ORDINANCE NO. 174829

An ordinance amending the Los Angeles Municipal Code and incorporating by reference the portions of the 1997 Uniform Building Code and the 2001 Edition of the California Building Code with all the current amendments of the Los Angeles Municipal Code, except for the following changes.

THE PEOPLE OF THE CITY OF LOS ANGELES

DO ORDAIN AS FOLLOWS:

Section 1. The title of Section 91.104.2 of the Los Angeles Municipal Code is amended to read:

91.104.2. Powers of the Department and Duties of the Building Official.

Sec. 2. Section 91.104.2.1 of the Los Angeles Municipal Code is amended to read:

91.104.2.1. General. The powers of the department are enumerated in Section 98.0403.1 of the Los Angeles Municipal Code.

The Building Official shall have the duty to render interpretations of this Code and to adopt and enforce rules and supplemental regulations to clarify the application of its provisions. These interpretations, rules and regulations shall be in conformance with the intent and purpose of this Code.

Sec. 3. Section 91.106.3.3.2 of the Los Angeles Municipal Code is amended to read:

91.106.3.3.2. Written Records of Computations Required. When a structural design is required for the purpose of obtaining a permit, it shall be justified by a written record of computations filed with the department and each sheet of the drawings and written record of computations shall be signed by or bear the approved stamp of an engineer or architect licensed by the State of California for the type of service performed. On structures which do not require an engineer's or architect's signature according to Article 3, Chapter 7, Division 3, of the California Business and Professions Code, but do require some structural design, the person responsible for the design shall sign the calculations and the sheets of the plans with the engineering details.

Sec. 4. Exception 1 of Section 91.106.4.1 of the Los Angeles Municipal Code is amended to read:

1. The department shall have the authority to withhold a permit for any

building if public sewers are not available and the provisions of Article 4, Chapter IX of the Los Angeles Municipal Code (Plumbing Code) prohibit the use of a private sewage disposal system on the lot or premises.

Notwithstanding the provisions of Chapter 7 of the California Plumbing Code as adopted in Section 94.700.0 of the Los Angeles Municipal Code to the contrary, and for any lot or premises located in whole or in part in the San Fernando Valley and certain adjacent areas as described in Section 64.26 A 2 of the Los Angeles Municipal Code:

If public sewers are not available and Article 4 does not prohibit the use of a private sewage disposal system, a building permit may be issued, provided that:

A. The owner or owners shall install a holding tank pursuant to permits from the Department of Building and Safety and the Fire Department; and

B. The owner or owners shall submit a covenant and agreement that runs with the land to provide a connection to the public sewer when it becomes available, or to vacate the building if no connection is made. This covenant and agreement shall be signed by the owner or owners and filed with the County Recorder; or

C. The permit is for four or fewer dwelling units in a residential zone, or for a structure that will not result in the discharge of wastewater.

Sec. 5. Section 91.107.4.5 of the Los Angeles Municipal Code is amended to read:

91.107.4.5. Metal Bars, Grilles, Grates, Security Roll-Down Shutters and Similar Devices. The permit fee for the installation of devices for which a permit is required by Section 91.6304.3 of this Code shall be $25.00 for each affected dwelling unit, efficiency dwelling unit, light housekeeping room or guest room in a residential building.

EXCEPTIONS:

1. The Department shall issue a permit without collection of a fee if it determines that the following conditions are met:

A. The metal bars, grilles, grates, security roll down shutters and similar devices were installed prior to June 3, 1986, and

B. The dwelling unit is in full compliance with C.B.C. Section 310.4

when the first inspection is conducted pursuant to C.B.C. Section 310.4.

2. The Department shall issue a permit without the collection of a fee for all eligible lower income households, as defined by California Health and Safety Code Section 50079.5. The Department shall determine whether the applicant meets the applicable criteria for eligibility.

Sec. 6. Section 91.203 of the Los Angeles Municipal Code is amended to read:

SEC. 91.203. B.

Section 203 of the C.B.C. is adopted by reference, except that the following definitions are also adopted:

BOARD is the Board of Building and Safety Commissioners of the City of Los Angeles.

BUILDING LINE is any private property line coterminous with a public way; or a building line established by City ordinance.

Sec. 7. Section 91.204 of the Los Angeles Municipal Code is amended to read:

SEC. 91.204. C.

Section 204 of the C.B.C. is adopted by reference, except as modified below:

C.B.C. is the 2001 Edition of the California Building Code. This Code is also known as Part 2 of Title 24 of the California Code of Regulations.

CHIEF OF THE FIRE DEPARTMENT is the Fire Chief of the Los Angeles Fire Department or authorized representative.

CITY is the City of Los Angeles, California.

Sec. 8. Section 91.205 of the Los Angeles Municipal Code is amended to read:

SEC. 91.205. D.

Section 205 of the C.B.C. is adopted by reference, except as modified below:

DANGEROUS BUILDINGS CODE is not adopted.

The following definition is also adopted:

DEPARTMENT is the Department of Building and Safety.

Sec. 9. Section 91.207 of the Los Angeles Municipal Code is amended to read:

SEC. 91.207. F.

Section 207 of the C.B.C. is adopted by reference, except as modified below:

FIRE CODE is the Los Angeles City Fire Code, Article 7 of Chapter V of the Los Angeles Municipal Code.

FIRE DISTRICT is any portion of the City of Los Angeles as described in Division 72.

FOUNDATION-ONLY PERMIT is a building permit issued for that portion of a building which constitutes the footings for the building and which may, subject to the approval of the Department, include those portions of the building below the grade level.

Sec. 10. Section 91.216 of the Los Angeles Municipal Code is amended to read:

SEC. 91.216. O.

Section 216 of the C.B.C. is adopted by reference except as modified below:

OCCUPANCY is the purpose for which a building, or part of a building, is used or intended to be used. The term "Occupancy" as used in this Code shall include the room housing that occupancy and the space immediately above a roof or structure if used or intended to be used for other than a shelter.

Sec. 11. Section 91.220 of the Los Angeles Municipal Code is amended to read:

SEC. 91.220. S.

Section 220 of the C.B.C. is adopted by reference, except that the following definitions are also adopted:

SOIL ENGINEER is a civil engineer duly licensed by the State of California who is experienced in the application of the principles of soil mechanics, in the investigation, evaluation and design of civil works involving the use of earth materials and who is approved by the Department, or a geotechnical engineer licensed by the State of California.

SUPERINTENDENT OF BUILDING is the Building Official when referenced in this Code, the General Manager of the Department of Building and Safety of the City of Los Angeles, or duly authorized representative.

Sec. 12. Section 91.223 of the Los Angeles Municipal Code is amended to read:

SEC. 91.223. V.

Section 223 of the C.B.C. is adopted by reference, except that the following definition is also adopted:

VERY HIGH FIRE HAZARD SEVERITY ZONE (VHFHSZ) is the area in the City of Los Angeles established by the Board of Forestry and the State Fire Marshal and described in Division 72 as Mountain Fire District and Fire Buffer Zone.

Sec. 13. Section 91.1515 of the Los Angeles Municipal Code is deleted.

Sec. 14. Section 91.1500 of the Los Angeles Municipal Code is amended to read:

SEC. 91.1500. BASIC PROVISIONS.

Chapter 15 of the C.B.C. is adopted by reference with the following exceptions: Section 1504 and Tables 15-D-1, 15-D-2 of the C.B.C. are not adopted and in lieu, Sections 91.1504 and Tables 15-D-1 and 15- D-2 are added as provided here. Appendix Chapter 15 of the C.B.C. is adopted by reference with the following exceptions: Sections 1514, and 1516 and Table A-15-A of the C.B.C. are not adopted and in lieu, Sections 91.1514, and 91.1516 and Table A-15-A are added as provided here.

Sec. 15. Section 91.1514 of the Los Angeles Municipal Code is amended to read:

SEC. 91.1514. GENERAL.

All reroofing shall conform to the applicable provisions of Division 15 of this Code and as otherwise required in this Code.

A roof covering shall not be applied over existing wood shakes or shingle.

Roofing materials and methods of application shall comply with the U.B.C. Standards or shall follow manufacturer's installation requirements when approved by

the Building Official.

Sec. 16. Section 91.1516.2 of the Los Angeles Municipal Code is amended to read:

91.1516.2. Overlay on Existing Built-up Roofs. The Building Official may allow reroofing over existing built-up roofing when the conditions specified in Appendix Chapter 15, Section 1515.1 of the C.B.C. have been met. When an existing built-up roof has been removed and prior to application of new roofing on a nailable deck that has residual bitumen, rosin-sized or other dry sheet shall be installed. Prior to the application of any reroofing, the existing surface shall be prepared as follows:

1. Item 1 of Appendix Chapter 15, Section 1516.2 of the C.B.C. is adopted by reference.

2. Item 2 of Appendix Chapter 15, Section 1516.2 of the C.B.C. is adopted by reference.

3. Item 3 of Appendix Chapter 15, Section 1516.2 of the C.B.C. is adopted by reference.

4. Item 4 of Appendix Chapter 15, Section 1516.2 of the C.B.C. is adopted by reference.

5. Item 5 of Appendix Chapter 15, Section 1516.2 of the C.B.C. is adopted by reference.

6. Asphalt shingle application. Not more than one overlay of asphalt shingles shall be applied over one existing built-up roof on structures with a slope of 2 units vertical in 12 units horizontal (16.7% slope) or greater. The existing built-up roof shall have all surfaces cleaned of gravel and debris, all blisters and irregularities cut and made smooth and secure, and an underlayment of at least Type 30 nonperforated felt shall be installed prior to reroofing.

7. Item 7 of Appendix Chapter 15, Section 1516.2 of the C.B.C. is adopted by reference.

Sec. 17. Section 91.1600 of the Los Angeles Municipal Code is amended to read:

SEC. 91.1600. BASIC PROVISIONS.

Chapter 16 of the C.B.C. is adopted by reference with the following exceptions:

Sections 1612, 1618, 1629, 1630, 1632, 1633, 1635, and Table 16-N of the C.B.C. are not adopted and in lieu thereof Sections 91.1612, 91.1618, 91.1629, 91.1630, 91.1632, 91.1633, 91.1635, 91.1666, and Table 16-N are added as provided here.

Sec. 18. Section 91.1612 is added to the Los Angeles Municipal Code to read:

SEC. 91.1612. COMBINATIONS OF LOADS.

91.1612.1. General. Section 1612.1 of the C.B.C. is adopted by reference.

91.1612.2. Load Combinations Using Strength Design or Load and Resistance Factor Design.

91.1612.2.1. Basic Load Combinations. Where Load and Resistance Factor Design (Strength Design) is used, structures and all portions of the structures shall resist the most critical effects from the following combinations of factored loads:

$1.4D$	(12-1)
$1.2D + 1.6L + 0.5\ (L_r \text{ or } S)$	(12-2)
$1.2D + 1.6\ (L_r \text{ or } S) + (f_1\ L \text{ or } 0.8\ W)$	(12-3)
$1.2D + 1.3W + (f_1\ L + 0.5\ (L_r \text{ or } S)$	(12-4)
$1.2D + 1.0E + (f_1\ L + f_2\ S)$	(12-5)
$0.9D \pm (1.0\rho E_h \text{ or } 1.3W)$	(12-6)

WHERE:

f_1 = 1.0 for floors in places of public assembly, for live loads in excess of 100 psf (4.9 kN/m^2), and for garage live load.

= 0.5 for other live loads.

f_2 = 0.7 for roof configurations (such as saw tooth) that do not shed snow off the structure.

= 0.2 for other roof configurations.

EXCEPTIONS:

1. Factored load combinations for concrete per C.B.C. Section 1909.2 where load combinations do not include seismic forces.

2. Where other factored load combinations are specifically required by the provisions of this Code.

91.1612.2.2. Other loads. Section 1612.2.2 of the C.B.C. is adopted by reference.

91.1612.3. Load Combinations Using Allowable Stress Design. Section 1612.3 of the C.B.C. is adopted by reference.

91.1612.4. Special Seismic Load Combinations. Section 1612.4 of the C.B.C. is adopted by reference.

Sec. 19. The first paragraph of Section 91.1630.10.2 of the Los Angeles Municipal Code is amended to read:

91.1630.10.2. Calculated. Calculated story drift using Δ_M shall not exceed 0.025 times the story height for structures having a fundamental period of less than 0.5 second. For structures having a fundamental period of 0.5 second or greater, the calculated story drift shall not exceed $0.020/T^{1/3}$ times the story height.

Sec. 20. Section 91.1632.6.4.3 of the Los Angeles Municipal Code is amended to read:

91.1632.6.4.3. Emergency Systems. Independent supports and braces shall be provided for light fixtures required for exit illumination. Power supply for exit illumination shall comply with the requirements of C.B.C. Section 1003.2.9.2.

Sec. 21. Table 16-N of the Los Angeles Municipal Code is amended to read:

TABLE 16-N – STRUCTURAL SYSTEMS [1]

BASIC STRUCTURAL SYSTEM [2]	LATERAL-FORCE-RESISTING SYSTEM DESCRIPTION	*R*	*W*	HEIGHT LIMIT FOR SEISMIC ZONES 3 AND 4 (feet) x 304.8 for mm
1. Bearing wall system	1. Light-framed walls with shear panels			
	a. Wood structural panel walls for structures three stories or less	5.5	2.8	65
	b. All other light-framed walls	4.5	2.8	65
	2. Shear walls			
	a. Concrete	4.5	2.8	160
	b. Masonry	4.5	2.8	160
	3. Light steel-framed bearing walls with tension-only bracing	2.8	2.2	65
	4. Braced frames where bracing carries gravity load	4.4	2.2	160
	a. Steel	2.8	2.2	-
	b. Concrete[3]	2.8	2.2	65
	c. Heavy timber			
2. Building frame system	1. Steel eccentrically braced frame (EBF)	7.0	2.8	240
	2. Light-framed walls with shear panels.			
	a. Wood structural panel walls for structures three stories or less	6.5	2.8	65
	b. All other light-framed walls	5.0	2.8	65
	3. Shear walls			
	a. Concrete	5.5	2.8	240
	b. Masonry	5.5	2.8	160
	4. Ordinary braced frames			
	a. Steel [5]	5	2	35[6]
	b. Concrete[3]	5.6	2.2	-
	c. Heavy timber	5.6	2.2	65
	5. Special concentrically braced frames			
	a. Steel	6.4	2.2	240
3. Moment-resisting frame system	1. Special moment-resisting frame (SMRF)			
	a. Steel	8.5	2.8	N.L.
	b. Concrete[4]	8.5	2.8	N.L.
	2. Masonry moment-resisting wall frame (MMRWF)	6.5	2.8	160
	3. Intermediate moment-resisting frame (IMRF)			
	a. Steel[5]	4.5	2.8	35[6]
	b. Concrete[5]	5.5	2.8	-
	4. Ordinary moment-resisting frame (OMRF)			
	a. Steel [5]	3.5	2.8	35[6]
	b. Concrete[5]	3.5	2.8	-
	5. Special truss moment frames of steel (STMF)	6.5	2.8	240

4. Dual systems	1. Shear walls			
	a. Concrete with SMRF	8.5	2.8	N.L.
	b. Concrete with steel OMRF (Not Permitted)	4.2	2.8	160
	c. Concrete with concrete IMRF [5]	6.5	2.8	160
	d. Masonry with SMRF	5.5	2.8	160
	e. Masonry with steel OMRF (Not Permitted)	4.2	2.8	160
	f. Masonry with concrete IMRF [3]	4.2	2.8	-
	g. Masonry with masonry MMRWF	6.0	2.8	160
	2. Steel EBF			
	a. With steel SMRF	8.5	2.8	N.L.
	b. With steel OMRF (Not Permitted)	4.2	2.8	160
	3. Ordinary braced frames (Not Permitted)			
	a. Steel with steel SMRF	6.5	2.8	N.L.
	b. Steel with steel OMRF	4.2	2.8	160
	c. Concrete with concrete SMRF[3]	6.5	2.8	-
	d. Concrete with concrete IMRF[3]	4.2	2.8	-
	4. Special concentrically braced frames			
	a. Steel with steel SMRF	7.5	2.8	N.L.
	b. Steel with steel OMRF (Not Permitted)	4.2	2.8	160
	5. Steel IMRF (Not permitted)			
5. Cantilevered column building systems	1. Cantilevered column elements	2.2	2.0	35[7]
6. Shear wall-frame interaction systems	1. Concrete[8]	5.5	2.8	160
7. Undefined systems	See C.B.C. Sections 1629.6.7 and 1629.9.2	-	-	-

N.L.– no limit

[1] See Section 91.1630.4 for combination of structural systems.

[2] Basic structural systems are defined in Section 91.1629.6.

[3] Prohibited in Seismic Zones 3 and 4.

[4] Includes precast concrete conforming to C.B.C. Section 1921.2.7.

[5] Prohibited in Seismic Zones 3 and 4, except as permitted in C.B.C. Section 1634.2.

[6] In Seismic Zone 4, **Steel IMRF, OMRF and Ordinary Braced Frames** are permitted as follows:

[6.1] **Steel IMRF** are permitted for buildings 35 feet or less in height with the dead load of the roof, walls or floors not exceeding 35 psf each; or for single-story buildings 60 feet or less in height with the dead load of the roof not exceeding 15 psf and where the moment joints of field connections are constructed of bolted end plates.

[6.2] **Steel OMRF** are permitted for buildings 35 feet or less in height with the dead load of the roof, walls or floors not exceeding 15 psf each; or for single-story buildings 60 feet or less in height with the dead load of the roof not exceeding 15 psf and where the moment joints of field connections are constructed of bolted end plates; or for one- or two-family dwellings using light frame construction with $R = 3.0$ and $\Omega_o = 2.2$.

[6.3] **Steel Ordinary Braced Frames** are permitted for structural systems 35 feet or less in height; or for penthouse structures; or for single-story buildings 60 feet or less in height with the dead load of the roof not exceeding 15 psf.

[7] Total height of the building including cantilevered columns.

[8] Prohibited in Seismic Zones 2A, 2B, 3 and 4. See Section 91.1633.2.7.

Sec. 22. Item 5.2 of Section 91.1701.5 of the Los Angeles Municipal Code is amended to read:

5.2. Lateral Force Resisting Frames. During the welding of lateral force resisting steel frames. In addition to Item 5.1 requirements, nondestructive testing as required by Section 91.1703 of this Code.

Sec. 23. Section 91.1702 of the Los Angeles Municipal Code is amended to read:

SEC. 91.1702. STRUCTURAL OBSERVATION.

Structural observation shall be provided in Seismic Zone 3 or 4 when one of the following conditions exists:

1. The structure is defined in C.B.C. Table 16-K as Occupancy Category I, II or III;

2. The structure is required to comply with C.B.C. Section 403;

3. The structure is in Seismic Zone 4 and a lateral design is required for the entire structure;

EXCEPTION:
One- and two-story wood framed Group R, Division 3 and Group U Occupancies, less than 1500 square feet in area, and one- and two-story Groups B, F, M and S Occupancies with an occupant load of less than ten provided the adjacent grade is not steeper than 1 unit vertical in 10 units horizontal (10% sloped).

4. When so designated by the architect or engineer of record;

5. When such observation is specifically required by the Building Official.

The owner shall employ the engineer or architect responsible for the structural design, or another engineer or architect designated by the engineer or architect responsible for the structural design, to perform structural observation as defined in Section 91.220.

The owner or owner's representative shall coordinate and call a preconstruction meeting between the engineer or architect responsible for the structural design, structural observer, contractor, affected subcontractors and deputy inspectors. The structural observer shall preside over the meeting. The purpose of the meeting shall be to identify the major structural elements and connections that affect the vertical and lateral load systems of the structure and to review scheduling of the required observations. A record of the meeting shall be included in the first report submitted to the Building Official.

Observed deficiencies shall be reported in writing to the owner's representative, special inspector, contractor and the Building Official. Upon the form prescribed by the

Building Official, the structural observer shall submit to the Building Official a written statement at each significant construction stage stating that the site visits have been made and identifying any reported deficiencies which, to the best of the structural observer's knowledge, have not been resolved. A final report by the structural observer which states that all observed deficiencies have been resolved is required before acceptance of the work by the Building Official.

Sec. 24. The first paragraph of Section 91.1703 of the Los Angeles Municipal Code is amended to read:

In Seismic Zones 3 and 4, welded, fully restrained connections between the primary members of moment-resisting frames, which are subject to net tensile forces as part of the lateral force resisting system, shall be tested by nondestructive methods in accordance with AISC-Seismic Part I Section 16 for compliance with approved standards and job specifications. This testing shall be a part of the special inspection requirements of Section 91.1701.5. A program for this testing shall be established by the person responsible for structural design and as shown on plans and specifications.

Sec. 25. The first paragraph of Section 91.1706.1 of the Los Angeles Municipal Code is amended to read:

91.1706.1. General. A certified security bar installer may certify to the Department of Building and Safety that any bars, grilles, grates, security rolldown shutters, or similar devices installed on required emergency escape windows or doors meet the requirements of Section 91.6304.3 of this Code.

Sec. 26. Section 91.1900 of the Los Angeles Municipal Code is amended to read:

SEC. 91.1900. BASIC PROVISIONS.

Chapter 19 of the C.B.C. is adopted by reference with the following exceptions: Sections 1905, 1912, 1922 and 1928 of the C.B.C. are not adopted and in lieu Sections 91.1905, 91.1912, 91.1922 and 91.1928 are added as provided here.

Sec. 27. Section 91.1928 is added to the Los Angeles Municipal Code to read:

SEC. 91.1928. ALTERNATIVE LOAD-FACTOR COMBINATION AND STRENGTH REDUCTION FACTORS.

91.1928.1. Section 1928.1 of the C.B.C. is adopted by reference.

91.1928.1.1. Section 1928.1.1 of the C.B.C. is adopted by reference.

91.1928.1.2. Section 1928.1.2 of the C.B.C. is adopted by reference.

91.1928.1.2.1. Section 1928.1.2.1 of the C.B.C. is adopted by reference.

91.1928.1.2.2. Section 1928.1.2.2 of the C.B.C. is adopted by reference.

91.1928.1.2.3. Basic Combinations. When permitted by Section 91.1928.1, structures, components and foundations shall be designed so that their design strength exceeds the effects of the factored loads in the following combinations:

1. $1.4D$
2. $1.2D + 1.6L + 0.5(L_r \text{ or } S \text{ or } R)$
3. $1.2D + 1.6(L_r \text{ or } S \text{ or } R) + (0.5L \text{ or } 0.8W)$
4. $1.2D + 1.3W + 0.5L + 0.5(L_r \text{ or } S \text{ or } R)$
5. $1.2D + 1.0\ \rho E_h + (0.5L \text{ or } 0.2S)$
6. $0.9D - (1.3W \text{ or } 1.0\ \rho E_h)$

EXCEPTIONS:

1. The load factor on L in combinations 3, 4 and 5 shall equal 1.0 for garages, areas occupied and places of public assembly, and all areas where the live load is greater than 100 lb./ft.^{2} (pounds-force per square foot) (4.79 kPa).

2. Each relevant strength limit state shall be considered. The most unfavorable effect may occur when one or more of the contributing loads is not acting.

91.1928.1.2.4. Section 1928.1.2.4 of the C.B.C. is adopted by reference.

Sec. 28. Section 91.2204.2 of the Los Angeles Municipal Code is amended to read:

91.2204.2. Allowable Stress Design. Steel design based on allowable stress design methods shall resist the load combinations of Section 91.1612.3 in accordance with the applicable requirements of Section 91.2205.

Sec. 29. Section 91.2210 of the Los Angeles Municipal Code is amended to read:

SEC. 91.2210. ADOPTION.

Except for the modifications as set forth in Sections 91.2211 and 91.2212 of this division and the requirements of this Code, the seismic design, fabrication and erection of structural steel shall be in accordance with Part I (LRFD) and Part III (ASD) of the Seismic Provisions for Structural Steel Buildings, dated April 15, 1997, and Supplement

No. 2, dated November 10, 2000, published by the American Institute of Steel Construction, 1 East Wacker Drive, Suite 3100, Chicago, IL 60601, referred to as AISC-Seismic.

Where other codes, standards, or specifications are referred to in AISC-Seismic, they are considered as acceptable methods or materials when approved by the Building Official.

Sec. 30. Section 91.2211 of the Los Angeles Municipal Code is amended to read:

SEC. 91.2211. DESIGN METHODS.

When the load combinations from Section 91.1612.2 for LRFD are used, structural steel buildings shall be designed in accordance with C.B.C. Chapter 22 Division II (AISC-LRFD) and Part I of AISC-Seismic as modified by this division.

When the load combinations from Section 91.1612.3 for ASD are used, structural steel buildings shall be designed in accordance with C.B.C. Chapter 22 Division III (AISC-ASD) and Part III of AISC-Seismic as modified by this division.

Sec. 31. Section 91.2212 of the Los Angeles Municipal Code is amended to read:

SEC. 91.2212. AMENDMENTS.

The AISC-Seismic provisions adopted by this division apply to the seismic design of structural steel members, except as modified by this section.

The following terms that appear in AISC-Seismic shall be as indicated in the 2001 California Building Code.

AISC-Seismic	**2001 California Building Code**
Seismic Force Resisting System	Lateral Force Resisting System
Design Earthquake	Design Basis Ground Motion
Load Combinations Eqs. (4-1) and (4-2)	C.B.C. Chapter 16 Eqs. (12-17) and (12-18) respectively
LRFD Specification Section Eqs. (A4-1) through (A4-6)	C.B.C. Chapter 16 Eqs. (12-1) through (12-6) respectively
$\Omega_o Q_E$	E_m

The AISC Seismic Provisions are modified as follows:

1. Revise Part I, Section 1, as follows:

1. SCOPE

These provisions are intended for the design and construction of structural steel members and connections in the Seismic Force Resisting Systems in buildings for which the design forces resulting from earthquake motions have been determined on the basis of various levels of energy dissipation in the inelastic range of response. These provisions shall apply to buildings in Seismic Zone 4 or when required by the engineer of record.

These provisions shall be applied in conjunction with C.B.C. Chapter 22, Division II, referred to as the LRFD Specification. All members and connections in the Lateral Force Resisting System shall have a design strength as provided in the LRFD Specification to resist Load Combinations 12-1 through 12-6 (in C.B.C. Chapter 16) and shall meet the requirements in these provisions.

Part I includes a Glossary, which is specifically applicable to this Part, and Appendix S.

2. Revise Part I, Section 4.1, as follows:

4.1 Loads and Load Combinations

The loads and load combinations shall be those in Section 91.1612.2, except as modified throughout these provisions.

Sec. 32. Table 23-II-I-1 of the Los Angeles Municipal Code is amended to read:

TABLE 23-II-I-1 — ALLOWABLE SHEAR FOR WIND OR SEISMIC FORCES IN POUNDS PER FOOT FOR WOOD STRUCTURAL PANEL SHEAR WALLS WITH FRAMING OF DOUGLAS FIR-LARCH OR SOUTHERN PINE [1, 2]

PANEL GRADE	MINIMUM NOMINAL PANEL THICKNESS (inches)	MINIMUM NAIL PENETRATION IN FRAMING (inches)	ALLOWABLE SHEAR SEISMIC FORCES [3, 6, 7] PANELS APPLIED DIRECTLY TO FRAMING					ALLOWABLE SHEAR WIND FORCES PANELS APPLIED DIRECTLY TO FRAMING				
			NAIL SIZE (Common or Galvanized Box)[5]	Nail Spacing at Plywood Panel Edges (In.)				NAIL SIZE (Common or Galvanized Box)[5]	Nail Spacing at Plywood Panel Edges (In.)			
				× 25.4 for mm					× 25.4 for mm			
				6	4	3	2		6	4	3	2
	× 25.4 for mm			× 0.0146 for N/mm					× 0.0146 for N/mm			
STRUCTURAL I	5/16	1 1/4	6d	150	200	200	200	6d	200	300	390	510
	3/8	1 ½	8d	175	200	200	200	8d	230[4]	360[4]	460[4]	610[4]
	7/16			190	295	380	500		255[4]	395[4]	505[4]	670[4]
	15/32			210	320	410	550		280	430	550	730
	15/32	1 5/8	10d	255	380	500	650	10d	340	510	665	870
C-D, C-C Sheathing, plywood panel siding and other grades covered in U.B.C. Standard 23-2 or 23-3	5/16	1 1/4	6d	130	200	200	200	6d	180	270	350	450
	3/8			150	200	200	200		200	300	390	510
	3/8	1 ½	8d	165	200	200	200	8d	220[4]	320[4]	410[4]	530[4]
	7/16			180	260	335	435		240[4]	350[4]	450[4]	585[4]
	15/32			200	285	370	480		260	380	490	640
	15/32	1 5/8	10d	230	345	450	580	10d	310	460	600	770
	19/32			255	380	500	650		340	510	665	870
			NAIL SIZE (Galvanized Casing)					NAIL SIZE (Galvanized Casing)				
Plywood panel siding in grades covered in U.B.C. Standard 23-2	5/16	1 1/4	6d	100	150	200	200	6d	140	210	275	360
	3/8	1 ½	8d	120	180	200	200	8d	160	240	310	410

1 All panel edges backed with 2-inch (51 mm) nominal or thicker framing. Panels installed either horizontally or vertically. Space nails at 6 inches (152 mm) on center along intermediate framing members for 3/8-inch (9.5 mm) and 7/16-inch (11 mm) panels installed on studs spaced 24 inches (610 mm) on center and 12 inches (305 mm) on center for other conditions and panel thicknesses. These values are for short-time loads due to wind or earthquake and must be reduced 25 percent for normal loading.
Allowable shear values for nails in framing members of other species set forth in Division III, Part III, shall be calculated for all other grades by multiplying the shear capacities for nails in Structural I by the following factors: 0.82 for species with specific gravity greater than or equal to 0.42 but less than 0.49, and 0.65 for species with a specific gravity of less than 0.42.

2 Where panels are applied on both faces of a wall and nail spacing is less than 6 inches (152 mm) on center on either side, panel joints shall be offset to fall on different framing members or framing shall be 3-inch (76 mm) nominal or thicker and nails on each side shall be staggered.

3 In Seismic Zone 4, where allowable shear values exceed 300 pounds per foot (4.38 N/mm) foundation sill plates and all framing members receiving edge nailing from abutting panels shall not be less than a single 3-inch (76 mm) nominal member and foundation sill plates shall not be less than a single 3-inch (76 mm) nominal member. In shear walls where total wall design shear does not exceed 450 pounds per foot (6.94 N/mm), a single 2-inch (51 mm) nominal sill plate may be used, provided anchor bolts are designed for a load capacity of 50 percent or less of the allowable capacity and bolts have a minimum of 2-inch-by-2-inch-by-3/16-inch (51 mm by 51 mm by 5 mm) thick plate washers. Plywood joint and sill plate nailing shall be staggered.

4 The values for 3/8-inch (9.5 mm) and 7/16-inch (11 mm) panels applied direct to framing may be increased to values shown for 15/32-inch (12 mm) panels, provided studs are spaced a maximum of 16 inches (406 mm) on center or panels are applied with long dimension across studs.

5 Galvanized nails shall be hot-dipped or tumbled.

6 The maximum allowable shear for three-ply plywood resisting seismic forces is 200 pounds per foot (2.92 kN/m).
7 Framing at adjoining panel edges shall be 3-inch (76 mm) nominal or thicker and nails shall be staggered where nails are spaced 2 inches (51 mm) on center.

Sec. 33. Section 91.3100 of the Los Angeles Municipal Code is amended to read:

SEC. 91.3100. BASIC PROVISIONS.

Chapter 31 of the C.B.C. is adopted by reference with the following exceptions: Section 3102, Chapter 31A, Divisions I and III of Chapter 31B, Chapters 31C and 31D of the C.B.C. are not adopted and in lieu Section 91.3102 is added as provided here. Appendix Chapter 31 of the C.B.C. is adopted by reference.

Sec. 34. Section 91.3102.4.1 of the Los Angeles Municipal Code is amended to read:

91.3102.4.1. Design. Masonry chimneys shall be designed and constructed to comply with Section 91.3102.3.2 and applicable design requirements of this section.

Notwithstanding any other provisions of this Code, an existing masonry chimney which is altered or repaired more than ten percent of its replacement cost within any 12-month period shall have its entire chimney structure comply with the current requirements of this Code or other standards approved by the Building Official.

Sec. 35. Section 91.3102.4.3 of the Los Angeles Municipal Code is amended to read:

91.3102.4.3. Reinforcing and Seismic Anchorage. The masonry and concrete chimney shall be designed according to requirements in Division 21 of this Code and shall be tied to a structural element of the building capable of providing lateral resistance for the horizontal forces specified in Section 91.1632. The anchorage of the ties to the resisting structural element shall be designed for the loads specified in Section 91.1632.

Sec. 36. Section 91.3303 of the Los Angeles Municipal Code is deleted.

Sec. 37. Section 91.3300 of the Los Angeles Municipal Code is amended to read:

SEC. 91.3300. BASIC PROVISIONS.

Chapter 33 of the C.B.C. is adopted by reference for the purpose of providing basic building regulations relating to Site Work, Demolition and Construction with the following exceptions: Section 3301 of the C.B.C. is not adopted and in lieu Sections 91.3301 and 91.3304 are added as provided here.

Sec. 38. Section 91.3400 of the Los Angeles Municipal Code is amended to read:

SEC. 91.3400. BASIC PROVISIONS.

Chapter 34 of the C.B.C. is adopted by reference. In addition to Chapter 34 of the C.B.C., existing buildings and structures shall comply with the requirements of Divisions 81, 82, 83, 84, 85, 86, 88, 89 and 91 of this Code and with the voluntary earthquake hazard reduction standards of Divisions 92, 93, 94, 95 and 96 of this Code.

Sec. 39. Item 3 of Section 91.6205.11 of the Los Angeles Municipal Code is amended to read:

3. Contain flashing, mechanical and strobe lights in conflict with the provisions of Sections 80.08.4 and 93.0107 of the Los Angeles Municipal Code.

Sec. 40. Section 91.6219 is added to the Los Angeles Municipal Code to read:

91.6219. AWNING SIGNS. No sign, lettering or advertising delineation shall be placed on any portion of an awning except the valance and only when the awning complies with Section 91.3206. Awnings with a valance above a height of 14 feet shall have no sign, lettering, or advertising delineation.

Sec. 41. The first paragraph of Section 91.6304.3 of the Los Angeles Municipal Code is amended to read:

91.6304.3. Additional Requirements for Installation of Bars, Grills, Grates or Similar Devices. In addition to the requirements of C.B.C. Section 310.4, all bars, grills, grates or similar devices shall comply with the following:

Sec. 42. Section 91.8301.3 of the Los Angeles Municipal Code is amended to read:

91.8301.3. The provisions of Section 93.0110 of the Electrical Code, Section 94.103.1.1.2 of the Plumbing Code and Section 95.114.4 of the Mechanical Code shall apply to all buildings moved into or within the City.

Sec. 43. Section 91.8604.6.5 of the Los Angeles Municipal Code is amended to read:

91.8604.6.5. Conditional Exceptions. The following exceptions from the requirements set forth in Section 94.2001 of the Los Angeles Municipal Code are available upon application to the Department provided all the stated conditions are met

for each category of building.

Sec. 44. Section 91.9305.11.3 of the Los Angeles Municipal Code is amended to read:

91.9305.11.3. Mechanical Penetrations. Mechanical penetrations in shear walls that exceed the provisions of Division 23 of this Code shall be accounted for in the design or the shear wall shall be analyzed as two separate walls on each side of the penetration.

Sec. 45. The definition of the term "Type II Fabricator" in Section 96.201 of the Los Angeles Municipal Code is amended to read:

TYPE II FABRICATOR. Any person who, at the place or location other than the site of a particular building or structure to be erected or under construction in the City of Los Angeles, performs work which if performed at the construction site would be subject to the inspection requirements of Sections 91.108, 93.0304, 94.135.0, or 95.116 of the Los Angeles Municipal Code.

Sec. 46. Section 96.203 of the Los Angeles Municipal Code is amended to read:

SEC. 96.203. SCOPE AND EFFECT OF APPROVALS.

An approval issued pursuant to this division shall constitute authorization for the persons named in the approval to perform work as Type I or Type II Fabricators at the locations designated in the approval and shall constitute authorization to utilize the work so produced without the inspections which, if the work were performed at the construction site of a building or structure in the City of Los Angeles, would be required by Sections 91.108, 91.1701, 93.0304, 94.135.0 and 95.116 of the Los Angeles Municipal Code, provided, however that any Type I Fabricator who performs work described in Section 91.1701.9 of the Los Angeles Municipal Code shall not be exempt from the inspection requirements of that subsection.

No approval issued pursuant to the provisions of this division shall be construed as authority to violate any law or regulation applicable in the City of Los Angeles, nor shall any approval be construed as having any effect whatsoever upon the laws or regulations of the State of California applicable to contractors.

Sec. 47. Subsection (b) of Section 98.0402 of the Los Angeles Municipal Code is amended to read:

(b) Collection Fee for Delinquent Invoice For Boilers, Pressure Vessels, Elevators and Emergency Systems. Whenever an owner or user of any apparatus, equipment or emergency system fails to pay the fees required by Sections 92.0126,

92.0129 (d), 92.0132 (b), (d) and (e), 93.0235 and 97.0314 within 60 days after notification, the owner or user shall pay, additionally, a collection fee equal to 50% of the required fee specified under Sections 92.0126, 92.0129 (d), 92.0132 (b), (d) and (e), 93.0235 and 97.0314.

Sec. 48. This ordinance shall become operative on November 1, 2002.

[81378]

Sec. 49. 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 in the Main Street lobby to the City Hall; one copy on the bulletin board located at the ground level at the Los Angeles Street entrance to the Los Angeles Police Department; and one copy on the bulletin board located at the Temple Street entrance to the Los Angeles County Hall of Records.

I hereby certify that this ordinance was passed by the Council of the City of Los Angeles, at its meeting of SEP 1 0 2002.

J. MICHAEL CAREY, City Clerk

By _____
Deputy

Approved SEP 1 9 2002

_____
Mayor

Approved as to Form and Legality

ROCKARD J. DELGADILLO, City Attorney

By _____
JERI L. BURGE
Assistant City Attorney

Date September 5, 2002

File No(s). CF 02-1653