

# TABLE OF CONTENTS

<p><b>CHAPTER 1 SCOPE AND ADMINISTRATION . . . . 1</b></p> <p><b>PART 1—SCOPE AND APPLICATION. . . . . 1</b></p> <p>Section</p> <p>WAC 51-50-001              Authority . . . . . 1</p> <p>WAC 51-50-002              Purpose . . . . . 1</p> <p>WAC 51-50-003              International Building Code . . . . . 1</p> <p>WAC 51-50-005              International Building Code Requirements              for Barrier-free Accessibility . . . . . 1</p> <p>WAC 51-50-007              Exceptions . . . . . 1</p> <p>WAC 51-50-008              Implementation. . . . . 1</p> <p>WAC 51-50-009              Recyclable Materials, Compost, and Solid              Waste Storage. . . . . 2</p> <p>101 General . . . . . 2</p> <p>102 Applicability. . . . . 2</p> <p><b>PART 2—ADMINISTRATION AND          ENFORCEMENT . . . . . 3</b></p> <p>103 Department of Building Safety. . . . . 3</p> <p>104 Duties and Powers of Building Official . . . . . 3</p> <p>105 Permits . . . . . 5</p> <p>106 Floor and Roof Design Loads . . . . . 6</p> <p>107 Submittal Documents . . . . . 7</p> <p>108 Temporary Structures and Uses . . . . . 8</p> <p>109 Fees. . . . . 8</p> <p>110 Inspection . . . . . 9</p> <p>111 Certificate of Occupancy . . . . . 10</p> <p>112 Service Utilities . . . . . 10</p> <p>113 Board of Appeals . . . . . 10</p> <p>114 Violations . . . . . 11</p> <p>115 Stop Work Order . . . . . 11</p> <p>116 Unsafe Structures and Equipment . . . . . 11</p> <p><b>CHAPTER 2 DEFINITIONS . . . . . 13</b></p> <p>Section</p> <p>201 General . . . . . 13</p>	<p>202 Definitions . . . . . 13</p> <p><b>CHAPTER 3 OCCUPANCY          CLASSIFICATION AND USE. . . . . 13</b></p> <p>Section</p> <p>301 Scope . . . . . 45</p> <p>302 Occupancy Classification and Use Designation . . . 45</p> <p>303 Assembly Group A . . . . . 45</p> <p>304 Business Group B . . . . . 46</p> <p>305 Educational Group E . . . . . 46</p> <p>306 Factory Group F. . . . . 47</p> <p>307 High-hazard Group H . . . . . 47</p> <p>308 Institutional Group I . . . . . 51</p> <p>309 Mercantile Group M . . . . . 53</p> <p>310 Residential Group R. . . . . 53</p> <p>311 Storage Group S. . . . . 53</p> <p>312 Utility and Miscellaneous Group U. . . . . 54</p> <p><b>CHAPTER 4 SPECIAL DETAILED          REQUIREMENTS BASED          ON OCCUPANCY AND USE. . . . . 55</b></p> <p>Section</p> <p>401 Scope . . . . . 55</p> <p>402 Covered Mall and Open Mall Buildings . . . . . 55</p> <p>403 High-rise Buildings . . . . . 59</p> <p>404 Atriums . . . . . 62</p> <p>405 Underground Buildings . . . . . 63</p> <p>406 Motor-vehicle-related Occupancies. . . . . 64</p> <p>407 Group I-2 . . . . . 68</p> <p>408 Group I-3 . . . . . 71</p> <p>409 Motion Picture Projection Rooms . . . . . 73</p> <p>410 Stages, Platforms and Technical              Production Areas . . . . . 74</p> <p>411 Special Amusement Buildings. . . . . 76</p> <p>412 Aircraft-related Occupancies . . . . . 76</p> <p>413 Combustible Storage . . . . . 80</p> <p>414 Hazardous Materials . . . . . 80</p> <p>415 Groups H-1, H-2, H-3, H-4 and H-5 . . . . . 83</p> <p>416 Spray Application of Flammable Finishes. . . . . 93</p> <p>417 Drying Rooms . . . . . 94</p> <p>418 Organic Coatings . . . . . 94</p> <p>419 Live/work Units . . . . . 94</p>
--	---

**TABLE OF CONTENTS**

420 Groups I-1, R-1, R-2 and R-3. . . . . 95  
421 Hydrogen Fuel Gas Rooms . . . . . 97  
422 Ambulatory Care Facilities . . . . . 98  
423 Storm Shelters . . . . . 98  
424 Children’s Play Structures . . . . . 99  
425 Hyperbaric Facilities . . . . . 99  
426 Combustible Dusts,  
    Grain Processing and Storage. . . . . 99  
427 Medical Gas Systems . . . . . 100  
428 Higher Education Laboratories . . . . . 101  
429 Electric Vehicle Charging Infrastructure . . . . . 102

**CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREAS . . . . . 103**

Section

501 General . . . . . 103  
502 Building Address . . . . . 103  
503 General Building Height and Area Limitations . . . 103  
504 Building Height and Number of Stories. . . . . 104  
505 Mezzanines and Equipment Platforms. . . . . 105  
506 Building Area . . . . . 108  
507 Unlimited Area Buildings . . . . . 112  
508 Mixed Use and Occupancy. . . . . 114  
509 Incidental Uses . . . . . 115  
510 Special Provisions . . . . . 117

**CHAPTER 6 TYPES OF CONSTRUCTION . . . . . 119**

Section

601 General . . . . . 119  
602 Construction Classification . . . . . 119  
603 Combustible Material in  
    Types I and II Construction . . . . . 123

**CHAPTER 7 FIRE AND SMOKE PROTECTION FEATURES . . . . . 125**

Section

701 General . . . . . 125  
702 Multiple-Use Fire Assemblies . . . . . 125  
703 Fire Resistance Ratings and Fire Tests . . . . . 125  
704 Fire Resistance Rating of Structural Members . . . . 126  
705 Exterior Walls. . . . . 128  
706 Fire Walls . . . . . 133  
707 Fire Barriers . . . . . 135  
708 Fire Partitions . . . . . 137  
709 Smoke Barriers . . . . . 138

710 Smoke Partitions . . . . . 138  
711 Floor and Roof Assemblies . . . . . 139  
712 Vertical Openings . . . . . 140  
713 Shaft Enclosures. . . . . 141  
714 Penetrations . . . . . 143  
715 Fire-resistant Joint Systems . . . . . 146  
716 Opening Protectives. . . . . 146  
717 Ducts and Air Transfer Openings . . . . . 153  
718 Concealed Spaces. . . . . 158  
719 Fire-resistance Requirements for Plaster . . . . . 159  
720 Thermal- and Sound-insulating Materials . . . . . 160  
721 Prescriptive Fire Resistance. . . . . 161  
722 Calculated Fire Resistance. . . . . 161

**CHAPTER 8 INTERIOR FINISHES . . . . . 213**

Section

801 Scope . . . . . 213  
802 General. . . . . 213  
803 Wall and Ceiling Finishes . . . . . 213  
804 Interior Floor Finish. . . . . 216  
805 Combustible Materials in Types I  
    and II Construction . . . . . 217  
806 Decorative Materials and Trim . . . . . 217  
807 Insulation . . . . . 218  
808 Acoustical Ceiling Systems . . . . . 218

**CHAPTER 9 FIRE PROTECTION AND LIFE SAFETY SYSTEMS. . . . . 219**

Section

901 General. . . . . 219  
902 Fire Pump and Riser Room Size . . . . . 220  
903 Automatic Sprinkler Systems . . . . . 220  
904 Alternative Automatic  
    Fire-extinguishing Systems . . . . . 227  
905 Standpipe Systems . . . . . 229  
906 Portable Fire Extinguishers . . . . . 232  
907 Fire Alarm and Detection Systems . . . . . 234  
908 Emergency Alarm Systems . . . . . 245  
909 Smoke Control Systems. . . . . 245  
910 Smoke and Heat Removal . . . . . 253  
911 Fire Command Center . . . . . 254  
912 Fire Department Connections . . . . . 256  
913 Fire Pumps . . . . . 256  
914 Emergency Responder Safety Features . . . . . 257

915 Carbon Monoxide Detection ..... 257  
 916 Gas Detection Systems ..... 259  
 917 Mass Notification Systems ..... 259  
 918 Emergency Responder Radio Coverage ..... 259

**CHAPTER 10 MEANS OF EGRESS..... 261**

Section  
 1001 Administration ..... 261  
 1002 Maintenance and Plans ..... 261  
 1003 General Means of Egress ..... 261  
 1004 Occupant Load ..... 262  
 1005 Means of Egress Sizing ..... 264  
 1006 Number of Exits and  
     Exit Access Doorways ..... 265  
 1007 Exit and Exit Access  
     Doorway Configuration ..... 268  
 1008 Means of Egress Illumination ..... 268  
 1009 Accessible Means of Egress ..... 269  
 1010 Doors, Gates and Turnstiles ..... 272  
 1011 Stairways ..... 281  
 1012 Ramps ..... 285  
 1013 Exit Signs ..... 286  
 1014 Handrails ..... 287  
 1015 Guards ..... 288  
 1016 Exit Access ..... 290  
 1017 Exit Access Travel Distance ..... 290  
 1018 Aisles ..... 291  
 1019 Exit Access Stairways and Ramps ..... 291  
 1020 Corridors ..... 292  
 1021 Egress Balconies ..... 294  
 1022 Exits ..... 294  
 1023 Interior Exit Stairways and Ramps ..... 294  
 1024 Exit Passageways ..... 296  
 1025 Luminous Egress Path Markings ..... 297  
 1026 Horizontal Exits ..... 298  
 1027 Exterior Exit Stairways and Ramps ..... 299  
 1028 Exit Discharge ..... 300  
 1029 Assembly ..... 301  
 1000 Emergency Escape and Rescue ..... 308

**CHAPTER 11 ACCESSIBILITY ..... 309**

Section  
 1101 General ..... 309  
 1102 Compliance ..... 310  
 1103 Scoping Requirements ..... 310

1104 Accessible Route ..... 310  
 1105 Accessible Entrances ..... 312  
 1106 Parking and Passenger Loading Facilities ..... 312  
 1107 Dwelling Units and Sleeping Units ..... 313  
 1108 Special Occupancies ..... 317  
 1109 Other Features and Facilities ..... 320  
 1110 Recreational Facilities ..... 324  
 1111 Signage ..... 326

**CHAPTER 12 INTERIOR ENVIRONMENT ..... 329**

Section  
 1201 General ..... 329  
 1202 Ventilation ..... 329  
 1203 Temperature Control ..... 333  
 1204 Lighting ..... 334  
 1205 Yards or Courts ..... 334  
 1206 Sound Transmission ..... 334  
 1207 Interior Space Dimensions ..... 335  
 1208 Access to Unoccupied Spaces ..... 335  
 1209 Mobile and Bathroom Requirements ..... 335

**CHAPTER 13 ENERGY EFFICIENCY ..... 337**

Section  
 1301 General ..... 337

**CHAPTER 14 EXTERIOR WALLS ..... 339**

Section  
 1401 General ..... 339  
 1402 Performance Requirements ..... 339  
 1403 Materials ..... 340  
 1404 Installation of Wall Coverings ..... 340  
 1405 Combustible Materials on the  
     Exterior Side of Exterior Walls ..... 346  
 1406 Metal Composite Materials (MCM) ..... 347  
 1407 Exterior Insulation and  
     Finish Systems (EIFS) ..... 349  
 1408 High-pressure Decorative Exterior-grade  
     Compact Laminates (HPL) ..... 349  
 1409 Plastic Composite Decking ..... 350

**CHAPTER 15 ROOF ASSEMBLIES AND  
 ROOFTOP STRUCTURES ..... 351**

Section  
 1501 General ..... 351  
 1502 Roof Drainage ..... 351  
 1503 Weather Protection ..... 351

**TABLE OF CONTENTS**

1504 Performance Requirements . . . . . 352  
 1505 Fire Classification . . . . . 353  
 1506 Materials . . . . . 354  
 1507 Requirements for Roof Coverings. . . . . 354  
 1508 Roof Insulation . . . . . 366  
 1509 Radiant Barriers Installed Above Deck. . . . . 366  
 1510 Rooftop Structures. . . . . 366  
 1511 Reroofing. . . . . 368  
 1512 Photovoltaic Panels and Modules . . . . . 369

**CHAPTER 16 STRUCTURAL DESIGN. . . . . 371**

Section  
 1601 General . . . . . 371  
 1602 Notations . . . . . 371  
 1603 Construction Documents . . . . . 371  
 1604 General Design Requirements. . . . . 372  
 1605 Load Combinations . . . . . 375  
 1606 Dead Loads . . . . . 377  
 1607 Live Loads. . . . . 377  
 1608 Snow Loads . . . . . 384  
 1609 Wind Loads . . . . . 384  
 1610 Soil Lateral Loads . . . . . 401  
 1611 Rain Loads. . . . . 401  
 1612 Flood Loads. . . . . 402  
 1613 Earthquake Loads . . . . . 402  
 1614 Atmospheric Ice Loads . . . . . 412  
 1615 Tsunami Loads . . . . . 412  
 1616 Structural Integrity . . . . . 412

**CHAPTER 17 SPECIAL INSPECTIONS AND TESTS. . . . . 425**

Section  
 1701 General . . . . . 425  
 1702 New Materials . . . . . 425  
 1703 Approvals . . . . . 425  
 1704 Special Inspections and Tests,  
     Contractor Responsibility  
     and Structural Observation . . . . . 426  
 1705 Required Special Inspections and Tests . . . . . 428  
 1706 Design Strengths of Materials . . . . . 437  
 1707 Alternative Test Procedure . . . . . 437  
 1708 In-situ Load Tests . . . . . 437  
 1709 Preconstruction Load Tests . . . . . 437

**CHAPTER 18 SOILS AND FOUNDATIONS . . . . . 439**

Section  
 1801 General . . . . . 439  
 1802 Design Basis . . . . . 439  
 1803 Geotechnical Investigations . . . . . 439  
 1804 Excavation, Grading and Fill . . . . . 441  
 1805 Dampproofing and Waterproofing . . . . . 442  
 1806 Presumptive Load-bearing Values of Soils . . . . . 442  
 1807 Foundation Walls, Retaining Walls  
     and Embedded Posts and Poles. . . . . 444  
 1808 Foundations. . . . . 449  
 1809 Shallow Foundations. . . . . 453  
 1810 Deep Foundations . . . . . 454

**CHAPTER 19 CONCRETE . . . . . 469**

Section  
 1901 General . . . . . 469  
 1902 Definitions . . . . . 469  
 1903 Specific Acceptance Tests and Materials . . . . . 469  
 1904 Durability Requirements. . . . . 470  
 1905 Modifications to ACI 318. . . . . 470  
 1906 Structural Plain Concrete . . . . . 472  
 1907 Minimum Slab Provisions . . . . . 472  
 1908 Shotcrete . . . . . 473

**CHAPTER 20 ALUMINUM. . . . . 475**

Section  
 2001 General . . . . . 475  
 2002 Materials . . . . . 475

**CHAPTER 21 MASONRY . . . . . 477**

Section  
 2101 General . . . . . 477  
 2102 Notations. . . . . 477  
 2103 Masonry Construction Materials . . . . . 477  
 2104 Construction . . . . . 478  
 2105 Quality Assurance. . . . . 478  
 2106 Seismic Design . . . . . 478  
 2107 Allowable Stress Design. . . . . 478  
 2108 Strength Design of Masonry . . . . . 479  
 2109 Empirical Design of Adobe Masonry . . . . . 479  
 2110 Glass Unit Masonry . . . . . 481  
 2111 Masonry Fireplaces. . . . . 481

2112 Masonry Heaters . . . . . 484  
 2113 Masonry Chimneys . . . . . 484  
 2114 Dry-stack Masonry . . . . . 488  
 2115 Emission Standards . . . . . 489

**CHAPTER 22 STEEL . . . . . 491**

Section

2201 General . . . . . 491  
 2202 Identification of Steel for Structural Purposes . . . 491  
 2203 Protection of Steel  
     for Structural Purposes . . . . . 491  
 2204 Connections . . . . . 491  
 2205 Structural Steel . . . . . 491  
 2206 Composite Structural Steel and  
     Concrete Structures . . . . . 492  
 2207 Steel Joists . . . . . 492  
 2208 Steel Cable Structures . . . . . 493  
 2209 Steel Storage Racks . . . . . 493  
 2210 Cold-formed Steel . . . . . 493  
 2211 Cold-formed Steel Light-frame Construction . . . 493

**CHAPTER 23 WOOD . . . . . 495**

Section

2301 General . . . . . 495  
 2302 Design Requirements . . . . . 495  
 2303 Minimum Standards and Quality . . . . . 495  
 2304 General Construction Requirements . . . . . 499  
 2305 General Design Requirements for  
     Lateral Force-resisting Systems . . . . . 512  
 2306 Allowable Stress Design . . . . . 514  
 2307 Load and Resistance Factor Design . . . . . 515  
 2308 Conventional Light-frame Construction . . . . . 515  
 2309 Wood Frame Construction Manual . . . . . 564

**CHAPTER 24 GLASS AND GLAZING . . . . . 567**

Section

2401 General . . . . . 567  
 2402 Glazing Replacement . . . . . 567  
 2403 General Requirements for Glass . . . . . 567  
 2404 Wind, Snow, Seismic and  
     Dead Loads on Glass . . . . . 567  
 2405 Sloped Glazing and Skylights . . . . . 569  
 2406 Safety Glazing . . . . . 570  
 2407 Glass in Handrails and Guards . . . . . 572  
 2408 Glazing in Athletic Facilities . . . . . 572

2409 Glass in Walkways, Elevator Hoistways  
 and Elevator Cars . . . . . 573

**CHAPTER 25 GYPSUM BOARD,  
 GYPSUM PANEL PRODUCTS  
 AND PLASTER . . . . . 575**

Section

2501 General . . . . . 575  
 2502 Performance . . . . . 575  
 2503 Inspection . . . . . 575  
 2504 Vertical and Horizontal Assemblies . . . . . 575  
 2505 Shear Wall Construction . . . . . 575  
 2506 Gypsum Board and Gypsum  
     Panel Product Materials . . . . . 575  
 2507 Lathing and Plastering . . . . . 576  
 2508 Gypsum Construction . . . . . 577  
 2509 Showers and Water Closets . . . . . 577  
 2510 Lathing and Murring for Cement  
     Plaster (Stucco) . . . . . 578  
 2511 Interior Plaster . . . . . 579  
 2512 Exterior Plaster . . . . . 579  
 2513 Exposed Aggregate Plaster . . . . . 580  
 2514 Reinforced Gypsum Concrete . . . . . 580

**CHAPTER 26 PLASTIC . . . . . 581**

Section

2601 General . . . . . 581  
 2602 Finish and Trim . . . . . 581  
 2603 Foam Plastic Insulation . . . . . 581  
 2604 Interior Finish and Trim . . . . . 587  
 2605 Plastic Veneer . . . . . 587  
 2606 Light-transmitting Plastics . . . . . 588  
 2607 Light-transmitting Plastic Wall Panels . . . . . 589  
 2608 Light-transmitting Plastic Glazing . . . . . 590  
 2609 Light-transmitting Plastic Roof Panels . . . . . 590  
 2610 Light-transmitting Plastic Skylight Glazing . . . . 591  
 2611 Light-transmitting Plastic Interior Signs . . . . . 592  
 2612 Plastic Composites . . . . . 592  
 2613 Fiber-reinforced Polymer . . . . . 592  
 2614 Reflective Plastic Core Insulation . . . . . 593

**CHAPTER 27 ELECTRICAL . . . . . 595**

Section

2701 General . . . . . 595  
 2702 Emergency and Standby Power Systems . . . . . 595

**TABLE OF CONTENTS**

**CHAPTER 28 MECHANICAL SYSTEMS..... 597**

Section  
2801 General ..... 597

**CHAPTER 29 PLUMBING SYSTEMS..... 599**

Section  
2901 General ..... 599  
2902 Minimum Plumbing Facilities..... 599

**CHAPTER 30 ELEVATORS AND CONVEYING SYSTEMS ..... 603**

Section  
3001 General ..... 603  
3002 Hoistway Enclosures ..... 603  
3003 Emergency Operations ..... 604  
3004 Conveying Systems ..... 604  
3005 Machine Rooms..... 605  
3006 Elevator Lobbies and Hoistway Opening Protection ..... 605  
3007 Fire Service Access Elevator..... 606  
3008 Occupant Evacuation Elevators..... 608  
3009 Hoistway Venting ..... 610

**CHAPTER 31 SPECIAL CONSTRUCTION ..... 611**

Section  
3101 General ..... 611  
3102 Membrane Structures ..... 611  
3103 Temporary Structures ..... 612  
3104 Pedestrian Walkways and Tunnels ..... 612  
3105 Awnings and Canopies ..... 614  
3106 Marquees..... 614  
3107 Signs ..... 614  
3108 Telecommunication and Broadcast Towers ..... 614  
3109 Swimming Pools, Spas and Hot Tubs..... 615  
3110 Automatic Vehicle Gates..... 615  
3111 Solar Energy Systems..... 615  
3112 Greenhouse ..... 615  
3113 Relocatable Buildings ..... 616  
3114 Fixed Guideway Transit and Passenger Rail Systems..... 616

**CHAPTER 32 ENCROACHMENTS INTO THE PUBLIC RIGHT-OF-WAY..... 617**

Section  
3201 General ..... 617  
3202 Encroachments ..... 617

**CHAPTER 33 SAFEGUARDS DURING CONSTRUCTION ..... 619**

Section  
3301 General ..... 619  
3302 Construction Safeguards..... 619  
3303 Demolition ..... 619  
3304 Site Work ..... 619  
3305 Sanitary ..... 620  
3306 Protection of Pedestrians ..... 620  
3307 Protection of Adjoining Property ..... 621  
3308 Temporary Use of Streets, Alleys and Public Property ..... 621  
3309 Fire Extinguishers..... 621  
3310 Means of Egress ..... 622  
3311 Standpipes..... 622  
3312 Automatic Sprinkler System..... 622  
3313 Water Supply for Fire Protection ..... 622  
3314 Fire Watch During Construction..... 622

**CHAPTER 34 RESERVED..... 623**

**CHAPTER 35 REFERENCED STANDARDS..... 625**

**APPENDIX A EMPLOYEE QUALIFICATIONS..... 655**

Section  
A101 Building Official Qualifications ..... 655  
A102 Referenced Standards ..... 655

**APPENDIX B BOARD OF APPEALS ..... 657**

Section  
B101 General ..... 657

**APPENDIX C GROUP U—AGRICULTURAL BUILDINGS ..... 659**

Section  
C101 General ..... 659  
C102 Allowable Height and Area ..... 659  
C103 Mixed Occupancies..... 659  
C104 Exits ..... 659

**APPENDIX D FIRE DISTRICTS ..... 661**

Section  
D101 General ..... 661  
D102 Building Restrictions ..... 661  
D103 Changes to Buildings ..... 662

D104 Buildings Located Partially in the Fire District ..... 662  
 D105 Exceptions to Restrictions in Fire District ..... 662  
 D106 Referenced Standards ..... 663

**APPENDIX E SUPPLEMENTARY ACCESSIBILITY REQUIREMENTS ..... 665**

Section  
 E101 General ..... 665  
 E102 Definitions ..... 665  
 E103 Accessible Route ..... 665  
 E104 Special Occupancies ..... 665  
 E105 Other Features and Facilities ..... 666  
 E106 Telephones ..... 666  
 E107 Signage ..... 667  
 E108 Bus Stops ..... 667  
 E109 Transportation Facilities and Stations ..... 668  
 E110 Airports ..... 669  
 E111 Referenced Standards ..... 669

**APPENDIX F RODENTPROOFING ..... 671**

Section  
 F101 General ..... 671

**APPENDIX G FLOOD-RESISTANT CONSTRUCTION ..... 673**

Section  
 G101 Administration ..... 673  
 G102 Applicability ..... 673  
 G103 Powers and Duties ..... 673  
 G104 Permits ..... 674  
 G105 Variances ..... 675  
 G201 Definitions ..... 676  
 G301 Subdivisions ..... 676  
 G401 Site Improvement ..... 676  
 G501 Manufactured Homes ..... 677  
 G601 Recreational Vehicles ..... 677  
 G701 Tents ..... 677  
 G801 Other Building Work ..... 677  
 G901 Temporary Structures and Temporary Storage ..... 678  
 G1001 Utility and Miscellaneous Group U ..... 678  
 G1101 Referenced Standards ..... 678

**APPENDIX H SIGNS ..... 679**

Section  
 H101 General ..... 679  
 H102 Definitions ..... 679  
 H103 Location ..... 679  
 H104 Identification ..... 680  
 H105 Design and Construction ..... 680  
 H106 Electrical ..... 680  
 H107 Combustible Materials ..... 680  
 H108 Animated Devices ..... 680  
 H109 Ground Signs ..... 681  
 H110 Roof Signs ..... 681  
 H111 Wall Signs ..... 681  
 H112 Projecting Signs ..... 681  
 H113 Marquee Signs ..... 682  
 H114 Portable Signs ..... 682  
 H115 Referenced Standards ..... 682

**APPENDIX I RATIO COVERS ..... 683**

Section  
 I101 General ..... 683  
 I102 Definition ..... 683  
 I103 Exterior Walls and Openings ..... 683  
 I104 Height ..... 683  
 I105 Structural Provisions ..... 683

**APPENDIX J GRADING ..... 685**

Section  
 J101 General ..... 685  
 J102 Definitions ..... 685  
 J103 Permits Required ..... 685  
 J104 Permit Application and Submittals ..... 686  
 J105 Inspections ..... 686  
 J106 Excavations ..... 686  
 J107 Fills ..... 686  
 J108 Setbacks ..... 686  
 J109 Drainage and Terracing ..... 688  
 J110 Erosion Control ..... 688  
 J111 Referenced Standards ..... 688

**APPENDIX K ADMINISTRATIVE PROVISIONS ..... 689**

Section  
 K101 General ..... 689

**TABLE OF CONTENTS**

K102 Applicability ..... 689  
K103 Permits..... 689  
K104 Construction Documents..... 690  
K105 Alternative Engineered Design..... 690  
K106 Required Inspections..... 690  
K107 Prefabricated Construction..... 690  
K108 Testing..... 691  
K109 Reconnection..... 691  
K110 Condemning Electrical Systems..... 691  
K111 Electrical Provisions..... 691

**APPENDIX L EARTHQUAKE RECORDING  
INSTRUMENTATION..... 693**

L101 General..... 693

**APPENDIX M TSUNAMI-GENERATED  
FLOOD HAZARD ..... 695**

M101 Refuge Structures for Vertical Evacuation  
from Tsunami-generated Flood Hazard ..... 695  
M102 Referenced Standards..... 695

**APPENDIX N REPLICABLE BUILDINGS..... 697**

N101 Administration..... 697  
N102 Definitions..... 697  
N103 Replicable Design Requirements..... 697  
N104 Replicable Design Submittal Requirements..... 697  
N105 Review and Approval of Replicable Design..... 698  
N106 Site-specific Application of  
Approved Replicable Design..... 698  
N107 Site-specific Review and Approval of  
Replicable Design..... 698

**INDEX..... 699**