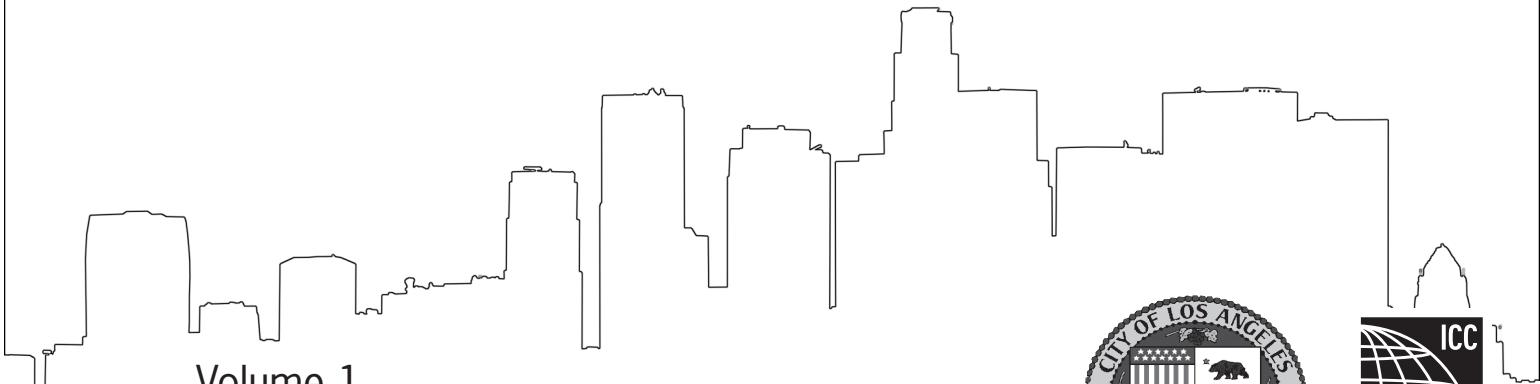


CITY OF LOS ANGELES 2014 BUILDING CODE



Volume 1
Based on the 2013 CBC
and 2012 IBC®



2014 City of Los Angeles Building Code — Volume 1
(Based on the 2013 CBC and the 2012 IBC)

First Printing: March 2014

ISBN: 978-1-60983-510-1

Publication Date: March 2014

COPYRIGHT 2014
by
INTERNATIONAL CODE COUNCIL, INC.
and
CALIFORNIA BUILDING STANDARDS COMMISSION

ALL RIGHTS RESERVED. This publication by the International Code Council, Inc (ICC) and the California Building Standards Commission (CBSC) is a jointly copyrighted work. The California Building Standards Commission has copyright ownership of the California Building Standards Commission modifications to the Uniform Codes and ICC has copyright ownership of the International Codes. Without advance written permission from the copyright owner, no part of this book may be reproduced, distributed or transmitted in any form or by any means, including, without limitation, electronic, optical or mechanical means (by way of example and not limitation, photocopying, or recording by or in an information storage retrieval system). For information on permission to copy material exceeding fair use, please contact: Publications, 4051 West Flossmoor Road, Country Club Hills, IL 60478. Phone 1-888-ICC-SAFE (422-7233).

Trademarks: "International Code Council," the "International Code Council" logo and the "International Building Code" are trademarks of the International Code Council, Inc.

PRINTED IN THE U.S.A.



EFFECTIVE USE OF THE CITY OF LOS ANGELES BUILDING CODE

The *City of Los Angeles Building Code* was established in 1889 with the appointment of the first superintendent of building. In 1923, the first of 18 volumes of the *Los Angeles Annual Builder's Guide* was published. This guide is a handbook for architects and builders and contains a complete cross index of the Los Angeles building ordinances, electrical ordinances and supplementary rulings and the California State Housing Act.

After 1936, the building regulations of Chapter IX of the *Los Angeles Municipal Code* (LAMC) were established by the passage of Ordinance No. 77,000. But it was 1943 when Ordinance No. 87,000 amended in its entirety Article 1 of Chapter IX of the *Los Angeles Municipal Code* and a new *Los Angeles City Building Code* was published. This edition of the LAMC established the format of the different divisions and sections relevant to the building regulations in the city.

Through the intervening years, the code has been amended and revised regularly to keep pace with the ever-changing technology of the construction industry and new and proven concepts of structural design.

The State of California has mandated the City of Los Angeles to enforce the *California Building Code* (CBC). The City Council for the City of Los Angeles has passed Ordinance Number 182850 (operative January 1, 2014) to amend Article 1 of Chapter IX of the Los Angeles Municipal Code and to adopt by reference the 2013 edition of the CBC and hereinafter shall be called the 2014 edition of the *City of Los Angeles Building Code*.

Chapter 1 is the general administrative provisions of the City of Los Angeles and replaces Chapter 1 of the CBC.

Chapters 2 through 35 are the general provisions of the CBC.

Chapters 61 through 72 have been added to the code to provide special requirements of the City of Los Angeles.

Chapters 81 through 91 are the city code requirements of existing buildings and structures.

Chapters 92 through 96 are the city standard for voluntary earthquake hazard reduction standards for existing buildings.

At the end of Volume 2 of the Building Code, "Excerpts" has been added for additional reference to the industry. Excerpts are the accumulation of related Los Angeles City codes and municipal and administrative code sections pertaining to the Department of Building and Safety.

Marginal Markings

 These symbols indicate that a City of Los Angeles amendment has been added to the 2013 CBC.

 This symbol indicates a deletion of IBC or CBC or city of Los Angeles language by the City of Los Angeles.

TABLE OF CONTENTS

<p>VOLUME 1</p> <p>→ CHAPTER 1 ADMINISTRATION.....3</p> <p>→ Section</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">L A</td> <td style="width: 90%;">101 Title, Purpose and Scope</td> <td style="width: 5%;">3</td> </tr> <tr> <td>L A</td> <td>102 Unsafe Buildings or Structures</td> <td>4</td> </tr> <tr> <td>L A</td> <td>103 Violations</td> <td>4</td> </tr> <tr> <td>L A</td> <td>104 Organization and Enforcement</td> <td>5</td> </tr> <tr> <td>L A</td> <td>105 Appeals</td> <td>6</td> </tr> <tr> <td>L A</td> <td>106 Permits.....</td> <td>9</td> </tr> <tr> <td>L A</td> <td>107 Fees</td> <td>17</td> </tr> <tr> <td>L A</td> <td>108 Inspection</td> <td>22</td> </tr> <tr> <td>L A</td> <td>109 Certificate of Occupancy</td> <td>25</td> </tr> <tr> <td>L A</td> <td>110 Responsibility of Permittee</td> <td>26</td> </tr> <tr> <td>L A</td> <td>111 Code Revision.....</td> <td>26</td> </tr> <tr> <td>L A</td> <td>112 Reserved</td> <td>26</td> </tr> <tr> <td>L A</td> <td>113 Permit Fees</td> <td>26</td> </tr> </table> <p>CHAPTER 2 DEFINITIONS45</p> <p>Section</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">201</td> <td style="width: 90%;">General</td> <td style="width: 5%;">45</td> </tr> <tr> <td>202</td> <td>Definitions.....</td> <td>45</td> </tr> </table> <p>CHAPTER 3 USE AND OCCUPANCY CLASSIFICATION91</p> <p>Section</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">301</td> <td style="width: 90%;">General</td> <td style="width: 5%;">91</td> </tr> <tr> <td>302</td> <td>Classification.....</td> <td>91</td> </tr> <tr> <td>303</td> <td>Assembly Group A.....</td> <td>91</td> </tr> <tr> <td>304</td> <td>Business Group B</td> <td>92</td> </tr> <tr> <td>305</td> <td>Educational Group E</td> <td>92</td> </tr> <tr> <td>306</td> <td>Factory Group F</td> <td>92</td> </tr> <tr> <td>307</td> <td>High-Hazard Group H</td> <td>93</td> </tr> <tr> <td>308</td> <td>Institutional Group I.....</td> <td>98</td> </tr> <tr> <td>309</td> <td>Mercantile Group M.....</td> <td>99</td> </tr> <tr> <td>310</td> <td>Residential Group R</td> <td>99</td> </tr> <tr> <td>311</td> <td>Storage Group S</td> <td>101</td> </tr> <tr> <td>312</td> <td>Utility and Miscellaneous Group U.....</td> <td>102</td> </tr> <tr> <td>313</td> <td>Laboratories Group L [SFM].....</td> <td>102</td> </tr> </table> <p>CHAPTER 4 SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY109</p> <p>Section</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">401</td> <td style="width: 90%;">Scope</td> <td style="width: 5%;">109</td> </tr> <tr> <td>402</td> <td>Covered Mall and Open Mall Buildings</td> <td>109</td> </tr> <tr> <td>403</td> <td>High-Rise Buildings and Group I-2 Occupancies Having Occupied Floors Located More than 75 Feet Above the Lowest Level of Fire Department Vehicle Access.....</td> <td>113</td> </tr> <tr> <td>404</td> <td>Atriums</td> <td>116</td> </tr> <tr> <td>405</td> <td>Underground Buildings</td> <td>116</td> </tr> <tr> <td>406</td> <td>Motor-Vehicle-Related Occupancies.....</td> <td>118</td> </tr> <tr> <td>407</td> <td>Group I-2.....</td> <td>122</td> </tr> <tr> <td>408</td> <td>Group I-3.....</td> <td>125</td> </tr> <tr> <td>409</td> <td>Motion Picture Projection Rooms</td> <td>130</td> </tr> <tr> <td>410</td> <td>Stages, Platforms and Technical Production Areas.....</td> <td>131</td> </tr> <tr> <td>411</td> <td>Special Amusement Buildings.....</td> <td>133</td> </tr> <tr> <td>412</td> <td>Aircraft-Related Occupancies</td> <td>133</td> </tr> <tr> <td>413</td> <td>Combustible Storage.....</td> <td>136</td> </tr> <tr> <td>414</td> <td>Hazardous Materials.....</td> <td>136</td> </tr> <tr> <td>415</td> <td>Groups H-1, H-2, H-3, H-4 and H-5</td> <td>139</td> </tr> <tr> <td>416</td> <td>Application of Flammable Finishes.....</td> <td>150</td> </tr> <tr> <td>417</td> <td>Drying Rooms.....</td> <td>151</td> </tr> <tr> <td>418</td> <td>Organic Coatings</td> <td>151</td> </tr> <tr> <td>419</td> <td>Live/Work Units</td> <td>151</td> </tr> <tr> <td>420</td> <td>Groups R-1, R-2, R-2.1, R-3, R-3.1 and R-4</td> <td>152</td> </tr> <tr> <td>421</td> <td>Hydrogen Cutoff Rooms</td> <td>155</td> </tr> <tr> <td>422</td> <td>Ambulatory Care Facilities</td> <td>155</td> </tr> <tr> <td>423</td> <td>Storm Shelters.....</td> <td>156</td> </tr> <tr> <td>424</td> <td>Children's Play Structures</td> <td>156</td> </tr> <tr> <td>425</td> <td>Special Provisions for Licensed 24-Hour Care Facilities in a Group R-2.1, R-3.1, R-4 [SFM]</td> <td>156</td> </tr> <tr> <td>426</td> <td>Group I-4 [SFM].....</td> <td>159</td> </tr> <tr> <td>427</td> <td>Reserved</td> <td>160</td> </tr> <tr> <td>428</td> <td>Reserved</td> <td>160</td> </tr> <tr> <td>429</td> <td>Reserved</td> <td>160</td> </tr> <tr> <td>430</td> <td>Horse Racing Stables [SFM]</td> <td>160</td> </tr> <tr> <td>431</td> <td>Pet Kennels [SFM]</td> <td>160</td> </tr> <tr> <td>432</td> <td>Combustion Engines and Gas Turbines [SFM]</td> <td>160</td> </tr> <tr> <td>433</td> <td>Fixed Guideway Transit Systems [SFM]</td> <td>161</td> </tr> <tr> <td>434</td> <td>Explosives [SFM]</td> <td>164</td> </tr> <tr> <td>435</td> <td>Reserved</td> <td>167</td> </tr> <tr> <td>436</td> <td>Winery Caves [SFM]</td> <td>167</td> </tr> <tr> <td>437</td> <td>Reserved</td> <td>168</td> </tr> </table>	L A	101 Title, Purpose and Scope	3	L A	102 Unsafe Buildings or Structures	4	L A	103 Violations	4	L A	104 Organization and Enforcement	5	L A	105 Appeals	6	L A	106 Permits.....	9	L A	107 Fees	17	L A	108 Inspection	22	L A	109 Certificate of Occupancy	25	L A	110 Responsibility of Permittee	26	L A	111 Code Revision.....	26	L A	112 Reserved	26	L A	113 Permit Fees	26	201	General	45	202	Definitions.....	45	301	General	91	302	Classification.....	91	303	Assembly Group A.....	91	304	Business Group B	92	305	Educational Group E	92	306	Factory Group F	92	307	High-Hazard Group H	93	308	Institutional Group I.....	98	309	Mercantile Group M.....	99	310	Residential Group R	99	311	Storage Group S	101	312	Utility and Miscellaneous Group U.....	102	313	Laboratories Group L [SFM].....	102	401	Scope	109	402	Covered Mall and Open Mall Buildings	109	403	High-Rise Buildings and Group I-2 Occupancies Having Occupied Floors Located More than 75 Feet Above the Lowest Level of Fire Department Vehicle Access.....	113	404	Atriums	116	405	Underground Buildings	116	406	Motor-Vehicle-Related Occupancies.....	118	407	Group I-2.....	122	408	Group I-3.....	125	409	Motion Picture Projection Rooms	130	410	Stages, Platforms and Technical Production Areas.....	131	411	Special Amusement Buildings.....	133	412	Aircraft-Related Occupancies	133	413	Combustible Storage.....	136	414	Hazardous Materials.....	136	415	Groups H-1, H-2, H-3, H-4 and H-5	139	416	Application of Flammable Finishes.....	150	417	Drying Rooms.....	151	418	Organic Coatings	151	419	Live/Work Units	151	420	Groups R-1, R-2, R-2.1, R-3, R-3.1 and R-4	152	421	Hydrogen Cutoff Rooms	155	422	Ambulatory Care Facilities	155	423	Storm Shelters.....	156	424	Children's Play Structures	156	425	Special Provisions for Licensed 24-Hour Care Facilities in a Group R-2.1, R-3.1, R-4 [SFM]	156	426	Group I-4 [SFM].....	159	427	Reserved	160	428	Reserved	160	429	Reserved	160	430	Horse Racing Stables [SFM]	160	431	Pet Kennels [SFM]	160	432	Combustion Engines and Gas Turbines [SFM]	160	433	Fixed Guideway Transit Systems [SFM]	161	434	Explosives [SFM]	164	435	Reserved	167	436	Winery Caves [SFM]	167	437	Reserved	168	
L A	101 Title, Purpose and Scope	3																																																																																																																																																																																																		
L A	102 Unsafe Buildings or Structures	4																																																																																																																																																																																																		
L A	103 Violations	4																																																																																																																																																																																																		
L A	104 Organization and Enforcement	5																																																																																																																																																																																																		
L A	105 Appeals	6																																																																																																																																																																																																		
L A	106 Permits.....	9																																																																																																																																																																																																		
L A	107 Fees	17																																																																																																																																																																																																		
L A	108 Inspection	22																																																																																																																																																																																																		
L A	109 Certificate of Occupancy	25																																																																																																																																																																																																		
L A	110 Responsibility of Permittee	26																																																																																																																																																																																																		
L A	111 Code Revision.....	26																																																																																																																																																																																																		
L A	112 Reserved	26																																																																																																																																																																																																		
L A	113 Permit Fees	26																																																																																																																																																																																																		
201	General	45																																																																																																																																																																																																		
202	Definitions.....	45																																																																																																																																																																																																		
301	General	91																																																																																																																																																																																																		
302	Classification.....	91																																																																																																																																																																																																		
303	Assembly Group A.....	91																																																																																																																																																																																																		
304	Business Group B	92																																																																																																																																																																																																		
305	Educational Group E	92																																																																																																																																																																																																		
306	Factory Group F	92																																																																																																																																																																																																		
307	High-Hazard Group H	93																																																																																																																																																																																																		
308	Institutional Group I.....	98																																																																																																																																																																																																		
309	Mercantile Group M.....	99																																																																																																																																																																																																		
310	Residential Group R	99																																																																																																																																																																																																		
311	Storage Group S	101																																																																																																																																																																																																		
312	Utility and Miscellaneous Group U.....	102																																																																																																																																																																																																		
313	Laboratories Group L [SFM].....	102																																																																																																																																																																																																		
401	Scope	109																																																																																																																																																																																																		
402	Covered Mall and Open Mall Buildings	109																																																																																																																																																																																																		
403	High-Rise Buildings and Group I-2 Occupancies Having Occupied Floors Located More than 75 Feet Above the Lowest Level of Fire Department Vehicle Access.....	113																																																																																																																																																																																																		
404	Atriums	116																																																																																																																																																																																																		
405	Underground Buildings	116																																																																																																																																																																																																		
406	Motor-Vehicle-Related Occupancies.....	118																																																																																																																																																																																																		
407	Group I-2.....	122																																																																																																																																																																																																		
408	Group I-3.....	125																																																																																																																																																																																																		
409	Motion Picture Projection Rooms	130																																																																																																																																																																																																		
410	Stages, Platforms and Technical Production Areas.....	131																																																																																																																																																																																																		
411	Special Amusement Buildings.....	133																																																																																																																																																																																																		
412	Aircraft-Related Occupancies	133																																																																																																																																																																																																		
413	Combustible Storage.....	136																																																																																																																																																																																																		
414	Hazardous Materials.....	136																																																																																																																																																																																																		
415	Groups H-1, H-2, H-3, H-4 and H-5	139																																																																																																																																																																																																		
416	Application of Flammable Finishes.....	150																																																																																																																																																																																																		
417	Drying Rooms.....	151																																																																																																																																																																																																		
418	Organic Coatings	151																																																																																																																																																																																																		
419	Live/Work Units	151																																																																																																																																																																																																		
420	Groups R-1, R-2, R-2.1, R-3, R-3.1 and R-4	152																																																																																																																																																																																																		
421	Hydrogen Cutoff Rooms	155																																																																																																																																																																																																		
422	Ambulatory Care Facilities	155																																																																																																																																																																																																		
423	Storm Shelters.....	156																																																																																																																																																																																																		
424	Children's Play Structures	156																																																																																																																																																																																																		
425	Special Provisions for Licensed 24-Hour Care Facilities in a Group R-2.1, R-3.1, R-4 [SFM]	156																																																																																																																																																																																																		
426	Group I-4 [SFM].....	159																																																																																																																																																																																																		
427	Reserved	160																																																																																																																																																																																																		
428	Reserved	160																																																																																																																																																																																																		
429	Reserved	160																																																																																																																																																																																																		
430	Horse Racing Stables [SFM]	160																																																																																																																																																																																																		
431	Pet Kennels [SFM]	160																																																																																																																																																																																																		
432	Combustion Engines and Gas Turbines [SFM]	160																																																																																																																																																																																																		
433	Fixed Guideway Transit Systems [SFM]	161																																																																																																																																																																																																		
434	Explosives [SFM]	164																																																																																																																																																																																																		
435	Reserved	167																																																																																																																																																																																																		
436	Winery Caves [SFM]	167																																																																																																																																																																																																		
437	Reserved	168																																																																																																																																																																																																		

TABLE OF CONTENTS

438	Reserved	168	712	Vertical Openings	215
439	Public Libraries [SL AND SFM].....	168	713	Shaft Enclosures	216
440	Group C [SFM].....	169	714	Penetrations.....	218
441	Reserved	171	715	Fire-Resistant Joint Systems	221
442	School Facilities for Kindergarten Through 12th Grade and Group E Day Care	171	716	Opening Protectives	222
443	Group L [SFM].....	172	717	Ducts and Air Transfer Openings	228
444	Reserved	175	718	Concealed Spaces	233
445	Large Family Day-Care Homes [SFM].....	175	719	Fire-Resistance Requirements for Plaster	235
CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREAS..... 179			720	Thermal- and Sound-Insulating Materials	235
Section			721	Prescriptive Fire Resistance	236
501	General	179	722	Calculated Fire Resistance	260
502	Definitions.....	179	CHAPTER 7A MATERIALS AND CONSTRUCTION METHODS FOR EXTERIOR WILDFIRE EXPOSURE..... 293		
503	General Building Height and Area Limitations.....	179	Section		
504	Building Height	182	701A	Scope, Purpose and Application	293
505	Mezzanines and Equipment Platforms	182	702A	Definitions.....	294
506	Building Area Modifications	183	703A	Standards of Quality.....	294
507	Unlimited Area Buildings	185	704A	Ignition-Resistant Construction	295
508	Mixed Use and Occupancy.....	186	705A	Roofing	296
509	Incidental Uses	187	706A	Vents	296
510	Special Provisions.....	188	707A	Exterior Covering	296
CHAPTER 6 TYPES OF CONSTRUCTION..... 195			708A	Exterior Windows and Doors.....	298
Section			709A	Decking	299
601	General	195	710A	Accessory Structures	299
602	Construction Classification	195	CHAPTER 8 INTERIOR FINISHES 303		
603	Combustible Material in Type I and II Construction	197	Section		
CHAPTER 7 FIRE AND SMOKE PROTECTION FEATURES 201			801	General	303
Section			802	Definitions.....	303
701	General	201	803	Wall and Ceiling Finishes	303
702	Definitions.....	201	804	Interior Floor Finish	306
703	Fire-Resistance Ratings and Fire Tests	201	805	Combustible Materials in Type I and II Construction.....	306
704	Fire-Resistance Rating of Structural Members	202	806	Decorative Materials and Trim	307
705	Exterior Walls	204	807	Insulation.....	307
706	Fire Walls	208	808	Acoustical Ceiling Systems	307
707	Fire Barriers	210	CHAPTER 9 FIRE PROTECTION SYSTEMS... 317		
708	Fire Partitions	212	Section		
709	Smoke Barriers	213	901	General	317
710	Smoke Partitions.....	213	902	Definitions.....	317
711	Horizontal Assemblies	214	903	Automatic Sprinkler Systems	318

905	Standpipe Systems	328	CHAPTER 11A HOUSING ACCESSIBILITY 419	
906	Portable Fire Extinguishers	331	Section	
907	Fire Alarm and Detection Systems	332	1101A Application	419
908	Emergency Alarm Systems	349	1102A Building Accessibility	419
909	Smoke Control Systems	350	1103A Design and Construction	420
910	Smoke and Heat Removal	359	1104A Covered Multifamily Dwellings	420
911	Fire Command Center	361	1105A Garages, Carports and Parking Facilities	421
912	Fire Department Connections	362	1106A Site and Building Characteristics	421
913	Fire Pumps	363	1107A Definitions	421
914	Emergency Responder Safety Features	363	1108A General Requirements for Accessible Parking and Exterior Routes of Travel	422
915	Emergency Responder Radio Coverage	363	1109A Parking Facilities	422
CHAPTER 10 MEANS OF EGRESS		369	1110A Exterior Routes of Travel	424
Section			1111A Changes in Level on Accessible Routes	425
1001	Administration	369	1112A Curb Ramps on Accessible Routes	425
1002	Definitions	369	1113A Walks and Sidewalks on an Accessible Route	425
1003	General Means of Egress	369	1114A Exterior Ramps and Landings on Accessible Routes	426
1004	Occupant Load	371	1115A Exterior Stairways	427
1005	Means of Egress Sizing	372	1116A Hazards on Accessible Routes	428
1006	Means of Egress Illumination	373	1117A General Requirements for Accessible Entrances, Exits, Interior Routes of Travel and Facility Accessibility	429
1007	Accessible Means of Egress	374	1118A Egress and Areas of Refuge	429
1008	Doors, Gates and Turnstiles	377	1119A Interior Routes of Travel	429
1009	Stairways	384	1120A Interior Accessible Routes	429
1010	Ramps	388	1121A Changes in Level on Accessible Routes	430
1011	Exit Signs	390	1122A Interior Ramps and Landings on Accessible Routes	430
1012	Handrails	391	1123A Interior Stairways	431
1013	Guards	392	1124A Elevators and Platform (Wheelchair) Lifts	432
1014	Exit Access	394	1125A Hazards on Accessible Routes	434
1015	Exit and Exit Access Doorways	395	1126A Doors	434
1016	Exit Access Travel Distance	396	1127A Common Use Facilities	436
1017	Aisles	397	1128A Covered Dwelling Units	444
1018	Corridors	397	1129A Reserved	444
1019	Egress Balconies	399	1130A Accessible Route Within Covered Multifamily Dwelling Units	444
1020	Exits	399	1131A Changes in Level on Accessible Routes	444
1021	Number of Exits	399	1132A Doors	444
1022	Interior Exit Stairways and Ramps	400	1133A Kitchens	446
1023	Exit Passageways	402	1134A Bathing and Toilet Facilities	447
1024	Luminous Egress Path Markings	403	1135A Laundry Rooms	450
1025	Horizontal Exits	404	1136A Electrical Receptacle, Switch and Control Heights	450
1026	Exterior Exit Stairways and Ramps	405		
1027	Exit Discharge	406		
1028	Assembly	407		
1029	Emergency Escape and Rescue	412		
CHAPTER 11 RESERVED.....		415		

TABLE OF CONTENTS

1137A	Other Features and Facilities	451
1138A	Space Allowances and Reach Ranges	451
1139A	Accessible Drinking Fountains	453
1140A	Accessible Telephones	454
1141A	Accessible Swimming Pools	454
1142A	Electrical Receptacle, Switch and Control Heights.....	455
1143A	Signage	455
1144A	Reserved	457
1145A	Reserved	457
1146A	Reserved	457
1147A	Reserved	457
1148A	Reserved	457
1149A	Reserved	457
1150A	Site Impracticality Tests.....	458
CHAPTER 11B ACCESSIBILITY TO PUBLIC BUILDINGS, PUBLIC ACCOMODATIONS, COMMERCIAL BUILDINGS AND PUBLIC HOUSING		515
DIVISION 1 – APPLICATION AND ADMINISTRATION		
Section		
11B-101	Purpose	515
11B-102	Dimensions for adults and children	515
11B-103	Equivalent facilitation	515
11B-104	Conventions	515
11B-105	Referenced standards.....	515
11B-106	Definitions	515
11B-107	Special conditions appeals action	517
11B-108	Maintenance of accessible features.....	517
DIVISION 2 – SCOPING REQUIREMENTS		
11B-201	Application.....	518
11B-202	Existing buildings and facilities	518
11B-203	General exceptions.....	520
11B-204	Protruding objects	521
11B-205	Operable parts	521
11B-206	Accessible routes	521
11B-207	Accessible means of egress.....	525
11B-208	Parking spaces	525
11B-209	Passenger loading zones and bus stops.....	527
11B-210	Stairways	527
11B-211	Drinking fountains.....	527
11B-212	Kitchens, kitchenettes, wet bars and sinks.....	528
11B-213	Toilet facilities and bathing facilities	528
11B-214	Washing machines and clothes dryers	529
11B-215	Fire alarm systems	529
11B-216	Signs	529
11B-217	Telephones	531
11B-218	Transportation facilities.....	532
11B-219	Assistive listening systems	532
11B-220	Automatic teller machines, and fare machines and point of sale devices	533
11B-221	Assembly areas	533
11B-222	Dressing, fitting and locker rooms	535
11B-223	Medical care and long-term care facilities.....	535
11B-224	Transient lodging guest rooms	536
11B-225	Storage	537
11B-226	Dining surfaces and work surfaces	538
11B-227	Sales and service	538
11B-228	Depositories, vending machines, change machines, mail boxes and fuel dispensers	539
11B-229	Windows	539
11B-230	Two-way communication systems	539
11B-231	Judicial facilities	539
11B-232	Detention facilities and correctional facilities	539
11B-233	Residential facilities.....	540
11B-234	Amusement rides	542
11B-235	Recreational boating facilities.....	542
11B-236	Exercise machines and equipment	543
11B-237	Fishing piers and platforms.....	543
11B-238	Golf facilities	543
11B-239	Miniature golf facilities.....	543
11B-240	Play areas	543
11B-241	Saunas and steam rooms	544
11B-242	Swimming pools, wading pools, and spas	544
11B-243	Shooting facilities with firing positions	544
11B-244	Religious facilities	544
11B-245	Commercial facilities located in private residences	545
11B-246	Outdoor developed areas	545
11B-247	Detectable warnings and detectable directional texture.....	545
DIVISION 3 – BUILDING BLOCKS		
11B-301	General	546
11B-302	Floor or ground surfaces	546
11B-303	Changes in level	546
11B-304	Turning space	547

11B-305 Clear floor or ground space.....	547
11B-306 Knee and toe clearance	548
11B-307 Protruding objects	548
11B-308 Reach ranges	550
11B-309 Operable parts	551
 DIVISION 4 – ACCESSIBLE ROUTES	
11B-401 General	552
11B-402 Accessible routes	552
11B-403 Walking surfaces	552
11B-404 Doors, doorways, and gates.....	553
11B-405 Ramps	560
11B-406 Curb ramps, blended transitions and islands	561
11B-407 Elevators.....	563
11B-408 Limited use/limited application elevators....	569
11B-409 Private residence elevators	570
11B-410 Platform lifts	571
 DIVISION 5 – GENERAL SITE AND BUILDING ELEMENTS	
11B-501 General	572
11B-502 Parking Spaces.....	572
11B-503 Passenger drop-off loading zones.....	575
11B-504 Stairways	576
11B-505 Handrails	576
 DIVISION 6 – PLUMBING ELEMENTS AND FACILITIES	
11B-601 General	579
11B-602 Drinking Fountains	579
11B-603 Toilet and bathing rooms.....	579
11B-604 Water closets and toilet compartments.....	580
11B-605 Urinals	585
11B-606 Lavatories and sinks.....	585
11B-607 Bathtubs	585
11B-608 Shower compartments	588
11B-609 Grab bars	590
11B-610 Seats	590
11B-611 Washing machines and clothes dryers	591
11B-612 Saunas and steam rooms	592
 DIVISION 7 – COMMUNICATION ELEMENTS AND FACILITIES	
11B-701 General	593
11B-702 Fire alarm systems	593
11B-703 Signs	593
11B-704 Telephones	598
11B-705 Detectable warnings and detectable directional texture.....	598
11B-706 Assistive listening systems	600
11B-707 Automatic teller machines, fare machines, and point-of-sale devices	600
11B-708 Two-way communication systems	602
 DIVISION 8 SPECIAL ROOMS, SPACES, AND ELEMENTS	
11B-801 General	603
11B-802 Wheelchair spaces, companion seats, and designated aisle seats and semi-ambulant seats.....	603
11B-803 Dressing, fitting, and locker rooms.....	604
11B-804 Kitchens and kitchenettes	604
11B-805 Medical care and long-term care facilities ..	606
11B-806 Transient lodging guest rooms	607
11B-807 Holding cells and housing cells	607
11B-808 Courtrooms.....	608
11B-809 Residential dwelling units.....	608
11B-810 Transportation facilities.....	609
11B-811 Storage	610
 DIVISION 9 BUILT-IN ELEMENTS	
11B-901 General	611
11B-902 Dining surfaces and work surfaces.....	611
11B-903 Benches.....	611
11B-904 Check out isles and sales and service counters	611
 DIVISION 10 – RECREATION FACILITIES	
11B-1001 General	613
11B-1002 Amusement rides	613
11B-1003 Recreational boating facilities.....	614
11B-1004 Exercise machines and equipment	617
11B-1005 Fishing piers and platforms.....	617
11B-1006 Golf facilities	617
11B-1007 Miniature golf facilities.....	618
11B-1008 Play areas	618
11B-1009 Swimming pools, wading pools, and spas.....	620
11B-1010 Shooting facilities with firing positions ..	624
 CHAPTER 12 INTERIOR ENVIRONMENT	
Section	
1201 General	627

TABLE OF CONTENTS

1202	Definitions.....	627	1244	Reserved	701
1203	Ventilation.....	627	1245	Reserved	701
1204	Temperature Control.....	629	1246	Reserved	701
1205	Lighting.....	629	1247	Reserved	701
1206	Yards or Courts.....	630	1248	Reserved	701
1207	Sound Transmission	630	1249	Reserved	701
1208	Interior Space Dimensions	630.3	1250	Pharmacies	701
1209	Access to Unoccupied Spaces	631	1251	Veterinary Facilities	702
1210	Toilet and Bathroom Requirements.....	631	1252	Barber Colleges and Shops	702
1211	Garage Door Springs	632	1253	Schools of Cosmetology, Cosmetological Establishments and Satellite Classrooms	703
1212	Pollutant Control.....	632	1254	Acupuncture Offices.....	703
1213	Reserved	632			
1214	Reserved	632			
1215	Reserved	632			
1216	Reserved	632			
1217	Reserved	632			
1218	Reserved	632			
1219	Reserved	633	1401	General	709
1220	Reserved	633	1402	Definitions.....	709
1221	Reserved	633	1403	Performance Requirements	709
1222	Reserved	633	1404	Materials	710
1223	Reserved	633	1405	Installation of Wall Coverings	711
1224	Hospitals	633	1406	Combustible Materials on the Exterior Side of Exterior Walls	716
1225	Skilled Nursing and Intermediate-Care Facilities.....	664	1407	Metal Composite Materials (MCM)	717
1226	Clinics	672	1408	Exterior Insulation and Finish Systems (EIFS)	719
1227	Correctional Treatment Centers.....	682	1409	High-Pressure Decorative Exterior-Grade Component Laminates (HPL)	719
1228	Reserved	687	1410	[DSA-SS and DSA-SS/CC, OSHPD 1,2 & 4] Additional Requirements for Anchored and Adhered Veneer	720
1229	Reserved	687			
1230	Minimum Standards for Juvenile Facilities	687			
1231	Local Detention	691			
1232	Reserved	697			
1233	Reserved	697			
1234	Reserved	697			
1235	Sanitary Control of Shellfish (Plants and Operations)	697			
1236	Laboratory Animal Quarters	698			
1237	Wild Animal Quarantine Facilities	698			
1238	Reserved	698			
1239	Reserved	698			
1240	Meat and Poultry Processing Plants	699			
1241	Collection Centers and Facilities.....	700			
1242	Renderers.....	700			
1243	Horsemeat and Pet Food Establishments	701			

L A

L A	1511	Solar Photovoltaic Panels/Modules	743	
L A	1512	[DSA-SS and OSHPD 1, 2 & 4] Seismic Anchorage of Slate Shingle, Clay and Concrete Tile Roof Coverings	743	
		INDEX.....	745	
		HISTORY NOTE APPENDIX.....	785	
		VOLUME 2		
		CHAPTER 16 STRUCTURAL DESIGN	3	
		Section		
	1601	General	3	
	1602	Definitions and Notations.....	3	
	1603	Construction Documents	4	
	1604	General Design Requirements	5	
	1605	Load Combinations.....	7	
	1606	Dead Loads	9	
	1607	Live Loads.....	9	
	1608	Snow Loads.....	15	
	1609	Wind Loads	18	
	1610	Soil Lateral Loads.....	28	
	1611	Rain Loads	29	
	1612	Flood Loads.....	35	
	1613	Earthquake Loads	36	
L A	1614	Atmospheric Ice Loads	48.4	A
L A	1615	Structural Integrity	48.4	A
L A	1616	Additional Requirements [DSA-SS/CC].....	49	A
		CHAPTER 16A STRUCTURAL DESIGN	59	
		Section		
	1601A	General	59	
	1602A	Definitions and Notations.....	59	
	1603A	Construction Documents	60	
	1604A	General Design Requirements	61	
	1605A	Load Combinations.....	65	
	1606A	Dead Loads	67	
	1607A	Live Loads.....	67	
	1608A	Snow Loads.....	73	
	1609A	Wind Loads	73	
	1610A	Soil Lateral Loads.....	86	
	1611A	Rain Loads	86	
	1612A	Flood Loads.....	93	
	1613A	Earthquake Loads	94	
		CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS	107	
		Section		
	1701	General	107	
	1702	Definitions.....	107	
	1703	Approvals	107	
	1704	Special Inspections, Contractor Responsibility and Structural Observations	108	
	1705	Required Verification and Inspection	110	
	1706	Design Strengths of Materials	118	
	1707	Special Inspections for Seismic Resistance ..	120.3	A
	1708	Structural Testingfor Seismic Resistance...	120.3	A
	1709	In-situ Load Tests	120.3	A
	1710	Preconstruction Load Tests.....	120.4	A
	1711	Material and Test Standards	120.5	A
	1712	Certified Security Bar Installer.....	120.5	A
		CHAPTER 17A SPECIAL INSPECTIONS AND TESTS	123	
		Section		
	1701A	General	123	
	1702A	Definitions.....	123	
	1703A	Approvals	124	
	1704A	Special Inspections, Contractor Responsibility and Structural Observations	125	
	1705A	Required Verification and Inspection	126	
	1706A	Design Strengths of Materials	137	
	1707A	Alternative Test Procedure.....	137	
	1708A	Test Safe Load	137	
	1709A	In-situ Load Tests	137	
	1710A	Preconstruction Load Tests	137	
	1711A	Material and Test Standards.....	138	
		CHAPTER 18 SOILS AND FOUNDATIONS	143	
		Section		
	1801	General	143	
	1802	Definitions.....	143	
	1803	Geotechnical Investigations	143	
	1804	Excavation, Grading and Fill	146	

TABLE OF CONTENTS

1805	Dampproofing and Waterproofing.....	147	1904A	Durability Requirements	220
1806	Presumptive Load-Bearing Values of Soils...	148	1905A	Modifications to ACI 318.....	222
1807	Foundation Walls, Retaining Walls and Embedded Posts and Poles.....	149	1906A	Structural Plain Concrete	225
1808	Foundations.....	155	1907A	Minimum Slab Provisions	225
1809	Shallow Foundations	158	1908A	Anchorage to Concrete— Allowable Stress Design	225
1810	Deep Foundations.....	160	1909A	Anchorage to Concrete— Strength Design	225
CHAPTER 18A SOILS AND FOUNDATIONS 175					
Section					
1801A	General	175	1910A	Shotcrete	226
1802A	Definitions.....	175	1911A	Reinforced Gypsum Concrete	227
1803A	Geotechnical Investigations	175	1912A	Concrete-Filled Pipe Columns.....	228
1804A	Excavation, Grading and Fill.....	178	1913A	Concrete, Reinforcement and Anchor Testing	228
1805A	Dampproofing and Waterproofing.....	179	1914A	Existing Concrete Structures	230
1806A	Presumptive Load-Bearing Values of Soils...	181	CHAPTER 20 ALUMINUM..... 233		
1807A	Foundation Walls, Retaining Walls and Embedded Posts and Poles	181	Section		
1808A	Foundations.....	183	2001	General	233
1809A	Shallow Foundations	186	2002	Materials	233
1810A	Deep Foundations.....	186	2003	Inspection	233
1811A	Prestressed Rock and Soil Foundation Anchors	199	CHAPTER 21 MASONRY 237		
CHAPTER 19 CONCRETE 203					
Section					
1901	General	203	2101	General	237
1902	Definitions.....	203	2102	Definitions and Notations	237
1903	Specifications for Tests and Materials.....	203	2103	Masonry Construction Materials	239
1904	Durability Requirements	203	2104	Construction	240
1905	Modifications to ACI 318.....	204	2105	Quality Assurance.....	240
1906	Structural Plain Concrete	208	2106	Seismic Design	242
1907	Minimum Slab Provisions	208	2107	Allowable Stress Design	242
1908	Anchorage to Concrete—Allowable Stress Design.....	208	2108	Strength Design of Masonry	242
1909	Anchorage to Concrete—Strength Design ...	209	2109	Empirical Design of Masonry	243
1910	Shotcrete	210	2110	Glass Unit Masonry	245
1911	Reinforced Gypsum Concrete	211	2111	Masonry Fireplaces.....	245
1912	Concrete-Filled Pipe Columns.....	211	2112	Masonry Heaters.....	247
1913	Additional Requirements [DSA-SS/CC].....	212	2113	Masonry Chimneys.....	248
CHAPTER 19A CONCRETE..... 219					
Section					
1901A	General	219	2101A	General	259
1902A	Definitions.....	219	2102A	Definitions and Notations	260
1903A	Specifications for Tests and Materials.....	219	2103A	Masonry Construction Materials	261
CHAPTER 21A MASONRY 259					
Section					
2101A	General	259	2104A	Construction	262
2102A	Definitions and Notations	260	2105A	Quality Assurance.....	265
2103A	Masonry Construction Materials	261	2106A	Seismic Design	267

2107A	Allowable Stress Design	268	Secondary Schools, and Community Colleges	293	
2108A	Strength Design of Masonry	269			
2109A	Empirical Design of Masonry	269			
2110A	Glass Unit Masonry	269			
2111A	Masonry Fireplaces.....	269			
2112A	Masonry Heaters.....	271			
2113A	Masonry Chimneys.....	272			
2114A	Nonbearing Walls	276			
2115A	Masonry Screen Walls	276			
CHAPTER 22 STEEL	281				
Section					
2201	General	281	2301	General	297
2202	Definitions.....	281	2302	Definitions.....	297
2203	Identification and Protection of Steel for Structural Purposes.....	281	2303	Minimum Standards and Quality.....	298
2204	Connections.....	281	2304	General Construction Requirements	302
A 2205	Steel Joists.....	281	2305	General Design Requirements for Lateral Force-Resisting Systems	313
2206	Composite Structural Steel and Concrete Structures	282	2306	Allowable Stress Design	315
2207	Steel Joists.....	282	2307	Load and Resistance Factor Design.....	322
2208	Steel Cable Structures	283	2308	Conventional Light-Frame Construction.....	322
2209	Steel Storage Racks	283			
2210	Cold-Formed Steel	283			
2211	Cold-Formed Steel Light-Frame Construction	283			
2212	Additional Requirements [DSA-SS/CC].....	284			
CHAPTER 22A STEEL.....	289				
Section					
2201A	General	289	2401	General	369
2202A	Definitions.....	289	2402	Definitions.....	369
2203A	Identification and Protection of Steel for Structural Purposes	289	2403	General Requirements for Glass	369
2204A	Connections.....	289	2404	Wind, Snow, Seismic and Dead Loads on Glass.....	370
2205A	Structural Steel	290	2405	Sloped Glazing and Skylights	371
2206A	Composite Structural Steel and Concrete Structures	291	2406	Safety Glazing.....	373
2207A	Steel Joists.....	291	2407	Glass in Handrails and Guards.....	374
2208A	Steel Cable Structures	292	2408	Glazing in Athletic Facilities	375
2209A	Steel Storage Racks	292	2409	Glass in Elevator Hoistways and Elevator Cars.....	375
2210A	Cold-Formed Steel	293	2410	Structural Sealant Glazing (SSG)	376
2211A	Cold-Formed Steel Light-Frame Construction	293			
2212A	Light Modular Steel Moment Frames for Public Elementary and				
CHAPTER 23 WOOD	297				
Section					
2301	General	297			
2302	Definitions.....	297			
2303	Minimum Standards and Quality.....	298			
2304	General Construction Requirements	302			
2305	General Design Requirements for Lateral Force-Resisting Systems	313			
2306	Allowable Stress Design	315			
2307	Load and Resistance Factor Design.....	322			
2308	Conventional Light-Frame Construction.....	322			
CHAPTER 24 GLASS AND GLAZING	369				
Section					
2401	General	369			
2402	Definitions.....	369			
2403	General Requirements for Glass	369			
2404	Wind, Snow, Seismic and Dead Loads on Glass.....	370			
2405	Sloped Glazing and Skylights	371			
2406	Safety Glazing.....	373			
2407	Glass in Handrails and Guards.....	374			
2408	Glazing in Athletic Facilities	375			
2409	Glass in Elevator Hoistways and Elevator Cars.....	375			
2410	Structural Sealant Glazing (SSG)	376			
CHAPTER 25 GYPSUM BOARD AND PLASTER	381				
Section					
2501	General	381			
2502	Definitions.....	381			
2503	Inspection	381			
2504	Vertical and Horizontal Assemblies	381			
2505	Shear Wall Construction.....	382			
2506	Gypsum Board Materials	382			
2507	Lathing and Plastering	382			
2508	Gypsum Construction.....	383			
2509	Gypsum Board in Showers and Water Closets	384			
2510	Lathing and Furring for Cement Plaster (Stucco).....	384			
2511	Interior Plaster	385			

TABLE OF CONTENTS

2512	Exterior Plaster	385
2513	Exposed Aggregate Plaster	386
CHAPTER 26 PLASTIC.....		389
Section		
2601	General	389
2602	Definitions.....	389
2603	Foam Plastic Insulation	389
2604	Interior Finish and Trim.....	392
2605	Plastic Veneer	393
2606	Light-Transmitting Plastics	393
2607	Light-Transmitting Plastic Wall Panels.....	394
2608	Light-Transmitting Plastic Glazing	395
2609	Light-Transmitting Plastic Roof Panels	395
2610	Light-Transmitting Plastic Skylight Glazing ..	396
2611	Light-Transmitting Plastic Interior Signs	397
2612	Fiber-Reinforced Polymer	397
2613	Reflective Plastic Core Insulation	397
CHAPTER 27 ELECTRICAL		401
Section		
2701	General	401
2702	Emergency and Standby Power Systems.....	401
CHAPTER 28 MECHANICAL SYSTEMS		405
Section		
2801	General	405
CHAPTER 29 PLUMBING SYSTEMS		407
Section		
2901	General	407
2902	Minimum Plumbing Facilities	407
CHAPTER 30 ELEVATORS AND CONVEYING SYSTEMS.....		413
Section		
3001	General	413
3002	Hoistway Enclosures	413
3003	Emergency Operations.....	414
3004	Hoistway Venting	415
3005	Conveying Systems.....	415
3006	Machine Rooms	416
3007	Fire Service Access Elevator	417
3008	Occupant Evacuation Elevators	418
CHAPTER 31 SPECIAL CONSTRUCTION.....		423
Section		
3101	General	423
3102	Membrane Structures	423
3103	Temporary Structures	424
3104	Pedestrian Walkways and Tunnels.....	424
3105	Awnings and Canopies	425
3106	Marquees.....	426
3107	Signs	426
3108	Telecommunication and Broadcast Towers...	426
3109	Swimming Pool Enclosures and Safety Devices	426
3110	Automatic Vehicular Gates	430
3111	Solar Photovoltaic Panels/Modules	430
3112	Patio Covers	431 ^L _A
CHAPTER 31A SYSTEMS FOR WINDOW CLEANING OR EXTERIOR BUILDING MAINTENANCE.....		433
CHAPTER 31B PUBLIC SWIMMING POOLS		437
Section		
3101B	Scope	437
3102B	Definitions.....	437
3103B	Plan Review	438
3104B	Construction	439
3105B	Plan Compliance Inspections.....	439
3106B	Special Requirements for Spray Grounds....	439
3107B	Alternative Equipment, Materials and Methods of Construction	440
3108B	Pool Construction	440
3109B	Pool Geometry	440
3110B	Permanent Markings.....	441
3111B	Steps, Recessed Steps, Ladders and Stairs ..	441
3112B	Handholds	442
3113B	Diving Boards and Platforms.....	442
3114B	Pool Decks	442
3115B	Pool Lighting	442
3116B	Bathhouse, Dressing, Shower and Toilet Facilities	443
3117B	Drinking Fountains.....	443
3118B	House Bibbs	443
3119B	Pool Enclosure	443
3120B	Required Signs	444
3121B	Indoor Pool Ventilation	445
3122B	Pool Equipment Enclosure.....	445

3123B	General Requirements	445	3102C	Radiation Shielding Barriers	465
3124B	Turnover Time.....	446	3103C	Medical Radiographic and Photofluorographic Installations	465
3125B	Recirculation Piping System and Components	446	3104C	Medical Therapeutic X-Ray Installations	465
3126B	Recirculation Pump Capacity.....	446	CHAPTER 31D FOOD ESTABLISHMENTS 469		
3127B	Water Supply Inlets	446	Section		
3128B	Filters (All Types).....	446	3101D	Scope	469
3129B	Rapid Sand Pressure Filters.....	446	3102D	Definitions.....	469
3130B	Diatomaceous Earth Filters	447	3103B	Building and Structures	469
3131B	High-Rate Sand Filters.....	447	CHAPTER 31E RESERVED 471		
3132B	Cartridge Filters	447	CHAPTER 31F MARINE OIL TERMINALS..... 475		
3133B	Chemical Feeders	447	Section		
3134B	Disinfectant Feeders.....	447	3101F	Introduction.....	475
3135B	Gas Chlorination Equipment Room.....	448	3102F	Audit and Inspection	476
3136B	Pool Skimming Systems.....	448	3103F	Structural Loading Criteria	490
3137B	Pool Fittings	449	3104F	Seismic Analysis and Structural Performance.....	505
3138B	Spa Pool Special Requirements.....	449	3105F	Mooring and Berthing Analysis and Design.....	512
3139B	Solar Heating Installations.....	453	3106F	Geotechnical Hazards and Foundations	517
3140B	Cleaning Systems	453	3107F	Structural Analysis and Design of Components.....	521
3141B	Wastewater Disposal.....	453	3108F	Fire Prevention, Detection and Suppression.....	535
3142B	Reserved	453	3109F	Piping and Pipelines	539
3143B	Reserved	453	3110F	Mechanical and Electrical Equipment.....	542
3144B	Reserved	453	3111F	Electrical Systems.....	546
3145B	Reserved	453	CHAPTER 32 ENCROACHMENTS INTO THE PUBLIC RIGHT-OF-WAY 551		
3146B	Reserved	453	Section		
3147B	Reserved	453	3201	General	551
3148B	Reserved	453	3202	Encroachments	551
3149B	Reserved	453	CHAPTER 33 SAFEGUARDS DURING CONSTRUCTION 555		
3150B	Reserved	453	Section		
3151B	Reserved	453	3301	General	555
3152B	Reserved	453	3302	Construction Safeguards	555
3153B	Reserved	453	3303	Demolition	555
3154B	Reserved	453	3304	Site Work.....	555
3155B	Reserved	453	3305	Toilet Facilities During Construction	556
3156B	Reserved	453	3306	Protection of Pedestrians	556
3157B	Reserved	454	3307	Protection of Adjoining Property	557
3158B	Reserved	454			^L _A
3159B	Reserved	454			
3160B	Ground Fault Circuit Interrupters	454			
3161B	Wading Pools	454			
3162B	Anti-Entrapment Devices and Systems.....	455			
CHAPTER 31C RADIATION..... 465					
Section					
3101C	Scope	465			

TABLE OF CONTENTS

L A L A L A L A A	3308 Temporary Use of Streets, Alleys and Public Property	558	3405A Repairs.....	599			
L A L A L A L A A	3309 Fire Extinguishers.....	558	3406A Fire Escapes	600			
L A L A L A L A A	3310 Means of Egress	558	3407A Glass Replacement.....	601			
L A L A L A L A A	3311 Standpipes	558.1	3408A Change of Occupancy.....	601			
L A L A L A L A A	3312 Automatic Sprinkler System.....	558.1	3409A Historic Buildings.....	601			
L A L A L A L A A	3313 Water Supply for Fire Protection	558.1	3410A Moved Structures	601			
CHAPTER 34 EXISTING STRUCTURES..... 561							
Section							
3401	General	561	3412A Compliance Alternatives for Additions, Alterations, Repairs and Seismic Retrofit to Existing Structures	602			
3402	Definitions.....	562	3413A Modifications to ASCE 41.....	603			
L A 3403	Additions.....	563	3414A Peer Review Requirements	605			
3404	Alterations.....	563	3415A Earthquake Monitoring Instruments for Existing Buildings	606			
3405	Repairs.....	564	3416A Compliance Alternatives for Services/Systems And Utilities	606			
L A 3406	Fire Escapes	566	3417A Compliance Alternatives For Means Of Egress	608			
L A 3407	Glass Replacement	566	3418A Removal Of Hospital Buildings From General Acute Care Services	609			
3408	Change of Occupancy.....	566					
L A 3409	Historic Buildings.....	567	CHAPTER 35 REFERENCED STANDARDS..... 617				
L A 3410	Moved Structures	567					
L A 3411	Accessibility for Existing Buildings	567	CHAPTER 61 SPECIAL HAZARD AREAS 649				
A 3412	Compliance Alternatives.....	568.1	Section				
3413	Existing Group R-1 and Group R-2 Occupancies [SFM]	578	6101	Impact Hazard Glazing in Existing Buildings	649		
3414	Existing High-Rise Buildings [SFM]	581	6102	Rubbish Rooms.....	649		
3415	Existing Group I Occupancies [SFM].....	583	6103	Shafts, Pits and Similar Excavation—Misdemeanor	649		
3416	Existing Group L Occupancies [SFM]	583	6104	Fire Districts	649		
3417	Earthquake Evaluation and Design for Retrofit of Existing Buildings	584	6105	Separation from Oil Wells	649		
3418	Definitions.....	587	6109	Swimming Pools and Other Bodies of Water—Protective Devices Required	650		
3419	Seismic Criteria Selection for Existing Buildings	588					
3420	Method A	590	CHAPTER 62 SIGNS..... 651				
3421	Method B.....	591	Section				
3422	Peer Review Requirements	591	6201	General Provisions	651		
3423	Additional Requirements for Public Schools and Community Colleges.....	592	6202	Definitions.....	652		
3424	Additional Requirements for Skilled Nursing Facilities and Intermediate Care Facilities [OSHPD 2].....	593	6203	Location.....	652		
CHAPTER 34A EXISTING STRUCTURES 597							
Section							
3401A	General	597	6204	Identification.....	653		
3402A	Definitions.....	597	6205	Design and Construction	653		
3403A	Additions.....	598	6206	Electrical	654		
3404A	Alterations.....	598	6207	Combustible Materials	654		
			6208	Animated Devices.....	654		

TABLE OF CONTENTS

A 8807	Historical Buildings	729	9111	Required Building Maintenance	756
A 8808	Analysis and Design.....	729	9112	Violations—Penalties for Disregarding Department Orders	756
A 8809	Materials of Construction.....	730			
A 8810	Information Required on Plans	732			
A 8811	Design Check—Compatibility of Roof Diaphragm Stiffness to Unreinforced Masonry Wall Out-of-plane Stability	733			
A 8812	Violations	734			
A 8813	Special Requirements for Vacant Buildings	734			
	CHAPTER 89 ABATEMENT OF BUILDINGS, STRUCTURES, PREMISES AND PORTIONS THEREOF WHICH CONSTITUTE A NUISANCE OR ARE HAZARDOUS, OR SUBSTANDARD	741			
	Section				
A 8901	General	741	9201	General	759
A 8902	Definitions.....	741	9202	Definitions.....	759
A 8903	Abatement Procedures	744	9203	Structural Weaknesses	760
A 8904	Special Provisions for Vacant Property Graffiti Removal.....	747	9204	Strengthening Requirements	760
A 8905	Special Provisions for Vacating, Barricading, Removing or Demolishing Buildings or Structures without Notice....	749	9205	Quality Control	763
A 8906	Payment and Recovery of Repair and Demolition Funds	750			
A 8907	Abatement of Public Nuisance Conditions Related to a Declared Local Emergency ...	750			
A 8908	Special Provisions for the Repair of Welded Steel Moment Frame Buildings Located in High Earthquake Damaged Areas.....	751			
	CHAPTER 91 EARTHQUAKE HAZARD REDUCTION IN EXISTING TILT-UP CONCRETE WALL BUILDINGS	753			
	Section				
A 9101	Purpose	753	9401	Purpose	771
A 9102	Scope	753	9402	Scope	771
A 9103	Definitions.....	753	9403	Definitions.....	771
A 9104	Rating Classifications.....	753	9404	General Requirements	771
A 9105	General Requirements	753	9405	Predesign Investigation	771
A 9106	Administration	754	9406	Analysis and Design.....	772
A 9107	Historical Buildings	754	9407	Historical Buildings	775
A 9108	Analysis and Design.....	754	9408	Quality Control.....	775
A 9109	Materials of Construction.....	756	9409	Information Required on Plans	775
A 9110	Information Required on Plans	756			
	CHAPTER 92 VOLUNTARY—EARTHQUAKE HAZARD REDUCTION IN EXISTING WOOD FRAME RESIDENTIAL BUILDINGS WITH WEAK CRIPPLE WALLS AND UNBOLTED SILL PLATES	759			
	Section				
	CHAPTER 93 VOLUNTARY—EARTHQUAKE HAZARD REDUCTION IN EXISTING WOOD FRAME RESIDENTIAL BUILDINGS WITH SOFT, WEAK OR OPEN FRONT WALLS	765			
	Section				
	CHAPTER 94 VOLUNTARY—EARTHQUAKE HAZARD REDUCTION IN EXISTING HILLSIDE BUILDINGS	771			
	Section				

TABLE OF CONTENTS

CHAPTER 95 VOLUNTARY—EARTHQUAKE HAZARD REDUCTION IN EXISTING REINFORCED CONCRETE BUILDINGS AND CONCRETE FRAME BUILDINGS WITH MASONRY FILL	777
Section	
9501 Purpose	777
9502 Scope	777
9503 Definitions.....	777
9504 Reserved	777
9505 General Requirements	777
9506 Reserved	777
9507 Reserved	777
9508 Criteria Selection	777
9509 Dynamic Lateral Analysis Procedure	778
9510 Equivalent Lateral Force Procedure	780
9511 Simplified Analysis Procedure	781
9512 Minimum Requirements for a Limited Structural Analysis	782
9513 Determination of the Stress-strain Relationship of Existing Unreinforced Masonry.....	782
9514 Evaluation of Existing Structural Conditions ..	784
9515 Materials of Construction.....	784
9516 Information Required on the Plans	784
CHAPTER 96 VOLUNTARY—EARTHQUAKE HAZARD REDUCTION IN EXISTING REINFORCED CONCRETE AND REINFORCED MASONRY WALL BUILDINGS WITH FLEXIBLE DIAPHRAGMS	787
Section	
9601 Purpose	787
9602 Scope	787
9603 Definitions.....	787
9604 Analysis and Design.....	787
9605 Materials of Construction.....	789
9606 Information Required on Plans	789
EXCERPTS FROM RELATED LOS ANGELES CITY CODES LOS ANGELES MUNICIPAL CODE	791
Section	
28.10 Balloon-Use for Advertising	791
28.11 Captive Balloons and Similar Devices	791
Division A Miscellaneous	793
Section	
96.02 Excavating, Depositing, Dumping—Earth, Sand, Gravel, Etc.—Where Prohibited	793
96.05 Declaring Certain Area Subject to Inundation and Prohibiting Construction of Certain Buildings Therein	793
Division C Fabricator Approvals.....	795
Section	
92.200 Statement of Purpose	795
96.201 Definitions.....	795
96.203 Scope and Effect of Approvals	795
96.204 Issuance of Approval—Procedures	795
96.205 Suspension and Revocation of Appeals	797
Division D Report of Residential Property Records and Pending and Recorded Liens	799
Section	
96.300 Intent	799
96.301 Definitions.....	799
96.302 Reports Required	799
96.303 Application	799
96.304 Contents of Reports	800
96.305 Fee for Reports	801
96.306 Effective Period of Report	801
96.307 Delivery of the Report	801
96.308 Exceptions.....	801
96.309 Non-Compliance Not to Invalidate Sale or Exchange: Exception	802
96.309.1 Information Furnished as Ground for Rescission	802
CHAPTER IX	
ARTICLE 8 GENERAL ADMINISTRATIVE PROVISIONS	803
Section	
98.0103 Definitions.....	803
98.0105 Inspections	803
98.0109 Express Permits	804
Division 4 Appeals and Request for Slight Modification Appeal Fees—Availability of Records for Inspection—Board Related Services—Investigation— Powers of Department and Board and Penalties	805
Section	

<p>L 98.0402 Code Enforcement Costs Incurred: Investigation Costs, Fees and Fines..... 805</p> <p>L 98.0403.1 Powers of the Department and the Board 805</p> <p>L 98.0403.2 Procedures for Appeals to the Department and to the Board..... 808</p> <p>L 98.0404 Extra Territorial Inspections 808</p> <p>L 98.0405 Charges for Printed Materials and Miscellaneous Type Services..... 809</p> <p>L 98.0406 Inspection Fees for Off Hours Inspection.... 809</p> <p>L 98.0407 Special Enforcement Procedure Fees 809</p> <p>L 98.0408 Issuance of Citations by Designated Employees..... 809</p> <p>L 98.0410 Surcharge for One-stop Permit Center 810</p> <p>L 98.0411 Noncompliance Fees..... 810</p> <p>L 98.0412 Inspection Fees 811</p> <p>L 98.0414 Certification Fees 811</p> <p>L 98.0415 Clerical, Issuing or Research Fees and Miscellaneous Fees..... 811</p> <p>L 98.0416 Building and Safety Systems Development Surcharge 812</p> <p>L 98.0417 Processing Fees for Miscellaneous Certificates of Compliance..... 812</p> <p>L 98.0418 Surcharge for Development of Automated Systems for the Department of City Planning 812</p> <p>L 98.0420 Refunds of Department Fees 812</p> <p>L 98.0421 Code Violation Inspection Fee..... 812</p> <p>L 98.0422 Fees for Off Hours Plan Check and Other Services..... 813</p> <p>A</p> <p>Division 5 Testing Procedures, Regulations and Administration ... 815</p> <p>Section</p> <p>A 98.051 Alternate Materials, Devices and Methods of Construction 815</p> <p>A 98.0502 Appliances, Fixtures and Equipment..... 817</p> <p>A 98.0503 Testing Agencies..... 821</p> <p>A 98.0504 Environmental Reports..... 822</p> <p>A</p> <p>Division 6 Expiration and Revocation of Permits, Plan Check and Slight Modifications and Alternatives 823</p> <p>Section</p> <p>A 98.0601 Purpose 823</p> <p>A 98.0602 Expiration of Permits 823</p> <p>A 98.0603 Expiration of Plan Check 823</p> <p>A 98.0604 Expiration of Slight Modifications and Alternatives..... 823</p> <p>A 98.0606 Time Limits of Requests for Extension..... 824</p>	<p>Division 7 Abatement of Vacant Buildings 825</p> <p>Section</p> <p>98.0701 Declaration of Purpose 825</p> <p>98.0702 Definitions..... 825</p> <p>98.0703 Enforcement Authority..... 825</p> <p>98.0704 Enforcement Remedies..... 825</p> <p>98.0705 Strict Liability Offenses..... 825</p> <p>98.0706 Duty to Clean, Fence and Barricade 825</p> <p>98.0707 Administrative Abatement Procedures for Vacant and Unsecured Structures..... 825</p> <p>98.0708 Standards for Fencing and Barricading a Vacant Structure..... 826</p> <p>98.0709 Entry or Interference with Notice Prohibited 826</p> <p>98.0710 Continuous Abatement Authority 826</p> <p>98.0711 Abatement Cost..... 826</p> <p>98.0712 Continuous Public Nuisances 826</p> <p>98.0713 Duty to File a Statement of Intent 826</p> <p>98.0714 Posting Name of Responsible Person 827</p> <p>98.0715 Reinspection Fee..... 827</p> <p>98.0716 Vacant Structure Penalty 827</p> <p>98.0717 Procedures for Barricaded and Vacant Structure Penalty..... 827</p> <p>98.0718 Appeal of Barricaded and Vacant Structure Penalty..... 828</p> <p>98.0719 Administrative Enforcement Hearing 828</p> <p>98.0720 Failure to Pay Penalties 828</p> <p>98.0721 Allocation of Vacant Building Penalty 828</p> <p>A</p> <p>CHAPTER XI</p> <p>ARTICLE 1 NOISE REGULATION 829</p> <p>Section</p> <p>111.00 Declaration of Policy 829</p> <p>111.01 Definitions..... 829</p> <p>111.02 Sound Level Measurement Procedure and Criteria..... 829</p> <p>111.03 Minimum Ambient Noise Level 830</p> <p>111.04 Violations: Additional Remedies, Injunctions..... 830</p> <p>111.05 Enforcement, Citations..... 831</p> <p>A</p> <p>ARTICLE 2 SPECIAL NOISE SOURCES..... 831</p> <p>Section</p> <p>112.01 Radios, Television Sets, and Similar Devices..... 831</p> <p>112.02 Air Conditioning, Refrigeration, Heating, Pumping, Filtering Equipment..... 831</p> <p>A</p>
---	---

TABLE OF CONTENTS

A	112.03 Construction Noise	831
A	112.04 Powered Equipment Intended for Repetitive Use in Residential Areas and Other Machinery, Equipment, and Devices	831
A	112.05 Maximum Noise Level of Powered Equipment or Powered Hand Tools.....	832
A	112.06 Places of Public Entertainment	832
A	ARTICLE 6 GENERAL NOISE.....	832
A	Section	
A	116.01 Loud, Unnecessary and Unusual Noise.....	832
A	LOS ANGELES ADMINISTRATIVE CODE	
A	DIVISION 19, CHAPTER 10 PROCEDURE FOR THE REMOVAL OF ILLEGAL SIGNS	833
A	19.100 Definitions.....	833
A	19.101 Illegal Signs – Nuisance.....	833
A	19.102 Entry Upon Vacant Private Property	833
A	19.103 Interference Prohibited.....	833
A	19.104 Notice of Illegal Signs	833
A	19.105 Removal of Illegal Sign	833
A	19.106 Collection of Costs	833
A	INDEX.....	835
A	HISTORY NOTE.....	875