Chapter IX of the LAMC is amended to read as follows:

[CBC Section 1909.3.5]

Sec. 90. Subsection 91.1905.1.13 of Section 91.1900, Division 19, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 91. Subsection 91.2113.3 of Section 91.2113, Division 21, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.2113.3. Seismic Reinforcing.** Masonry chimneys shall be constructed, anchored, supported and reinforced as required in this division. In structures assigned to Seismic Design Category C or D, masonry chimneys shall be reinforced and anchored as detailed in CBC Sections 2113.3.1, 2113.3.2 and 2113.4. In structures assigned to Seismic Design Category A or B, reinforcement and seismic anchorage is not required. In structures assigned to Seismic Design Category E or F, masonry chimneys shall be reinforced in accordance with the requirements of CBC Sections 2101 through 2108 and anchored in accordance with CBC Section 2113.4.

Sec. 92. Subsection 91.2304.9.1 of Section 91.2304, Division 23, Article 1, Chapter IX of the LAMC is renumbered as 91.2304.9.1.1

Sec. 93. A new Subsection 91.2304.9.1 is added to Section 91.2304, Division 23, Article 1, Chapter IX of the LAMC to read as follows:

**91.2304.9.1. General.** Section 2304.9.1 of the 2019 CBC is adopted by reference.

Sec. 94. Subsection 91.2306.3 of Section 91.2306, Division 23, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.2306.3. Wood-Frame Shear Walls.** Wood-frame shear walls shall be designed and constructed in accordance with AWC SDPWS. For structures assigned to Seismic Design Category D, E, or F, application of Tables 4.3A and 4.3B of AWC SDPWS shall include the following:

1. Wood structural panel thickness for shear walls shall not be less than 3/8 inch (9.525 mm) thick, and studs shall not be spaced at more than 16 inches (406.4 mm) on center.
2. The maximum nominal unit shear capacities for three-ply plywood resisting seismic forces in structures assigned to Seismic Design Category D, E or F is 400 pounds per linear foot (plf) (181.43 kg per meter).
3. Where shear design values using allowable stress design (ASD) exceed 350 plf or load and resistance factor design (LRFD) exceed 500 plf, all framing members receiving edge nailing from abutting panels shall not be less than a single 3 inch (76.19 mm) nominal member, or two 2 inch (50.8 mm)

nominal members fastened together in accordance with CBC Section 2306.1 to transfer the design shear value between framing members. Wood structural panel joint and sill plate nailing shall be staggered at all panel edges. See Sections 4.3.6.1 and 4.3.6.4.3 of AWC SDPWS for sill plate size and anchorage requirements.

4. Nails shall be placed not less than 1/2 inch (12.7mm) in from the panel edges and not less than 3/8 inch (9.525mm) from the edge of the connecting members for shear greater than 350 plf using ASD or 500 plf using LRFD. Nails shall be placed not less than 3/8 inch (9.525 mm) from panel edges and not less than 1/4 inch (6.35 mm) from the edge of the connecting members for shears of 350 plf or less using ASD or 500 plf or less using LRFD.

5. Table 4.3B of AWC SDPWS application is not allowed for structures assigned to Seismic design category D, E or F.

For structures assigned to Seismic Design Category D, Application of Table 4.3C of AWC SDPWS shall not be used below the top level in a multi-level building for structures.

Where panels are fastened to framing members with staples, requirements and limitations of AWC SDPWS shall be met and the allowable shear values set forth in CBC Tables 2306.3(1), 2306.3(2) or 2306.3(3) shall only be permitted for structures assigned to Seismic Design Category A, B or C.

**EXCEPTION:** Where panels are fastened to framing members with staples, allowable shear values may be used if such values are substantiated by cyclic testing and approved by the Superintendent of Building.

The allowable shear values in CBC Tables 2306.3(1) and 2306.3(2) are permitted to be increased 40% for wind design. Panels complying with ANSI/APA PRP-210 shall be permitted to use design values for Plywood Siding in the AWC SDPWS.

Sec. 95. The first sentence of Subsection 91.2306.4 of Section 91.2306, Division 23, Article 1, Chapter IX of the LAMC is amended to read as follows:

Sheer walls sheathed with Portland cement plaster, gypsum lath, gypsum sheathing or gypsum board shall be designed and constructed in accordance with AWC SDPWS.

Sec. 96. The first sentence of Subsection 91.2702.2.15.1 of Section 91.2700, Division 27, Article 1, Chapter IX of the LAMC is amended to read as follows:

An on-premises fuel supply, sufficient for not less than 6-hour full-load operation of the emergency and standby power source(s), shall be provided.

Sec. 97. Subdivision 91.2702.2.18.1 of Section 91.2700, Division 27, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.2702.2.18.1. Fuel Supply.** An on-premises fuel supply, sufficient for not less than 6-hour full-load operation of the emergency and standby power source(s), shall be provided. This fuel supply shall not be less than 8-hour when the load also includes fire pump(s).

Sec. 98. Section 91.3001 of Division 30, Article 1, Chapter IX of the LAMC is amended to read as follows:

Section 3001 of the CBC is adopted by reference, except that Section 3001.1 and Table 3001.3 of the CBC are not adopted; and, in lieu, LAMC Subsection 91.3001.1 and Table 91.3001.3 are added.

Sec. 99. Subsection 91.3001.2 of Section 91.3001, Division 30, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 100. A new Table 91.3001.3 is added immediately following Subsection 91.3001.1, Division 30, Article 1, Chapter IX of the LAMC to read as follows:

**TABLE 91.3001.3**

<b>TYPE</b>	<b>STANDARD</b>
Automotive lifts	ALI ALCTV
Belt manlifts	ASME A90.1
Conveyors and related equipment	ASME B20.1
Elevators, escalators, dumbwaiters, moving walks, material lifts	ASME A17.1/CSA B44
Industrial scissor lifts	ANSI MH29.1
Platform lifts, stairway chairlifts, wheelchair lifts	ASME A18.1

Sec. 101. Subsection 91.3001.4 of Section 91.3001, Division 30, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 102. Subsection 91.3001.5 of Section 91.3001, Division 30, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 103. Section 91.3002 of Division 30, Article 1, Chapter IX of the LAMC is amended to read as follows:

Section 3002 of the CBC is adopted by reference, except that Section 3002.8 of the CBC is not adopted; and, in lieu, LAMC Subsection 91.3002.8 is added.

Sec. 104. Subsection 91.3002.1.1 of Section 91.3002, Division 30, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 105. Subsection 91.3002.3 of Section 91.3002, Division 30, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 106. Subsection 91.3002.8 of Section 91.3002, Division 30, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.3002.8. Glass in Elevator Enclosures.** Glass in elevator enclosures shall comply with CBC Section 2409.2 and the Elevator Code.

Sec. 107. Section 91.3003 of Division 30, Article 1, Chapter IX of the LAMC is amended to read as follows:

Section 3003 of the CBC is adopted by reference.

Sec. 108. Subsection 91.3003.2 of Section 91.3003, Division 30, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 109. Section 91.3007 of Division 30, Article 1, Chapter IX of the LAMC is amended to read as follows:

Section 3007 of the CBC is adopted by reference, except that Section 3007.1 of the CBC is not adopted; and, in lieu, LAMC Subsection 91.3007.1 is added.

Sec. 110. Subsection 91.3007.2 of Section 91.3007, Division 30, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 111. Subsection 91.3007.8.1 of Section 91.3007, Division 30, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 112. Section 91.3008 of Division 30, Article 1, Chapter IX of the LAMC is amended to read as follows:

Section 3008 of the CBC is adopted by reference, except that Sections 3008.1 and 3008.1.1 of the CBC are not adopted; and, in lieu, LAMC Subsections 91.3008.1, 91.3008.1.1 and 91.3008.8.1 are added.

Sec. 113. A new Subsection 91.3008.1 is added to Section 91.3008, Division 30, Article 1, Chapter IX of the LAMC to read as follows:

**91.3008.1. General.** Where elevators are to be used for occupant self-evacuation during fires, all passenger elevators for general public use shall comply with CBC Sections 3008.1 through 3008.10. Where other elevators are used for occupant self-evacuation, those elevators shall comply with these sections.

Sec. 114. A new Subsection 91.3008.1.1 of Section 91.3008, Division 30, Article 1, Chapter IX of the LAMC is added to read as follows:

**91.3008.1.1. Occupant evacuation elevators.** Occupant evacuation elevators shall comply with the California Code of Regulations, Title 8, Division 1, Chapter 4, Subchapter 6, Elevator Safety Orders.

Sec. 115. Subsection 91.3008.2 of Section 91.3008, Division 30, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 116. Subsection 91.3008.2.1 of Section 91.3008, Division 30, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 117. Subsection 91.3008.7.1 of Section 91.3008, Division 30, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 118. Subsection 91.3008.7.6 of Section 91.3008, Division 30, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 119. A new Subsection 91.3008.8.1 is added to Section 91.3008, Division 30, Article 1, Chapter IX of the LAMC to read as follows:

**91.3008.8.1. Determination of standby power load.** Standby power loads shall be based on the determination of the number of occupant evacuation elevators in CBC Section 3008.1.

Sec. 120. Subsection 91.3008.9.1 of Section 91.3008, Division 30, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 121. Subsection 91.3109.4 of Section 91.3109, Division 16, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.3109.4. Residential Swimming Pools.** Residential swimming pools shall be completely enclosed. The fence, barrier or a screen enclosure for residential swimming pools on a lot with one to three dwelling units shall comply with LAMC Subsection 91.3109.4.1 and CBC Sections 3109.1 through 3109.2.



Sec. 122. The first sentence of Subsection 91.3304.1.4 of Section 91.3304, Division 33, Article 1, Chapter IX of the LAMC is amended to read as follows:

Fill to be used to support the foundations of any building or structure shall comply with CBC Section 1804.6 and Division 70, Article 1, Chapter IX of the LAMC.

Sec. 123. Subsection 91.3307.3.2 of Section 91.3307, Division 33, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.3307.3.2. Removal of Lateral Support.** Approval of the Department of Public Works shall be obtained prior to the issuance of a permit for any excavation that would remove the lateral support from a public way.

The slopes of excavations adjacent to an existing structure, an adjacent property or public way may exceed one horizontal to one vertical where either:

1. A soil report recommending that the slope may be in excess of one to one has been approved by the Department and the Department of Public Works when the excavation is adjacent to a public way.

When justified by the soils engineer, the Department may approve the use of the proposed building and/or shoring to support an adjacent structure on an adjoining property in lieu of underpinning, provided:

- (i) Evidence is submitted that the adjoining property owner has been notified in advance of the proposed excavation in compliance with Section 832 of the Civil Code of California.

- (ii) The owner of the site records a sworn affidavit with the Office of the County Recorder, which will inform future owners of the site that the lateral support of a portion of the building footings on the adjoining property is provided by the subterranean walls of the building on the site.

2. Underpinning is designed to support adjacent structures, temporary shoring is designed to support the excavation, and plans are approved and permits are issued by the Department.

Temporary shoring shall be designed for an earth pressure recommended by a soils engineer and approved by the Department, equivalent to that exerted by a fluid weighing not less than 24 pounds (11 kg) per cubic foot plus all surcharge loads.

Soils bearing values shall be those specified in Division 18, Article 1, Chapter IX of the LAMC or those recommended by a soils engineer and approved by the Department.

The design of the required temporary shoring and necessary underpinning shall include a sequence of construction and installation.

Allowable stresses used in the design of temporary shoring may be increased 33-1/3% for structural and reinforcing steel and 25% for wood. No increase will be permitted for concrete. Other values shall be those prescribed by this Code.

Sec. 124. Section 91.6105, Division 61, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**SEC. 91.6105. SEPARATION FROM OIL WELLS.**

No school, hospital, sanitarium or assembly occupancy shall be within 200 feet from the center of the oil well casing.

No public utility fuel manufacturing plant or public utility electrical generating, receiving or distribution plant shall be located within 200 feet from the center of the oil well casing.

No building more than 400 square feet (37 m<sup>2</sup>) in area and taller than 36 feet in height shall be erected within 50 feet from the center of an oil well casing.

A distance separation between the exterior wall of the building and the center of an oil well casing shall be maintained with a horizontal distance equal to 1½ times the building's height, provided however, that that distance need not exceed 200 feet. The building height for this provision shall be measured vertically from the adjacent lowest ground elevation to the ceiling of the top story.

**EXCEPTIONS:** The distance separation may be reduced to the following:

1. 35 feet separation if a solid 6 inches thick masonry wall and no shorter than 6 feet tall to be constructed within 50 feet from the building in between the oil well and all portions of the building.
2. 26 feet if any portion of the building exterior walls within 50 feet from the center of an oil well casing shall be constructed with no openings and one hour fire resistive construction with a 3 foot high fire rated parapet.
3. 15 feet if any portion of the building exterior walls within 50 feet from the center of an oil well casing shall be constructed with no openings and two-hour fire resistive construction with a 3 foot high fire rated parapet.

The provisions specified within this section shall not apply to oil wells that have been abandoned per LAMC Section 57.5706.3.16 and in accordance with the applicable rules and regulations of the Division of Oil, Gas and Geothermal Resources of the State of California.

Sec. 125. Subsection 91.6206.1.1 of Section 91.6206, Division 62, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.6206.1.1.** Except as provided for in CBC Sections 402.6.4 and 2611, where internally illuminated signs have facings of wood or approved plastic, the area of such facing section shall be not more than 120 square feet (11.16 m<sup>2</sup>) and the wiring for electric lighting shall be entirely enclosed in the sign cabinet with a clearance of not less than 2 inches (51 mm) from the facing material.

Sec. 126. Subsection 91.6209.2 of Section 91.6209, Division 62, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 127. Subsection 91.6302.4 of Section 91.6302, Division 63, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.6302.4. Toilet Rooms and Vestibules.** Toilet rooms and vestibules for public or employees shall conform to the following standards:

1. **Toilet Rooms Required.** At least one toilet room shall be provided for every food establishment. Adequate separate toilet facilities for each sex shall be provided where the number of employees is four or more. In or immediately adjacent to every toilet room required hereunder there shall be installed one-half as many lavatories as there are water closets and urinals. Each lavatory shall be equipped with running hot and cold water.

Where alcoholic beverages are sold or given away for consumption on the premises, the toilet facilities shall comply with Section 11.38.570 D. of the Los Angeles County Health Code as enforced by the Los Angeles County Department of Public Health.

2. **Location.** Toilet rooms shall be located on the premises of the food establishment. Toilet rooms for public use shall be readily accessible to customers. Toilet rooms shall be separated from other portions of the establishment by a tight-fitting, self-closing door.

Additional lavatories or equivalent hand-washing facilities shall be provided in all food preparation areas where the lavatories required in Item 1 are not conveniently located on the same floor and in or adjacent to the food preparation areas.

3. **Privacy.** Toilet rooms shall be so arranged or equipped with view screens as to protect users of toilets and urinals from view from outside the room when the door to the toilet room is open.

**EXCEPTION:** View screen is not required if the toilet room is only for single accommodation, unisex and a bathroom is provided.

4. **Dimensions.** Toilet rooms shall have dimensions and area as required in Division 11, Article 1, Chapter IX of the LAMC.

Sec. 128. Subsection 91.6302.5 of Section 91.6302, Division 63, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.6302.5. Employee Storage Areas.** Lockers or other suitable facilities within food establishments shall be provided in compliance with Section 114256 of the California Health and Safety Code as enforced by the Los Angeles County Department of Public Health.

Sec. 129. Subsection 91.7005.9 of Section 91.7005, Division 70, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.7005.9. Nonconforming Sites.** All new buildings and additions to existing building shall conform to the provisions of the Code as follows:

1. Whenever a new principal building is constructed on a site, the entire site shall be made to conform to the provisions of this division and Chapter 18 of the CBC.

2. Whenever the principal building on the site is added to, altered or repaired in excess of 50% of its replacement value, the entire site shall be made to conform to the provisions of this division and Chapter 18 of the CBC.

Sec. 130. Subsection 91.7006.8.2 of Section 91.7006, Division 70, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 131. The first sentence of Subsection 91.7008.3 of Section 91.7008, Division 70, Article 1, Chapter IX of the LAMC is amended to read as follows:

The engineering geologist shall provide professional inspection within such geologist's area of technical specialty, which shall include professional inspection of the bedrock excavation to determine if conditions encountered are in conformance with the approved report.

Sec. 132. Subsection 91.7008.7 of Section 91.7008, Division 70, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.7008.7. Notification of Noncompliance.** If, in the course of fulfilling their respective duties under this division, the civil engineer, the soils engineer or the engineering geologist finds that the work is not being done in conformance with this division or the approved grading plans, the discrepancies shall be reported immediately in writing to the owner and to the Grading Division of the Department.

Sec. 133. Subsection 91.7010.2 of Section 91.7010, Division 70, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.7010.2. Slope.** No excavation shall be made with a cut face steeper than one unit vertical in two units horizontal (50% slope).

**EXCEPTION:** The Department or the Board of Building and Safety Commissioners (Board), in case an appeal is made to it under LAMC Section 91.105, may permit the excavation to be made with a cut face steeper in slope than 1 unit vertical in 2 units horizontal (50% slope) if the applicant shows through investigation, subsurface exploration, analysis and report by both a soils engineer and an engineering geologist, to the Department's satisfaction, that the underlying bedrock and the materials to be exposed on the slope have strength characteristics sufficient to produce a stable slope with a factor of safety of not less than 1.5 for static loads.

Existing or proposed slopes shall be regraded or cut so as to be not steeper than the bedding planes in formation where the cut slope will lie on the dip side of the strike line or the bedding planes or other adversely oriented geologic structures shall be supported by retaining walls or buttress fills designed pursuant to the provisions of CBC Section 1807.2 or LAMC Section 91.7015.

**EXCEPTION:** Where special conditions warrant, the Department may approve slopes steeper than the bedding planes, or other adversely oriented geologic structures if the applicant shows through investigation, subsurface exploration, analysis and report by both a soils engineer and an engineering geologist, to the Department's satisfaction, that the slopes will have a factor of safety against sliding of not less than 1.5 for static loads.

Whenever grading at the top of any natural or manufactured slope exposes soil or bedrock material that will allow the infiltration of water in a manner that would adversely affect the stability of the slope, the exposed area shall be capped with a relatively impervious compacted soil blanket seal having a minimum thickness of two feet (610 mm). The soils engineer shall certify in writing that the blanket seal is adequate to reduce water infiltration to permissible levels.

Sec. 134. Paragraph B of Exception 3 of Subsection 91.7011.3 of Section 91.7011, Division 70, Article 1, Chapter IX of the LAMC is amended to read as follows:

B. The maximum distance between the retaining wall and the backcut shall not exceed 36 inches.

Sec. 135. Subsection 91.7014.3 of Section 91.7014, Division 70, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.7014.3. Flood and Mudflow Protection.** Flood and mudflow protection shall be provided for all new buildings, additions to buildings and substantial improvements to buildings, which are located on sites determined by the Department to be subject to those conditions, in accordance with Ordinance No. 163,913.

The recommendations for mudflow protection shall be contained in a site investigation report made by persons qualified and licensed in civil engineering, engineering geology and/or soils engineering to ascertain the location, magnitude and extent of potential mudflow hazards and to recommend measures for protection or the elimination of those hazards. The use of the minimum design parameters specified in this Code shall be justified in the report.

Minimum design parameters to be used for mud/debris flow control systems within and at the base of concentrated drainage areas are:

1. A channel flow capacity of 10 cubic feet per second (0.28 m<sup>3</sup>/s) per acre (ha) of tributary drainage area; or
2. A temporary storage capacity of 400 cubic yards (306 m<sup>3</sup>) per acre (ha) of tributary drainage area.

Sec. 136. The first sentence of Subsection 91.7204.2 of Section 91.7204, Division 72, Article 1, Chapter IX of the LAMC is amended to read as follows:

Every building of Type IIB construction in Fire District No. 1, except provisional structures allowed by this section, shall have at least two-hour fire-resistive construction for exterior walls with a fire separation distance of less than 10 feet and shall have at least one-hour fire-resistive construction for exterior walls with a fire separation distance of less than 30 feet.

Sec. 137. Subsection 91.7204.3 of Section 91.7204, Division 72, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.7204.3. Openings in Exterior Walls.** In the following cases, all openings in the exterior walls of buildings in Fire District No. 1, other than provisional structures, shall be protected by a fire assembly having a three-fourths-hour fire-resistive rating when the exterior wall has a fire separation distance of less than 10 feet.

Sec. 138. Subsection 91.7204.6 of Section 91.7204, Division 72, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.7204.6. Exterior Walls.** In addition to LAMC Subsection 91.7204.2, Section D102.2.6 of Appendix D of the CBC is adopted by reference.

Sec. 139. The first paragraph of Subsection 91.8116.1 of Section 91.8116, Division 81, Article 1, Chapter IX of the LAMC is amended to read as follows:

This division does not prevent the use of a room as a light-housekeeping room in any building, provided that such room fully complies with the provisions of this section.

Sec. 140. Subsection 91.8116.2.1 of Section 91.8116, Division 81, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.8116.2.1.** Light-housekeeping rooms shall contain not less than 150 square feet in area and shall be occupied by not more than two people. The cooking appliance therein, if any, shall be used solely for the cooking or preparation of meals for consumption by the occupants of the room. The use of cooking appliances, existing in rooms prior to September 20, 1963, shall be in accordance with the provisions of LAMC Subsections 91.8116.2.2 through 91.8116.2.10.

**EXCEPTION:** A room having a superficial floor area of not less than 120 square feet may be used for light-housekeeping if it is occupied by only one person.

Sec. 141. The definition Guidelines for Seismic Retrofit of Existing Buildings in Subsection 91.8501.3 of Section 91.8501, Division 85, Article 1, Chapter IX of the LAMC is deleted in its entirety.

Sec. 142. The second paragraph of Subsection 91.8502.5 of Section 91.8502, Division 85, Article 1, Chapter IX of the LAMC is amended to read as follows:

High-rise buildings shall be provided with a central control station (fire command center) that complies with all the requirements of CBC Section 403.4.6 and LAMC Section 57.508, including the minimum room dimensions of 10 feet (3048 mm).

Sec. 143. Subdivision B of Subsection 91.8502.6 of Section 91.8502, Division 85, Article 1, Chapter IX of the LAMC is amended to read as follows:

B. The flue venting system may terminate at the exterior wall when installed in compliance with the exhaust system termination in NFPA 37, *Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines*.

Sec. 144. Subdivision 2 of Subsection 91.8502.7.1 of Section 91.8502, Division 85, Article 1, Chapter IX of the LAMC is amended to read as follows:

2. Existing doors between the corridor and the Joint Living and Work Quarters that are part of the historic fabric of a Qualified Historical Building may be allowed to remain provided approved smoke gaskets and self-closing and latching devices to prevent smoke penetration are installed on the door, or the existing door shall be replaced with a door conforming to the requirements of CBC Section 716.2.2.1.

Sec. 145. The first sentence of Subsection 91.8502.7.4 of Section 91.8502, Division 85, Article 1, Chapter IX of the LAMC is amended to read as follows:

All exit stairways shall be enclosed and shall comply with all the requirements of CBC Section 1023.

Sec. 146. Subsection 91.8502.8 of Section 91.8502, Division 85, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.8502.8. Accessibility (Disabled Access).** The conversion of an Existing Building or portion thereof to a Joint Living and Work Quarters shall be in compliance with the accessibility standards of CBC Chapters 11A and/or 11B, whichever is applicable.

Sec. 147. The last sentence of Subsection 91.8502.9.1 of Section 91.8502, Division 85, Article 1, Chapter IX of the LAMC is amended to read as follows:

In lieu of required exterior glazed openings, artificial light may be provided in accordance with CBC Section 1204.3.

Sec. 148. Subsection 91.8502.9.2 of Section 91.8502, Division 85, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.8502.9.2. Ventilation.** Habitable rooms shall be provided with natural ventilation by means of operable exterior openings with an area of not less than one thirtieth of the floor area of the room. In lieu of required operable exterior openings, a mechanical ventilation system in accordance with the California Mechanical Code may be provided.

Public corridors or hallways shall be provided with an adequate ventilation system when all the habitable rooms in the Joint Living and Work Quarters on the floor do not have operable exterior openings that comply with the requirements of CBC Section 1202.1.

An adequate ventilation system for the public corridors shall mean either an operable exterior window or a permanent exterior opening having a minimum area of 5 square feet (.046 m<sup>2</sup>), or a mechanical ventilation system that complies with the requirements of LAMC Subsection 91.8502.14 and CBC Section 1203.1.

Sec. 149. The second sentence of Subsection 91.8502.10 of Section 91.8502, Division 85, Article 1, Chapter IX of the LAMC is amended to read as follows:



All new construction shall comply with sound transmission requirements of CBC Section 1206.

Sec. 150. The Exception to Subsection 91.8502.12.1 of Section 91.8502, Division 85, Article 1, Chapter IX of the LAMC is deleted.

Sec. 151. Subsection 91.8502.12.2 of Section 91.8502, Division 85, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.8502.12.2. Steel Frame Buildings with Masonry Infill Walls.** Steel frame buildings with masonry infill walls shall be made to comply with the standards as developed by the Department and all the relevant provisions of Article 1.2, Chapter IX of the LAMC.

Sec. 152. Subsection 91.8502.14 of Section 91.8502, Division 85, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.8502.14. Mechanical Systems.** All mechanical systems shall comply with the requirements of the Mechanical Code.

Sec. 153. The first sentence of Subsection 91.8502.15 of Section 91.8502, Division 85, Article 1, Chapter IX of the LAMC is amended to read as follows:

Existing elevators need not comply with the requirements of Division 30, Article 1, Chapter IX of the LAMC, except where required to comply with the State Elevator Safety Order of Subchapter 6, of Chapter 4, Division 1 of Title 8 of the California Code of Regulations.

Sec. 154. Subsection 91.8603.1.1 of Section 91.8603, Division 86, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.8603.1.1. Existing Residential Building.** Except as otherwise provided in LAMC Subsection 91.8603.1.2, the provisions of CBC Section 907.2.10 shall apply to every dwelling unit, efficiency dwelling unit, guest room and suite in any building where the original building permit was issued prior to May 18, 1980. The smoke detectors may be battery operated until August 1, 1983, at which time the smoke detectors shall be located and permanently wired as required in CBC Section 907.2.10.

Nothing in this Section shall be construed to waive the requirement for permanently wired smoke detectors, which was in effect at the time the original building permit for the building was issued.

Every permanently wired smoke detector installed in a corridor or area giving access to the sleeping rooms shall be located within 12 feet six inches of the sleeping room. Where the location of the detector is less than 12 feet six inches of an appliance,

which produces products of combustion other than a forced-air heating unit, a photoelectric type detector shall be required. There shall be no more than one door separating that type of detector from any room used for sleeping purposes. A permanently wired smoke detector installed pursuant to a permit issued prior to July 31, 1981, need not comply with this paragraph until replaced.

Sec. 155. Subsection 91.8603.1.2 of Section 8603, Division 86, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.8603.1.2. Existing Apartment Hotels and Hotels Over 75 Feet in Height.** Every existing apartment hotel more than 75 feet in height and containing no more than nine dwelling units and every existing hotel more than 75 feet in height, where the original building permit for the building was issued prior to May 18, 1980, shall comply with the provisions of CBC Section 907.2.10 not later than August 1, 1981.

**EXCEPTION:** The operative date for compliance may be delayed until August 1, 1982 if the Department determines that the building complies with either the provisions of CBC Sections 420 and 602.2 or California Existing Building Code Section 601.1.1.

Notwithstanding any other provision here to the contrary, every guest room in any apartment hotel or hotel described in this section when used as a light-housekeeping room, as that term is described in LAMC Subsection 91.8116.1, shall be provided with smoke detectors in compliance with the provisions of CBC Section 907.2.10 and the provisions of LAMC Subsection 91.8603.2 pertaining to photoelectric type smoke detectors located in corridors or areas giving access to sleeping rooms. Smoke detectors may be battery operated until August 1, 1982, at which time the smoke detectors shall be located and permanently wired as required by CBC Section 907.2.10.

Sec. 156. The first sentence of Subsection 91.8603.2.1 of Section 91.8603, Division 86, Article 1, Chapter IX of the LAMC is amended to read as follows:

After July 31, 1980, existing one-family dwellings shall be provided with smoke detectors, which may be battery operated, located as specified in CBC Section 907.2.10 for Group R, Division 3 Occupancies, if:

Sec. 157. The first paragraph of Subsection 91.8603.2.2 of Section 91.8603, Division 86, Article 1, Chapter IX of the LAMC are amended to read as follows:

Every building containing two dwelling units and not more than five guest rooms, where the original building permit was issued prior to May 18, 1980, shall comply with the provisions of CBC Section 907.2.10 and the provisions of LAMC Subsection 91.8603.2.1 pertaining to photoelectric-type smoke detectors located in corridors or areas giving access to sleeping rooms. Smoke detectors may be battery operated until

August 1, 1983, at which time the smoke detectors shall be located and permanently wired as required by CBC Section 907.2.10.

Sec. 158. Subsection 91.8604.2.2 of Section 91.8604, Division 86, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.8604.2.2. Scope.** The provisions of this subsection shall apply to all existing commercial and industrial buildings more than two stories in height which do not conform to the minimum shaft enclosure and exit requirements of this Code and which are not required to comply with the California Existing Building Code for existing buildings over 75 feet (22.86 m) in height. The provisions of this subsection shall not authorize the modification of existing buildings or portions thereof which provide a greater degree of protection against fire than the minimum requirements established by this subsection.

**EXCEPTION:** The requirements of this subsection shall not apply to buildings erected after January 1, 1943.

Sec. 159. Exception 3 of Subsection 91.8604.6.4 of Section 91.8604, Division 86, Article 1, Chapter IX of the LAMC is amended to read as follows:

3. The Department may, with the concurrence of the Fire Department, grant exceptions from the requirements of Division 20, Article 4, Chapter IX of the LAMC as specified in LAMC Subsection 91.8604.6.5.

Sec. 160. Subsection 91.8605.2 of Section 91.8605, Division 86, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.8605.2. General.** Notwithstanding any provisions of this Code to the contrary, the following requirements shall apply to emergency homeless shelters operated during a shelter crisis, as provided for in Government Code Section 8698, et seq. Other than the requirements set forth below, the facilities need not comply with the requirements of this Code for Group R occupancies unless otherwise specified in this Code:

1. The maximum occupant load allowed in these facilities shall be the number determined appropriate by the professional service provider operating the facility and be computed at a rate of 70 square feet for the first occupant and 50 square feet for each occupant thereafter. The Superintendent of Building, with concurrence with the Fire Department, may grant an increase of occupant load provided that an aisle, seating, furniture, and fixed equipment diagram, substantiating the increase in occupant load, be submitted and approved pursuant to Section 91.8605.3 of this Code. Such diagram shall be posted on site for each level where occupant load increase is granted.

2. **Fire Safety Requirements.**

A. All exits shall comply with Article 7, Chapter V of the LAMC.

B. Smoke detection devices shall be provided in all sleeping areas and shall be installed in accordance with Article 7, Chapter V of the LAMC and CBC Section 907.2.10.

C. A fire alarm system capable of arousing occupants shall be installed in accordance with Article 7, Chapter V of the LAMC and CBC Section 907.2.8

D. The use of any open flames and the possession or storage of any combustibles shall not be permitted.

**EXCEPTION:** The Superintendent of Building may approve the use of open flames and storage of combustibles in these buildings with concurrence of the Fire Department.

E. Sleeping quarters shall be limited to the ground floor only.

F. Automatic fire sprinklers shall be provided for new and existing buildings or structures as required per Article 7 of Chapter V of the LAMC and CBC Section 903.

G. New shelter buildings or structures shall be located in accordance with the requirements of Table 602 of the CBC, based on the fire-resistance rating of the exterior walls for the proposed type of construction.

H. Portable fire extinguishers shall be provided per Article 7, Chapter V of the LAMC and Title 19 of the California Code of Regulations.

I. Tents and membrane structures shall comply with LAMC Sections 57.3101 through 57.3104, and California Code of Regulations, Title 19, Division 1, Chapter 2, Sections 303, 310, 312, 315, 316, 317, 319, 320, 321, 324, 325, 326, 332, 334, 335, 340, and 341. Tents and membrane structures shall be limited to one level located at the level of Fire Department vehicle access road or lane.

J. All interior finishes shall comply with LAMC Sections 57.803 and 57.804.

K. Fire Department access to building and premises identification shall be in compliance with LAMC Sections 57.503, 57.504, and 57.505.

3. **Light, Heating, Ventilation and Sanitation.**

A. Exterior openings for natural light and ventilation shall be provided as required for Group R occupancy, CBC Sections 1203 and 1205; exterior openings or artificial lighting shall be provided per CBC section 1205.3; and exterior openings or mechanical ventilation shall be provided per the California Mechanical Code.

B. All sleeping areas shall be provided with heating facilities capable of maintaining a room temperature of 70°F at a point 8 feet above the floor.

C. Every building shall be provided with at least one water closet and one bathing facility for every 15 occupants of each sex. Bathing facilities shall be provided with heating equipment that shall be capable of maintaining a temperature of 70°F within such facilities. Lavatories shall be provided and maintained in or adjacent to the toilet facilities.

D. Kitchen facilities, where provided, shall comply with applicable sections of Chapter IX of the LAMC and CBC Section 1208. Where kitchen or cooking facilities are not provided, all food shall be catered or delivered on site.

E. All garbage, kitchen waste and rubbish shall be deposited in approved covered receptacles, which shall be emptied when filled and the contents shall be disposed of in a sanitary manner.

Sec. 161. Subsection 91.8809.5.3 of Section 91.8809, Division 88, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.8809.5.3. In-Place Shear Tests.** The bed joints of the outer wythe of the masonry shall be tested in shear by laterally displacing a single brick relative to the adjacent bricks in that wythe. The mortar in the opposite head joint of the brick to be tested shall be removed and cleaned prior to testing. The minimum quality mortar in 80 percent of the shear tests shall not be less than the total of 30 psi (206.9 kPa) plus the axial stress in the wall at the point of the test. The shear stress shall be based on the gross area of both bed joints and shall be that shear stress at which movement of the masonry is first measured or at which cracking first appears.

An internal caliper, graduated in 0.001 of an inch (0.025 mm) increments shall be used to measure movement of the masonry unit. A hydraulic jack equipped with a pressure gauge graduated in increments of 50 psi (345 kPa) or less shall be used. The jack load shall be applied at a rate not exceeding 5,000 pounds (22 240 N) per minute.

The test shall be conducted by a minimum of two technicians. Load and displacement readings shall be recorded at the following intervals:

1. At a caliper reading of 0.001 inch (0.025 mm);
2. At first visually observed sign of movement or cracking of the mortar or masonry unit;
3. At a caliper reading of 0.02 inch (0.51 mm); and
4. The ultimate load on the unit.

The masonry unit to be tested shall not be located adjacent to a bond course in a brick wall laid in common bond. Tests to evaluate the mortar quality of structural walls shall not be conducted in masonry veneer.

Walls with mortar values which are consistently low and do not meet the minimum quality values specified in this Section shall be entirely pointed per Chapter A1, Section A103 and A106.2.3.9 of the 2019 California Existing Building Code except that the depth of joint penetration shall be 1-1/2 inch (38 mm) in lieu of the 3/4 inch (19 mm) specified.

Sec. 162. Subsection 91.9108.2 of Section 91.9108, Division 91, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.9108.2. Special Requirements for Wall Anchors and Continuity Ties.** The steel elements of the wall anchorage systems and continuity ties shall be designed by the allowable stress design method using a load factor of 1.7. The 1/3 stress increase permitted by CBC Section 1605.3.1.1 shall not be permitted for materials using allowable stress design methods.

The strength design shall be per Section 17.2.3 of ACI 318-14, unless modified by CBC Section 1905.1.8.

Wall anchors shall be provided to resist out-of-plane forces, independent of existing shear anchors.

**EXCEPTION:** Existing cast-in-place shear anchors may be used as wall anchors if the tie element can be readily attached to the anchors and if the engineer or architect can establish tension values for the existing anchors through the use of approved as-built plans or testing, and through analysis showing that the bolts are capable of resisting the total shear load while being acted upon by the maximum tension force due to earthquake. Criteria for analysis and testing shall be determined by the Superintendent.

Expansion anchors are not allowed without special approval of the Superintendent. Attaching the edge of plywood sheathing to steel ledgers is not considered as complying with the positive anchoring requirements of the Code; and attaching the edge of steel decks to steel ledgers is not considered as providing the positive anchorage of this Code unless testing and/or analysis are performed, which establish shear values for the attachment perpendicular to the edge of the deck.

Sec. 163. Subsection 91.9108.3 of Section 91.9108, Division 91, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.9108.3. Development of Anchor Loads into the Diaphragm.** Development of anchor loads into roof and floor diaphragms shall comply with LAMC Subsection 91.1616.3 and Section 12.11 of ASCE 7.

**EXCEPTION:** If continuously tied girders are present, then the maximum spacing of the continuity ties is the greater of the girder spacing or 24 feet (7315 mm).

In wood diaphragms, anchorage shall not be accomplished by use of toe nails or nails subject to withdrawal, nor shall wood ledgers, top plates or framing be used in cross-grain bending or cross-grain tension. The continuous ties required by LAMC Subsection 91.1616.3 and Section 12.11 of ASCE 7 shall be in addition to the diaphragm sheathing.

Lengths of development of anchor loads in wood diaphragms shall be based on existing field nailing of the sheathing unless existing edge nailing is positively identified on the original construction plans or at the site.

At reentrant corners, continuity collectors may be required for existing return walls not designed as shear walls, to develop into the diaphragm a force equal to the lesser of the rocking or shear capacity of the return wall, or the tributary shear, but not exceeding the capacity of the diaphragm. Shear anchors for the return wall shall be commensurate with the collector force. If a truss or beam, other than rafters or purlins, is supported by the return wall or by a column integral with the return wall, an independent secondary column, is required to support the roof or floor members whenever rocking or shear capacity of the return wall is governing.

Seismic deflection shall be determined at the return walls, and fins/canopies at entrances, to ensure deflection compatibility with the diaphragm, by either seismically isolating the element or attaching the element and integrating its load into the diaphragm.

Sec. 164. The following definitions in Section 91.9403, Division 94, Article 1, Chapter IX of the LAMC are amended to read as follows:

**DOWNHILL-DIRECTION.** The descending direction of the slope approximately perpendicular to the slope approximately perpendicular to the slope contours.

**FOUNDATION EXTENDING IN THE DOWNHILL-DIRECTION.** A foundation running downhill and approximately perpendicular to the uphill foundation.

**HILLSIDE BUILDING.** Any building or portion thereof constructed on or into a slope steeper than one-unit vertical in three-units horizontal (33.3% slope). If only a portion of the building is supported on or into the slope, these regulations apply to the entire building.

Sec. 165. Paragraph (a) of Subdivision 2 of Subsection 91.9504.2 of Section 91.9504, Division 95, Article 1, Chapter IX of the LAMC is amended to read as follows:

(a) Proof that the building was previously retrofitted in conformity with the provisions in either Chapter 85 or former Chapter 95 (Ordinance Nos. 171,260 and 176,673) of the Los Angeles Building Code (LABC); or

Sec. 166. Subdivision 2 of Subsection 91.9508.2 of Section 91.9508, Division 95, Article 1, Chapter IX of the LAMC is amended to read as follows:

2. Meet or exceed the requirements specified for "Basic Performance Objective for Existing Buildings" of ASCE 41, using a Tier 3 procedure and the two level performance objective for existing buildings (BPOE) in Table 2-1 of ASCE 41 for the applicable risk category, and using ground motions and procedures established by the Department.

Sec. 167. The following in Section 91.9603, Division 96, Article 1, Chapter IX of the LAMC is amended to read as follows:

**REINFORCED MASONRY WALL.** A masonry wall that has 50 percent or more of the reinforcing steel required by Section 2.3 or Section 3.3 of ACI 530-05/ASCE 5-05/TMS 402/602-16 (MSJC).

Sec. 168. Subsection 91.9604.2 of Section 91.9604, Division 96, Article 1, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.9604.2. Special Requirements for Wall Anchors and Continuity Ties.** The steel elements of the wall anchorage systems and continuity ties shall be designed by the allowable stress design method using a load factor of 1.7. The 1/3 stress increase permitted by CBC Section 1605.3.1.1 shall not be permitted for materials using allowable stress design methods.



The strength design shall be per Section 17.2.3 of ACI 318-14, unless modified by CBC Section 1905.1.8.

Wall anchors shall be provided to resist out-of-plane forces, independent of existing shear anchors.

**EXCEPTION:** Existing cast-in-place shear anchors may be used as wall anchors if the tie element can be readily attached to the anchors and if the engineer or architect can establish tension values for the existing anchors through the use of approved as-built plans or testing, and through analysis showing that the bolts are capable of resisting the total shear load while being acted upon by the maximum tension force due to seismic loading. Criteria for analysis and testing shall be determined by the Superintendent of Building.

Expansion anchors are not allowed without special approval of the Superintendent of Building. Attaching the edge of plywood sheathing to steel ledgers is not considered as complying with the positive anchoring requirements of the Code; and attaching the edge of steel decks to steel ledgers is not considered as providing the positive anchorage of this Code unless testing and analysis are performed, which establish shear values for the attachment perpendicular to the edge of the deck.

Sec. 169. Section 91.2.300 of Article 1.2, Division 3, Chapter IX of the LAMC is amended to read as follows:

Chapter 3 of the 2019 CEBC is hereby adopted by reference except as amended herein.

Sec. 170. A new Subsection 91.2.302.4 is added to Section 91.2.300, Article 1.2, Division 3, Chapter IX of the LAMC to read as follows:

**91.2.302.4. Existing Materials.** Materials already in use in a building in compliance with requirements or approvals in effect at the time of their erection or installation shall be permitted to remain in use unless determined by the Building Official to be unsafe pursuant to CEBC Section 115.

**Replacement, Retention and Extension of Original Materials.** The replacement, retention and extension of original materials, and the use of original methods of construction, for any building or accessory structure may remain, provided the aggregate value of work in any 12 month period does not exceed 10% of the replacement value, and provided further that no hazardous conditions exist and provided such building or structure complied with the building code provision in effect at the time of original construction and the building or accessory structure does not become or continue to be a substandard building.

## EXCEPTIONS:

1. Replacement, retention and extension of unreinforced masonry wall is not permitted.
2. Alteration, repair or rehabilitation of the existing portion in excess of 10% of the replacement value of a building or structure may be made provided that all the work conforms to this Code for a new building and that no hazardous condition or substandard building is continued or created in the remainder of the building as a result of such work.

Sec. 171. A new Subsection 91.2.302.7 is added to Section 91.2.300, Division 3, Article 1.2, Chapter IX of the LAMC to read as follows:

**91.2.302.7. Maintenance.** Buildings and structures, and parts thereof, shall be maintained in a safe and sanitary condition. Devices or safeguards which are required by the CBC and this Code shall be maintained in conformance with the code edition under which installed. The owner or the owner's designated agent shall be responsible for the maintenance of buildings and structures. To determine compliance with this subsection, the Department shall have the authority to require a building or structure to be reinspected. The requirements of this division shall not provide the basis for removal or abrogation of fire protection and safety systems and devices in existing structures. Maintenance of buildings and structures shall comply with Divisions 81 and 86 of Article 1, Chapter IX of the LAMC.

Sec. 172. A new Subsection 91.2.302.8 is added to Section 91.2.300, Division 3, Article 1.2, Chapter IX of the LAMC to read as follows:

**91.2.302.8. Compliance.** Alterations, repairs, additions and changes of occupancy to, or relocation of, existing structure shall comply with the provisions for alterations, repairs, additions and changes of occupancy in the Los Angeles Fire Code, Los Angeles Mechanical Code, Los Angeles Plumbing Code, Los Angeles Residential Code and Los Angeles Electrical Code.

Where there are different requirements in this Code, the most restrictive requirement shall govern. Where there is a conflict between a general requirement and a specific requirement, the specific requirement shall be applicable.

Sec. 173. Division 4, Article 1.2, Chapter IX of the LAMC is deleted in its entirety.

Sec. 174. A new Division 4 is added to Article 1.2, Chapter IX of the LAMC to read as follows:

## ARTICLE 1.2, DIVISION 4

### SEC. 91.2.400. BASIC PROVISIONS.

Chapter 4 of the CEBC is hereby adopted by reference except as amended herein.

**91.2.401. Scope.** Repairs shall comply with the requirements of this division. Repair to historic buildings need only comply with Chapter 12 of the CEBC. [OSHPD 1R, 2, 4, &5] repairs to historic buildings not adopted by OSHPD shall comply with the requirements in the California Building Code, Sections 1224.2, 1225.2, 1226.2, 1227.2 and 1228.2 for functional requirements. In addition to the requirements of the CEBC, existing buildings and structures shall comply with the applicable regulations of Divisions 81, 82, 83, 84, 85, 86, 88, 89, 91, 93, 95 and 97 of the Los Angeles Building Code (LABC) at Article 1, Chapter IX of the LAMC, Appendix A Chapters A1 and A2 of the LAEBC, and the voluntary earthquake hazard reduction standards of Divisions 92, 94 and 96 of Article 1, Chapter IX of the LAMC.

Sec. 175. Division 5, Article 1.2, Chapter IX of the LAMC is deleted in its entirety.

Sec. 176. A new Division 5 is added to Article 1.2, Chapter IX of the LAMC to read as follows:

## ARTICLE 1.2, DIVISION 5

### SEC. 91.2.500. BASIC PROVISIONS.

Chapter 5 of the CEBC is hereby adopted by reference except as amended herein.

**91.2.501.1. Scope.** The provisions of this division shall control the alternation, addition and change of occupancy of existing buildings and structures, [BSC] including state-regulated structures in accordance with Section 501.1.2 of the CEBC. In addition to the requirements of the CEBC, existing buildings and structures shall comply with the applicable regulations of Divisions 81, 82, 83, 84, 85, 86, 88, 89, 91, 93, 95 and 97 of the Los Angeles Building Code (LABC) at Article 1, Chapter IX of the LAMC, Appendix A Chapters A1 and A2 of the LAEBC, and the voluntary earthquake hazard reduction standards of Divisions 92, 94 and 96 of Article 1, Chapter IX of the LAMC.

**91.2.502.5. Existing Structural Elements Carrying Lateral Load.** Where the addition is structurally independent of the existing structure, existing lateral load-carrying structural elements shall be permitted to remain unaltered. Where the addition is not structurally independent of the existing structure, the existing structure and its addition acting together as a single structure shall be shown to meet the requirements of Sections 1609 and 1613 of the California Building Code using full seismic forces. For

purposes of CEBC Section 502, compliance with ASCE 41, using a Tier 3 procedure and the two level performance objective in CEBC Table 303.3.1 for the applicable risk category, shall be deemed to meet the requirements of CBC Section 1613, with procedures established by the Department.

**EXCEPTIONS:**

1. Except for Unreinforced Masonry (URM) Buildings:

Any existing lateral load-carrying structural element whose demand-capacity ratio with the addition considered is no more than 10% greater than its demand-capacity ratio with the addition ignored shall be permitted to remain unaltered. For purposes of calculating demand-capacity ratios, the demand shall consider applicable load combinations with design lateral loads or forces in accordance with CBC Sections 1609 and 1613. For purposes of this exception, comparisons of demand-capacity ratios and calculations of design lateral loads, forces and capacities shall account for the cumulative effects of additions and alterations since original construction.

The additions do not create structural irregularity as defined in ASCE 7 or make an existing structural irregularity more severe.

2. Unreinforced Masonry (URM) Buildings:

Any existing lateral load-carrying structural element on an unreinforced masonry building whose demand-capacity ratio with the addition considered less than 10% greater than its demand-capacity ratio with the addition, must comply with CEBC Appendix Chapter A1. When the demand-capacity ratio with the addition considered is 10% or greater than its demand-capacity ratio with the addition ignored, shall be designed per CBC Division 16.

**91.2.503.4. Existing Structural Elements Carrying Lateral Load.** Except as permitted by CEBC Section 503.13, where the alteration increases design lateral loads in accordance with CBC Section 1609 or 1613, or where the alteration results in a prohibited structural irregularity as defined in ASCE 7, or where the alteration decreases the capacity of any existing lateral load-carrying structural element, the structure of the altered building or structure shall be shown to meet the requirements of CBC Sections 1609 and 1613. Reduced seismic loads shall be permitted providing the reduced seismic load is not less than the original building permitted seismic loads. For purposes of CEBC Section 503, compliance with ASCE 41, using the performance objective in CEBC Table 303.3.1 for the applicable risk category, shall be deemed to meet the requirements of CBC Section 1613, and using the performance objective in CEBC Table 303.3.2 for the applicable risk category, shall be deemed to meet the requirements of reduced seismic loads, with procedures established by the Department.

## **EXCEPTIONS:**

### **1. Except for Unreinforced Masonry Buildings (URM):**

Any existing lateral load-carrying structural element whose demand-capacity ratio with the alteration considered is no more than 10% greater than its demand-capacity ratio with the alteration ignored shall be permitted to remain unaltered. For purposes of calculating demand-capacity ratios, the demand shall consider applicable load combinations with design lateral loads or forces in accordance with CBC Sections 1609 and 1613. Reduce seismic forces shall be permitted. For purposes of this exception, comparisons of demand-capacity ratios and calculations of design lateral loads, forces and capacities shall account for the cumulative effects of additions and alterations since original construction.

The alternations do not create structural irregularity as defined in ASCE 7 or make an existing structural irregularity more severe.

### **2. Unreinforced Masonry (URM) Buildings:**

Any existing lateral load-carrying structural element on an URM building whose demand-capacity ratio with the addition considered less than 10% greater than its demand-capacity ratio with the addition, must comply with CEBC Appendix Chapter A1. When the demand-capacity ratio with the addition considered is 10% or greater than its demand-capacity ratio with the addition ignored, it shall be designed per CBC Chapter 16.

Structural analysis per CEBC Appendix Chapter A1 is required for any alterations to crosswalls or diaphragms.

**91.2.506.4.3. Seismic Loads (seismic force-resisting system).** Where a change of occupancy results in a building being assigned to a higher risk category, the building shall satisfy the requirements of Section 1613 of the California Building Code for the new risk category using full seismic forces. For purposes of this section, compliance with ASCE 41, using a Tier 3 procedure and the two-level performance objective in CEBC Table 303.3.1 for the applicable risk category, shall be deemed to meet the requirements of CBC Section 1613, with procedures established by the Department.

## **EXCEPTIONS:**

1. Where the area of the new occupancy is less than 10% of the building area and the new occupancy is not assigned to Risk Category IV, compliance with this section is not required. The cumulative effect of occupancy changes over time shall be considered.

2. When a change of use results in a structure being reclassified from Risk Category I or II to Risk Category III and the structure is located where the seismic coefficient, SDS, is less than 0.33, compliance with the seismic requirements of CBC Section 1613 is not required.

3. Unreinforced masonry bearing wall buildings assigned to Risk Category III and to Seismic Design Category A or B shall be permitted to use Appendix Chapter A1 of this code.

For a change of occupancy of an existing commercial or industrial building to residential use, all existing buildings shall be analyzed for 75% of the design earthquake ground motion, as defined in CBC Section 1613, but in no event shall there be a reduction in the capacity of the seismic force resisting system where that system provides a greater level of protection than the minimum requirements established by this Code.

For an existing URM building, structural analysis per CBC Chapter 16 is required if the risk category is changed to III or IV. Structural analysis per CEBC Appendix A1 is required if rating classification per LABC Division 88, Table 88-A is changed to I or II.

For URM buildings with an approved occupant load greater than 100, the occupant load may be increased by a maximum of 10% without changing the rating class or risk category.

The most restrictive requirement of CEBC Sections 502 (Addition), 503 (Alternation), 405 (Repair) and 506 (Change of Occupancy) shall apply.

Sec. 177. Section 91.2.1400 of Division 14, Article 1.2, Chapter IX of the LAMC is amended to read as follows:

Chapter 14 of the CEBC is hereby adopted by reference except CEBC Section 1401.2 is not adopted and in lieu, LAMC Subsection 91.2.1401.2 is added.

Sec. 178. A new Subsection 91.2.1401.2 is added to Section 91.2.1400, Division 14, Article 1.2, Chapter IX of the LAMC to read as follows:

**91.2.1401.2. Conformance.** Structures moved into or within the City shall comply with the provisions of Division 83, Article 1, Chapter IX of the LAMC.

Sec. 179. Section 91.5.100 of Division 1, Article 1.5, Chapter IX of the LAMC is amended to read as follows:

The Los Angeles Residential Code adopts by reference portions of the California Residential Code (CRC). Chapter 1 and Appendix S of the CRC are not adopted.

Article 1, Division 1 of Chapter IX of the Los Angeles Municipal Code is adopted by reference with the following additions and amendments.

Sec. 180. Section 91.5.101 of Division 1, Article 1.5, Chapter IX of the LAMC is amended in its entirety to read as follows.

**SEC. 91.5.101. GENERAL.**

**91.5.101.1. Title.** Article 1.5, Chapter IX of the LAMC shall be known as the Los Angeles Residential Code or LARC, a portion of the Los Angeles Municipal Code (LAMC), and wherever the word Code is used in this article, it shall mean the Los Angeles Residential Code.

**91.5.101.2. Scope.** The provisions of the LARC for one- and two-family dwellings shall apply to the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, removal, and demolition of detached one- and two-family dwellings, efficiency dwelling units, and townhouses not more than three stories above grade plane in height with a separate means of egress and their accessory structures. In addition to the LARC, Divisions 1, 11, 17, 31, 33, 63, 67, 70, 71, 72, 81, 89, 92, 93 and 96 of the LABC shall also be applicable to one- and two-family dwellings, efficiency dwelling units, and townhouses unless stated otherwise.

The LABC and LARC adopt by indicated reference portions of the 2019 California Building Code (CBC) or the 2019 California Residential Code (CRC) located at Title 24 of the California Code of Regulations (CCR).

**EXCEPTION:** Live/work units comply that comply with the requirements of CBC Section 419 shall be permitted to be built as one- or two-family dwellings or townhouses. Fire suppression required by CBC Section 419.5 when constructed under the CRC for one- and two-family dwellings shall conform to CBC Section 903.3.1.3.

For additions, alterations, moving, and maintenance of buildings and structures, see Article 1.2, Chapter IX of the LAMC. For temporary buildings and structures, see CBC Section 3103.

Sec. 181. The first paragraph of Section 91.5.202, Division 2, Article 1.5, Chapter IX of the LAMC is amended to read as follows:

Chapter 202 of the CRC is adopted by reference, except that the following CRC definitions are not adopted:

**ATTIC, HABITABLE.**

**BUILDING OFFICIAL.**

**LOT.**

Sec. 182. The first sentence of Subsection 91.5.301.1.3 of Section 91.5.300, Division 3, Article 1.5, Chapter IX of the LAMC is amended to read as follows:

Where a building of otherwise conventional construction contains structural elements exceeding the limits of CRC Section R301 or otherwise not conforming to this Code, these elements shall be designed in accordance with accepted engineering practice.

Sec. 183. The first sentence of Subsection 91.5.301.1.3.2 of Section 91.5.300, Division 3, Article 1.5, Chapter IX of the LAMC is amended to read as follows:

The Building Official shall require construction documents to be approved and stamped by a California licensed architect or engineer for all dwellings of wood frame construction more than two stories in height with basement located in Seismic Design Category A, B, or C.

Sec. 184. Subsection 91.5.301.1.4 of Section 91.5.300, Division 3, Article 1.5, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.5.301.1.4. Seismic Design Provisions for Buildings Constructed on or into Slopes Steeper than One Unit Vertical in Three Units Horizontal (33.3 Percent Slope).** The design and construction of new buildings and additions to existing buildings when constructed on or into slopes steeper than one-unit vertical in three-units horizontal (33.3% slope) shall comply with LAMC Subsection 91.1613.8.

Sec. 185. Table R301.2(1) following Subsection 91.5.301.1.4 of Section 91.5.300, Division 3, Article 1.5, Chapter IX of the LAMC is amended in its entirety to read as follows:

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

GROUND SNOW LOAD	WIND DESIGN				SEISMIC DESIGN CATEGORY <sup>1</sup>	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP <sup>2</sup>	ICE BARRIER UNDERLAYMENT REQUIRED <sup>3</sup>	FLOOD HAZARDS <sup>4</sup>	AIR FREEZING INDEX <sup>5</sup>	MEAN ANNUAL TEMP <sup>6</sup>
	Speed <sup>7</sup> (mph)	Topographic effects <sup>8</sup>	Special wind region <sup>9</sup>	Wind-borne debris zone <sup>10</sup>		Weathering <sup>11</sup>	Frost line depth <sup>12</sup>	Termite <sup>13</sup>					
0	85	No	No	No	D <sub>s</sub> E	Negligible	12"	Yes	39° to 44	No	See Flood Map	0	61.1

For SI: 1 pound per square foot = 0.0479 kPa, 1 mile per hour = 0.447 m/s.

- a. Where weathering requires a higher strength concrete or grade of masonry than necessary to satisfy the structural requirements of this Code, the frost line depth strength required for weathering shall govern. 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 [CRC Figure R301.2(4)].



- b. The frost line depth may require deeper footings than indicated in CRC Figure R403.1(1). The jurisdiction shall fill in the frost line depth column with the minimum depth of footing below finish grade.
- c. The jurisdiction shall fill in this part of the table to indicate the need for protection depending on whether there has been a history of local subterranean termite damage.
- d. The jurisdiction shall fill in this part of the table with the wind speed from the basic wind speed map [CRC Figure R301.2 (5) A]. Wind exposure category shall be determined on a site-specific basis in accordance with CRC Section R301.2.1.4.
- e. Temperatures shall be permitted to reflect local climates or local weather experience as determined by the Building Official.
- f. The jurisdiction shall fill in this part of the table with the seismic design category determined from CRC Section R301.2.2.1.
- g. The jurisdiction shall fill in this part of the table with (a) the date of the jurisdiction's entry into the National Flood Insurance Program (date of adoption of the first code or ordinance for management of flood hazard areas), (b) the date(s) of the Flood Insurance Study and (c) the panel numbers and dates of all currently effective FIRMs and FBFMs or other flood hazard map adopted by the authority having jurisdiction, as amended.
- h. In accordance with CRC Sections R905.1.2, R905.4.3.1, R905.5.3.1, R905.7.3.1, and R905.8.3.1, where there has been a history of local damage from the effects of ice damming, the jurisdiction shall fill in this part of the table with "YES". Otherwise, the jurisdiction shall fill in this part of the table with "NO".
- i. The jurisdiction shall fill in this part of the table with the 100-year return period air freezing index (BF-days) from CRC Figure R403.3(2) or from the 100-year (99%) value on the National Climatic Data Center data table "Air Freezing Index - USA Method (Base 32°F)" at [www.ncdc.noaa.gov/fpsf.html](http://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](http://www.ncdc.noaa.gov/fpsf.html).
- k. In accordance with CRC 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.
- l. In accordance with CRC Figure R301.2(5) A, where there is local historical data documenting unusual wind conditions, the jurisdiction shall fill in this part of the table with "YES" and identify any specific requirements. Otherwise, the jurisdiction shall indicate "NO" in this part of the table.

- m. In accordance with CRC Section R301.2.1.2, the jurisdiction shall indicate the wind-borne debris wind zone(s). Otherwise, the jurisdiction shall indicate "NO" in this part of the table.

Sec. 186. Subdivisions 1 and 2 of Subsection 91.5.301.2.2.3.8 of Section 91.5.300, Division 3, Article 1.5, Chapter IX of the LAMC are deleted.

Sec. 187. Subsection 91.5.301.2.2.3.8 of Section 91.5.300, Division 3, Article 1.5, Chapter IX of the LAMC is renumbered as Subsection 91.5.301.2.2.11.

Sec. 188. The last sentence of Subsection 91.5.311.2 of Section 91.5.300, Division 3, Article 1.5, Chapter IX of the LAMC is amended to read as follows:

Every interior door shall have a minimum width of 32 inches (813 mm), except for closets less than 10 square feet in size, which shall comply with CBC Section 1010.1.1, Exception 3.

Sec. 189. The first sentence of Subsection 91.5.322.1.4.1 of Section 91.5.300, Division 3, Article 1.5, Chapter IX of the LAMC is amended to read as follows:

If design flood elevations are not specified, the building official is authorized to require the applicant to comply with either of the following:

Sec. 190. Subsection 91.5.501.1 of Section 91.5.500, Division 5, Article 1.5, Chapter IX of the LAMC is amended in its entirety to read as follows:

**91.5.501.1. Application.** The provisions of this division shall control the design and construction of the floors for buildings, including the floors of attic spaces used to house mechanical or plumbing fixtures and equipment. Mechanical, plumbing fixtures, and equipment shall be attached (or anchored) to the structure in accordance with LAMC Subsection 91.5.301.2.2.11.

Sec. 191. The Title of Figure 91.503.2.4 following Subsection 91.5.503.2.4 of Section 91.5.500, Division 5, Article 1.5, Chapter IX of the LAMC shall be moved to precede the figure, not follow the figure.

Sec. 192. Footnote b of Table 91.5.602.10.3(3) following Subsection 91.5.602.10.2.3 of Section 91.5.600, Division 6, Article 1.5, Chapter IX of the LAMC is amended to read as follows:

- b. Wall bracing lengths are based on a soil site class "D". Interpolation of bracing length between the  $S_{ds}$  values associated with the Seismic Design Categories shall be permitted when a site-specific  $S_{ds}$  value is determined in accordance with CBC Section 1613.3.

Sec. 193. Table 91.5.802.5.1(9) following Section 91.5.800, Division 8, Article 1.5, Chapter IX of the LAMC is renumbered as Table 91.5.802.5.2.

Sec. 194. The Title of Table 91.5.802.5.2 following Section 91.5.800, Division 8, Article 1.5, Chapter IX of the LAMC is amended to read as follows:

**Table 91.5.802.5.2**  
**Rafter/Ceiling Joist Heel Joint Connections** <sup>a, b, c, d, e, f, g, h, i</sup>

Sec. 195. Section 91.5.900 of Division 9, Article 1.5, Chapter IX of the LAMC is amended to read as follows:

Chapter 9 of the CRC is hereby adopted by reference except as amended or modified herein. Section R902.2 of the 2019 California Residential Code is not adopted.

Sec. 196. A new Subsection 91.5.902.2 is added to Section 91.5.900, Division 9, Article 1.5, Chapter IX of the LAMC to read as follows:

**91.5.902.2 Fire-retardant-treated shingles and shakes.** Fire-retardant- treated wood shakes and shingles are wood shakes and shingles complying with UBC Standard 15-3 or 15-4 which are impregnated by the full-cell vacuum-pressure process with fire-retardant chemicals, and which have been qualified by UBC Standard 15-2 for use on Class A, B or C roofs. Fire-retardant-treated wood shakes and shingles shall comply with ICC-ES EG107 and with the weathering requirements contained in California Health and Safety Code Section 13132.7 (j). Each bundle shall bear labels from an ICBO accredited quality control agency identifying their roof-covering classification and indicating their compliance with ICC-ES EG107 and with the weathering requirements contained in California Health and Safety Code Section 13132.7 (j).

No wood shake or shingle roof covering is permitted as provided by LAMC Subsection 91.1505.1.

Sec. 197. The first sentence of Subsection 91.5.1001.3.1 of Section 91.5.1000, Division 10, Article 1.5, Chapter IX of the LAMC is amended to read as follows:

For chimneys up to 40 inches (1016 mm) wide, four No. 4 continuous vertical bars adequately anchored into the concrete foundation shall be placed between wythes of solid masonry or within the cells of hollow unit masonry and grouted in accordance with CRC Section R606.

Sec. 198. The third sentence of Section 93.0101, Division 1, Article 3, Chapter IX of the LAMC is amended to read as follows:

References to the "CEC" and the "CBSC" shall mean the 2019 "California Electrical Code" and the 2019 "California Building Standards Codes," respectively.

Sec. 199. The first sentence of Section 93.0208, Division 2, Article 3, Chapter IX of the LAMC is amended to read as follows:

No permit shall be transferable for the original permittee to any other person, unless the property owner authorizes the transfer in writing with a notarized letter.

Sec. 200. Subdivision (2) of Subsection (c) of Section 93.0501, Division 5, Article 4, Chapter IX of the LAMC is amended to read as follows:

(2) The homeowner actually resides in the residence.

Sec. 201. The first paragraph of Section 93.0600, Division 6, Article 3, Chapter IX of the LAMC is amended to read as follows:

Chapter 1 of the 2019 California Electrical Code (CEC) is adopted by reference for the purpose of providing definitions and requirements for electrical installations except as those definitions are modified or new definitions added as provided herein; and CEC Sections 625.42, 690.12(2) and 690.17(E) are not adopted, and LAMC Section 93.0600, Subsections 93.0625.42, 93.0690.12(2) and 93.0690.17(e) are added.

Sec. 202. The first and second sentences of Section 93.0700, Division 7, Article 3, Chapter IX of the LAMC are amended to read as follows:

Chapters 1 through 9, Annex C, H, G and I of the 2017 Edition of the National Electrical Code (NEC), as published by the National Fire Protection Association (N.F.P.A. 70-2017), the 2019 California Electrical Code (CEC) and the California Building Standards Code are adopted by reference as part of the Code. When there is a conflict between the 2017 NEC, the 2019 CEC and the Los Angeles Municipal Code (LAMC), LAMC Section 93.0105 shall prevail.

Sec. 203. Subsection 93.0705.12(D)(2)(3)(e) of Section 93.0700, Division 7, Article 3, Chapter IX of the LAMC is deleted in its entirety.

Sec. 204. Section 94.100.0, Division 1, Article 4, Chapter IX of the LAMC is amended to read as follows:

Chapter 1 of the 2019 California Plumbing Code (CPC) is not adopted.

Sec. 205. Subsection 94.101.5.6 of Section 94.101.0, Division 1, Article 4, Chapter IX of the LAMC is amended in its entirety to read as follows:

**94.101.5.6. Types of Plans Required to be Submitted.** Plans signed by a qualified submitter shall be filed with and approved by the Department before any work listed below is started:

1. Drainage systems.
  - a. Drainage and vent systems involving fixtures that discharge 217 or more fixture units.
  - b. Drainage pumps and ejectors.
2. Combination waste and vent systems.
3. Fuel gas piping with any of the following:
  - a. Systems having more than ten outlets.
  - b. Medium pressure gas systems.
  - c. High pressure gas systems.
  - d. Methane gas extraction systems.
4. Potable water piping with any of the following:
  - a. Systems requiring a 2-inch (50.80 mm) or larger supply.
  - b. Systems designed from the procedure in CPC Section 610.5.
5. Rainwater piping systems with more than ten interconnected rainwater or overflow drains, or a rainwater pump.
6. Siphonic roof drainage systems.
7. Special water piping for alternative water source system installations.
8. Non-potable rainwater catchment systems where the water is collected from the footprint of building or is reused in the building as alternative water source for non-potable applications into the building.
9. Swimming pool circulating water systems.

**EXCEPTION:** Private swimming pools.
10. Fire Protection.
  - a. Class H. Standpipes.
  - b. Standpipes: Class I, II, III.

- c. Fire pump systems.
- d. Fire hydrant systems.
- e. Hand hose systems connected to fire sprinkler piping.
- f. Monitor nozzle systems.
- g. Underground fire protection piping.
- h. Fire sprinkler systems.

**EXCEPTIONS:**

1. Raising or lowering of sprinklers due to change in ceiling height.
2. Replacing of sprinklers of the same type, orifice size and temperature rating.
3. Relocation of sprinklers in previously occupied buildings or tenant spaces, when using the same or larger pipe sizes and the same material.

Sec. 206. Section 94.200.0 of Division 2, Article 4, Chapter IX of the LAMC is amended to read as follows:

Chapter 2 of the 2019 California Plumbing Code (CPC) is adopted by reference with the following exceptions: CPC Sections 203, 204, 205, 206, 207, 208, 210, 212, 215, 219, 220, and 221 are not adopted and, in lieu, LAMC Sections 94.203.0, 94.204.0, 94.205.0, 94.206.0, 94.207.0, 94.208.0, 94.210.0, 94.212.0, 94.215.0, 94.219.0, 94.220.0, and 94.221.0 are added.

Sec. 207. Section 94.201.0 of Division 2, Article 4, Chapter IX of the LAMC is amended to read as follows:

Section 201.0 of the 2019 CPC is adopted by reference.

Sec. 208. Section 94.202.0 of Division 2, Article 4, Chapter IX of the LAMC is amended to read as follows:

Section 202.0 of the 2019 CPC is adopted by reference.

Sec. 209. The first sentence of Section 94.203.0. A, Division 2, Article 4, Chapter IX of the LAMC is amended to read as follows:

Section 203.0 of the 2019 CPC is adopted by reference with the following additions and amendments.

Sec. 210. The first sentence of Section 94.204.0. B, Division 2, Article 4, Chapter IX of the LAMC is amended to read as follows:

Section 204.0 of the 2019 CPC is adopted by reference with the following additions and amendments.

Sec. 211. The first sentence of Section 94.205.0. C, Division 2, Article 4, Chapter IX of the LAMC is amended to read as follows:

Section 205.0 of the 2019 CPC is adopted by reference with the following additions and amendments.

Sec. 212. The following definition in Section 94.205.0. C, Division 2, Article 4, Chapter IX of the LAMC is amended to read as follows:

**California Plumbing Code (CPC).** The 2019 Edition of the California Plumbing Code, also known as Part 5, Title 24 of the California Code of Regulations (CCR), a portion of the California Building Standards Code. The California Plumbing Code adopts the 2015 Edition of the Uniform Plumbing Code by reference with required state amendments.

Sec. 213. The first sentence of Section 94.206.0. D, Division 2, Article 4, Chapter IX of the LAMC is amended to read as follows:

Section 206.0 of the 2019 CPC is adopted by reference with the following additions and amendment:

Sec. 214. The first sentence of Section 94.207.0. E, Division 2, Article 4, Chapter IX of the LAMC is amended to read as follows:

Section 207.0 of the 2019 CPC is hereby adopted by reference with the following additions and amendments:

Sec. 215. The first sentence of Section 94.208.0. F, Division 2, Article 4, Chapter IX of the LAMC is amended to read as follows:

Section 208.0 of the 2019 CPC is hereby adopted by reference with the following additions and amendments:

Sec. 216. Section 94.209.0. G of Division 2, Article 4, Chapter IX of the LAMC is amended to read as follows:

Section 209.0 of the 2019 CPC is hereby adopted by reference with the following additions and amendments:

**Gas, High Pressure.** Natural gas pressure in excess of five (5) psig (34.5kPa) or propane gas pressure in excess of ten (10) psig (68.9kPa).

**Gas, Low Pressure.** Pressure less than two (2) psig (13.8kPa).

**Gas, Medium Pressure.** Natural gas pressure between two (2) psig (13.8kPa) and five (5) psig (34.5kPa) or propane gas pressure between two (2) psig (13.8kPa) and ten (10) psig (68.9kPa).

Sec. 217. The first sentence of Section 94.210.0. H, Division 2, Article 4, Chapter IX of the LAMC is amended to read as follows:

Section 2010.0 of the 2019 CPC is hereby adopted by reference with the following additions and amendments:

Sec. 218. Section 94.211.0. I, Division 2, Article 4, Chapter IX of the LAMC is amended to read as follows:

Section 211.0 of the 2019 CPC is hereby adopted by reference.

Sec. 219. The first sentence of Section 94.212.0. J, Division 2, Article 4, Chapter IX of the LAMC is amended to read as follows:

Section 212.0 of the 2019 CPC is hereby adopted by reference with the following additions and amendments:

Sec. 220. Section 94.213.0. K, Division 2, Article 4, Chapter IX of the LAMC is amended to read as follows:

Section 213.0 of the 2019 CPC is hereby adopted by reference.

Sec. 221. Section 94.214.0. L, Division 2, Article 4, Chapter IX of the LAMC is amended to read as follows:

Section 214.0 of the 2019 CPC is hereby adopted by reference.

Sec. 222. The first sentence of Section 94.215.0. M, Division 2, Article 4, Chapter IX of the LAMC is amended to read as follows:

Section 215.0 of the 2019 CPC is hereby adopted by reference with the following additions and amendments:



Sec. 223. The first sentence of Section 94.220.0. R, Division 2, Article 4, Chapter IX of the LAMC is amended to read as follows:

Section 220.0 of the 2019 CPC is hereby adopted by reference with the following additions and amendments:

Sec. 224. The first sentence of Section 94.221.0. S, Division 2, Article 4, Chapter IX of the LAMC is amended to read as follows:

Section 221.0 of the 2019 CPC is hereby adopted by reference with the following additions and amendments:

Sec. 225. Section 94.222.0. T, Division 2, Article 4, Chapter IX of the LAMC is amended to read as follows:

Section 94.222.0 of the 2019 CPC is hereby adopted by reference.

Sec. 226. Section 94.223.0. U, Division 2, Article 4, Chapter IX of the LAMC is amended to read as follows:

Section 94.223.0 of the 2019 CPC is hereby adopted by reference.

Sec. 227. Section 94.224.0. V, Division 2, Article 4, Chapter IX of the LAMC is amended to read as follows:

Section 224.0 of the 2019 CPC is hereby adopted by reference.

Sec.228. Section 94.225.0. W, Division 2, Article 4, Chapter IX of the LAMC is amended to read as follows:

Section 225.0 of the 2019 CPC is hereby adopted by reference.

Sec. 229. Section 94.226.0. X, Division 2, Article 4, Chapter IX of the LAMC is amended to read as follows:

Section 226.0 of the 2019 CPC is hereby adopted by reference.

Sec. 230. Section 94.227.0. Y, Division 2, Article 4, Chapter IX of the LAMC is amended to read as follows:

Section 227.0 of the 2019 CPC is hereby adopted by reference.

Sec. 231. Section 94.228.0. Z, Division 2, Article 4, Chapter IX of the LAMC is amended to read as follows:

Section 228.0 of the 2019 CPC is hereby adopted by reference.

Sec. 232. Section 94.300.0, Division 3, Article 4, Chapter IX of the LAMC is amended to read as follows:

Chapter 3 of the 2019 CPC is adopted by reference.

Sec. 233. The first sentence of Section 94.400.0, Division 4, Article 4, Chapter IX of the LAMC is amended to read as follows:

Chapter 4 of the 2019 CPC is adopted by reference except CPC Sections 412.1 and 412.1.2 are not adopted, and LAMC Subsections 94.407.2.4, 94.414.4 and 94.414.5 are amended or added to read as follows:

Sec. 234. Subsection 94.407.2.2 of Section 94.407, Division 4, Article 4, Chapter IX of the LAMC is deleted in its entirety.

Sec. 235. Subsection 94.407.2.4 is added to Section 94.400, Division 4, Article 4, Chapter IX of the LAMC to read as follows:

**94.407.2.4.** All faucets in public restrooms shall be self-closing or self-closing metering faucets. Metered faucets shall deliver a maximum of 0.20 gallons (0.76 L) per metering cycle.

Sec. 236. Subsections 94.411.2.3, 94.412.1 and 94.412.1.2 of Section 94.400, Division 4, Article 4, Chapter IX of the LAMC are deleted in their entirety.

Sec. 237. Section 94.500.0 of Division 5, Article 4, Chapter IX of the LAMC is amended to read as follows:

Chapter 5 of the 2019 CPC is adopted by reference.

Sec. 238. Section 94.600.0 of Division 6, Article 4, Chapter IX of the LAMC is amended to read as follows:

Chapter 6 of the 2019 CPC is adopted by reference with the following exceptions: CPC Sections 610.5, 612.0, 612.1, 612.2, 612.3, 612.3.1, 612.3.2, 612.3.3, 612.3.3.1, 612.3.4, 612.3.5, 612.3.6, 612.3.6.1, 612.3.6.2, 612.3.7, 612.3.8, 612.4, 612.4.1, 612.4.2, 612.4.2.1, 612.4.2.2, 612.4.3, 612.4.4, 612.4.5, 612.5, 612.5.1, 612.5.1.1, 612.5.1.2, 612.5.1.3, 612.5.2, 612.5.2.1, 612.5.2.2, 612.5.3, 612.5.3.1, 612.5.3.2, 612.5.3.2.1, 612.5.3.2.2, 612.6, 612.7, 612.7.1 and 612.7.2 and CPC Tables 612.3.3.1, 612.3.6, 612.5.3.2(1), 612.5.3.2(2), 612.5.3.2(3), 612.5.3.2(4), 612.5.3.2(5), 612.5.3.2(6), 612.5.3.2(7), 612.5.3.2(8) and 612.5.3.2(9) are not adopted and LAMC Subsections 94.610.4.1, 94.610.4.1.1, 94.610.4.1.2, 94.610.4.1.3, and 94.610.5 are added.

Sec. 239. Subdivisions 2 and 3 of Subsection 94.610.4.1.3 of Section 94.600.0, Division 6, Article 4, Chapter IX of the LAMC are amended to read as follows:

2. The total developed length of pipe from the water heater to the farthest fixture shall not exceed the distances specified in Table 3.6.5 of the 2019 California Energy Code Residential Appendix; and

3. The hot water supply piping shall be installed and insulated in accordance with Section RA3.6.2 of the 2019 California Energy Code Residential Appendix.

Sec. 240. A new Subsection 94.610.5 is added to Section 94.600.0, Division 6, Article 4, Chapter IX of the LAMC to read as follows:

**94.610.5. Sizing Per Appendix A.** Except as provided in CPC Section 610.4, the size of each water piping system shall be determined in accordance with the procedure set forth in Appendix A.

Sec. 241. Section 94.700.0 of Division 7, Article 4, Chapter IX of the LAMC is amended to read as follows:

Chapter 7 of the 2019 CPC is adopted by reference.

Sec. 242. Section 94.800.0 of Division 8, Article 4, Chapter IX of the LAMC is amended to read as follows:

Chapter 8 of the 2019 CPC is adopted by reference.

Sec. 243. Section 94.900.0 of Division 9, Article 4, Chapter IX of the LAMC is amended to read as follows:

Chapter 9 of the 2019 CPC is adopted by reference.

Sec. 244. Section 94.1000.0 of Division 10, Article 4, Chapter IX of the LAMC is amended to read as follows:

Chapter 10 of the 2019 CPC is adopted by reference.

Sec. 245. Section 94.1100.0 of Division 11, Article 4, Chapter IX of the LAMC is amended to read as follows:

Chapter 11 of the 2019 CPC is adopted by reference with the following exceptions: CPC Sections 1101.12.2.2, 1101.12.2.2.2, 1101.14 and 1101.16.2 are not adopted and, in lieu, LAMC Subsections 94.1101.12.2.2 and 94.1101.14 are added.

Sec. 246. Section 94.1200.0 of Division 12, Article 4, Chapter IX of the LAMC is amended to read as follows:

Chapter 12 of the 2019 CPC is adopted by reference and LAMC Section 94.1217.0 is added.

Sec. 247. Section 94.1300.0 of Division 13, Article 4, Chapter IX of the LAMC is amended to read as follows:

Chapter 13 of the 2019 CPC is not adopted.

Sec. 248. Section 94.1400.0 of Division 14, Article 4, Chapter IX of the LAMC is amended to read as follows:

Chapter 14 of the 2019 CPC is not adopted.

Sec. 249. Section 94.1500.0 of Division 15, Article 4, Chapter IX of the LAMC is amended to read as follows:

Chapter 15 of the 2019 CPC is adopted by reference.

Sec. 250. Section 94.1600.0 of Division 16, Article 4, Chapter IX of the LAMC is amended to read as follows:

Chapter 16 of the 2019 CPC is adopted by reference.

Sec. 251. Section 94.1600A.0 of Division 16A, Article 4, Chapter IX of the LAMC is deleted in its entirety.

Sec. 252. Section 94.1700.0 of Division 17, Article 4, Chapter IX of the LAMC is amended to read as follows:

Chapter 17 of the 2019 CPC is adopted by reference.

Sec. 253. Section 94.1800.0 of Division 18, Article 4, Chapter IX of the LAMC is amended to read as follows:

The 2018 Uniform Solar Energy, Hydronics and Geothermal code is adopted by reference, except Chapters 1, 8, and the Appendices are not adopted.

Sec. 254. Section 94.1900.0 of Division 19, Article 4, Chapter IX of the LAMC is amended to read as follows:

The 2018 Uniform Swimming Pool, Spa, and Hot Tub Code is adopted by reference, except Chapters 1, 3, 4, 8 and 9 are not adopted.

Sec. 255. The title and first sentence of Section 94.2010.0, Division 20, Article 4, Chapter IX of the LAMC is amended to read as follows:

**SEC. 94.2010.0. NFPA 13.**

Chapter 35 of the 2019 California Building Code to the extent it adopts and amends NFPA 13-2016 is adopted by reference and LAMC Subsection 94.2010.1 is added to read as follows:

Sec. 256. Subsection 94.2010.1 of Section 94.2010.0, Division 20, Article 4, Chapter IX of the LAMC is amended in its entirety to read as follows:

**94.2010.1.** Comply with the sprinkler provisions in Chapters 4 and 9 of the 2019 California Building Code as they pertain to sprinkler systems.

Sec. 257. Section 94.2013.0 of Division 20, Article 4, Chapter IX of the LAMC is amended to read as follows:

Chapter 35 of the 2019 California Building Code to the extent it adopts and amends NFPA 13R-2016 is adopted by reference and LAMC Subsection 94.2013.1 is added to read as follows:

Sec. 258. Subsection 94.2013.1 of Section 94.2013.0, Division 20, Article 4, Chapter IX of the LAMC is amended in its entirety to read as follows:

**94.2013.1.** Comply with the sprinkler provisions in Chapters 4 and 9 of the 2019 California Building Code as they pertain to NRPS 13R-2016.

Sec. 259. Section 94.2014.0 of Division 20, Article 4, Chapter IX of the LAMC is amended to read as follows:

Chapter 35 of the 2019 California Building Code to the extent it adopts and amends NFPA 13D-2016 is adopted by reference and LAMC Subsection 94.2014.1 is added to read as follows:

Sec. 260. Subsection 94.2014.1, of Section 94.2014, Division 20, Article 4, Chapter IX of the LAMC is amended in its entirety to read as follows:

**94.2014.1.** Comply with the sprinkler provisions in Chapters 4 and 9 of the 2019 California Building Code as they pertain to NFPA 14-2016.

Sec. 261. Section 94.2020.0 of Division 20, Article 4, Chapter IX of the LAMC is amended to read as follows:

Chapter 35 of the 2019 California Building Code to the extent it adopts and amends NFPA 20-2016 is adopted by reference and LAMC Subsections 94.2020.2 and 94.2020.3 are added to read as follows:

Sec. 262. The first sentence of Subsection 94.2020.2, Division 20, Article 4, Chapter IX of the LAMC is amended to read as follows:

NFPA 14-2016 Section 6.4.5.3.1 is hereby added to read as follows:

Sec. 263. The first sentence of Subsection 94.2020.3, Division 20, Article 4, Chapter IX of the LAMC is amended to read as follows:

NFPA 14-2016 Section 9.1.5 is hereby added to read as follows:

Sec. 264. The first paragraph of Section 94.2030.0, Division 20, Article 4, Chapter IX of the LAMC is amended to read as follows:

Chapter 35 of the 2019 California Building Code to the extent it adopts and amends NFPA 20-2016 is adopted by reference and LAMC Subsections 94.2030.1, 94.2030.2 and 94.2030.3 are amended or added to read as follows.

Sec. 265. Subsection 94.2030.1 of Section 94.2030.0, Division 30, Article 4, Chapter IX of the LAMC is amended in its entirety to read as follows:

**94.2030.1.** Comply with the fire pump provisions in Chapters 4 and 9 of the 2019 California Building Code.

Sec. 266. Section 94.2040.0 of Division 20, Article 4, Chapter IX of the LAMC is amended to read as follows:

Chapter 35 of the 2019 California Building Code to the extent it adopts and amends NFPA 24-2016 is adopted by reference.

Sec. 267. Subsection 94.2040.1 of Section 94.2040.0, Division 20, Article 4, Chapter IX of the LAMC is amended in its entirety to read as follows:

**94.2040.1.** Comply with the provisions in Chapter 9 of the 2019 California Building Code as it pertains to the installation of private fire service mains and their appurtenances.

Sec. 268. Section 94.2050.0 of Division 20, Article 4, Chapter IX of the LAMC is amended to read as follows:

Chapter 35 of the 2019 California Building Code to the extent it adopts and amends NFPA 22-2013 is adopted by reference.

Sec. 269. Subsection 94.2050.1 of Section 94.2050.0, Division 20, Article 4, Chapter IX of the LAMC is amended in its entirety to read as follows:

**94.2050.1.** Comply with the fire tank provisions in Chapters 4 and 9 of the 2019 California Building Code as it pertains to NFPA 22-2013.

Sec. 270. Subdivision 3 of Subsection 94.2050.2 of Section 94.2050.0, Division 20, Article 4, Chapter IX of the LAMC is amended to read as follows:

3. The capacity of the tank shall be based on the required standpipe demand capacity for the duration as specified in Table 19.3.2.1 of NFPA 13-2016 edition or the requirements in Section 403.3.3 of the 2016 California Building Code, whichever is greater.

Sec. 271. The first and second sentences of Section 94.2100.0, Division 21, Article 4, Chapter IX of the LAMC are amended to read as follows:

Appendices B, D, H, I, and J of the 2019 California Plumbing Code are adopted by reference. Appendix C of the 2019 California Plumbing Code is not adopted, and Appendix A of the 2019 California Plumbing Code is adopted by reference with the following amendment:

Sec. 272. Section 95.100 of Division 1, Article 5, Chapter IX of the LAMC is amended to read as follows:

Chapter 1 of the 2019 California Mechanical Code (CMC) is not adopted.

Sec. 273. Section 95.200.0 of Division 2, Article 5, Chapter IX of the LAMC is amended to read as follows:

Chapter 2 of the 2019 California Mechanical Code (CMC) is adopted by reference with the following exceptions: CMC Sections 203, 204, 205, 206, 207, 208, 215, 217, 219 and 221 are not adopted and, in lieu, LAMC Sections 95.203, 95.204, 95.205, 95.206, 95.207, 95.208, 95.215, 95.217, 95.219 and 95.221 are added as provided in this article.

Sec 274. Section 95.201.0 of Division 2, Article 5, Chapter IX of the LAMC is amended to read as follows:

Section 201.0 of the 2019 CMC is adopted by reference.

Sec. 275. Section 95.202.0 of Division 2, Article 5, Chapter IX of the LAMC is amended in its entirety to read as follows:

**SEC. 95.202.0. DEFINITIONS OF TERMS.**

Section 202.0 of the 2019 CMC is adopted by reference.

Sec. 276. The first sentence of Section 95.203.0. A, Division 2, Article 5, Chapter IX of the LAMC is amended to read as follows:

Section 203.0 of the 2019 CMC is adopted by reference, except that the CMC definition of the follow term is not adopted:

Sec. 277. The first sentence of Section 95.204.0. B, Division 2, Article 5, Chapter IX of the LAMC is amended to read as follows:

Section 204.0 of the 2019 CMC is adopted by reference, except that the CMC definition of the following term is not adopted:

Sec. 278. Section 95.205.0. C of Division 2, Article 5, Chapter IX of the LAMC is amended in its entirety to read as follows:

**SEC. 95.205.0. C.**

Section 205.0 of the 2019 CMC is adopted by reference and the following definitions are added:

**CERTIFICATE OF QUALIFICATION.** A Certificate of Qualification as a maintenance supervisor or air balancer as issued by the Department.

**CERTIFICATE OF REGISTRATION.** A Maintenance Certificate of Registration as issued by the Department.

**COMPRESSOR, COMFORT-COOLING.** A compressor, which is a portion of a comfort-cooling system or a comfort-cooling unit.

**CENTRAL COOLING PLANT OR COOLING PLANT.** Environmental cooling equipment installed in a manner to supply cold by means of ducts or pipes to areas other than the room or space in which the equipment is located.

Sec. 279. The first sentence of Section 95.206.0. D, Division 2, Article 5, Chapter IX of the LAMC is amended to read as follows:

Section 206.0 of the 2019 CMC is adopted by reference, except that the CMC definition of the following term is not adopted:

Sec. 280. The first sentence of Section 95.207.0. E, Division 2, Article 5, Chapter IX of the LAMC is amended to read as follows:



Section 207.0 of the 2019 CMC is adopted by reference, except that the CMC definition of the following term is not adopted:

Sec. 281. The first sentence of Section 95.208.0. F, Division 2, Article 5, Chapter IX of the LAMC is amended to read as follows:

Section 208.0 of the 2019 CMC is adopted by reference, except that the CMC definition of the following term is not adopted.

Sec. 282. The first sentence of Section 95.209.0. G, Division 2, Article 5, Chapter IX of the LAMC is amended to read as follows:

Section 209.0 of the 2019 CMC is adopted by reference.

Sec. 283. Section 95.210.0. H of Division 2, Article 5, Chapter IX of the LAMC is amended to read as follows:

Section 210.0 of the 2019 CMC is adopted by reference.

Sec. 284. Section 95.211.0. I of Division 2, Article 5, Chapter IX of the LAMC is amended to read as follows:

Section 211.0 of the 2019 CMC is adopted by reference.

Sec. 285. Section 95.212.0. J of Division 2, Article 5, Chapter IX of the LAMC is amended to read as follows:

Section 212.0 of the 2019 CMC is adopted by reference.

Sec. 286. Section 95.213.0. K of Division 2, Article 5, Chapter IX of the LAMC is amended to read as follows:

Section 213.0 of the 2019 CMC is adopted by reference.

Sec. 287. Section 95.214.0. L of Division 2, Article 5, Chapter IX of the LAMC is amended to read as follows:

Section 214.0 of the 2019 CMC is adopted by reference.

Sec. 288. The first sentence of Section 95.215.0. M, Division 2, Article 5, Chapter IX of the LAMC is amended to read as follows:

Section 215.0 of the 2019 CMC is adopted by reference.

Sec. 289. Section 95.216.0. N of Division 2, Article 5, Chapter IX of the LAMC is amended to read as follows:

Section 216.0 of the 2019 CMC is adopted by reference.

Sec. 290. The first sentence of Section 95.217.0. O, Division 2, Article 5, Chapter IX of the LAMC is to read as follows:

Section 217.0 of the 2019 CMC is adopted by reference, except that the CMC definition of the following term is not adopted:

Sec. 291. Section 95.218.0. P of Division 2, Article 5, Chapter IX of the LAMC is amended to read as follows:

Section 218.0 of the 2019 CMC is adopted by reference.

Sec. 292. The first sentence of Section 95.219.0. Q, Division 2, Article 5, Chapter IX of the LAMC is amended to read as follows:

Section 219.0 of the 2019 CMC is adopted by reference, except that the CMC definition of the following term is not adopted:

Sec. 293. Section 95.220.0. R of Division 2, Article 5, Chapter IX of the LAMC is amended to read as follows:

Section 220.0 of the 2019 CMC is adopted by reference.

Sec. 294. The first sentence of Section 95.221.0. S, Division 2, Article 5, Chapter IX of the LAMC is amended to read as follows:

Section 221.0 of the 2019 CMC is adopted by reference with the following additions:

Sec. 295. Section 95.222.0. T of Division 2, Article 5, Chapter IX of the LAMC is amended to read as follows:

Section 222.0 of the 2019 CMC is adopted by reference.

Sec. 296. Section 95.223.0. U of Division 2, Article 5, Chapter IX of the LAMC is amended to read as follows:

Section 223.0 of the 2019 CMC is adopted by reference.

Sec. 297. Section 95.224.0. V of Division 2, Article 5, Chapter IX of the LAMC is amended to read as follows:

Section 224.0 of the 2019 CMC is adopted by reference.

Sec. 298. Section 95.225.0. W of Division 2, Article 5, Chapter IX of the LAMC is amended to read as follows:

Section 225.0 of the 2019 CMC is adopted by reference.

Sec. 299. Section 95.226.0. X of Division 2, Article 5, Chapter IX of the LAMC is amended to read as follows:

Section 226.0 of the 2019 CMC is adopted by reference.

Sec. 300. Section 95.227.0. Y of Division 2, Article 5, Chapter IX of the LAMC is amended to read as follows:

Section 227.0 of the 2019 CMC is adopted by reference.

Sec. 301. Section 95.228.0. Z of Division 2, Article 5, Chapter IX of the LAMC is amended to read as follows:

Section 228.0 of the 2019 CMC is adopted by reference.

Sec. 302. The first sentence of Section 95.300, Division 3, Article 5, Chapter IX of the LAMC is amended to read as follows:

Chapter 3 of the 2019 CMC is hereby adopted by reference with the following amendment:

Sec. 303. Subsection 95.314.3 of Section 95.314, Division 3, Article 5, Chapter IX of the LAMC is deleted in its entirety.

Sec. 304. Section 95.400.0 of Division 4, Article 5, Chapter IX of the LAMC is amended to read as follows:

Chapter 4 of the 2019 CMC is hereby adopted by reference.

Sec. 305. Section 95.500.0 of Division 5, Article 5, Chapter IX of the LAMC is amended to read as follows:

Chapter 5 of the 2019 CMC is hereby adopted by reference.

Sec. 306. Section 95.600.0 of Division 6, Article 5, Chapter IX of the LAMC is amended to read as follows:

Chapter 6 of the 2019 CMC is hereby adopted by reference.

Sec. 307. Section 95.700.0 of Division 7, Article 5, Chapter IX of the LAMC is amended to read as follows:

Chapter 7 of the 2019 CMC is hereby adopted by reference.

Sec. 308. Section 95.800.0 of Division 8, Article 5, Chapter IX of the LAMC is amended to read as follows:

Chapter 8 of the 2019 CMC is hereby adopted by reference.

Sec. 309. Section 95.900.0 of Division 9, Article 5, Chapter IX of the LAMC is amended to read as follows:

Chapter 9 of the 2019 CMC is hereby adopted by reference.

Sec. 310. Section 95.1000.0 of Division 10, Article 5, Chapter IX of the LAMC is amended to read as follows:

Chapter 10 of the 2019 CMC is hereby adopted by reference.

Sec. 311. Section 95.1100.0 of Division 11, Article 5, Chapter IX of the LAMC is amended to read as follows:

Chapter 11 of the 2019 CMC is hereby adopted by reference.

Sec. 312. Section 95.1200.0 of Division 12, Article 5, Chapter IX of the LAMC is amended to read as follows:

Chapter 12 of the 2019 CMC is hereby adopted by reference.

Sec. 313. Section 95.1300.0 of Division 13, Article 5, Chapter IX of the LAMC is amended to read as follows:

Chapter 13 of the 2019 CMC is hereby adopted by reference.

Sec. 314. Section 95.1400.0 of Division 14, Article 5, Chapter IX of the LAMC is amended to read as follows:

Chapter 14 of the 2019 CMC is hereby adopted by reference.

Sec. 315. Section 95.1500.0 of Division 15, Article 5, Chapter IX of the LAMC is amended to read as follows:

Chapter 15 of the 2019 CMC is hereby not adopted by reference.

Sec. 316. Section 95.1600.0 of Division 16, Article 5, Chapter IX of the LAMC is amended to read as follows:

Chapter 16 of the 2019 CMC is hereby adopted by reference.

Sec. 317. Section 95.1700.0 of Division 17, Article 5, Chapter IX of the LAMC is amended to read as follows:

Chapter 17 of the 2019 CMC is hereby adopted by reference.

Sec. 318. Section 95.1800.0 of Division 18, Article 5, Chapter IX of the LAMC is amended to read as follows:

Appendices B and C of the 2019 CMC are adopted by reference. Appendices A, D, E, F, and G of the 2019 CMC are not adopted.

Sec. 319. Section 98.0602 of Division 6, Article 8, Chapter IX of the LAMC is amended in its entirety to read as follows:

**SEC. 98.0602. EXPIRATION OF PERMITS.**

(a) Every permit issued shall be valid for a period of two years from the date thereof, provided that any permit shall expire 180 days from date of issuance if the work authorized under any permit associated to the current scope of work has not been commenced; or shall expire whenever the Department determines the work authorized by any permit has been suspended, discontinued or abandoned for a continuous period of 180 days.

**EXCEPTION:**

1. If the holder of any permit issued by the Department presents satisfactory evidence that unusual construction difficulties have prevented work from being started or continued without being suspended with the 180-day time period or completed within the two-year period of validity, the department or the Board may grant extensions of time reasonably necessary because of such difficulties.

2. If the permit(s) is related to or for a residential occupancy issued by the Department, and if the work authorized under any permit associated to the current scope of work for said residential occupancy has not been commenced, the permit(s) shall expire within 12 months after issuance. If the holder of any permit concerning residential occupancy issued by the Department presents satisfactory evidence that unusual construction difficulties have prevented work from being started or continued without being suspended with the 12-month time period or completed within the two-year period of validity, the Department or the

Board may grant extensions of time reasonably necessary because of such difficulties.

Notwithstanding the provisions of this subsection, the validity of a permit may be further restricted in the following conditions:

1. In the case that a building or structure has been ordered repaired or demolished in accordance with LAMC Sections 91.8903, 91.8904 or 91.8905, such time limits as are specified therein shall apply.

2. The Department or the Board may, because of unusual circumstances or conditions such as, but not limited to, the demolition of an imminently hazardous building, or a grading operation which may be subject to flooding during the rainy season, impose restrictions upon the time limits for expiration of any permit.

3. The time limit for the validity of relocation permits shall be as specified in LAMC Section 91.8306.

4. The time limit for the validity of tent permits shall be as specified in LAMC Subsection 91.106.1.3.

5. The time limit for the validity of permits for the installation of metal bars, grills, grates, security roll-down shutters, and similar devices, and of quick-release systems shall be as specified in LAMC Subsection 91.107.4.5.

(b) Permits which have expired shall have the site, building or project restored to the condition which existed immediately prior to the commencement of work described by such permit.

(c) It shall be unlawful for any owner, either before or after the issuance of a permit under this section, and notwithstanding the issuance of such permit, to fail to comply with any order, determination or action of the Department or Board.

Sec. 320. Section 98.0605 of Division 6, Article 8, Chapter IX of the LAMC is amended in its entirety to read as follows:

**SEC. 98.0605. TIME LIMITS FOR REQUESTS FOR EXTENSION.**

Requests for extensions of time on the expiration times of permits, plan checks and slight modifications shall not be made later than 90 days after the expiration time specified in this division.

Sec. 321. Subsection 99.01.101.4 of Section 99.01.101, Division 1, Article 9, Chapter IX of the LAMC is deleted in its entirety.

Sec. 322. Subsection 99.01.101.5 of Section 99.01.101, Division 1, Article 9, Chapter IX of the LAMC is amended in its entirety to read as follows:

**99.01.101.5. Referenced Codes and Standards.** The codes and standards referenced elsewhere in this Code, as amended by the City of Los Angeles, shall be considered part of the requirements of this Code to the prescribed extent of each such reference.

Sec. 323. Subsections 99.01.101.5.1, 99.01.101.5.2, 99.01.101.5.3, 99.01.101.5.4, 99.01.101.5.5, and 99.01.101.5.6 of Section 99.01.101, Division 1, Article 9, Chapter IX of the LAMC are deleted in their entirety.

Sec. 324. Subsection 99.01.102.1 of Section 99.01.102, Division 1, Article 9, Chapter IX of the LAMC is deleted in its entirety.

Sec. 325. Subsection 99.01.102.3 of Section 99.01.102, Division 1, Article 9, Chapter IX of the LAMC is deleted in its entirety.

Sec. 326. Section 99.02.200 of Division 2, Article 9, Chapter IX of the LAMC is amended to read as follows:

Chapter 2 of the 2019 California Green Building Standards Code is adopted by reference except as provided in this article.

Sec. 327. The definition of Potable Water in Section 99.02.202, Division 2, Article 9, Chapter IX of the LAMC is deleted in its entirety.

Sec. 328. The definition of Hybrid Urinal in Section 99.02.202, Division 2, Article 9, Chapter IX of the LAMC is deleted in its entirety.

Sec. 329. Section 99.03.300 of Division 3, Article 9, Chapter IX of the LAMC is amended to read as follows:

Chapter 3 of the 2019 California Green Building Standards Code is adopted by reference except as amended herein.

Sec. 330. Section 99.04.100 of Division 4, Article 9, Chapter IX of the LAMC is amended to read as follows:

Chapter 4 of the 2019 California Green Building Standards Code is adopted by reference except as amended herein.

Sec. 331. Subsection 99.04.106.4.2.1 of Section 99.04.106, Division 4, Article 9, Chapter IX of the LAMC is deleted in its entirety.

Sec. 332. Subsection 99.04.106.4.2.2 of Section 99.04.106, Division 4, Article 9, Chapter IX of the LAMC is deleted in its entirety.

Sec. 333. Subsection 99.04.106.4.2.4 of Section 99.04.106, Division 4, Article 9, Chapter IX of the LAMC is deleted in its entirety.

Sec. 334. The first sentence of Subsection 99.04.106.7 of Section 99.04.106, Division 4, Article 9, Chapter IX of the LAMC is amended to read as follows:

Reduce nonroof heat islands for 50% of pathways patios, driveways or other paved areas by using one or more of the methods listed.

Sec. 335. The first sentence of Subdivision 1 of Subsection 99.04.106.7 of Section 99.04.106, Division 4, Article 9, Chapter IX of the LAMC is amended to read as follows:

Use trees or other plantings to provide shade and that mature within 15 years of planting.

Sec. 336. Subsection 99.04.303.1.2 of Section 99.04.303, Division 4, Article 9, Chapter IX of the LAMC is deleted in its entirety.

Sec. 337. Subsection 99.04.303.3 of Section 99.04.303, Division 4, Article 9, Chapter 9 of the LAMC is amended in its entirety to read as follows:

**99.04.303.3. Water Submeters [N].** Water sub-meters for multi-family dwellings shall comply with California Civil Code Section 1954.201 et seq. (2016 Cal. Stat. 623).

Sec. 338. Table 99.04.303.4.1 following Subsection 99.04.303.4.1 of Section 99.04.303, Division 4, Article 9, Chapter IX of the LAMC is amended to read as follows with footnotes and notes remaining unchanged:

**TABLE 99.04.303.4.1  
WATER USE BASELINE<sup>3</sup>**

FIXTURE TYPE	BASELINE FLOW RATE	DURATION	DAILY USES	OCCUPANTS <sup>2</sup>
Showerheads	1.8 gpm @ 80 psi	8 min.	1	X <sup>2a</sup>
Lavatory Faucets, Residential	1.2 gpm @ 60 psi	.25 min.	3	X
Lavatory Faucets, Common/Public Uses	0.5 gpm @ 60 psi	.25 min.	3	X
Kitchen Faucets	1.8 gpm @ 60 psi	4 min.	1	X <sup>2b</sup>
Metering Faucets	0.20 gallons/cycle		3	X



Water Closets	1.28 gallons/flush	1 flush	1 male <sup>1</sup> 3 female	X
Urinals	0.125 gallons/flush	1 flush	2 male	X

Sec. 339. Table 99.04.303.4.2 following Subsection 99.04.303.4.1 of Section 99.04.303, Division 4, Article 9, Chapter IX of the LAMC is amended in its entirety as follows:

**TABLE 99.04.303.4.2  
WATER REDUCTION FIXTURE FLOW RATES**

<b>FIXTURE TYPE</b>	<b>MAXIMUM ALLOWABLE FLOW RATE</b>
Kitchen Faucets*	1.5 gpm @ 60 psi
Clothes Washers	ENERGY-STAR certified
Dishwashers	ENERGY-STAR certified

Sec. 340. Subsection 99.04.304.1 of Section 99.04.304, Division 4, Article 9, Chapter IX of the LAMC is deleted in its entirety.

Sec. 341. Subsections 99.04.305.1 and 99.04.305.2 of Section 99.04.305, Division 4, Article 9, Chapter IX of the LAMC are amended in their entirety to read as follows:

**99.04.305.1. Recycled Water Supply to Fixtures.** When City-recycled water is available for use within 200 feet of the property line, 100 percent of water for water closets, urinals, floor drains, and process cooling and heating in that building shall come from City-recycled water. Recycled water systems shall be designed and installed in accordance with the Los Angeles Plumbing Code.

**EXCEPTIONS:**

1. Additions that use any part of the existing plumbing system.
2. Alterations that do not include replacing all of the potable water piping.
3. Where City-recycled water quality has been deemed non-suitable for a particular fixture or equipment, connection to the City is not required. The fixture and/or equipment shall be dual-plumbed to allow for future connection.

**99.04.305.2. Graywater Ready.** Waste piping shall be arranged to permit the discharge from the clothes washer, bathtub, showers and bathroom/restroom

washbasins to be used for a future graywater irrigation system(s). The flow from the fixtures shall be piped separately, and, at a minimum, be adequate to supply the irrigation demand as determined by the California Department of Water Resources' Model Water Efficiency Landscape Ordinance (MWELO). The point(s) of connection between graywater piping and other waste piping shall be accessible (as defined in LAMC Section 99.02.202) and provided with signage that is satisfactory to the Department.

**EXCEPTIONS:**

1. Buildings with a graywater, rainwater harvesting, or other water reuse system.
2. Sites with landscape areas not exceeding 500 square feet.
3. Projects where graywater systems are not permitted due to geological conditions.
4. Additions and alterations that use the existing building drain.

Sec. 342. Subsection 99.04.504.6 of Section 99.04.504, Division 4, Article 9, Chapter IX of the LAMC is amended in its entirety to read as follows:

**99.04.504.6. Filters.** Mechanically ventilated buildings shall meet the air filtration requirements of the 2019 California Energy Code.

Sec. 343. Subsections 99.04.505.1, 99.04.505.2 and 99.04.505.3 of Section 99.04.505, Division 5, Article 9, Chapter IX of the LAMC are deleted in their entirety

Sec. 344. Section 99.05.100 of Division 5, Article 9, Chapter IX of the LAMC is amended to read as follows:

Chapter 5 of the 2019 California Green Building Standards Code is adopted by reference except as provided in this article.

Sec 345. Subsection 99.05.106.5.3.1 of Section 99.05.106, Division 5, Article 9, Chapter IX of the LAMC is amended in its entirety to read as follows:

**99.05.106.5.3.1. Single EV Charging Space Requirements [N].** When only a single charging space is required per LAMC Table 99.05.106.5.3.3, a raceway is required to be installed at the time of construction and shall be installed in accordance with the Los Angeles Electrical Code.

Sec. 346. Subsection 99.05.106.5.3.2 of Section 99.05.106, Division 5, Article 9, Chapter IX of the LAMC is amended in its entirety to read as follows:

**99.05.106.5.3.2. Multiple EV Charging Space Requirements [N].** When multiple charging spaces are required per LAMC Table 99.05.106.5.3.3, raceway(s) is/are required to be installed at the time of construction and shall be installed in accordance with the Los Angeles Electrical Code.

Sec. 347. Table 5.106.8 [N] of Section 99.05.106, Division 5, Article 9, Chapter IX of the LAMC is deleted in its entirety.

Sec. 348. Subsection 99.05.106.11 of Section 99.05.106, Division 5, Article 9, Chapter IX of the LAMC is amended in its entirety to read as follows:

**99.05.106.11. Hardscape Alternatives [N].** Use one or a combination of strategies below for 50% of site hardscape.

1. Provide shade (mature within 15 years of occupancy);
2. Use light colored materials with an initial solar reflectance value of at least .30 as determined in accordance with American Society for Testing and Materials (ASTM) Standards E 1918 or C 1549;
3. Use open-grid pavement system or pervious or permeable pavement system; or
4. Use solar panel arrays to create a canopy shade system.

Sec. 349. The title of Subsection 99.05.303.2 of Section 99.05.303, Division 5, Article 9, Chapter IX of the LAMC is amended to read as follows:

**99.05.303.2. Water Use Reduction.**

Sec. 350. Exception 1 of Subsection 99.05.303.2 of Section 99.05.303, Division 5, Article 9, Chapter IX of the LAMC is amended to read as follows:

1. Projects with plumbing systems having fixtures and fittings that comply with the maximum flow rate values shown in LAMC Table 99.05.303.2.3.

Sec. 351. The first entry under Baseline Flow Rate in Table 99.05.303.2.2 following Subsection 99.05.303.2 of Section 99.05.303, Division 5, Article 9, Chapter IX of the LAMC is amended to read as follows:

1.8 gpm @ 80 psi

Sec. 352. Table 99.05.303.2.3 following Subsection 99.05.303.2 of Section 99.05.303, Division 5, Article 9, Chapter IX of the LAMC is amended in its entirety as follows:

**TABLE 99.05.303.2.3  
WATER REDUCTION FIXTURE FLOW RATES**

<b>FIXTURE TYPE</b>	<b>MAXIMUM ALLOWABLE FLOW RATE</b>
Lavatory Faucets, Non-Residential*	0.4 gpm @ 60 psi 0.20 gallons/cycle
Kitchen Faucets**	1.50 gpm @ 60 psi
Dishwashers	ENERGY-STAR certified
Clothes Washers	ENERGY-STAR certified

*\*Not required if using nonwater or hybrid urinals throughout the project.*

*\*\*Kitchen faucets may temporarily increase the flow to 2.2 gpm at 60 psi, and must default to 1.5 gpm at 60 psi. This requirement does not apply to a faucet in commercial kitchens.*

Sec. 353. Subsection 99.05.303.3.2 of Section 99.05.303, Division 5, Article 9, Chapter IX of the LAMC is deleted in its entirety.

Sec. 354. Subsections 99.05.305.1 and 99.05.305.2 of Section 99.05.305, Division 5, Article 9, Chapter IX of the LAMC are amended in their entirety to read as follows:

**99.05.305.1. Recycled Water Supply to Fixtures.** When City-recycled water is available within 200 feet of the property line, 100 percent of water for water closets, urinals, floor drains, and process cooling and heating in that building shall come from City-recycled water. Recycled water systems shall be designed and installed in accordance with the Los Angeles Plumbing Code.

**EXCEPTIONS:**

1. Additions that use any part of the existing plumbing system.
2. Alterations that do not include replacing all of the potable water piping.
3. Where City-recycled water quality has been deemed non-suitable for a particular fixture or equipment, connection to the City is not required. The fixture and/or equipment shall be dual-plumbed to allow for future connection.

**99.05.305.2. Graywater Ready.** Waste piping shall be arranged to permit the discharge from the clothes washer, bathtub, showers and bathroom/restroom washbasins to be used for a future graywater irrigation system(s). The flow from the fixtures shall be piped separately, and shall, at a minimum, be adequate to supply the irrigation demand as determined by the California Department of Water Resources' Model Water Efficiency Landscape Ordinance (MWELO). The point(s) of connection between graywater piping and other waste piping shall be accessible (as defined in LAMC Section 99.02.202) and provided with signage that is satisfactory to the Department.

**EXCEPTIONS:**

1. Buildings with a graywater, rainwater harvesting, or other water reuse system.
2. Sites with landscape areas not exceeding 500 square feet (46.45 m<sup>2</sup>).
3. Projects where graywater systems are not permitted due to geological conditions.
4. Additions and alterations that use the existing building drain.

Sec. 355. Subsection 99.05.408.3 of Section 99.05.408, Division 5, Article 9, Chapter IX of the LAMC is deleted in its entirety.

Sec. 356. Subsection 99.05.504.5.3 of Section 99.05.504, Division 5, Article 9, Chapter IX of the LAMC is deleted in its entirety.

Sec. 357. Subsection 99.06.601.1 of Division 6, Article 9, Chapter IX of the LAMC is amended to read as follows:

Chapter 6 of the 2019 California Green Building Standards Code is adopted in its entirety.

Sec. 358. Section 99.07.100 of Division 7, Article 9, Chapter IX of the LAMC is amended in its entirety to read as follows:

Chapter 7 of the 2019 California Green Building Standards Code is adopted in its entirety.

Sec. 359. The first paragraph of Section 99.08.100, Division 8, Article 9, Chapter IX of the LAMC is amended to read as follows:

Chapter 8 of the 2019 California Green Building Code is not adopted, and, in lieu, Division 8, Article 9, Chapter IX of the LAMC is added as provided in this article.

Sec. 360. Worksheet (WS-1) of Division 8, Article 9, Chapter IX of the LAMC is amended in its entirety as follows:

**WORKSHEET (WS-1)  
BASELINE WATER USE**

BASELINE WATER USE CALCULATION TABLE							
FIXTURE TYPE	FLOW RATE		DURATION		DAILY USES	OCCUPANTS	GALLONS PER DAY
Showerheads, residential	1.8 gpm @ 80 psi	x	8 min.	x	1	x Note 1a	=
Showerheads, nonresidential	1.8 gpm @ 80 psi	x	5 min.	x	1	x	=
Lavatory faucets, residential	1.2 gpm @ 60 psi	x	0.25 min.	x	3	x	=
Lavatory faucets nonresidential/public uses	0.5 gpm @ 60 psi	x	0.25 min	x	3	x	=
Kitchen faucets	1.8 gpm @ 60 psi	x	4 min.	x	1	x Note 1b	=
Wash fountains	1.8 gpm/20 [rim space (in) @ 60 psi]	x		x		x	=
Metering faucets	0.25 gallons/cycle	x	0.25 min.	x	3	x	=
Metering faucets for wash fountains	0.20 gal/cycle/20 [rim space (in.) @ 60 psi]	x	0.25 min.	x		x	=
Water Closets	1.28 gallons/flush	x	1 flush	x	1 male <sup>2</sup> 3 females	x	=
Urinals	0.125 gallons/flush	x	1 flush	x	2 males	x	=
Total daily baseline water use (BWU)						=	

1. Refer to Table A, Chapter 4 of the California Plumbing Code, for occupant load factors.
  - a. Shower use by occupants depends on the type of use of a building or portion of a building, e.g. total occupant load for a health club, but only a fraction of the occupants in an office building as determined by the anticipated number of users.
  - b. Kitchen faucet use is determined by occupant load of the area served by the fixture.
2. The daily use number shall be increased to three if urinals are not installed in the room.

Sec. 361. Section 99.11.101, Division 11, Article 9, Chapter IX of the LAMC is amended in its entirety to read as follows:

## **SEC. 99.11.101. SCOPE.**

Appendix A4 of the 2019 California Green Building Standards Code (CALGreen) is adopted by reference with the following exceptions: CALGreen Sections A4.105.2, A4.106.7, A4.106.8.2, , A4.106.8.3, Table A4.106.8.3.1, Table A4.106.8.3.2, A4.305.2, A4.403.1, A4.404.1, A4.405.2, A4.405.4, A4.407.1, A4.407.3, A4.407.4, A4.407.5, A4.407.7, A4.602 and Table A4.106.5.1(1) are not adopted; and in lieu, LAMC Section 99.11.102 and Subsections A4.105.2, A4.106.7, A4.106.8.2, A4.106.8.3, A4.305.2, A4.405.2, A4.405.4, A4.407.1, A4.407.7, A4.602 and Tables A4.106.5.1(1), A4.106.5.1(2), A4.106.5.1(3) and A4.106.5.1(4) are added or amended as follows:

Sec. 362. Subsection A4.106.8.2 of Section 99.11.102, Division 11, Chapter 9, Article IX of the LAMC is amended in its entirety to read as follows:

### **A4.106.8.2. New multifamily dwellings.**

**Tier 1.** Thirty (30) percent of the total number of parking spaces on a building site, provided for all types of parking facilities, but in no case less than one, shall be electric vehicle charging spaces (EV spaces) capable of supporting future EVSE. Calculations for the required number of EV spaces shall be rounded up to the nearest whole number.

**Tier 2.** Forty (40) percent of the total number of spaces on a building site, provided for all types of parking facilities, but in no case less than one, shall be electric vehicle charging spaces (EV spaces) capable of supporting future EVSE. Calculations for the required number of EV spaces shall be rounded up to the nearest whole number.

See LAMC Subsection 99.04.106.4.2 for additional requirements related to EVCS for multifamily dwellings and "R" occupancies other than one- and two-family dwellings.

Sec. 363. A new Subsection A4.106.8.3 is added to Section 99.11.102, Division 11, Article 9, Chapter IX of the LAMC to read as follows:

### **A4.106.8.3. New hotels and motels.**

**Tier 1. Number of required EV spaces.** The number of required EV spaces shall be thirty (30) percent of the total number of parking spaces provided for all types of parking facilities. Calculations for the required number of EV spaces shall be rounded up to the nearest whole number.

**Tier 2. Number of required EV spaces.** The number of required EV spaces shall be forty (40) percent of the total number of parking spaces provided for all types of parking facilities. Calculations for the required number of EV spaces shall be rounded up to the nearest whole number.

Sec. 364. Subsection A4.303.2 of Section 99.11.102, Division 11, Article 9, Chapter IX of the LAMC is deleted in its entirety.

Sec. 365. Subsection A4.303.4 of Section 99.11.102, Division 11, Article 9, Chapter IX of the LAMC is deleted in its entirety.

Sec. 366. Subsection A4.304.1 of Section 99.11.102, Division 11, Article 9, Chapter IX of the LAMC is deleted in its entirety.

Sec. 367. Subsection A4.305.1 of Section 99.11.102, Division 11, Article 9, Chapter IX of the LAMC is deleted in its entirety.

Sec. 368. Subsection A4.404.3 of Section 99.11.102, Division 11, Article 9, Chapter IX of the LAMC is deleted in its entirety.

Sec. 369. Table A4.602 following Section 99.11.602, Division 11, Article 9, Chapter IX of the LAMC is amended in its entirety to read as follows:

**[Intentionally Blank]**



# DIVISION A4.6 - TIER 1 AND TIER 2 - continued

**TABLE A4.602  
RESIDENTIAL OCCUPANCIES APPLICATION CHECKLIST**

FEATURE OR MEASURE	LEVELS			VERIFICATIONS		
	APPLICANT TO SELECT ELECTIVE MEASURES			ENFORCING AGENCY TO SPECIFY VERIFICATION METHOD		
	Mandatory	Prerequisites and electives <sup>1</sup>		Enforcing Agency	Installer or Designer	Third party
Tier 1		Tier 2	<input type="checkbox"/> All	<input type="checkbox"/> All	<input type="checkbox"/> All	
<b>PLANNING AND DESIGN</b>						
<b>Site Selection</b>						
A4.103.1 A site which complies with at least one of the following characteristics is selected: 1. An infill site is selected. 2. A greyfield site is selected. 3. An EPA-recognized Brownfield site is selected.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.103.2 Facilitate community connectivity by one of the following methods: 1. Locate project within a ¼ mile true walking distance of at least 4 basic services; 2. Locate project within ½ mile true walking distance of at least 7 basic services; 3. Other methods increasing access to additional resources.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Site Preservation</b>						
A4.104.1 An individual with oversight responsibility for the project has participated in an educational program promoting environmentally friendly design or development and has provided training or instruction to appropriate entities.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Deconstruction and Reuse of Existing Materials</b>						
A4.105.2 Existing buildings are disassembled for reuse or recycling of building materials. The proposed structure utilizes at least one of the following materials which can be easily reused: 1. Light fixtures 2. Plumbing fixtures 3. Doors and trim 4. Masonry (reused for flatwork) 5. Electrical devices 6. Appliances 7. Foundations or portions of foundations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Site Development</b>						
4.106.2 A plan is developed and implemented to manage storm water drainage during construction.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.106.3 Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.106.4 Provide capability for electric vehicle charging in one- and two-family dwellings and in townhouses with attached private garages; and 5% of total parking spaces, as specified, for "R" occupancies other than one- and two-family dwellings. For multi-family dwellings with 17 units or more, at least one EV charging station shall be installed; and hotels/motels in accordance with Section 4.106.4.1, 4.106.4.2, or 4.106.3, as applicable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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**TABLE A4.602  
RESIDENTIAL OCCUPANCIES APPLICATION CHECKLIST -continued**

FEATURE OR MEASURE	LEVELS			VERIFICATIONS		
	APPLICANT TO SELECT ELECTIVE MEASURES			ENFORCING AGENCY TO SPECIFY VERIFICATION METHOD		
	Mandatory	Prerequisites and electives <sup>1</sup>		Enforcing Agency <input type="checkbox"/> All	Installer or Designer <input type="checkbox"/> All	Third party <input type="checkbox"/> All
Tier 1		Tier 2				
4.106.5 Roofing materials shall have a minimum 3-year aged solar reflectance and thermal emittance or a minimum 3-year aged Solar Reflectance Index (SRI) equal to or greater than the values specified in LAMC Table 4.106.5.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.106.7 Reduce nonroof heat islands for 25% of sidewalks, patios, driveways or other paved areas by using one or more of the methods listed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.106.1 Reserved		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.106.2.1 Soil analysis is performed by a licensed design professional and the findings utilized in the structural design of the building.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.106.2.2 Soil disturbance and erosion are minimized by at least one of the following: 1. Natural drainage patterns are evaluated and erosion controls are implemented to minimize erosion during construction and after occupancy. 2. Site access is accomplished by minimizing the amount of cut and fill needed to install access roads and driveways. 3. Underground construction activities are coordinated to utilize the same trench, minimize the amount of time the disturbed soil is exposed and the soil is replaced using accepted compaction methods.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.106.2.3 Topsoil shall be protected or saved for reuse as specified in this section. Tier 1. Displaced topsoil shall be stockpiled for reuse in a designated area and covered or protected from erosion. Tier 2. The construction area shall be identified and delineated by fencing or flagging to limit construction activity to the construction area.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.106.3 Postconstruction landscape designs accomplish one or more of the following: 1. Areas disrupted during construction are restored to be consistent with native vegetation species and patterns. 2. Utilize at least 75% native California or drought tolerant plant and tree species appropriate for the climate zone region.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.106.4 Permeable paving is utilized for the parking, walking or patio surfaces in compliance with the following: Tier 1. Not less than 20% of the total parking, walking or patio surfaces shall be permeable. Tier 2. Not less than 30% of the total parking, walking or patio surfaces shall be permeable.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.106.5 Roofing materials shall have a minimum 3-year aged solar reflectance and thermal emittance or a minimum Solar Reflectance Index (SRI) equal to or greater than the values specified in LAMC Tables A4.106.5.1(1) and A4.106.5.1(2) for low-rise residential buildings and LAMC Tables A4.106.5.1(3) and A4.106.5.1(4) for high-rise residential buildings.  Low-rise Residential Tier 1 roof covering shall meet or exceed the values contained in LAMC Table A4.106.5.1(1). Tier 2 roof covering shall meet or exceed the values contained in LAMC Table A4.106.5.1(2).  High-rise Residential, Hotels and Motels Tier 1 roof covering shall meet or exceed the values contained in LAMC Table A4.106.5.1(3). Tier 2 roof covering shall meet or exceed the values contained in LAMC Table A4.106.5.1(4).		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(continued)

**TABLE A4.602  
RESIDENTIAL OCCUPANCIES APPLICATION CHECKLIST -continued**

FEATURE OR MEASURE	LEVELS APPLICANT TO SELECT ELECTIVE MEASURES			VERIFICATIONS ENFORCING AGENCY TO SPECIFY VERIFICATION METHOD		
	Mandatory	Prerequisites and electives		Enforcing Agency  <input type="checkbox"/> All	Installer or Designer  <input type="checkbox"/> All	Third party  <input type="checkbox"/> All
		Tier 1	Tier 2			
A4.106.6 Install a vegetated roof for at least 50% of the roof area. Vegetated roofs shall comply with requirements for roof gardens and landscaped roofs in the <i>California Building Code</i> , Chapters 15 and 16.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.106.7 Reduce nonroof heat islands for 50% of sidewalks, patios, driveways or other paved areas by using one or more of the methods listed.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.106.8.1 Tier 1 and Tier 2 for one- and two-family dwellings and townhouses with attached private garages. Install a dedicated 208/240-volt branch circuit, including an overcurrent protective device rated at 40 amperes minimum per dwelling unit.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.106.8.2 Provide capability for future electric vehicle charging in new multifamily dwellings, as specified. Tier 1. Install 15 percent of total parking spaces. Tier 2. Install 20 percent of total parking spaces.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.106.8.3 Provide electric vehicle spaces for new hotels and motels. Tier 1. Install EV spaces per Table A4.106.8.3.1. Tier 2. Install EV spaces per Table A4.106.8.3.2.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.106.9 Provide bicycle parking facilities as noted below or meet a local ordinance, whichever is more stringent. Number of bicycle parking spaces may be reduced, as approved by the enforcing agency, due to building site characteristics, including but not limited to, isolation from other development.  1. Provide short-term bicycle parking, per Section A4.106.9.1. 2. Provide long-term bicycle parking for multifamily buildings, per Section A4.106.9.2. 3. Provide long-term bicycle parking for hotel and motel buildings, per Section A4.106.9.3.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.106.10 [HR] Outdoor lighting systems shall be designed and installed to comply with:  1. The minimum requirements in the <i>California Energy Code</i> for Lighting Zones 1-4; and 2. Backlight, Uplight and Glare (BUG) ratings as defined in IES TM-15-11; and 3. Allowable BUG ratings not exceeding those shown in Table A4.106.10; or  Comply with a lawfully enacted local ordinance, whichever is more stringent.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(continued)

**TABLE A4.602  
RESIDENTIAL OCCUPANCIES APPLICATION CHECKLIST -continued**

FEATURE OR MEASURE	LEVELS APPLICANT TO SELECT ELECTIVE MEASURES			VERIFICATIONS ENFORCING AGENCY TO SPECIFY VERIFICATION METHOD		
	Mandatory	Prerequisites and electives <sup>1</sup>		Enforcing Agency  <input type="checkbox"/> All	Installer or Designer  <input type="checkbox"/> All	Third party  <input type="checkbox"/> All
		Tier 1	Tier 2			
<b>Innovative Concepts and Local Environmental Conditions</b>						
A4.105.1 Items in this section are necessary to address innovative concepts or local environmental conditions.						
Item 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ENERGY EFFICIENCY</b>						
<b>General</b>						
4.201.1 Building meets or exceeds the requirements of the <i>California Building Energy Efficiency Standards</i> <sup>3</sup>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Performance Approach for Newly Constructed Buildings</b>						
A4.203.1.1.1 Tier 1 and Tier 2. Total Energy Design Rating (Total EDR) and Energy Efficiency Design Rating (Efficiency EDR) for the Proposed Design Building is included in the Certificate of Compliance documentation.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.203.1.1.2 Quality Insulation Installation procedures specified in the Building Energy Efficiency Standards Reference Appendices RA3.5 are completed.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.203.1.2 Tier 1 and Tier 2 prerequisite options. One of the following options is required. <ul style="list-style-type: none"> <li>• Root deck insulation or ducts in conditions space.</li> <li>• High-performance walls.</li> <li>• HERS-verified compact hot water distribution system.</li> <li>• HERS-verified drain water heat recovery.</li> </ul>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.203.1.3. Tier 1: Buildings complying with the first level of advanced energy efficiency shall have additional integrated efficiency and onsite renewable energy generation to achieve a Total EDR for Tier 1 as specified in Table A4.203.1.1.1 or lower as calculated by Title 24, Part 6 Compliance Software approved by the Energy Commission. This Total EDR is in addition to meeting the Efficiency EDR.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.203.1.3.2 Tier 2: Buildings complying with the first level of advanced energy efficiency shall have additional integrated efficiency and onsite renewable energy generation to achieve a Total EDR for Tier 2 as specified in Table A4.203.1.1.1 or lower as calculated by Title 24, Part 6 Compliance Software approved by the Energy Commission. This Total EDR is in addition to meeting the Efficiency EDR.				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.203.1.4 Local jurisdictions adopting Tier 1 or Tier 2, or considering community shared solar or storage options as specified, shall consult with the local electric service for acceptance.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(continued)

**TABLE A4.602  
RESIDENTIAL OCCUPANCIES APPLICATION CHECKLIST -continued**

FEATURE OR MEASURE	LEVELS APPLICANT TO SELECT ELECTIVE MEASURES			VERIFICATIONS ENFORCING AGENCY TO SPECIFY VERIFICATION METHOD		
	Mandatory	Prerequisites and electives <sup>1</sup>		Enforcing Agency  <input type="checkbox"/> All	Installer or Designer  <input type="checkbox"/> All	Third party  <input type="checkbox"/> A/J
		Tier 1	Tier 2			
<b>Renewable Energy</b>						
4.211.4 Buildings shall comply with the following: 1. All one- and two-family dwellings, shall comply with Section 110.10(b)1A, 110.10(b)2, 110.10(b)3, 110.10(b)4, 110.10(c), 110.10(d) and 110.10(e) of the California Energy Code (Title 24, Part 6). 2. All buildings, other than one- and two-family dwellings, shall comply with Section 110.10(b) through 110.10(d) of the California Energy Code (Title 24, Part 6).	<input checked="" type="checkbox"/>					
<b>WATER EFFICIENCY AND CONSERVATION</b>						
<b>Indoor Water Use</b>						
4.303.1 Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) installed in residential buildings shall comply with the prescriptive requirements of Sections 4.303.1.1 through 4.303.1.4.4.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.303.2 Plumbing fixtures and fittings required in Section 4.303.1 shall be installed in accordance with the California Plumbing Code, and shall meet the applicable referenced standards.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.303.3 Multi-family dwellings not exceeding three stories and containing 50 units or less shall install a separate meter or sub-meter within each individual dwelling unit and within common areas, such as recreation and laundry rooms.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.303.4 A 20% reduction in the overall use of potable water within the building shall be provided, as specified.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.303.1 Kitchen faucets. The maximum flow rate of kitchen faucets shall not exceed 1.5 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 80 psi, and must default to a maximum flow rate of 1.5 gallons per minute at 60 psi.  Note: Where complying faucets are available, aerators or other means may be used to achieve reduction.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.303.1.4.3 Metering faucets in residential buildings shall not deliver more than 0.2 gallons per cycle.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.303.2 Alternate water source for nonpotable applications. Alternate nonpotable water sources are used for indoor potable water reduction. Alternate nonpotable water sources shall be installed in accordance with the California Plumbing Code.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.303.3 install at least one qualified ENERGY STAR dishwasher or clothes washer.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.303.4 Nonwater urinals or waterless toilets are installed.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.303.5 Hot water recirculation systems. One- and two-family dwellings shall be equipped with a demand hot water recirculation system, as defined in Chapter 2 of this Code. The demand hot water recirculation system shall be installed in accordance with the California Plumbing Code, California Energy Code, and the manufacturer's installation instructions.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Outdoor Water Use</b>						
4.304.1 After December 1, 2015, new residential developments with an aggregate landscape area equal to or greater than 500 square feet shall comply with one of the following options: 1. A local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent; or 2. Projects with aggregate landscape areas less than 2,500 square feet may comply with the MWELO's Appendix D Prescriptive Compliance Option.	<input checked="" type="checkbox"/>					

(continued)

**TABLE A4.602  
RESIDENTAL OCCUPANCIES APPLICATION CHECKLIST -continued**

FEATURE OR MEASURE	LEVELS			VERIFICATIONS ENFORCING AGENCY TO SPECIFY VERIFICATION METHOD		
	APPLICANT TO SELECT ELECTIVE MEASURES			Enforcing Agency	Installer or Designer	Third party
	Mandatory	Prerequisites and electives <sup>1</sup>				
	Tier 1	Tier 2	<input type="checkbox"/> All	<input type="checkbox"/> All	<input type="checkbox"/> All	
4.304.3 A landscape water meter provided by the City of Los Angeles Department of Water and Power shall be installed for landscape irrigation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.304.4 Locks shall be installed on all publicly accessible exterior faucets and hose bibs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.304.5 For one- and two-family dwellings, any permanently installed outdoor in-ground swimming pool or spa shall be equipped with a cover having a manual or power-operated reel system.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
A4.304.1 Rainwater catchment systems. An approved rainwater catchment system is designed and installed to use rainwater generated by at least 65% of the available roof area. Rainwater catchment systems shall be designed and installed in accordance with the <i>Los Angeles Plumbing Code</i> .		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.304.2 Potable water elimination. When landscaping is provided and as allowed by local ordinance, a water efficient landscape irrigation design that eliminates the use of potable water beyond the initial requirements for plant installation and establishment should be provided. Methods used to accomplish the requirements of this section must be designed to the requirements of the <i>California Building Standards Code</i> and shall include, but not be limited to, the following:  1. Use of captured rainwater. 2. Use of recycled water. 3. Water treated for irrigation purposes and conveyed by a water district or public entity. 4. Use of graywater.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.304.3 For new water service connections, landscaped irrigated areas less than 5,000 square feet shall be provided with separate submeters or metering devices for outdoor potable water use.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*(continued)*

**TABLE A4.602  
RESIDENTIAL OCCUPANCIES APPLICATION CHECKLIST -continued**

FEATURE OR MEASURE	LEVELS			VERIFICATIONS ENFORCING AGENCY TO SPECIFY VERIFICATION METHOD		
	APPLICANT TO SELECT ELECTIVE MEASURES			Enforcing Agency	Installer or Designer	Third party
	Mandatory	Prerequisites and electives <sup>1</sup>				
		Tier 1	Tier 2	All	All	All
<b>WATER REUSE SYSTEMS</b>						
4.305.1 Waste piping shall be arranged to permit the discharge from the clothes washer, bathtub, showers, and bathroom/restroom wash basins to be used for a future graywater irrigation system.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.305.2 When City-recycled water is available for use within 200 feet of the property line, 100% of water for water closets, urinals, floor drains, and process cooling and heating in that building shall come from City-recycled water.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.305.3 Cooling towers shall comply with LAMC Section 99.04.305.3.1 or 99.04.305.3.2.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.305.4 Where groundwater is being extracted and discharged, a system for onsite reuse of the groundwater shall be developed and constructed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.305.1 Graywater. Alternative plumbing piping installed to permit the discharge from the clothes washer or other fixtures and used for irrigation in compliance with the Los Angeles Plumbing Code.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.305.2 Recycled water piping is installed.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.305.3 Recycled water is used for landscape irrigation.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Innovative Concepts and Local Environmental Conditions</b>						
A4.308.1 Items in this section are necessary to address innovative concepts or local environmental conditions.						
Item 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>MATERIAL CONSERVATION AND RESOURCE EFFICIENCY</b>						
<b>Foundation Systems</b>						
A4.403.1 A Frost-protected Shallow Foundation (FPSF) is designed and constructed.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.403.2 Cement use in foundation mix design is reduced.				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tier 1. Not less than a 20% reduction in cement use.		<input checked="" type="checkbox"/>				
Tier 2. Not less than a 25% reduction in cement use.			<input checked="" type="checkbox"/>			
<b>Efficient Framing Techniques</b>						
A4.404.1 Beams and headers and trimmers are the minimum size to adequately support the load.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.404.2 Building dimensions and layouts are designed to minimize waste.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.404.3 Use premanufactured building systems to eliminate solid sawn lumber whenever possible.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.404.4 Material lists are included in the plans which specify material quantity and provide direction for on-site cuts.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(continued)

**TABLE A4.602  
RESIDENTIAL OCCUPANCIES APPLICATION CHECKLIST -continued**

FEATURE OR MEASURE	LEVELS APPLICANT TO SELECT ELECTIVE MEASURES			VERIFICATIONS ENFORCING AGENCY TO SPECIFY VERIFICATION METHOD		
	Mandatory	Prerequisites and electives <sup>1</sup>		Enforcing Agency  <input type="checkbox"/> All	Installer or Designer  <input type="checkbox"/> All	Third party  <input type="checkbox"/> All
		Tier 1	Tier 2			
<b>Material Sources</b>						
A4.405.1 One or more of the following building materials, that do not require additional resources for finishing are used: 1. Exterior trim not requiring paint or stain 2. Windows not requiring paint or stain 3. Siding or exterior wall coverings which do not require paint or stain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.405.2 75% of all slab-on-grade and structural concrete floors that do not require additional coverings are used including but not limited to stained, natural or stamped concrete floors.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.405.3 Postconsumer or preconsumer recycled content value (RCV) materials are used on the project. Tier 1. Not less than a 10% recycled content value. Tier 2. Not less than a 15% recycled content value.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.405.4 Renewable source building products are used.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Enhanced Durability and Reduced Maintenance</b>						
4.406.1 Annular spaces around pipes, electric cables, conduits or other openings in plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or similar method acceptable to the enforcing agency.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Water Resistance and Moisture Management</b>						
4.407.3 Provide flashing details on the building plans and comply with accepted industry standards or manufacturer's instructions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.407.4 Protect building materials delivered to the construction site from rain and other sources of moisture.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.407.1 Install foundation and landscape drains.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.407.2 Install gutter and downspout systems to route water at least 5 feet away from the foundation or connect to landscape drains which discharge to a dry well, sump, bioswale, rainwater capture system or other approved on-site location.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.407.5 In Climate Zone 18 an ice/water barrier is installed at roof valleys, eaves and wall to roof intersections.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.407.6 Exterior doors to the dwelling are protected to prevent water intrusion.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.407.7 When permitted by the Los Angeles Municipal Code, a permanent overhang or non-retractable awning at least 2 feet in depth is provided.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(continued)



**TABLE A4.602  
RESIDENTAL OCCUPANCIES APPLICATION CHECKLIST -continued**

FEATURE OR MEASURE	LEVELS APPLICANT TO SELECT ELECTIVE MEASURES			VERIFICATIONS ENFORCING AGENCY TO SPECIFY VERIFICATION METHOD		
	Mandatory	Prerequisites and electives <sup>1</sup>		Enforcing Agency  <input type="checkbox"/> All	Installer or Designer  <input type="checkbox"/> All	Third party  <input type="checkbox"/> All
		Tier 1	Tier 2			
<b>Construction Waste Reduction, Disposal and Recycling</b>						
4.408.1 Comply with Section 66.32 et seq. of the Los Angeles Municipal Code	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.408.1 Construction waste generated at the site is diverted to recycle or salvage in compliance with one of the following: 1. Tier 1 at least a 55% reduction with a third-party verification. 2. Tier 2 at least a 75% reduction with a third-party verification. Exception: Equivalent waste reduction methods are developed by working with local agencies.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Building Maintenance and Operation</b>						
4.410.1 An operation and maintenance manual shall be provided to the building occupant or owner.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.410.2 Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible areas that serve all buildings on the site and is identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive. See exception for rural jurisdictions.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Innovative Concepts and Local Environmental Conditions</b>						
A4.411.1 Items in this section are necessary to address innovative concepts or local environmental conditions.						
Item 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ENVIRONMENTAL QUALITY</b>						
<b>Fireplaces</b>						
4.503.1 Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Pollutant Control</b>						
4.504.1 Duct openings and other related air distribution component openings shall be covered during construction.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.504.2.1 Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.504.2.2 Paints, stains and other coatings shall be compliant with VOC limits.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.504.2.3 Aerosol paints and coatings shall be compliant with product weighted MIR limits for VOC and other toxic compounds.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.504.2.4 Documentation shall be provided to verify that compliant VOC limit finish materials have been used.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(continued)

**TABLE A4.602  
RESIDENTIAL OCCUPANCIES APPLICATION CHECKLIST -continued**

FEATURE OR MEASURE	LEVELS			VERIFICATIONS ENFORCING AGENCY TO SPECIFY VERIFICATION METHOD		
	APPLICANT TO SELECT ELECTIVE MEASURES			Enforcing Agency	Installer or Designer	Third party
	Mandatory	Prerequisites and electives <sup>1</sup>				
		Tier 1	Tier 2	<input type="checkbox"/> All	<input type="checkbox"/> All	<input type="checkbox"/> All
4.504.3 Carpet and carpet systems shall be compliant with VOC limits.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.504.4 80% of floor area receiving resilient flooring shall comply with specified VOC criteria.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.504.5 Particleboard, medium density fiberboard (MDF) and hardwood plywood used in interior finish systems shall comply with low formaldehyde emission standards.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.504.1 Use composite wood products made with either California Air Resources Board approved no-added formaldehyde (NAF) resins or ultra-low emitting formaldehyde (ULEF) resins.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.504.2 Install VOC compliant resilient flooring systems. Tier 1. At least 80% of the resilient flooring installed shall comply. Tier 2. At least 100% of the resilient flooring installed shall comply.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.504.3 Thermal insulation installed in the building shall meet the following requirements: Tier 1. Install thermal insulation in compliance with VOC limits. Tier 2. Install insulation which contains No-Added Formaldehyde (NAF) and is in compliance with Tier 1.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Interior Moisture Control</b>						
4.505.2 Vapor retarder and capillary break is installed at slab-on-grade foundations.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.505.3 Moisture content of building materials used in wall and floor framing is checked before enclosure.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Indoor Air Quality and Exhaust</b>						
4.506.1 Each bathroom shall be provided with the following: 1. ENERGY STAR fans ducted to terminate outside the building. 2. Fans must be controlled by humidity control (separate or built-in); OR functioning as a component of a whole-house ventilation system. 3. Humidity controls with manual or automatic means of adjustment, capable of adjustment between a relative humidity range of ≤ 50% to a maximum of 80%.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.506.1 Reserved.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.506.2 [HR] Provide filters on return air openings rated MERV 6 or higher during construction when it is necessary to use HVAC equipment.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.506.3 Direct-vent appliances shall be used when equipment is located in conditioned space; or the equipment must be installed in an isolated mechanical room.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(continued)

**TABLE A4.602  
RESIDENTIAL OCCUPANCIES APPLICATION CHECKLIST -continued**

FEATURE OR MEASURE	LEVELS APPLICANT TO SELECT ELECTIVE MEASURES			VERIFICATIONS ENFORCING AGENCY TO SPECIFY VERIFICATION METHOD		
	Mandatory	Prerequisites and electives <sup>1</sup>		Enforcing Agency <input type="checkbox"/> All	Installer or Designer <input type="checkbox"/> All	Third party <input type="checkbox"/> All
		Tier 1	Tier 2			
<b>Environmental Comfort</b>						
4.507.2 Duct systems are sized, designed, and equipment is selected using the following methods: 1. Establish heat loss and heat gain values according to ANSI/ACCA 2 Manual J-2016 or equivalent. 2. Size duct systems according to ANSI/ACCA 1 Manual D-2016 or equivalent. 3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S-2014 or equivalent.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Outdoor Air Quality</b>						
<b>Reserved</b>						
<b>Innovative Concepts and Local Environmental Conditions</b>						
A4.509.1 Items in this section are necessary to address innovative concepts or local environmental conditions.						
Item 1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 2		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 3		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Installer and Special Inspector Qualifications</b>						
<b>Qualifications</b>						
702.1 HVAC system installers are trained and certified in the proper installation of HVAC systems.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
702.2 Special inspectors employed by the enforcing agency must be qualified and able to demonstrate competence in the discipline they are inspecting.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Verifications</b>						
703.1 Verification of compliance with this code may include construction documents, plans, specifications builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which show substantial conformance.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1. Green building measures listed in this table may be mandatory if adopted by a city, county, or city and county as specified in CALGreen Section 101.7.

2. Required prerequisite for this Tier.

3. These measures are currently required elsewhere in statute or in regulation.

(continued)

Sec. 370. Section 99.12.101 of Division 12, Article 9, Chapter IX of the LAMC is amended to read as follows:

Appendix A5 of the 2019 California Green Building Standards Code (CALGreen) is adopted by reference with the following exceptions: CALGreen Sections A5.105.1.1, A5.105.1.2, A5.106.4.3, A5.106.5.3.1, A5.106.5.3.2, A5.106.6.1, A5.303.2.3.4, A5.406.1, A5.406.1.3, A5.602 and Tables A5.106.4.3, A5.106.5.1.1, A5.106.5.3.1, A5.106.5.3.2, A5.106.11.2.2, A5.106.11.2.3, A5.303.2.2, A5.303.2.3.1, A5.601 and A5.602 are not adopted; and in lieu, LAMC Section 99.12.102 and 99.12.508 and Subsections A5.105.1.1, A5.105.1.2, A5.106.4.3, A5.106.5.1, A5.106.5.1.1, A5.106.5.3.1, A5.106.5.3.2, A5.106.6, A5.106.6.1, A5.303.2.3.1, A5.303.2.3.2, A5.303.2.3.3, A5.303.2.3.4, A5.406.1, A5.410.3, and Tables A5.106.4.3, A5.106.5.1.1, A5.106.11.2.2, A5.106.11.2.3, A5.601 and A5.602 are added or amended as follows:

Sec. 371. A new Subsection A5.106.5.3.1 is added to Section 99.12.101, Division 12, Article 9, Chapter IX of the LAMC to read as follows:

**A5.105.5.3.1. Tier 1.** Thirty (30) percent of the total number of actual parking spaces shall be EV charging spaces (EV spaces) capable of supporting the future installation of EVSE. Refer to LAMC Subsection 99.05.106.5.3.2 for design space requirements.

Sec. 372. A new Subsection A5.106.5.3.2 is added to Section 99.12.101, Division 12, Article 9, Chapter IX of the LAMC to read as follows:

**A5.105.5.3.2. Tier 2.** Forty (40) percent of the total number of actual parking spaces shall be EV charging spaces (EV spaces) capable of supporting the future installation of EVSE. When a single charging space is required, refer to LAMC Subsection 99.05.106.5.3.1. When multiple charging spaces are required, refer to LAMC Subsection 99.05.106.5.3.2 for design requirements.

Sec. 373. Subsection A5.106.11.2 of Section 99.12.101, Division 12, Article 9, Chapter IX of the LAMC is deleted in its entirety.

**[Intentionally Blank]**

Sec. 374. Table A5.601 following Subsection A5.410.3 of Section 99.12.101, Division 12, Article 9, Chapter IX of the LAMC is amended in its entirety to read as follows:

**[Intentionally Blank]**

TABLE A5.601 NONRESIDENTIAL BUILDINGS:

Green Building Standards Code Proposed Performance Approach

Note: This table is intended only as an aid in illustrating the nonresidential tier structure (Refer to Checklists A5.602, A5.602.1, and A5.602.2 for CALGREEN verification guidelines for Mandatory Checklist, Tier 1 Checklist, and Tier 2 Checklist.)

CATEGORY	ENVIRONMENTAL PERFORMANCE GOAL	TIER 1	TIER 2
All	Minimum Mandatory (See Mandatory Checklist)	Meet all of the provisions of Chapter 5 (See Tier 1 Checklist)	Meet all of the provisions of Chapter 5 (See Tier 2 Checklist)
DIVISION 5.1 Planning and Design	Designated Parking for Fuel Efficient Vehicles	Meet Table A5.106.5.1.1	Meet Table A5.106.5.1.2
	Electric Vehicle Charging	Approx. 8% of total spaces	Approx. 10% of total spaces
	Cool Roof to Reduce Heat Island Effect	Meet Table A5.106.11.2.2	Meet Table A5.106.11.2,3
		1 additional Elective from Division A5.1	3 additional Electives from Division A5.1
DIVISION 5.2 Energy Efficiency	Energy Performance <sup>a, b</sup>	Outdoor lighting power 90% of Part 6 allowance	Outdoor lighting power 90% of Part 6 allowance
		If applicable, solar water-heating system with minimum solar savings fraction of 0.15	If applicable, solar water-heating system with minimum solar savings fraction of 0.15
		Warehouse door seals	Warehouse door seals
		Comply with day lighting requirements	Comply with day lighting requirements
		Exhaust heat recovery	Exhaust heat recovery
		Energy Budget 95% or 90% of Part 6 calculated value of allowance	Energy Budget 90% or 85% of Part 6 calculated value of allowance
DIVISION 5.3 Water Efficiency and Conservation	Indoor Water Use	12% Savings	20% Savings
		1 additional Elective from Division A5.3	3 additional Electives from Division A5.3
DIVISION 5.4 Material Conservation and Resource Efficiency <sup>3</sup>	Construction Waste Reduction	At least 65% reduction	At least 80% reduction
	Recycled Content	Utilize recycled content materials for 10% of total material cost	Utilize recycled content materials for 15% of total material cost
		1 additional Elective from Division A5.4	3 additional Electives from Division A5.4
DIVISION 5.5 Environmental Quality	Low-VOC Resilient Flooring	90% of flooring meets VOC limits	100% of flooring meets VOC limits <sup>1</sup>
	Low-VOC Thermal Insulation	Comply with VOC limits	Install no-added formaldehyde insulation and comply with VOC limits
		1 additional Elective from Division A5.5	3 additional Electives from Division A5.5
Additional Measures		1 additional Elective from any division	3 additional Electives from any division
Approximate Total Measures		15	25

1. Exception: Allowance may be permitted in Tier 2 for up to 5-percent specialty purpose flooring.

2. Solar water-heating system requirement for newly constructed restaurants as per A5.203.1.1.2.

Exceptions:

a. Buildings with a natural gas service water heater with a minimum of 95-percent thermal efficiency.

b. Buildings where greater than 75 percent of the total roof area has annual solar access that is less than 70 percent. Solar access is the ratio of solar insolation including shade to the sole

3. Life cycle assessment compliant with Section A5.409.4 in this code may be substituted for prescriptive measures from Division A5.4.

Sec. 375. Table A5.602 following Section 99.12.508, Division 12, Article 9, Chapter IX of the LAMC is amended in its entirety to read as follows:

**[Intentionally Blank]**

**TABLE A5.602  
CALGREEN VERIFICATION  
GUIDELINES MANDATORY  
MEASURES CHECKLIST**

**Application:** This checklist shall be used for nonresidential projects that meet one of the following: new construction, building additions, or building alterations

**Y** = Yes (section has been selected and/or included)

**N/A** = Not Applicable (code section does not apply to the project—mainly used for additions and alterations)

**O** = Other (provide explanation)

**[N]** = New construction pursuant to Section 301.3

**[A]** = Additions and/or Alterations pursuant to Section 301.3

CHAPTER & DIVISIONS		SECTION TITLE	CODE SECTION	Y	N/A	O	PLAN SHEET, SPEC, OR ATTACH REFERENCE
DIVISION 5.1 Planning and Design	Mandatory	Storm water pollution prevention for projects that disturb less than 1 acre of land	5.106.1 through 5.106.2				
	Mandatory	Short-term bicycle parking (with exception)	5.106.4.1.1				
	Mandatory	Long-term bicycle parking	5.106.4.1.2 through 5.106.4.1.5				
	Mandatory	Designated parking for clean air vehicles	5.106.5.2				
	Mandatory	Parking stall marking	5.106.5.2.1				
	Mandatory	Single charging space requirements	5.106.5.3.1				
	Mandatory	Multiple charging space requirements [N]	5.106.5.3.2				
	Mandatory	Charging Station requirements [N]	5.106.5.3.2.1				
	Mandatory	EV charging space calculation [N] (with exceptions)	5.106.5.3.3				
	Mandatory	[N] Identification	5.106.5.3.4				
	Mandatory	[N] Future charging spaces	5.106.5.3.5				
	Mandatory	Light pollution reduction [N] (with exceptions and notes)	5.106.8				
	Mandatory	Grading and paving (exception for additions and alterations not altering the drainage path)	5.106.10				
Mandatory	Head island effect	5.106.11					
Mandatory	Hardscape alternatives [N]	5.106.11.1					
DIVISION 5.2 Energy Efficiency	Mandatory	Meet the minimum energy efficiency standard	5.201.1				
DIVISION 5.3 Water Efficiency and Conservation (continued)	Mandatory	Separate meters (new buildings or additions > 50,000 sf that consume more than 100 gal/day)	5.303.1.1				
	Mandatory	Separate meters (for tenants in new buildings or additions that consume more than 1,000 gal/day)	5.303.1.2				
	Mandatory	Water Reduction	5.303.2				

*(continued)*



CHAPTER 5 DIVISIONS		SECTION TITLE	CODE SECTION	Y	N/A	O	PLAN SHEET, SPEC, OR ATTACH REFERENCE
(continued) DIVISION 5.3 Water Efficiency and Conservation	Mandatory	Water closets shall not exceed 1.28 gallons per flush (gpf)	5.303.3.1				
	Mandatory	Wall-mounted urinals shall not exceed 0.125 gpf	5.303.3.2.1				
	Mandatory	Floor-mounted urinals shall not exceed 0.5 gpf	5.303.3.2.2				
	Mandatory	Single showerhead shall have maximum flow rate of 1.8 gpm (gallons per minute) at 80 psi	5.303.3.3.1				
	Mandatory	Multiple showerheads serving one shower shall have a combined flow rate of 1.8 gpm at 80 psi	5.303.3.3.2				
	Mandatory	Nonresidential lavatory faucets	5.303.3.4.1				
	Mandatory	Kitchen faucets	5.303.3.4.2				
	Mandatory	Wash fountains	5.303.3.4.3				
	Mandatory	Metering faucets	5.303.3.4.4				
	Mandatory	Metering faucets for wash fountains	5.303.3.4.5				
	Mandatory	Food waste disposers	5.303.4.1				
	Mandatory	Areas of additions or alterations	5.303.5				
	Mandatory	Standards for plumbing fixtures and fittings	5.303.6				
	Mandatory	Outdoor potable water use in landscape areas (with notes)	5.304.1				
	Mandatory	Outdoor water supply systems (with Exceptions 1-4)	5.305.1.1				
	Mandatory	Technical requirements for outdoor recycled water supply systems	5.305.1.2				
DIVISION 5.4 Material Conservation and Resource Efficiency (continued)	Mandatory	Weather protection	5.407.1				
	Mandatory	Moisture control: sprinklers	5.407.2.1				
	Mandatory	Moisture control: exterior door protection	5.407.2.2.1				
	Mandatory	Moisture control: flashing	5.407.2.2.2				
	Mandatory	Construction waste management	5.408.1				
	Mandatory	Construction waste management: documentation	5.408.1.4				
	Mandatory	Universal waste [A]	5.408.2				
	Mandatory	Excavated soil and land clearing debris (100% reuse or recycle)	5.408.3				
	Mandatory	Recycling by occupants (with exception)	5.410.1				
	Mandatory	Recycling by occupants: additions (with exception)	5.410.1.1				
	Mandatory	Recycling by occupants: sample ordinance	5.410.1.2				
	Mandatory	Commissioning new buildings (≥ 10,000 sf) [N]	5.410.2				
	Mandatory	Owner's or owner representative's Project Requirements (OPR) [N]	5.410.2.1				
	Mandatory	Basis of Design (BOD) [N]	5.410.2.2				

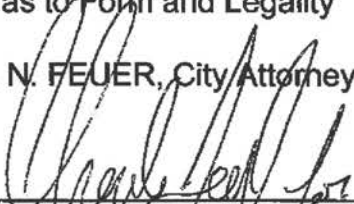
(continued)

**Sec. 376. URGENCY CLAUSE.** The City finds and declares that this ordinance is required for the immediate protection of the public peace, health, and safety for the following reasons: The regulations contained in this ordinance are necessary to safeguard life, limb, health, property and public welfare of persons within the City by regulating and controlling the design, construction, quality of materials, use and occupancy, location and maintenance of all buildings and structures erected or to be erected; by regulating certain grading operations; by regulating elevator maintenance and installations; by regulating electrical installations and plumbing systems; by regulating the design, construction, installation, alteration, repair, quality of materials, location, operation and maintenance of heating, ventilating, air-conditioning and refrigeration equipment and other miscellaneous heat-producing appliances installed in the City; and by identifying mandatory and voluntary green building measures. These regulations will protect residents and visitors of the City of Los Angeles by bringing the City's building standards in line with the State of California's Building Standards Code (California Code of Regulations Title 24) that will take effect January 1, 2020. Without the building standards contained in this ordinance, regulated structures, systems and building activity may present an immediate threat to the health and safety of all persons in the City. In order to address this threat the regulations contained in this ordinance must take effect immediately. For all of these reasons, this ordinance shall become effective upon publication pursuant to Section 253 of the Los Angeles City Charter.

Sec. 377. The City Clerk shall certify to the passage of this ordinance and have it published in accordance with Council policy, either in a daily newspaper circulated in the City of Los Angeles or by posting for ten days in three public places in the City of Los Angeles: one copy on the bulletin board located at the Main Street entrance to the Los Angeles City Hall; one copy on the bulletin board located at the Main Street entrance to the Los Angeles City Hall East; and one copy on the bulletin board located at the Temple Street entrance to the Los Angeles County Hall of Records.

Approved as to Form and Legality

MICHAEL N. FEUER, City Attorney

By   
KENNETH T. FONG  
Deputy City Attorney

Date 12-5-19

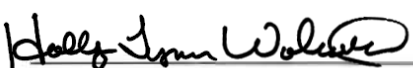
File No. 19-0823


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The Clerk of the City of Los Angeles hereby certifies that the foregoing ordinance was passed by the Council of the City of Los Angeles, by a vote of not less than three-fourths of all its members.

CITY CLERK

MAYOR

  
\_\_\_\_\_

  
\_\_\_\_\_

Ordinance Passed 2/11/2019

Approved 12/13/2019


Ordinance Effective Date: 12/27/2019  
Council File No.: 19-0823

# DECLARATION OF POSTING ORDINANCE

I, Ottavia Smith state as follows: I am, and was at all times hereinafter mentioned, a resident of the State of California, over the age of eighteen years, and a Deputy City Clerk of the City of Los Angeles, California.

**Ordinance No.** 186488 - a copy of which is hereto attached, was finally adopted by the Los Angeles City Council on 12/11/2019, and under the direction of said City Council and the City Clerk, pursuant to Section 251 of the Charter of the City of Los Angeles and Ordinance No. 172959, I conspicuously posted a true copy of said ordinance at each of the three public places located in the City of Los Angeles, California, as follows: 1) one copy on the bulletin board located at the Main Street entrance to the Los Angeles City Hall; 2) one copy on the bulletin board located at the Main Street entrance to the Los Angeles City Hall East; 3) one copy on the bulletin board located at the Temple Street entrance to the Los Angeles County Hall of Records beginning on 12/18/2019 and will be continuously posted for ten or more days.

I declare under penalty of perjury that the foregoing is true and correct.



Deputy Clerk

Date: 12/18/2019

Ordinance Effective Date: 12/27/2019

Council File No.: 19-0823