	Dlc
1	CITY OF SEATTLE
2	ORDINANCE
3	COUNCIL BILL
4 5 6 7 8 9 10 11 12	 title AN ORDINANCE relating to the Seattle Existing Building Code; amending Section 22.110.010 of the Seattle Municipal Code; adopting by reference Chapters 2 through 5, 7 through 11, 14 through 16, A1, A3, A4, and A6 of the 2015 International Existing Building Code; amending certain of those chapters, and adopting a new Chapter 1 related to administration, permitting, and enforcement; and repealing Sections 2-17 of Ordinance 124283. body BE IT ORDAINED BY THE CITY OF SEATTLE AS FOLLOWS:
13	Section 1. Section 22.110.010 of the Seattle Municipal Code, last amended by Ordinance
14	124283, is amended as follows:
15	22.110.010 Adoption of International Existing Building Code
16	The Seattle Existing Building Code consists of: (1) the following portions of the ((2012)) 2015
17	edition of the International Existing Building Code published by the International Code Council:
18	Chapters 2 through 5, Chapters 7 through 11, Chapters ((13)) 14 through 16, Chapter A1, ((and
19	Chapters)) Chapter A3, Chapter A4, and ((through)) Chapter A6; (2) the amendments and
20	additions to the ((2012)) 2015 International Existing Building Code adopted by City Council by
21	((Ordinance)) ordinance; and (3) Chapter 1 adopted by City Council by ordinance. One copy of
22	the ((2012)) 2015 International Existing Building Code is filed with the City Clerk in C.F.
23	((313185)) <u>319951</u> .
24	Section 2. Chapter 1 of the Seattle Existing Building Code is adopted to read as follows:

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1	CHAPTER 1
2	SCOPE AND ADMINISTRATION
3	SECTION 101
4	SCOPE AND APPLICATION OF CODE
5	101.1 Title. This subtitle shall be known as the "International Existing Building Code." All
6	references to the International Existing Building Code contained in this code mean the Seattle
7	Existing Building Code.
8	101.2 Scope. This code applies to the repair, alteration, change of occupancy, addition to,
9	relocation and maintenance of existing buildings.
10	Exception: Buildings within the scope of the International Residential Code shall comply
11	with the International Residential Code.
12	101.3 Purpose. The purpose of this code is to provide minimum standards to safeguard life or
13	limb, health, property and public welfare by regulating and controlling the design, construction,
14	quality of materials, occupancy, location and maintenance of certain existing buildings and
15	structures within the City and certain equipment in those buildings, as specifically regulated
16	herein. The purpose of this code is to provide for and promote the health, safety and welfare of
17	the general public, and not to create or otherwise establish or designate any particular class or
18	group of persons who will or should be especially protected or benefited by the terms of this
19	code.
20	101.4 Compliance. Except as specifically provided in this code, additions, alterations, repairs
21	and changes of occupancy to, and relocation of any building or structure shall comply with the
22	requirements of the code for new construction. Except as specifically provided in this code,
23	additions, alterations, repairs and changes of occupancy to, and relocation of any building or

structure shall be such that the existing building or structure is no less complying with the provisions of the International Building Code than the existing building or structure was prior to the alteration, addition, repair, change of occupancy or relocation. **101.4.1** Unless approved by the code official, this code does not justify conditions in buildings or structures that do not comply with the codes in effect at the time the building or structure was built, including permitted additions, alterations, repairs, changes of occupancy and relocations. **101.4.2 Buildings not previously occupied.** A building or portion of a building that has not been previously occupied or used for its intended purpose in accordance with the laws in existence at the time of its completion shall comply with the provisions of the International Building Code for new construction or with any current permit for such occupancy. **101.4.3 Buildings previously occupied.** Buildings in existence at the time of the passage of this code that were legally constructed and occupied in accordance with the provisions of a prior code are permitted to have their existing occupancy continued, provided such occupancy is not unsafe. **101.4.3.1 Establishing occupancy for the record.** An occupancy is permitted to be established for any date if: 1. The applicant can provide evidence satisfactory to the code official that the occupancy was in existence on that date, and 2. The building can be made to comply with the building code in effect on that date. **101.4.4 Compliance with retroactive ordinances.** Alterations and repairs to existing

buildings that are being made in response to a notice or order requiring compliance with the

Housing and Building Maintenance Code, Subtitle II, Title 22 of the Seattle Municipal Code, the *Fire Code*, Subtitle VI, Title 22 of the Seattle Municipal Code, or other ordinances applicable to existing buildings, are permitted to be made in accordance with standards contained in those ordinances rather than the standards contained in this code. **101.5 Maintenance.** Buildings and structures, and parts thereof, shall be maintained in a safe and sanitary condition. Devices and safeguards which are or were required by a code in effect when the building or structure was erected, altered or repaired shall be maintained in conformance with the code edition under which they were installed. The owner or the owner's

9 designated agent shall be responsible for the maintenance of buildings and structures. To
10 determine compliance with this subsection, the code official shall have the authority to require a
11 building or structure to be reinspected. The requirements of this Chapter shall not provide the
12 basis for removal or abrogation of fire protection and safety systems and devices in existing
13 buildings or structures.

Exception: The code official is authorized to modify the requirements of this subsection where all or a portion of a building is unoccupied, closed off and reasonably secure from unlawful entry.

101.6 Internal Consistency. If in any specific case, different sections of this code specify
different materials, methods of construction or other requirements, the most restrictive governs.
If there is a conflict between a general requirement and a specific requirement, the specific
requirement governs.

101.7 Referenced codes and standards. The codes and standards referenced in this code are
 22 considered part of the requirements of this code to the extent prescribed by each such reference.

If differences occur between provisions of this code and referenced codes and standards, the
 provisions of this code apply.

101.8 References to other codes. Whenever an International, National or Uniform Code is
referenced in this code, it means the Seattle edition of that code, including local amendments.
References to the "Building Code", "Residential Code", "Fire Code", "Mechanical Code" and
"Plumbing Code" mean the Seattle editions of those codes.

101.9 Appendices. Provisions in the appendices of the International Existing Building Code do not apply, with the exception of Chapters A1 and A3 through A6 of Appendix A, which are herein adopted.

101.10 Metric units. Wherever in this code there is a conflict between metric units of
measurement and U.S. customary units, the U.S. customary units govern.

101.11 Impracticality. In cases where total compliance with all the requirements of this code is impractical, the applicant may arrange a pre-design conference with the design team and the code official. The applicant shall identify design solutions and modifications that conform to Section 101.12 or 101.13. The code official may waive specific requirements in this code that the code official determines to be impractical.

101.12 Modifications. The code official may modify the requirements of this code for individual cases if the code official finds: (1) there are practical difficulties involved in carrying out the provisions of this code; (2) the modification is in conformity with the intent and purpose of this code; and (3) the modification will provide a reasonable level of fire protection and structural integrity when considered together with other safety features of the building or other relevant circumstances. The code official may, but is not required to, record the approval of

modifications and any relevant information in the files of the code official or on the approved
 permit plans.

3 101.13 Alternate materials, methods of construction and design. This code does not prevent 4 the use of any material, design or method of construction not specifically allowed or prohibited 5 by this code, provided the alternate has been approved and its use authorized by the code official. 6 The code official may approve an alternate, provided the code official finds that the proposed 7 alternate complies with the provisions of this code, and that the alternate, when considered 8 together with other safety features of the building or other relevant circumstances, will provide at 9 least an equivalent level of strength, effectiveness, fire resistance, durability, safety and 10 sanitation. 11 The code official may require that sufficient evidence or proof be submitted to reasonably 12 substantiate any claims regarding the use or suitability of the alternate. The code official may, 13 but is not required to, record the approval of code alternates and any relevant information in the 14 files of the code official or on the construction documents. 15 **101.14 Unsafe conditions.** The code official shall have the authority to require the elimination of 16 conditions deemed unsafe in accordance with International Building Code Section 102.

17 18

SECTION 102

ADMINISTRATION

19 **102.1 General.** Additions, alterations, repairs and changes of occupancy to and relocations of
20 buildings and structures are subject to Chapter 1 of the Seattle Building Code.

Section 3. The following sections of Chapter 2 of the International Existing Building
Code, 2015 Edition, are amended as follows:

CHAPTER 2

1	DEFINITIONS
2	***
3	SECTION 202
4	GENERAL DEFINITIONS
5	***
6	[A] APPROVED. Acceptable to the <i>code official</i> ((<i>or</i> authority having jurisdiction)).
7	***
8	[A]CODE OFFICIAL. The Director of the Department of Construction and Inspections and
9	authorized representatives. ((officer or other designated authority charged with the
10	administration and enforcement of this code.))
11	DAMAGE RATIO. The ratio between the cost of work and the estimated replacement cost of
12	the building, expressed as a percentage.
13	(([BS] DANGEROUS. Any building, structure or portion thereof that meets any of the
14	conditions described below shall be deemed dangerous:
15	1. The building or structure has collapsed, has partially collapsed, has moved off its
16	foundation, or lacks the necessary support of the ground.
17	2. There exists a significant risk of collapse, detachment or dislodgement of any portion,
18	member, appurtenance or ornamentation of the building or structure under service
19	loads.))
20	***
21	DESIGN BASIS EARTHQUAKE (DBE). The lesser of an earthquake with a 10% chance of
22	exceedance in 50 years or two-thirds of an earthquake with a 2% probability of exceedance in 50
23	<u>years.</u>

1	***
2	[A]EXISTING BUILDING; EXISTING STRUCTURE. A building or structure erected prior
3	to the date of adoption of ((the appropriate)) this code, or one for which a ((legal building
4	permit)) valid Certificate of Occupancy has been issued, or one that has passed a final inspection.
5	***
6	((HISTORIC BUILDING. Any building or structure that is one or more of the following:
7	1. Listed, or certified as eligible for listing, by the State Historic Preservation Officer or
8	the Keeper of the National Register of Historic Places, in the National Register of
9	Historic Places.
10	2. Designated as historic under an applicable state or local law.
11	3. Certified as a contributing resource within a National Register, state designated or
12	locally designated historic district.))
13	LANDMARK. A building or structure that is subject to a requirement to obtain a certificate of
14	approval from the City Landmarks Preservation Board before altering or making significant
15	changes to specific features or characteristics, that has been nominated for designation and the
16	City Landmarks Preservation Board has not issued a determination regarding designation, that
17	has been designated for preservation by the City Landmarks Preservation Board, that has been
18	designated for preservation by the State of Washington, that has been listed or determined
19	eligible to be listed in the National Register of Historic Places, or that is located in a landmark or
20	special review district subject to a requirement to obtain a certificate of approval before making a
21	change to the external appearance of a structure.
22	LIFE SAFETY PERFORMANCE LEVEL. A post-earthquake damage state that includes
23	damage to structural elements, but the building retains a margin against partial or total collapse.

1	Injuries may occur, but the overall risk of life-threatening injury as a result of structural damage
2	is expected to be low.
3	***
4	RISK CATEGORY. A categorization of buildings and other structures for determination of
5	flood, wind, snow, ice and earthquake loads based on the risk associated with unacceptable
6	performance, determined in accordance with Section 1604.5 of the International Building Code.
7	***
8	SUBSTANTIAL ALTERATION. See Section 304.1.
9	***
10	[BS] SUBSTANTIAL IMPROVEMENT. ((For the purpose of determining compliance with
11	the flood provisions of this code, any)) Any repair, alteration, addition, or improvement of a
12	building or structure, the cost of which equals or exceeds 50 percent of the market value of the
13	structure, before the improvement or <i>repair</i> is started. If the structure has sustained substantial
14	damage, any repairs are considered substantial improvement regardless of the actual repair work
15	performed. The term does not, however, include either:
16	1. Any project for improvement of a building required to correct existing health, sanitary,
17	or safety code violations identified by the code official and that is the minimum
18	necessary to ensure safe living conditions; or
19	2. Any alteration of a ((historic)) landmark structure, provided that the alteration will not
20	preclude the structure's continued designation as a ((historic)) landmark structure.
21	(([BS] SUBSTANTIAL STRUCTURAL DAMAGE. A condition where one or both of the
22	following apply:

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1	1. The vertical elements of the lateral force-resisting system have suffered damage such
2	that the lateral load carrying capacity of the structure in any horizontal direction has
3	been reduced by more than 33 percent from its predamage condition.
4	2. The capacity of any vertical component carrying gravity load, or any group of such
5	components, that supports more than 30 percent of the total area of the structure's
6	floor(s) and roof(s) has been reduced more than 20 percent from its predamage
7	condition and the remaining capacity of such affected elements, with respect to all dead
8	and live loads, is less than 75 percent of that required by this code for new buildings of
9	similar structure, purpose and location.))
10	***
11	UNSAFE. ((Buildings, structures or equipment that are unsanitary, or that are deficient due to
12	inadequate means of egress facilities, inadequate light and ventilation, or that constitute a fire
13	hazard, or in which the structure or individual structural members meet the definition of
14	"Dangerous," or that are otherwise dangerous to human life or the public welfare, or that involve
15	illegal or improper occupancy or inadequate maintenance shall be deemed unsafe. A vacant
16	structure that is not secured against entry shall be deemed unsafe.)) Structurally unsound,
17	provided with inadequate egress, constituting a fire hazard, or otherwise dangerous to human
18	life, or constituting a hazard to safety, health or public welfare.
19	WORK AREA. That portion or portions of a building consisting of all reconfigured spaces as
20	indicated on the construction documents. Work area excludes other portions of the building
21	where incidental work entailed by the intended work must be performed or portions of the
22	building where work not initially intended by the owner is specifically required by this code. The

1	boundary of the work area includes all spaces not physically separated from rooms or spaces
2	where work is being performed.
3	Section 4. The following sections of Chapter 3 of the International Existing Building
4	Code, 2015 Edition, are amended as follows:
5	CHAPTER 3
6	PROVISIONS FOR ALL COMPLIANCE METHODS
7	SECTION 301
8	((ADMINISTRATION)) COMPLIANCE METHODS
9	301.1 General. All repairs, alterations, changes of occupancy, additions and relocations of
10	buildings shall comply with this chapter. The ((<i>repair</i> ,)) alteration, change of occupancy,
11	addition or relocation of all existing buildings and structures shall also comply with one of the
12	methods listed in Sections 301.1.1 through 301.1.3 as selected by the applicant Sections 301.1.1
13	through 301.1.3 shall not be applied in combination with each other. ((Where this code requires
14	consideration of the seismic force-resisting system of an existing building subject to repair,
15	alteration, change of occupancy, addition or relocation of existing buildings, the seismic
16	evaluation and design shall be based on Section 301.1.4 regardless of which compliance method
17	is used.))
18	Exception: Subject to the approval of the code official, alterations ((complying)) that
19	<u>comply</u> with the laws in existence at the time the building or the affected portion of the
20	building was built shall be considered in compliance with the provisions of this code unless
21	the building is undergoing ((more than a limited structural alteration as defined in Section
22	907.4.4)) substantial alteration. New structural members added as part of the alteration shall

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1	comply with the International Building Code. Alterations of existing buildings in flood	
2	<i>hazard areas</i> shall comply with Section ((701.3)) 310 .	
3	301.1.1 Prescriptive compliance method. ((<i>Repairs, a</i>)) <u>A</u> lterations, additions, and changes	
4	of occupancy complying with Chapter 4 of this code in buildings complying with the	
5	International Fire Code shall be considered in compliance with the provisions of this code.	
6	301.1.2 Work area compliance method. ((<i>Repairs, a</i>)) <u>A</u> lterations, additions, and changes	
7	((in)) of occupancy ((and relocated buildings)) complying with the applicable requirements	
8	of Chapters 5 and 7 through 13 of this code shall be considered in compliance with the	
9	provisions of this code.	
10	301.1.3 Performance compliance method. ((<i>Repairs, a</i>)) <u>A</u> lterations, additions, and changes	
11	((in)) of occupancy ((and relocated buildings)) complying with Chapter 14 of this code shall	
12	be considered in compliance with the provisions of this code.	
13	(([BS] 301.1.4 Seismic evaluation and design procedures. The seismic evaluation and	
14	design shall be based on the procedures specified in the International Building Code or	
15	ASCE 41. The procedures contained in Appendix A of this code shall be permitted to be used	
16	as specified in Section 301.1.4.2.	
17	[BS] 301.1.4.1 Compliance with International Building Code-level seismic forces.	
18	Where compliance with the seismic design provisions of the International Building Code	
19	is required, the criteria shall be in accordance with one of the following:	
20	1. One hundred percent of the values in the International Building Code. Where the	
21	existing seismic force resisting system is a type that can be designated as	
22	"Ordinary," values of R, $\Omega 0$ and <i>Cd</i> used for analysis in accordance with Chapter	
23	16 of the International Building Code shall be those specified for structural systems	

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1	classified as "Ordinary" in accordance with Table 12.2-1 of ASCE 7, unless it can
2	be demonstrated that the structural system will provide performance equivalent to
3	that of a "Detailed," "Intermediate" or "Special" system.
4	2. ASCE 41, using a Tier 3 procedure and the two level performance objective in
5	Table 301.1.4.1 for the applicable risk category.
6	[BS] 301.1.4.2 Compliance with reduced International Building Code-level seismic
7	forces. Where seismic evaluation and design is permitted to meet reduced International
8	Building Code seismic force levels, the criteria used shall be in accordance with one of
9	the following:
10	1. The International Building Code using 75 percent of the prescribed forces.
11	Values of R , $\Omega 0$ and Cd used for analysis shall be as specified in Section
12	301.1.4.1 of this code.
13	2. Structures or portions of structures that comply with the requirements of the
14	applicable chapter in Appendix A as specified in Items 2.1 through 2.5 and
15	subject to the limitations of the respective Appendix A chapters shall be
16	deemed to comply with this section.
17	2.1. The seismic evaluation and design of unreinforced masonry bearing wall
18	buildings in Risk Category I or II are permitted to be based on the
19	procedures specified in Appendix Chapter A1.
20	2.2. Seismic evaluation and design of the wall anchorage system in reinforced
21	concrete and reinforced masonry wall buildings with flexible diaphragms
22	in Risk Category I or II are permitted to be based on the procedures
23	specified in Chapter A2.

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1	2.3 .	Seismic evaluation and design of crij	pple walls and sill plate anchorage in	
2		residential buildings of light frame w	ood construction in Risk Category I	
3	or II are permitted to be based on the procedures specified in Chapter A3.			
4	2.4. Seismic evaluation and design of soft, weak, or open-front wall			
5		conditions in multiunit residential bui	ildings of wood construction in Risk	
6		Category I or II are permitted to be ba	ased on the procedures specified in	
7		Chapter A4.		
8	2.5.	Seismic evaluation and design of cor	acrete buildings assigned to Risk	
9	Category I, II or III are permitted to be based on the procedures specified			
10		in Chapter A5.		
11	3. ASCE 41, using the performance objective in Table 301.1.4.2 for the applicable		e in Table 301.1.4.2 for the applicable	
12	risk category.))			
13		(([BS] TABLE 301.1. 4	. 1	
14	PERFORMANCE OBJECTIVES FOR USE IN ASCE 41 FOR COMPLIANCE WITH		E 41 FOR COMPLIANCE WITH	
15	INTERNATIONAL BUILDING CODE-LEVEL SEISMIC FORCES))			
16				
	((RISK	STRUCTURAL	STRUCTURAL	
	CATEGORY	PERFORMANCE LEVEL FOR	PERFORMANCE LEVEL FOR	
	(Based on IBC	USE WITH BSE-1N	USE WITH BSE-2N	
	Table 1604.5)	EARTHQUAKE HAZARD	EARTHQUAKE HAZARD	
		LEVEL	LEVEL	

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Collapse Prevention (S-5)

Collapse Prevention (S-5)

Limited Safety (S-4)

Life Safety (S-3)))

Life safety (S-3)

Life safety (S-3)

Damage Control (S-2)

Immediate occupancy (S-1)

(([BS] TABLE 301.1.4.2

PERFORMANCE OBJECTIVES FOR USE IN ASCE 41 FOR COMPLIANCE WITH

REDUCED INTERNATIONAL BUILDING CODE-LEVEL SEISMIC FORCES))

((RISK CATEGORY (Based on IBC Table 1604.5)	STRUCTURAL PERFORMANCE LEVEL FOR USE WITH BSE 1E EARTHQUAKE HAZARD LEVEL	
Ŧ	Life safety (S-3)	
Ħ	Life safety (S-3)	
Ħ	Damage Control S-2. See Note a	
IV	Immediate Occupancy (S-1)))	
((a. Tier 1 evaluation	 1 at the Damage Control performance level shall use the Tier 1 Life Safet	
	ier 1 Quick Check provisions midway between those specified for Life	
Safety and Imme	ediate Occupancy performance.)) SECTION 302	
Safety and Imme	ediate Occupancy performance.))	
Safety and Imme	ediate Occupancy performance.)) SECTION 302	
Safety and Immo	ediate Occupancy performance.)) SECTION 302 AL REQUIREMENTS FOR ALL COMPLIANCE METHODS ((GENERAL PROVISIONS))	
Safety and Immo	ediate Occupancy performance.)) SECTION 302 AL REQUIREMENTS FOR ALL COMPLIANCE METHODS ((GENERAL PROVISIONS)) The provisions of Section 302 apply to all <i>alterations, repairs, additions</i> ,	
Safety and Immo	ediate Occupancy performance.)) SECTION 302 AL REQUIREMENTS FOR ALL COMPLIANCE METHODS ((GENERAL PROVISIONS)) The provisions of Section 302 apply to all <i>alterations, repairs, additions,</i>	
Safety and Immo ADDITION	ediate Occupancy performance.)) SECTION 302 AL REQUIREMENTS FOR ALL COMPLIANCE METHODS	
Safety and Immo ADDITION 02.1 Applicability. 7 elocations of structur y the applicant. 02.2 Additional cod	ediate Occupancy performance.)) SECTION 302 AL REQUIREMENTS FOR ALL COMPLIANCE METHODS ((GENERAL PROVISIONS)) The provisions of Section 302 apply to all <i>alterations, repairs, additions,</i> es and <i>changes of occupancy</i> regardless of <u>the</u> compliance method <u>chose</u>	

1	relocation, respectively, in this code and the International Energy Conservation Code,
2	International Fire Code, International Fuel Gas Code, International Mechanical Code,
3	((International)) <u>Uniform</u> Plumbing Code, ((International Property Maintenance Code,
4	International Private Sewage Disposal Code, International Residential Code)) Seattle Boiler and
5	Pressure Vessel Code, Seattle Electrical Code and NFPA 70. Elevators and other conveyances
6	shall comply with the International Building Code. Where provisions of the other codes conflict
7	with provisions of this code, the provisions of this code shall take precedence.
8	[W] 302.2.1 Fire prevention. Except as specifically provided for in this code, the provisions
9	of the International Fire Code shall apply to matters affecting or relating to structures,
10	processes and premises regarding:
11	1. The hazard of fire and explosion arising from the storage, handling or use of
12	structures, materials or devices;
13	2. Conditions hazardous to life, property or public welfare in the occupancy of structures
14	or premises; and
15	3. The construction, extension, <i>repair</i> , <i>alteration</i> or removal of fire suppression and
16	alarm systems or fire hazards in the structure or on the premises from occupancy or
17	operation.
18	302.3 Existing materials. Materials already in use in a building <u>complying</u> ((in compliance))
19	with requirements or approvals in effect at the time of their erection or installation shall be
20	permitted to remain in use unless the materials are deemed unsafe ((determined)) by the
21	((building)) <u>code</u> official ((to be unsafe)).
22	***

1	302.6 Safeguards during construction. Regardless of compliance method, alterations, repairs
2	additions and changes of occupancy to, or relocation of, existing buildings and structures shall
3	comply with the provisions of Chapter 15.
4	302.7 Occupant load increases in Group A occupancies. Regardless of which compliance
5	method is used, when the occupant load in an existing Group A occupancy is increased, an
6	automatic sprinkler system shall be installed in the fire area containing the Group A occupancy if
7	a sprinkler system would be required by International Building Code Section 903.2.1 for new
8	construction.
9	Exception: A sprinkler system is not required if all the following conditions are met:
10	1. The increase in occupant load is either 50 occupants or less, or no more than 10
11	percent of the occupant load of the existing Group A occupancy, whichever is greater;
12	and
13	2. The existing means of egress has adequate capacity to accommodate the additional
14	occupant load; and
15	3. The total occupant load in the Group A occupancy does not exceed one occupant per 5
16	square feet; and
17	4. The increase in occupant load is not part of a substantial alteration.
18	302.8 Unsafe building appendages. Parapet walls, cornices, spires, towers, tanks, statuary and
19	other appendages or structural members that are supported by, attached to, or a part of a building
20	and that are in a deteriorated condition or are otherwise unable to sustain the design loads that
21	are specified in this code, are hereby designated as unsafe building appendages. All such unsafe
22	building appendages are public nuisances and shall be abated in accordance with Section 101.14.

1	302.9 Unreinforced masonry chimneys. Whenever an unreinforced masonry chimney is
2	altered or <i>repaired</i> , or when the building in which such a chimney is located undergoes
3	substantial alteration, the chimney shall conform to rules promulgated by the code official.
4	SECTION 303
5	<u>REPAIRS</u>
6	303.1 Repairs. Damaged buildings and structures, and parts thereof shall be repaired in
7	compliance with this section. Work on undamaged parts of a building or structure that is
8	necessary for the required repair of damaged parts shall be considered part of the repair and
9	shall not be subject to the requirements for alterations except as specifically required in this
10	chapter. Routine maintenance, ordinary repairs exempt from permit in accordance with
11	International Building Code Section 106.2, and abatement of wear due to normal service
12	conditions shall not be subject to the requirements for repairs in this section.
13	303.1.1 Determining repair levels. <i>Repairs</i> shall be classified as <i>repair</i> of minor damage,
14	repair of moderate damage, repair of significant damage, or repair of extensive damage.
15	Required <i>repair</i> levels shall be based on the <i>damage ratio</i> as defined in Section 202.
16	Damage ratios shall be determined according to rules promulgated by the Director.
17	303.1.2 Requirements for repair of minor damage. Repair of buildings with damage
18	ratios less than 10 percent shall comply with this Section 303.1.2. Repair of unreinforced
19	masonry chimneys shall comply with Section 302.9.
20	1. Damage to structural elements and fire/life safety systems shall be repaired.
21	2. New or replaced elements shall comply with current code requirements.
22	Exception: Like materials shall be permitted for nonstructural alterations, provided
23	no hazard to life, health or property is created, and the materials do not adversely

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1	affect any structural member or result in a change to the fire-resistance rating of any				
2	part of the building or structure.				
3	3. New or replaced structural elements shall be tied into new or existing structure in				
4	accordance with the structural engineer's recommendations and accepted practice.				
5	4. All structural <i>repairs</i> shall be designed and approved by a structural engineer licensed				
6	in the State of Washington.				
7	5. Cracked concrete and masonry shall be repaired if repair is required by FEMA 306,				
8	<u>307 and 308.</u>				
9	6. Strengthening of the entire building or structure is not required.				
10	7. Fire protection and life safety systems required when the building was built or altered				
11	shall be repaired in accordance with Section 101.5.				
12	8. No portion of the building shall be repaired in such a manner that the building				
13	becomes less safe than it was before the damage occurred, nor shall the repair create				
14	an unsafe condition as defined in Section 101.14.				
15	303.1.3 Requirements for repair of moderate damage. <i>Repair</i> of buildings with <i>damage</i>				
16	ratios of at least 10 percent and less than 30 percent shall comply with Section 303.1.2 and				
17	this Section 303.1.3.				
18	All structures supporting and supported by the damaged portions of the building shall be				
19	repaired in accordance with items 1–6 below.				
20	1. The capacity of existing structural elements supporting and supported by the damaged				
21	portion of the building shall not be less than the capacity of those elements before the				
22	damage occurred.				

	SDCI 2015 Seattle Existing Building Code ORD D1c
1	2. The lateral loading to existing elements of the lateral force resisting systems shall not
2	be increased beyond their capacity.
3	3. New work shall not introduce new irregularities, and shall not worsen existing
4	irregularities.
5	4. New structural elements shall be detailed and connected to the existing structural
6	elements as required by this code.
7	5. New or relocated nonstructural elements shall be detailed and connected to existing or
8	new structural elements as required by this code.
9	6. The alterations shall not create an unsafe condition.
10	303.1.4 Requirements for repair of significant damage. Repair of buildings with damage
11	ratios of at least 30 percent and less than 50 percent shall comply with Sections 303.1.2,
12	<u>303.1.3 and this Section 303.1.4.</u>
13	1. The engineer shall submit a report identifying structural damage, and falling hazards
14	to exitways, pedestrian walkways and public rights of way. The report shall also
15	contain a statement acknowledging that compliance with this section may not satisfy
16	the requirements for substantial alteration of Section 304.
17	2. All identified falling hazards in exits and exit discharges shall be mitigated so as to
18	limit damage at primary means of egress.
19	3. The walls, roofs and floors of unreinforced masonry buildings shall comply with the
20	sections of ASCE 31 or Table 303.1. For ASCE 31 use of 3/4 of the design basis
21	<i>earthquake</i> values with a minimum value of 0.80 for S_{DS} and of 0.35 for S_{D1} is
22	permitted.

1	Exception: If the tested mortar strength is less than the minimums indicated in
2	Table 303.1, Item a, the structure shall comply with the full provisions of ASCE
3	<u>31 or this code.</u>
4	4. Repair of damage for buildings subject to this Section 303.1.4 will be considered
5	when determining whether Section 304 provisions for substantial alterations apply.

TABLE 303.1

REQUIREMENTS FOR UNREINFORCED MASONRY BUILDINGS

<u>Component</u>	ASCE 31 Section	<u>Appendix A</u> <u>Section</u>
a. Masonry strength (mortar and anchor tests)	4.2.6.2.2	<u>A106.3.3</u>
for anchorage to masonry and for wall		
bracing		
b. Diaphragm shear transfer	4.2.6.3.2.6	<u>A111.5</u>
c. Out-of-plane transfer	<u>4.2.6.3.5</u>	<u>A113.1</u>
d. Wall bracing	4.2.6.3.4	A113.5

303.1.5 Requirements for repair of extensive damage. Repair of buildings with damage

ratios of at least 50 percent and less than 60 percent shall comply with Sections 303.1.2

through 303.1.4 and this Section 303.1.5.

<u>1.</u>	The structure shall be <i>repaired</i> and designed to satisfy the requirements of ASCE 31
	or ASCE 41 and the performance criteria in Table 305.4.2.
<u>2.</u>	A seismic evaluation report shall be submitted. The report shall comply with
	Section 305.4.2, rules promulgated by the code official, and the following
	requirements:
	2.1 The report shall be prepared by a structural engineer registered in the State of
	Washington.

1	2.2 The report shall be based on ASCE 31 or ASCE 41 and the performance					
2	criteria in Table 305.4.2.					
3	Exception: Unreinforced masonry buildings are permitted to comply with					
4	Appendix A1. The reduction of Section 303.1.4 Item 3 is not allowed.					
5	2.3 At a minimum, the report shall contain the information listed below. A					
6	previously-written report may be submitted if it satisfies the requirements of					
7	this section.					
8	2.3.1 An overall description of the building, including size (number of stories					
9	and basements, approximate floor area) and the occupancies or uses in					
10	the building.					
11	2.3.2 Identification of building deficiencies.					
12	2.3.3 A prioritized list of recommendations from the structural engineer on					
13	how to address the identified deficiencies.					
14	2.3.4 The seismic evaluation report shall comply with rules promulgated by					
15	the code official.					
16	303.1.6 Requirements for repair of more than extensive damage. Repair of buildings					
17	with damage ratios of 60 percent or more shall comply with Section 304.					
18	SECTION 304					
19	SUBSTANTIAL ALTERATION REQUIREMENTS FOR ALL COMPLIANCE METHODS					
20	304.1 Substantial alterations or repairs. Regardless of which compliance method is used, a					
21	building or structure to which substantial alterations or repairs are made shall conform with the					
22	requirements of this section and the following sections of the International Building Code:					
23	1. Section 403 when applicable;					

1	2. Special requirements for the Fire District found in Chapter 4 when applicable;
2	<u>3. Section 717;</u>
3	4. Chapter 8;
4	5. Section 903 and 905;
5	6. Sections 909.20.5, 909.20.6 and 909.21; and
6	<u>7. Chapter 10.</u>
7	8. Fire alarms shall be provided as required by the International Fire Code.
8	304.1.1 Definition. For the purpose of this section, substantial alteration or repair means
9	any one of the following, as determined by the code official:
10	1. Repair of a building with a damage ratio of 60 percent or more.
11	2. Remodeling or an <i>addition</i> that substantially extends the useful physical or economic
12	life of the building or a significant portion of the building, other than typical tenant
13	remodeling.
14	3. A change of a significant portion of a building to an occupancy that is more hazardous
15	than the existing occupancy, based on the combined life and fire risk as determined by
16	the code official. The code official is permitted to use Table 304.1 as a guideline.
17	4. Reoccupancy of a building that has been substantially vacant for more than 24 months
18	in occupancies other than Group R-3.
19	5. A significant increase in the occupant load of an unreinforced masonry building.
20	304.1.2 Seismic regulations. Buildings or structures to which substantial alterations or
21	repairs are made shall comply with Section 305.4.2. In addition, the code official is
22	authorized to require testing of existing materials when there is insufficient evidence of
23	structural strength or integrity.

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1	Exceptions:
2	1. If an <i>alteration</i> is substantial only because it is a change to a more hazardous
3	occupancy, compliance with this subsection is required only if the life hazard risk
4	increases, as determined by the code official.
5	2. For Group R-3 occupancies, when approved by the code official, the applicant is
6	permitted to evaluate and strengthen portions of the building lateral support
7	structure, such as foundations and cripple walls.
8	304.1.3 Report. A proposal for structural rehabilitation shall be submitted based on a
9	comprehensive report prepared by a licensed structural engineer according to rules
10	promulgated by the code official. The report shall include an investigation and structural
11	analysis of the building based on Section 305.4.2. The report shall specify the building's
12	seismic deficiencies, and propose measures that will provide an acceptable degree of seismic
13	safety considering the nature, size and scope of the project. This requirement shall also apply
14	to Section 101.14 as conditions require.
15	304.1.4 Energy use regulations. An alteration or repair described in Items 1, 2, or 4 of
16	Section 304.1.1 shall comply with Section C503.8 of the International Energy Conservation
17	<u>Code.</u>
18	Exceptions:
19	1. Existing residential buildings of three stories or less are not required to comply
20	with this section.
21	2. A project that is defined as a substantial alteration primarily due to the seismic
22	retrofitting of a building's unreinforced masonry walls shall not be required to
23	comply with this section.

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TABLE 304.1

RATING OF OCCUPANCIES BY DEGREE OF HAZARD

Occupancy	Description	Life	<u>Fire</u>	Combined Doting
A 1		4	2	Rating
<u>A1</u>	Assembly uses, usually with fixed seating,	<u>4</u>	<u>3</u>	<u>12</u>
	intended for the production and viewing of the			
4.2	performing arts or motion pictures	4	2	12
<u>A2</u>	Assembly uses intended for food and/or drink	<u>4</u>	<u>3</u>	<u>12</u>
A 2	<u>consumption</u>	4	2	12
<u>A3</u>	Assembly uses intended for worship, recreation or amusement and other assembly uses not classified	<u>4</u>	<u>3</u>	<u>12</u>
A 4	elsewhere in Group A	2	1	2
<u>A4</u>	Assembly uses intended for viewing of indoor	<u>3</u>	<u>1</u>	<u>3</u>
	sporting events and activities with spectator			
<u> </u>	seating	2	1	2
<u>A5</u>	Assembly uses intended for participation in or	<u>3</u>	<u>1</u>	<u>3</u>
D	viewing outdoor activities	2	1	2
<u>B</u>	Office, professional or service-type transactions,	<u>2</u>	<u>1</u>	<u>2</u>
D	including storage of records and accounts.		1	2
<u>B</u>	Eating & drinking establishments with an	<u>2</u>	<u>1</u>	<u>2</u>
D	occupant load of less than 50		1	2
<u>B</u>	Buildings or portions of buildings having rooms	<u>2</u>	<u>1</u>	<u>2</u>
	used for educational purposes beyond 12th grade			
<u>E</u>	Any building used for educational purposes by six	<u>3</u>	<u>2</u>	<u>6</u>
	or more persons at any one time for educational			
	purposes through the 12th grade			
<u>E</u>	Day care centers for more than five children older	<u>3</u>	<u>2</u>	<u>6</u>
.	than $2^{1/2}$ years of age			10
<u>I4</u>	Facilities that provide accommodations for less	<u>4</u>	<u>3</u>	<u>12</u>
	than 24 hours for more than five unrelated adults			
	and provides supervision and personal care			
	services; facilities that provide supervision and			
	personal care on less than a 24-hour basis for more			
F 1	than five children $2^{1/2}$ years of age or less			4
<u>F1</u>	Moderate hazard factory and industrial	<u>2</u>	2	4
<u>F2</u>	Low-hazard factory and industrial	$\frac{1}{\overline{-}}$		
<u>H1</u>	Occupancies with a detonation hazard	<u>5</u>	4	<u>20</u>
<u>H2</u>	Occupancies which present a deflagration hazard	<u>5</u>	<u>4</u>	<u>20</u>
	or a hazard from accelerated burning			
<u>H3</u>	Occupancies containing materials that readily	<u>5</u>	<u>4</u>	<u>20</u>
	support combustion or that pose a physical hazard	ļ	ļ	
<u>H4</u>	Occupancies containing materials that are health	<u>5</u>	<u>4</u>	<u>20</u>
	hazards			

Occupancy	Description	<u>Life</u>	<u>Fire</u>	Combined Rating
<u>H5</u>	Semiconductor fabrication facilities	<u>5</u>	4	20
<u>II</u>	Buildings, structures or portions thereof for more than 16 persons, excluding staff, who reside on a 24- hour basis in a supervised environment and receive custodial care	3	3	2
<u>12</u>	Buildings and structures used for medical care on a 24-hour basis for more than five persons who are incapable of self-preservation	<u>4</u>	<u>3</u>	<u>12</u>
<u>I3</u>	Buildings and structures that are inhabited by more than five persons who are under restraint or security	<u>4</u>	<u>3</u>	<u>12</u>
<u>M</u>	Buildings used for display and sale of merchandise	<u>3</u>	2	<u>6</u>
<u>R1</u>	Occupancies containing sleeping units where the occupants are primarily transient in nature	<u>3</u>	<u>3</u>	<u>9</u>
<u>R2</u>	Occupancies containing sleeping units or more than two dwelling units where the occupants are primarily permanent in nature	<u>3</u>	<u>3</u>	<u>9</u>
<u>R3</u>	Residential 3 occupancies where the occupants are primarily permanent in nature and not classified as Group R-1, R-2, or I	<u>2</u>	<u>1</u>	2
<u>S1</u>	Moderate hazard storage	2	2	<u>4</u>
<u>S2</u>	Low-hazard storage	<u>1</u>	<u>1</u>	<u>1</u>
<u>U</u>	Buildings and structures of an accessory character and miscellaneous structures	<u>1</u>	<u>1</u>	<u>1</u>
SECTION 305				

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STRUCTURAL REQUIREMENTS FOR ALL COMPLIANCE METHODS

- 305.1 Structural provisions for alterations. Alterations to any building or structure shall
- comply with the requirements of Sections 305.1.1 through 305.1.6.
 - [BS] 305.1.1 New structural elements. New structural elements in alterations, including
- connections and anchorage, shall comply with the International Building Code.
- [BS] 305.1.2 Minimum design loads. The minimum design loads on existing elements of a
 - structure that do not support additional loads as a result of an alteration shall be the loads
 - applicable at the time the building was constructed.

1	305.1.3 Existing structural elements carrying gravity load. Any existing gravity load-		
2	carrying structural element for which an alteration causes an increase in design gravity load		
3	of more than 5 percent shall be strengthened, supplemented, replaced or otherwise altered as		
4	needed to carry the increased gravity load required by the International Building Code for		
5	new structures. Any existing gravity load-carrying structural element whose gravity load-		
6	carrying capacity is decreased as part of the alteration shall be shown to have the capacity to		
7	resist the applicable design gravity loads required by the International Building Code for new		
8	structures.		
9	Exception: Buildings of Group R occupancy with not more than five dwelling or		
10	sleeping units used solely for residential purposes where the existing building and its		
11	alteration comply with the conventional light-frame construction methods of the		
12	International Building Code.		
13	305.1.3.1. Design live load. Where the alteration does not result in increased design live		
14	load, existing gravity load-carrying structural elements shall be permitted to be evaluated		
15	and designed for live loads approved prior to the alteration. If the approved live load for		
16	storage occupancies is less than that required by Section 1607 of the International		
17	Building Code, the area designed for the nonconforming live load shall be posted with		
18	placards of approved design indicating the approved live load. Where the alteration does		
19	result in increased design live load, the live load required by Section 1607 of the		
20	International Building Code shall be used.		
21	305.1.4 Existing structural elements carrying lateral load. Where the alteration increases		
22	design lateral loads in accordance with Section 1609 or 1613 of the International Building		
23	Code, or where the alteration results in a prohibited structural irregularity as defined in		

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1	ASCE 7, or where the alteration decreases the capacity of any existing lateral load-carrying
2	structural element, the structure of the altered building or structure shall be shown to meet the
3	requirements of Sections 1609 and 1613 of the International Building Code. Reduced
4	International Building Code-level seismic forces shall be permitted.
5	Exception: Any existing lateral load-carrying structural element whose demand-capacity
6	ratio with the alteration considered is no more than 10 percent greater than its demand-
7	capacity ratio with the alteration ignored shall be permitted to remain unaltered. For
8	purposes of calculating demand-capacity ratios, the demand shall consider applicable
9	load combinations with design lateral loads or forces in accordance with Sections 1609
10	and 1613 of the International Building Code. Reduced International Building Code level
11	seismic forces in accordance with Section 305.4.2 shall be permitted. For purposes of
12	this exception, comparisons of demand-capacity ratios and calculation of design lateral
13	loads, forces and capacities shall account for the cumulative effects of additions and
14	alterations since original construction.
15	[BS]305.1.5 Wall anchorage for unreinforced masonry walls in major alterations.
16	Where the portion of the building undergoing the intended alteration exceeds 50 percent of
17	the aggregate area of the building, the building is assigned to Seismic Design Category C, D,
18	E or F, and the building's structural system includes unreinforced masonry walls, the
19	alteration work shall include installation of wall anchors at the roof line to resist seismic
20	forces, unless an evaluation demonstrates compliance of existing wall anchorage. For
21	purposes of this section, design seismic forces need not be taken greater than 75 percent of
22	those that would be required for the design of new buildings of similar structure, purpose and
23	location.

1	[BS]305.1.6 Voluntary seismic improvements. Alterations to existing structural elements or		
2	additions of new structural elements that are not otherwise required by this chapter and are		
3	initiated for the purpose of improving the performance of the seismic force-resisting system		
4	of an existing structure or the performance of seismic bracing or anchorage of existing		
5	nonstructural elements shall be permitted, if an engineering analysis is submitted		
6	demonstrating the following:		
7	1. The altered structure and the altered nonstructural elements are no less conforming to		
8	the provisions of the International Building Code with respect to earthquake design		
9	than they were prior to the <i>alteration</i> .		
10	Exception: Any existing lateral load-carrying structural element whose demand-		
11	capacity ratio with the alteration considered is no more than 10 percent greater		
12	than its demand-capacity ratio with the alteration ignored shall be permitted to		
13	remain unaltered. For purposes of calculating demand-capacity ratios, the demand		
14	shall consider applicable load combinations with design lateral loads or forces per		
15	Sections 1609 and 1613 of the International Building Code. For purposes of this		
16	exception, comparisons of demand-capacity ratios and calculation of design		
17	lateral loads, forces, and capacities shall account for the cumulative effects of		
18	additions and alterations since original construction.		
19	2. New structural elements are detailed as required for new construction.		
20	3. New or relocated nonstructural elements are detailed and connected to existing or new		
21	structural elements as required for new construction.		
22	4. The alterations do not create a structural irregularity as defined in ASCE 7 or make an		
23	existing structural irregularity more severe.		

1	305.2 Structural provisions for changes of occupancy. When a <i>change of occupancy</i> results in
2	a structure being reclassified to a higher risk category determined in accordance with Table
3	1604.5 of the International Building Code, the structure shall conform to the seismic
4	requirements for a new structure of the higher risk category. For purposes of this section,
5	compliance with ASCE 41, using a Tier 3 procedure and the two-level performance objective in
6	Table 305.4.1 for the applicable risk category, shall be deemed to meet the requirements of
7	Section 1613 of the International Building Code.
8	Exception: Specific seismic detailing requirements of Section 1613 of the International
9	Building Code for a new structure shall not be required to be met where the seismic
10	performance is shown to be equivalent to that of a new structure. A demonstration of
11	equivalence shall consider the regularity, overstrength, redundancy and ductility of the
12	structure.
13	305.3 Structural provisions for additions. Additions to any building or structure shall comply
14	with the requirements of Sections 305.3.1 through 305.3.2.
15	305.3.1 Existing structural elements carrying gravity load. Any existing gravity load-
16	carrying structural element for which an addition and its related alterations cause an increase
17	in design gravity load of more than 5 percent shall be strengthened, supplemented, replaced
18	or otherwise altered as needed to carry the increased gravity load required by the
19	International Building Code for new structures.
20	Any existing gravity load-carrying structural element whose gravity load-carrying
21	capacity is decreased shall be considered an altered element subject to the requirements of
22	Section 305.1.3. Any existing element that will form part of the lateral load path for any part

1	of the <i>addition</i> shall be considered an existing lateral load-carrying structural element subject		
2	to the requirements of Section 305.3.2.		
3	[B] 305.3.1.1 Design live load. Where the <i>addition</i> does not result in increased design		
4	live load, existing gravity load-carrying structural elements shall be permitted to be		
5	evaluated and designed for live loads approved prior to the addition. If the approved live		
6	load is less than that required by Section 1607 of the International Building Code, the		
7	area designed for the nonconforming live load shall be posted with placards of approved		
8	design indicating the approved live load. Where the addition does result in increased		
9	design live load, the live load required by Section 1607 of the International Building		
10	<u>Code shall be used.</u>		
11	305.3.2 Existing structural elements carrying lateral load. Where the addition is		
12	structurally independent of the existing structure, existing lateral load-carrying structural		
13	elements shall be permitted to remain unaltered. Where the addition is not structurally		
14	independent of the existing structure, the existing structure and its addition acting together as		
15	a single structure shall be shown to meet the requirements of Sections 1609 and 1613 of the		
16	International Building Code. For purposes of this section, compliance with ASCE 41, using a		
17	Tier 3 procedure and the two-level performance objective in Table 305.4.1 for the applicable		
18	risk category, shall be deemed to meet the requirements of Section 1613 of the International		
19	<u>Building Code.</u>		
20	Exception: Any existing lateral load-carrying structural element whose demand-capacity		
21	ratio with the addition considered is no more than 10 percent greater than its demand-		
22	capacity ratio with the addition ignored shall be permitted to remain unaltered. For		
23	purposes of calculating demand-capacity ratios, the demand shall consider applicable		

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1	load combinations with design lateral loads or forces in accordance with Sections 1609	
2	and 1613 of the International Building Code. For purposes of this exception, comparisons	
3	of demand-capacity ratios and calculation of design lateral loads, forces and capacities	
4	shall account for the cumulative effects of additions and alterations since original	
5	construction.	
6	[BS] 305.4 Seismic evaluation and design procedures. The seismic evaluation and design	
7	shall be based on the procedures specified in the International Building Code, ASCE 31, or	
8	ASCE 41. The procedures contained in Appendix A of this code shall be permitted to be used	
9	as specified in Section 305.4.2.	
10	[BS] 305.4.1 Compliance with International Building Code-level seismic forces.	
11	Where compliance with the seismic design provisions of the International Building Code	
12	is required, the criteria shall be in accordance with one of the following:	
13	1. One-hundred percent of the values in the International Building Code. Where the	
14	existing seismic force-resisting system is a type that can be designated as	
15	<u>"Ordinary," values of R, Ω_0 and C_d used for analysis in accordance with Chapter</u>	
16	16 of the International Building Code shall be those specified for structural	
17	systems classified as "Ordinary" in accordance with Table 12.2-1 of ASCE 7,	
18	unless it can be demonstrated that the structural system will provide performance	
19	equivalent to that of a "Detailed," "Intermediate" or "Special" system.	
20	2. ASCE 41, using a Tier 3 procedure and the two-level performance objective in	
21	Table 305.4.1 for the applicable risk category.	
22	<u>TABLE 305.4.1</u>	
		1

PERFORMANCE OBJECTIVES FOR USE IN ASCE 41 FOR COMPLIANCE WITH

INTERNATIONAL BUILDING CODE-LEVEL SEISMIC FORCES

RISK CATEGORY (Based on IBC Table 1604.5)	STRUCTURAL PERFORMANCE LEVEL FOR USE WITH BSE-1N EARTHQUAKE HAZARD LEVEL	STRUCTURAL PERFORMANCE LEVEL FOR USE WITH BSE-2N EARTHQUAKE HAZARD LEVEL
Ī	Life safety (S-3)	Collapse Prevention (S-5)
II	Life safety (S-3)	Collapse Prevention (S-5)
<u>III</u>	Damage Control (S-2)	Limited Safety (S-4)
<u>IV</u>	Immediate occupancy (S-1)	<u>Life Safety (S-3)</u>

[BS] 3	05.4.2 Compliance with reduced International Building Code-level seismic
<u>forces.</u>	Where seismic evaluation and design is permitted to meet reduced International
<u>Buildir</u>	ag Code seismic force levels, the criteria used shall be in accordance with one of
<u>the foll</u>	owing:
<u>1. 1</u>	The International Building Code using 75 percent of the prescribed forces. Values
	of R, Ω_0 and C _d used for analysis shall be as specified in Section 305.4.1 of this
	<u>code.</u>
<u>2. s</u>	Structures or portions of structures that comply with the requirements of the
	applicable chapter in Appendix A as specified in Items 2.1 through 2.5 and
	subject to the limitations of the respective Appendix A chapters shall be deemed
	to comply with this section.

Last revised April 13, 2016

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1	2.1. The seismic evaluation and design of unreinforced masonry bearing wall			
2	buildings in Risk Category I or II are permitted to be based on the procedures			
3	specified in Appendix Chapter A1.			
4	2.2. Reserved.			
5	2.3. Seismic evaluation and design of cripple walls and sill plate anchorage in			
6	residential buildings of light-frame wood construction in Risk Category I or II			
7	are permitted to be based on the procedures specified in Chapter A3.			
8	2.4. Seismic evaluation and design of soft, weak, or open-front wall conditions in			
9	multiunit residential buildings of wood construction in Risk Category I or II			
10	are permitted to be based on the procedures specified in Chapter A4.			
11	2.5.Reserved.			
12	3. Compliance with ASCE 31 based on the applicable performance level as shown in			
13	Table 305.4.2. It shall be permitted to use the design basis earthquake. The design			
14	spectral response acceleration parameters SXS and SX1 specified shall not be taken			
15	less than 75 percent of the respective design spectral response acceleration			
16	parameters SDS and SD1 defined by the International Building Code.			
17	4. ASCE 41, using the performance objective in Table 305.4.2 for the applicable risk			
18	category. For a Tier 3 procedure, use the two-level performance objective in Table			
19	305.4.3 for the applicable risk category. Tier 1 or Tier 2 procedures need not			
20	consider the performance objective using the BSE-2E hazard level.			
21	<u>TABLE 305.4.2</u>			
22	PERFORMANCE LEVELS FOR USE IN ASCE 31 FOR COMPLIANCE WITH			
23	REDUCED			



INTERNATIONAL BUILDING CODE-LEVEL SEISMIC FORCES

<u>RISK CATEGORY</u> (Based on IBC Table	PERFORMANCE LEVEL		
1604.5)			
Ī	Life safety (LS)		
II Life safety (LS)			
III Notes a, b			
<u>IV</u>	Immediate occupancy (IO)		
a. Acceptance criteria for Ris	sk Category III shall be taken as 80 percent of the acceptance		
criteria specified for Risk	Category II performance levels, but need not be less than the		
acceptance criteria specifie	ed for Risk Category IV levels.		
b. For Risk Category III, the ASCE 31 screening phase checklists shall be based on the life			
safety performance level.			
	TABLE 305.4.3		
PERFORMANCE OBJECT	TIVES FOR USE IN ASCE 41 FOR COMPLIANCE WITH		
	REDUCED		
INTERNATIONA	L BUILDING CODE-LEVEL SEISMIC FORCES		

RISK CATEGORY (Based on IBC Table 1604.5)	STRUCTURAL <u>PERFORMANCE LEVEL</u> <u>FOR USE WITH BSE-1E</u> <u>EARTHQUAKE HAZARD</u> LEVEL	STRUCTURAL PERFORMANCE LEVEL FOR USE WITH BSE-2E EARTHQUAKE HAZARD LEVEL		
Ī	Life safety (S-3)	Collapse Prevention (S-5)		
Ш	Life safety (S-3)	Collapse Prevention (S-5)		
III	Damage Control S-2. See Note a	Limited Safety (S-4)		
IV	Immediate Occupancy (S-1)	Life-Safety (S-3)		
a. Tier 1 evaluation	at the Damage Control performance	level shall use the Tier 1 Life Safety		
checklists and Tie	er 1 Quick Check provisions midway	between those specified for Life		
Safety and Imme	diate Occupancy performance.			
	SECTION 306			
LANDMARKS				
[B] 306.1 Landmarks. The provisions of this code relating to the construction, repair,				
alteration, addition, restoration and movement of structures, and change of occupancy shall be				
mandatory for landmarks. Landmarks shall comply with the accessibility requirements of				
<u>Section 307.9.</u>				
Exception: Where <i>approved</i> by the <i>code official</i> , compliance with this code is not required				
where preservation of historic elements precludes complete compliance and a reasonable				
degree of safety to the public and the occupants of the building is provided.				
1	SECTION 307			
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2	ACCESSIBILITY FOR EXISTING BUILDINGS			
3	307.1 Scope. The provisions of Sections 307.1 through 307.9 apply to maintenance, <i>change of</i>			
4	occupancy, additions and alterations to existing buildings, including those identified as historic			
5	buildings.			
6	307.2 Maintenance of facilities. A <i>facility</i> that is constructed or altered to be <i>accessible</i> shall be			
7	maintained accessible during occupancy.			
8	307.3 Extent of application. Maintenance, alterations, change of occupancy, additions to or			
9	relocations of existing buildings shall not impose a requirement for greater accessibility than that			
10	which would be required for new construction. Maintenance, alterations, change of occupancy,			
11	additions to or relocations of existing buildings shall not reduce or have the effect of reducing			
12	accessibility of a <i>facility</i> or portion of a <i>facility</i> .			
13	307.4 Change of occupancy. Existing buildings that undergo a change of occupancy shall			
14	comply with this section.			
15	Exception: Type B dwelling or sleeping units required by Section 1107 of the International			
16	Building Code are not required to be provided in existing buildings and facilities undergoing			
17	a change of occupancy in conjunction with alterations where the work area is 50 percent or			
18	less of the aggregate area of the building or less than a level 3 alteration.			
19	307.4.1 Partial change in occupancy. Where a portion of the building is changed to a new			
20	occupancy classification, any alterations shall comply with Sections 307.6, 307.7 and 307.8,			
21	as applicable.			

1	307.4.2 Complete change of occupancy. Where an entire building undergoes a <i>change of</i>
2	occupancy, it shall comply with Section 307.4.2 and shall have all of the following accessible
3	features:
4	1. At least one accessible building entrance.
5	2. At least one accessible route from an accessible building entrance to primary function
6	<u>areas.</u>
7	3. Signage complying with Section 1111 of the International Building Code.
8	4. Accessible parking, where parking is being provided.
9	5. At least one accessible passenger loading zone, when loading zones are provided.
10	6. At least one accessible route connecting accessible parking and accessible passenger
11	loading zones to an accessible entrance.
12	Where it is <i>technically infeasible</i> to comply with the new construction standards for any
13	of these requirements for a change of occupancy, the above items shall conform to the
14	requirements to the maximum extent technically feasible.
15	Exception: The accessible features listed in Items 1 through 6 are not required for an
16	accessible route to Type B units.
17	307.5 Additions. Provisions for new construction shall apply to additions. An addition that
18	affects the accessibility to, or contains an area of, a primary function shall comply with the
19	requirements in Section 307.7.
20	307.6 Alterations. A <i>facility</i> that is altered shall comply with the applicable provisions in
21	Chapter 11 of the International Building Code, unless technically infeasible. Where compliance
22	with this section is <i>technically infeasible</i> , the <i>alteration</i> shall provide access to the maximum
23	extent technically feasible.

1	Exceptions:
2	1. The altered element or space is not required to be on an accessible route, unless
3	required by Section 307.7.
4	2. Accessible means of egress required by Chapter 10 of the International Building Code
5	are not required to be provided in existing facilities.
6	3. The alteration to Type A individually owned dwelling units within a Group R-2
7	occupancy shall be permitted to meet the provision for a Type B dwelling unit.
8	4. Type B dwelling or sleeping units required by Section 1107 of the International
9	Building Code are not required to be provided in existing buildings and facilities
10	undergoing a change of occupancy in conjunction with alterations where the work
11	area is 50 percent or less of the aggregate area of the building.
12	307.7 Alterations affecting an area containing a primary function. Where an <i>alteration</i>
13	affects the accessibility to, or contains an area of primary function, the route to the primary
14	function area shall be accessible. The accessible route to the primary function area shall include
15	toilet facilities, telephones and drinking fountains serving the area of primary function.
16	Exceptions:
17	1. The costs of providing the accessible route are not required to exceed 20 percent of the
18	costs of the alterations affecting the area of primary function.
19	2. This provision does not apply to alterations limited solely to windows, hardware,
20	operating controls, electrical outlets and signs.
21	3. This provision does not apply to <i>alterations</i> limited solely to mechanical systems,
22	electrical systems, installation or alteration of fire protection systems and abatement of
23	hazardous materials.

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1	4. This provision does not apply to alterations undertaken for the primary purpose of
2	increasing the accessibility of a <i>facility</i> .
3	5. This provision does not apply to altered areas limited to Type B dwelling and sleeping
4	units.
5	307.8 Scoping for alterations. The provisions of Sections 307.8.1 through 307.8.15 shall apply
6	to alterations to existing buildings and facilities.
7	307.8.1 Entrances. Accessible entrances shall be provided in accordance with Section 1105
8	of the International Building Code.
9	Exception: Where an <i>alteration</i> includes alterations to an entrance, and the <i>facility</i> has an
10	accessible entrance, the altered entrance is not required to be accessible, unless required
11	by Section 307.7. Signs complying with Section 1111 of the International Building Code
12	shall be provided.
13	307.8.2 Elevators. Altered elements of existing elevators shall comply with ASME A17.1
14	and ICC A117.1. Such elements shall also be altered in elevators programmed to respond to
15	the same hall call control as the altered elevator.
16	307.8.3 Platform lifts. Platform (wheelchair) lifts complying with ICC A117.1 and installed
17	in accordance with ASME A18.1 shall be permitted as a component of an accessible route.
18	307.8.4 Stairways and escalators in existing buildings. In alterations, change of occupancy
19	or additions where an escalator or stairway is added where none existed previously and major
20	structural modifications are necessary for installation, an accessible route shall be provided
21	between the levels served by the escalator or stairways in accordance with Section 1104.4 of
22	the International Building Code.

1	307.8.5 Ramps. Where slopes steeper than allowed by Section 1012.2 of the <i>International</i>
2	Building Code are necessitated by space limitations, the slope of ramps in or providing
3	access to existing facilities shall comply with Table 307.8.5.
4	TABLE 307.8.5
5	RAMPS
	SLOPE MAXIMUM RISE
	Steeper than 1:10 but not steeper than 1:8 Steeper than 1:12 but not steeper than 1:10
6	
7	For SI: 1 inch = 25.4 mm.
8	307.8.6 Accessible dwelling or sleeping units. Where Group I-1, I-2, I-3, R-1, or R-2
9	dwelling or sleeping units are being altered or added, the requirements of Section 1107 of the
10	International Building Code for Accessible units apply only to the quantity of spaces being
11	altered or added.
12	<u>307.8.7 Type A dwelling or sleeping units.</u> Where more than 20 Group R-2 dwelling or
13	sleeping units are being altered or added, the requirements of Section 1107 of the
14	International Building Code for Type A units and Chapter 9 of the International Building
15	Code for visible alarms apply only to the quantity of the spaces being altered or added.
16	[W] 307.8.8 Type B dwelling or sleeping units. Type B dwelling or sleeping units shall
17	comply with the applicable requirements of Section 307.8.8.1.
18	Exception: When using the provisions of Chapter 9, Group I-1, I-2, R-2, or R-3 dwelling
19	or sleeping units where the first certificate of occupancy was issued before March 15,
20	1991 are not required to provide Type B dwelling or sleeping units.
21	307.8.8.1 Type B dwelling or sleeping units. Where four or more Group I-1, I-2, R-1,
22	R-2, or R-3 dwelling or sleeping units are being added, the requirements of Section 1107

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1	of the International Building Code for Type B units and Chapter 9 of the International
2	Building Code for visible alarms apply only to the quantity of the spaces being added.
3	Where Group I-1, I-2, R-1, R-2, or R-3 dwelling or sleeping units are being altered and
4	where the work area is greater than 50 percent of the aggregate area of the building, the
5	requirements of Section 1107 of the International Building Code for Type B units apply
6	only to the quantity of the spaces being altered.
7	307.8.9 Dining areas. An accessible route to raised or sunken dining areas or to outdoor
8	seating areas is not required for projects using the work area compliance method provided
9	that the same services and decor are provided in an accessible space usable by any occupant
10	and not restricted to use by people with a disability.
11	307.8.10 Jury boxes and witness stands. In alterations, accessible wheelchair spaces are
12	not required to be located within the defined area of raised jury boxes or witness stands and
13	shall be permitted to be located outside these spaces where the ramp or lift access poses a
14	hazard by restricting or projecting into a required means of egress.
15	307.8.11 Toilet rooms. Where it is <i>technically infeasible</i> to alter existing toilet and bathing
16	rooms to be accessible, an accessible family or assisted-use toilet or bathing room
17	constructed in accordance with Section 1109.2.1 of the International Building Code is
18	permitted. The family or assisted-use toilet or bathing room shall be located on the same
19	floor and in the same area as the existing toilet or bathing rooms. The number of toilet
20	facilities and water closets required by the International Building Code is permitted to be
21	reduced by one, in order to provide accessible features. At the inaccessible toilet and bathing
22	rooms, provide directional signs indicating the location of the nearest family or assisted-use
23	toilet room or bathing room. These directional signs shall include the International Symbol of

1	Accessibility and sign characters shall meet the visual character requirements in accordance
2	with ICC A117.1.
3	307.8.12 Dressing, fitting and locker rooms. Where it is technically infeasible to provide
4	accessible dressing, fitting or locker rooms at the same location as similar types of rooms,
5	one accessible room on the same level shall be provided. Where separate-sex facilities are
6	provided, accessible rooms for each sex shall be provided. Separate-sex facilities are not
7	required where only unisex rooms are provided.
8	307.8.13 Fuel dispensers. Operable parts of replacement fuel dispensers shall be permitted
9	to be 54 inches (1370 mm) maximum, measuring from the surface of the vehicular way
10	where fuel dispensers are installed on existing curbs.
11	307.8.14 Thresholds. The maximum height of thresholds at doorways shall be 3/4 inch (19.1
12	mm). Such thresholds shall have beveled edges on each side.
13	307.8.15 Amusement rides. Where the structural or operational characteristics of an
14	amusement ride are altered to the extent that the amusement ride's performance differs from
15	that specified by the manufacturer or the original design, the amusement ride shall comply
16	with requirements for new construction in Section 1110.4.8 of the International Building
17	<u>Code.</u>
18	307.9 Landmarks. These provisions shall apply to <i>facilities</i> designated as landmark structures
19	that undergo alterations or a change of occupancy, unless technically infeasible. Where
20	compliance with the requirements for accessible routes, entrances or toilet rooms would threaten
21	or destroy the historic significance of the <i>facility</i> , as determined by the <i>code official</i> , the
22	alternative requirements of Sections 307.9.1 through 307.9.4 for that element shall be permitted.

1	Exception: Type B dwelling or sleeping units required by Section 1107 of the International
2	Building Code are not required to be provided in landmarks.
3	307.9.1 Site arrival points. At least one accessible route from a site arrival point to an
4	accessible entrance shall be provided.
5	307.9.2 Multilevel buildings and facilities. An accessible route from an accessible entrance
6	to public spaces on the level of the accessible entrance shall be provided.
7	307.9.3 Entrances. At least one main entrance shall be accessible.
8	Exceptions:
9	1. If a main entrance cannot be made accessible, an accessible nonpublic entrance that
10	is unlocked while the building is occupied shall be provided; or
11	2. If a main entrance cannot be made accessible, a locked accessible entrance with a
12	notification system or remote monitoring shall be provided.
13	Signs complying with Section 1111 of the International Building Code shall be
14	provided at the primary entrance and the accessible entrance.
15	307.9.4 Toilet and bathing facilities. Where toilet rooms are provided, at least one
16	accessible family or assisted-use toilet room complying with Section 1109.2.1 of the
17	International Building Code shall be provided.
18	SECTION 308
19	REROOFING
20	[BS] 308.1 General. Materials and methods of application used for recovering or replacing an
21	existing roof covering shall comply with the requirements of Chapter 15 of the International
22	Building Code and the International Energy Conservation Code.

1	Exception: Reroofing shall not be required to meet the minimum design slope requirement
2	of one-quarter unit vertical in 12 units horizontal (2-percent slope) in Section 1507 of the
3	International Building Code for roofs that provide positive roof drainage.
4	[BS] 308.2 Structural and construction loads. Where addition or replacement of roofing or
5	replacement of equipment results in additional dead loads, structural components supporting the
6	reroofing or equipment shall comply with Section 305.1.3.
7	Exception: A second layer of roof covering weighing 3 pounds per square foot (0.1437
8	kN/m ²) or less over an existing, single layer of roof covering is permitted to be added without
9	complying with Section 305.1.3.
10	[BS] 308.3 Recovering versus replacement. New roof coverings shall not be installed without
11	first removing all existing layers of roof coverings down to the roof deck where any of the
12	following conditions occur:
13	1. Where the existing roof or roof covering is water soaked or has deteriorated to the point
14	that the existing roof or roof covering is not adequate as a base for additional roofing.
15	2. Where the existing roof covering is wood shake, slate, clay, cement or asbestos-cement
16	<u>tile.</u>
17	3. Where the existing roof has two or more applications of any type of roof covering.
18	Exceptions:
19	1. Complete and separate roofing systems, such as standing-seam metal roof systems,
20	that are designed to transmit the roof loads directly to the building's structural
21	system and that do not rely on existing roofs and roof coverings for support, shall
22	not require the removal of existing roof coverings.

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1	2. Metal panel, metal shingle and concrete and clay tile roof coverings shall be
2	permitted to be installed over existing wood shake roofs when applied in
3	accordance with Section 308.4.
4	3. The application of a new protective coating over an existing spray polyurethane
5	foam roofing system shall be permitted without tear-off of existing roof coverings.
6	4. Where the existing roof assembly includes an ice barrier membrane that is adhered
7	to the roof deck, the existing ice barrier membrane shall be permitted to remain in
8	place and covered with an additional layer of ice barrier membrane in accordance
9	with Section 1507 of the International Building Code.
10	[BS] 308.4 Roof recovering. Where the application of a new roof covering over wood shingle or
11	shake roofs creates a combustible concealed space, the entire existing surface shall be covered
12	with gypsum board, mineral fiber, glass fiber or other approved materials securely fastened in
13	<u>place.</u>
14	[BS] 308.5 Reinstallation of materials. Existing slate, clay or cement tile shall be permitted for
15	reinstallation, except that damaged, cracked or broken slate or tile shall not be reinstalled.
16	Existing vent flashing, metal edgings, drain outlets, collars and metal counter flashings shall not
17	be reinstalled where rusted, damaged or deteriorated. Aggregate surfacing materials shall not be
18	reinstalled.
19	[BS] 308.6 Flashings. Flashings shall be reconstructed in accordance with approved
20	manufacturer's installation instructions. Metal flashing to which bituminous materials are to be
21	adhered shall be primed prior to installation.
22	SECTION 309
23	MOVED STRUCTURES

1	
1	309.1 Nonresidential buildings or structures. Nonresidential buildings or structures moved
2	into or within the city shall comply with standards adopted by the code official. The code official
3	is authorized to require an inspection of the building before or after moving. The permit holder
4	shall correct all deficiencies identified by the inspection. The code official is authorized to
5	require that a bond or cash deposit in an amount sufficient to abate or demolish the building be
6	posted prior to issuance of a permit. See Section 106 of the International Building Code for
7	information required on plans. Any moved building that is not in complete compliance with
8	standards for moved buildings within 18 months from the date of permit issuance and is found to
9	be a public nuisance may be abated. Moved buildings and structures shall also comply with the
10	International Energy Conservation Code.
11	309.2 Residential buildings or structures. Residential buildings or structures moved into or
12	within the city are not required to comply with all of the requirements of this code if the original
13	occupancy classification of the building or structure is not changed. Compliance with all of the
14	requirements of this chapter will be required if the moved residential buildings or structures
15	undergo substantial alteration. Work performed on new and existing foundations shall comply
16	with all of the requirements of this code for new construction.
17	SECTION 310
18	FLOOD HAZARD AREAS
19	310.1 Flood hazard areas. Buildings and structures in flood hazard areas established in Section
20	1612.3 of the International Building Code shall comply with Sections 310.1.1 through 310.1.3.
21	When any combination of <i>repairs, alterations</i> , or <i>additions</i> constitute <i>substantial</i>
22	improvement, the existing building and all repairs, alterations, and additions shall comply with
23	Section 1612 of the International Building Code.

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1	310.1.1 Repairs. Any repair that constitutes substantial improvement of the existing
2	structure or buildings that have been substantially damaged, as defined in Section 202, shall
3	comply with the flood design requirements for new construction, and all aspects of the
4	existing structure shall be brought into compliance with the requirements for new
5	construction for flood design according to Section 1612 of the International Building Code.
6	Any repairs that do not constitute substantial improvement or repair of substantial
7	damage of the existing structure, as defined in Section 202, are not required to comply with
8	the flood design requirements for new construction according to Section 1612 of the
9	International Building Code.
10	Exception: For a new foundation or replacement foundation, the foundation shall comply
11	with Section 1612 of the International Building Code.
12	310.1.2 Alterations. Alterations that constitutes substantial improvement of the existing
13	structure shall comply with the flood design requirements for new construction, and all
14	aspects of the existing structure shall be brought into compliance with the requirements for
15	new construction for flood design according to Section 1612 of the International Building
16	<u>Code.</u>
17	Any alterations that do not constitute substantial improvement of the existing structure
18	are not required to comply with the flood design requirements for new construction
19	according to Section 1612 of the International Building Code.
20	Exception: For a new foundation or replacement foundation, the foundation shall comply
21	with Section 1612 of the International Building Code.
22	310.1.3 Additions. Additions shall comply with the flood design requirements for new
23	construction according to Section 1612 of the International Building Code.

1	If the addition constitutes substantial improvement, the existing structure shall be brought
2	into compliance with the requirements for new construction for flood design according to
3	Section 1612 of the International Building Code.
4	Section 5. The following sections of Chapter 4 of the International Existing Building
5	Code, 2015 Edition, are amended as follows:
	CHAPTER 4
6	PRESCRIPTIVE COMPLIANCE METHOD
7	SECTION 401
8	GENERAL
9	401.1 Scope. The provisions of this chapter shall control the <i>alteration</i> , ((<i>repair</i> ,)) <i>addition</i> and
10	change of occupancy ((or relocation of)) existing buildings and structures ((, including historic
11	buildings and structures as referenced in Section 301.1.1)).
12	Exception: Existing bleachers, grandstands and folding and telescopic seating shall comply
13	with ICC 300.
14	401.1.1 Compliance with other methods. Alterations, ((<i>repairs</i> ,)) additions and changes of
15	occupancy to ((or relocation of,))existing buildings and structures shall comply with the
16	provisions of this chapter or with one of the methods provided in Section 301.1.
	Note: All alterations, additions and changes of occupancy are also required to comply
	with Chapter 3.
17	401.2 Building materials and systems. Building materials and systems shall comply with the
18	requirements of this section.
19	401.2.1 Existing materials. Materials already in use in a building in compliance with
20	requirements or approvals in effect at the time of their erection or installation shall be

permitted to remain in use unless determined by the ((building)) code official to be unsafe per Section ((115))101.14.

3 **401.2.2** New and replacement materials. Except as otherwise required or permitted by this 4 code, materials permitted by the applicable code for new construction shall be used. Like 5 materials shall be permitted for ((*repairs* and)) nonstructural *alterations*, provided no hazard to life, health or property is created, and they do not adversely affect any structural member 6 7 or the fire-resistance rating of any part of the building or structure. When approved by the 8 *code official*, minor structural alterations necessary to maintain the structural stability of the 9 building or structure are permitted to be made with the same material of which the building 10 or structure is constructed. Hazardous materials shall not be used where the code for new construction would not permit their use in buildings of similar occupancy, purpose and 12 location. 13 ((401.2.3 Existing seismic force-resisting systems. Where the existing seismic force-14 resisting system is a type that can be designated ordinary, values of R, Ω_0 and Cd for the existing seismic force resisting system shall be those specified by the International Building 16 *Code* for an ordinary system unless it is demonstrated that the existing system will provide 17 performance equivalent to that of a detailed, intermediate or special system. 18 401.3 Dangerous conditions. The building official shall have the authority to require the elimination of conditions deemed dangerous.) **SECTION 402** ADDITIONS 402.1 General. Additions to any building or structure shall comply with the requirements of the 23 International Building Code for new construction. Alterations to the existing building or

1	structure shall be made to ensure that the <i>existing building</i> or structure together with the <i>addition</i>
2	are no less conforming to the provisions of the International Building Code than the existing
3	building or structure was prior to the addition. An existing building together with its additions
4	shall comply with the height and area provisions of Chapter 5 of the International Building
5	Code.
6	Note: A significant addition to an existing building may be considered a substantial alteration
7	in accordance with Section 304.
8	402.1.1 Fire walls. An existing nonconforming building to which an <i>addition</i> is made is
9	permitted to exceed the height, number of stories and area specified for new buildings if a
10	fire wall is provided, the <i>existing building</i> is not made more nonconforming, and the <i>addition</i>
11	conforms to this code.
12	(([BS] 402.2 Flood hazard areas. For buildings and structures in flood hazard areas established
13	in Section 1612.3 of the International Building Code, or Section R322 of the International
14	Residential Code, as applicable, any addition that constitutes substantial improvement of the
15	existing structure shall comply with the flood design requirements for new construction, and all
16	aspects of the existing structure shall be brought into compliance with the requirements for new
17	construction for flood design.
18	For buildings and structures in <i>flood hazard areas</i> established in Section 1612.3 of the
19	International Building Code, or Section R322 of the International Residential Code, as
20	applicable, any additions that do not constitute substantial improvement of the existing structure
21	are not required to comply with the flood design requirements for new construction.))
22	402.2 Structural. Additions to existing buildings shall comply with Section 305.3.

1	(([BS] 402.3 Existing structural elements carrying gravity load. Any existing gravity load-
2	carrying structural element for which an addition and its related alterations cause an increase in
3	design gravity load of more than 5 percent shall be strengthened, supplemented, replaced or
4	otherwise altered as needed to carry the increased gravity load required by the International
5	Building Code for new structures. Any existing gravity load carrying structural element whose
6	gravity load-carrying capacity is decreased shall be considered an altered element subject to the
7	requirements of Section 403.3. Any existing element that will form part of the lateral load path
8	for any part of the addition shall be considered an existing lateral load carrying structural
9	element subject to the requirements of Section 402.4.
10	[BS] 402.3.1 Design live load. Where the addition does not result in increased design live
11	load, existing gravity load-carrying structural elements shall be permitted to be evaluated and
12	designed for live loads approved prior to the addition. If the approved live load is less than
13	that required by Section 1607 of the International Building Code, the area designed for the
14	nonconforming live load shall be posted with placards of approved design indicating the
15	approved live load. Where the addition does result in increased design live load, the live load
16	required by Section 1607 of the International Building Code shall be used.
17	[BS] 402.4 Existing structural elements carrying lateral load. Where the addition is
18	structurally independent of the existing structure, existing lateral load carrying structural
19	elements shall be permitted to remain unaltered. Where the addition is not structurally
20	independent of the existing structure, the existing structure and its addition acting together as a
21	single structure shall be shown to meet the requirements of Sections 1609 and 1613 of the
22	International Building Code. For purposes of this section, compliance with ASCE 41, using a

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1	Tier 3 procedure and the two-level performance objective in Table 301.1.4.1 for the applicable
2	risk category, shall be deemed to meet the requirements of Section 1613.
3	Exception: Any existing lateral load carrying structural element whose demand capacity
4	ratio with the addition considered is no more than 10 percent greater than its demand-
5	capacity ratio with the addition ignored shall be permitted to remain unaltered. For purposes
6	of calculating demand-capacity ratios, the demand shall consider applicable load
7	combinations with design lateral loads or forces in accordance with Sections 1609 and 1613
8	of the International Building Code. For purposes of this exception, comparisons of demand-
9	capacity ratios and calculation of design lateral loads, forces and capacities shall account for
10	the cumulative effects of <i>additions</i> and <i>alterations</i> since original construction.))
11	((402.5)) 402.3 Smoke alarms in existing portions of a building. Where an <i>addition</i> is made to
12	a building or structure of a Group R or I-1 occupancy, the existing building shall be provided
13	with smoke alarms in accordance with Section 1103.8 of the International Fire Code.
14	402.4 Addition of dwelling units. Automatic sprinkler systems are required when new dwelling
15	units are added to buildings according to Items 1 through 5 below. This provision is permitted to
16	be used to add one unit after October 29, 1990.
17	1. One unit is permitted to be added to a residential or commercial building without an
18	automatic sprinkler system unless sprinklers are otherwise required by this section. If more
19	than one unit is added, the new units shall be equipped with a sprinkler system.
20	2. In buildings that do not comply with the provisions of this code for number of stories,
21	allowable area, height or type of construction before the unit is added, an automatic
22	sprinkler system shall be provided in the new unit. The addition of the new unit shall not
23	be allowed if it increases the nonconformity.

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1	3. In buildings undergoing substantial alteration, an automatic sprinkler system shall be
2	installed where required by this code for new construction.
3	4. One unit is permitted to be added to an existing duplex without an automatic sprinkler
4	system where both of the following conditions are met:
5	4.1 The project is considered a substantial alteration only because of the change of
6	occupancy; and
7	4.2 The building complies with the requirements for building height and number of
8	stories for a Group R-2 occupancy.
9	5. Where one unit is added to an existing duplex, sprinklers are required in the new unit and
10	not in the existing units where all of the following conditions are met:
11	5.1 The existing duplex does not comply with the requirements for building height and
12	story count for a Group R-2 occupancy:
13	5.2 The project is considered a substantial alteration only because of the change of
14	occupancy;
15	5.3 The new unit is constructed as an <i>addition</i> to the duplex;
16	5.4 The new unit is separated from the existing duplex by a fire wall; and
17	5.5 The addition by itself complies with the requirements for a Group R-2 occupancy.
18	SECTION 403
19	ALTERATIONS
20	403.1 General. Except as provided by Section 401.2 or this section, <i>alterations</i> to any building
21	or structure shall comply with the requirements of the International Building Code for new
22	construction. Alterations shall be such that the existing building or structure is no less

conforming to the provisions of the *International Building Code* than the *existing building* or
 structure was prior to the *alteration*.

3	Exceptions:
4	1. Subject to the approval of the code official, existing stairways shall not be required to
5	comply with the requirements of Sections 1011.3 and 1011.5.2 of the International
6	Building Code where the existing space and construction ((does))do not allow a reduction
7	in pitch or slope.
8	2. Handrails otherwise required to comply with Section 1011.11 of the International
9	Building Code shall not be required to comply with the requirements of Section 1014.6 of
10	the International Building Code regarding full extension of the handrails where such
11	extensions would be hazardous due to plan configuration.
12	3. Where changes to offices, outpatient clinics or medical offices occur on a multi-tenant
13	floor that contains non-conforming corridors, new tenant walls associated with the tenant
14	change need not meet the standards for one-hour corridor construction, unless the project
15	is considered a substantial alteration.
16	4. Automatic sprinkler systems are required when new dwelling units are added to
17	buildings according to Items 4.1 through 4.6 below. This exception is permitted to be
18	used to add one unit after October 29, 1990.
19	4.1 One unit is permitted to be added to a residential or commercial building without an
20	automatic sprinkler system unless sprinklers are otherwise required by this section. If
21	more than one unit is added, the new units shall be equipped with a sprinkler system.
22	4.2 In buildings that do not comply with the provisions of this code for number of stories,
23	allowable area, height or type of construction before the unit is added, an automatic

	SDCI 2015 Seattle Existing Building Code ORD D1c
1	sprinkler system shall be provided in the new unit. The addition of the new unit shall
2	not be allowed if it increases the nonconformity.
3	4.3 In buildings undergoing substantial alteration, an automatic sprinkler system shall be
4	installed where required by this code for new construction.
5	4.4 One unit is permitted to be added to an existing duplex without an automatic sprinkler
6	system where both of the following conditions are met:
7	4.4.1 The project is considered a substantial alteration only because of the change of
8	occupancy; and
9	4.4.2 The building complies with the requirements for building height and number of
10	stories for a Group R-2 occupancy.
11	4.5 Where one unit is added to an existing duplex, sprinklers are required in the new unit
12	and not in the existing units where all of the following conditions are met:
13	4.5.1 The existing duplex does not comply with the requirements for building height
14	and story count for a Group R-2 occupancy;
15	4.5.2 The project is considered a substantial alteration only because of the change of
16	<u>occupancy;</u>
17	4.5.3 The new unit is constructed as an <i>addition</i> to the duplex;
18	4.5.4 The new unit is separated from the existing duplex by a fire wall; and
19	4.5.5 The addition by itself complies with the requirements for a Group R-2
20	occupancy.
21	4.6 A sprinkler system is not required when a Group U occupancy that is accessory to a
22	Group R-3 occupancy is converted to a dwelling unit.

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1	5. Ceilings in basements are permitted to project to within 6 feet 8 inches (2032 mm) of	
2	the finished floor, and beams, girders, ducts or other obstructions are permitted to	
3	project to within 6 feet 4 inches (1931 mm) of the finished floor.	
4	6. Ceiling height in buildings in existence prior to October 17, 1979, shall be permitted to	
5	comply with rules promulgated by the code official.	
6	(([BS] 403.2 Flood hazard areas. For buildings and structures in <i>flood hazard areas</i> established	
7	in Section 1612.3 of the International Building Code, or Section R322 of the International	
8	Residential Code, as applicable, any alteration that constitutes substantial improvement of the	
9	existing structure shall comply with the flood design requirements for new construction, and all	
10	aspects of the existing structure shall be brought into compliance with the requirements for new	
11	construction for flood design.	
12	For buildings and structures in <i>flood hazard areas</i> established in Section 1612.3 of the	
13	International Building Code, or Section R322 of the International Residential Code, as	
14	applicable, any alterations that do not constitute substantial improvement of the existing structure	
15	are not required to comply with the flood design requirements for new construction.))	
16	403.2 Structural. Alterations to existing buildings and structures shall comply with Section	
17	<u>305.1.</u>	
18	(([BS] 403.3 Existing structural elements carrying gravity load. Any existing gravity load-	
19	carrying structural element for which an alteration causes an increase in design gravity load of	
20	more than 5 percent shall be strengthened, supplemented, replaced or otherwise altered as needed	
21	to carry the increased gravity load required by the International Building Code for new	
22	structures. Any existing gravity load-carrying structural element whose gravity load-carrying	
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Kathleen Petrie g Building Code ORD

	SDCI 2015 Seattle Existing Building Code ORD D1c
1	capacity is decreased as part of the alteration shall be shown to have the capacity to resist the
2	applicable design gravity loads required by the International Building Code for new structures.
3	[BS] 403.3.1 Design live load. Where the alteration does not result in increased design live
4	load, existing gravity load-carrying structural elements shall be permitted to be evaluated and
5	designed for live loads approved prior to the <i>alteration</i> . If the approved live load is less than
6	that required by Section 1607 of the International Building Code, the area designed for the
7	nonconforming live load shall be posted with placards of approved design indicating the
8	approved live load. Where the alteration does result in increased design live load, the live
9	load required by Section 1607 of the International Building Code shall be used.
10	[BS] 403.4 Existing structural elements carrying lateral load. Except as permitted by Section
11	403.5, where the alteration increases design lateral loads in accordance with Section 1609 or
12	1613 of the International Building Code, or where the alteration results in a prohibited structural
13	irregularity as defined in ASCE 7, or where the alteration decreases the capacity of any existing
14	lateral load-carrying structural element, the structure of the altered building or structure shall be
15	shown to meet the requirements of Sections 1609 and 1613 of the International Building Code.
16	For purposes of this section, compliance with ASCE 41, using a Tier 3 procedure and the two-
17	level performance objective in Table 301.1.4.1 for the applicable risk category, shall be deemed
18	to meet the requirements of Section 1613 of the International Building Code.
19	Exception: Any existing lateral load-carrying structural element whose demand-capacity
20	ratio with the alteration considered is no more than 10 percent greater than its demand-
21	capacity ratio with the alteration ignored shall be permitted to remain unaltered. For
22	purposes of calculating demand-capacity ratios, the demand shall consider applicable load
23	combinations with design lateral loads or forces in accordance with Sections 1609 and 1613

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of the International Building Code. For purposes of this exception, comparisons of demand-
capacity ratios and calculation of design lateral loads, forces and capacities shall account for
the cumulative effects of additions and alterations since original construction.

4 [BS] 403.4.1 Seismic Design Category F. Where the portion of the building undergoing the 5 intended alteration exceeds 50 percent of the aggregate area of the building, and where the building is assigned to Seismic Design Category F, the structure of the altered building shall 6 7 be shown to meet the earthquake design provisions of the International Building Code. For 8 purposes of this section, the earthquake loads need not be taken greater than 75 percent of 9 those prescribed in Section 1613 of the International Building Code for new buildings of 10 similar occupancy, purpose and location. New structural members and connections required 11 by this section shall comply with the detailing provisions of this code for new buildings of 12 similar structure, purpose and location.

13 [BS] 403.5 Bracing for unreinforced masonry parapets upon reroofing. Where the intended 14 alteration requires a permit for reroofing and involves removal of roofing materials from more 15 than 25 percent of the roof area of a building assigned to Seismic Design Category D, E or F that 16 has parapets constructed of unreinforced masonry, the work shall include installation of parapet 17 bracing to resist out-of-plane seismic forces, unless an evaluation demonstrates compliance of 18 such items. For purposes of this section, design seismic forces need not be taken greater than 75 19 percent of those that would be required for the design of similar nonstructural components in 20 new buildings of similar purpose and location.

[BS] 403.6 Wall anchorage for unreinforced masonry walls in major alterations. Where the
 portion of the building undergoing the intended alteration exceeds 50 percent of the aggregate
 area of the building, the building is assigned to Seismic Design Category C, D, E or F, and the

1 building's structural system includes unreinforced masonry walls, the alteration work shall 2 include installation of wall anchors at the roof line to resist seismic forces, unless an evaluation 3 demonstrates compliance of existing wall anchorage. For purposes of this section, design seismic 4 forces need not be taken greater than 75 percent of those that would be required for the design of 5 new buildings of similar structure, purpose and location. 6 [BS] 403.7 Bracing for unreinforced masonry parapets in major alterations. Where the 7 portion of the building undergoing the intended alteration exceeds 50 percent of the aggregate

8 area of the building, and where the building is assigned to Seismic Design Category C, D, E or F,

9 parapets constructed of unreinforced masonry shall have bracing installed as needed to resist out-

10 of plane seismic forces, unless an evaluation demonstrates compliance of such items. For

11 purposes of this section, design seismic forces need not be taken greater than 75 percent of those 12 that would be required for the design of similar nonstructural components in new buildings of similar purpose and location. 13

14 [BS] 403.8 Roof diaphragms resisting wind loads in high-wind regions. Where the intended 15 alteration requires a permit for reroofing and involves removal of roofing materials from more 16 than 50 percent of the roof diaphragm of a building or section of a building located where the 17 ultimate design wind speed is greater than 115 mph (51 m/s) in accordance with Figure 18 1609.3(1) of the International Building Code or in a special wind region as defined in Section 19 1609 of the International Building Code, roof diaphragms, connections of the roof diaphragm to 20 roof framing members, and roof to wall connections shall be evaluated for the wind loads 21 specified in Section 1609 of the International Building Code, including wind uplift. If the diaphragms and connections in their current condition are not capable of resisting at least 75

1	percent of those wind loads, they shall be replaced or strengthened in accordance with the loads
2	specified in Section 1609 of the International Building Code.
3	[BS] 403.9 Voluntary seismic improvements. Alterations to existing structural elements or
4	additions of new structural elements that are not otherwise required by this chapter and are
5	initiated for the purpose of improving the performance of the seismic force resisting system of an
6	existing structure or the performance of seismic bracing or anchorage of existing nonstructural
7	elements shall be permitted, provided that an engineering analysis is submitted demonstrating the
8	following:
9	1. The altered structure and the altered nonstructural elements are no less conforming to the
10	provisions of the International Building Code with respect to earthquake design than they
11	were prior to the alteration.
12	2. New structural elements are detailed as required for new construction.
13	3. New or relocated nonstructural elements are detailed and connected to existing or new
14	structural elements as required for new construction.
15	4. The alterations do not create a structural irregularity as defined in ASCE 7 or make an
16	existing structural irregularity more severe.))
17	((403.10)) 403.3 Smoke alarms. Individual sleeping units and individual dwelling units in
18	Group R and I-1 occupancies shall be provided with smoke alarms in accordance with Section
19	1103.8 of the International Fire Code.
20	((403.11)) 403.4 Refuge areas. Where <i>alterations</i> affect the configuration of an area utilized as a
21	refuge area, the capacity of the refuge area shall not be reduced below that required in Sections
22	$((403.11.1)) \underline{403.4.1}$ through $((403.11.3)) \underline{403.4.3}$.

1	((403.11.1)) 403.4.1 Smoke compartments. In Group I-2 and I-3 occupancies, the required
2	capacity of the refuge areas for smoke compartments in accordance with Sections 407.5.1
3	and 408.6.2 of the International Building Code shall be maintained.
4	((403.11.2)) 403.4.2 Ambulatory care. In ambulatory care facilities required to be separated
5	by Section 422.2 of the International Building Code, the required capacity of the refuge areas
6	for smoke compartments in accordance with Section 422.4 of the International Building
7	<i>Code</i> shall be maintained.
8	((403.11.3)) 403.4.3 Horizontal exits. The required capacity of the refuge area for horizontal
9	exits in accordance with Section 1026.4 of the International Building Code shall be
10	maintained.
11	SECTION 404
12	REPAIRS
13	404.1 General. Buildings and structures, and parts thereof, shall be <i>repaired</i> in compliance with
14	Section 303. ((Sections 401.2 and 404. Work on nondamaged components that is necessary for
15	the required <i>repair</i> of damaged components shall be considered part of the <i>repair</i> and shall not
16	be subject to the requirements for alterations in this chapter. Routine maintenance required by
17	Section 401.2, ordinary repairs exempt from permit in accordance with Section 105.2, and
18	abatement of wear due to normal service conditions shall not be subject to the requirements for
19	repairs in this section.
20	[BS] 404.2 Substantial structural damage to vertical elements of the lateral force-resisting
21	system. A building that has sustained substantial structural damage to the vertical elements of
22	its lateral force-resisting system shall be evaluated and repaired in accordance with the
23	applicable provisions of Sections 404.2.1 through 404.2.3.

1 Exceptions: 1. Buildings assigned to Seismic Design Category A, B or C whose substantial structural 2 3 damage was not caused by earthquake need not be evaluated or rehabilitated for load 4 combinations that include earthquake effects. 5 2. One and two family dwellings need not be evaluated or rehabilitated for load 6 combinations that include earthquake effects. 7 [BS] 404.2.1 Evaluation. The building shall be evaluated by a registered design 8 professional, and the evaluation findings shall be submitted to the building official. The 9 evaluation shall establish whether the damaged building, if repaired to its predamage state, 10 would comply with the provisions of the International Building Code for wind and 11 earthquake loads. 12 Wind loads for this evaluation shall be those prescribed in Section 1609 of the 13 International Building Code. Earthquake loads for this evaluation, if required, shall be 14 permitted to be 75 percent of those prescribed in Section 1613 of the International Building 15 *Code.* Alternatively, compliance with ASCE 41, using the performance objective in Table 301.1.4.2 for the applicable risk category, shall be deemed to meet the earthquake evaluation 16 17 requirement. 18 [BS] 404.2.2 Extent of repair for compliant buildings. If the evaluation establishes 19 compliance of the predamage building in accordance with Section 404.2.1, then repairs shall 20 be permitted that restore the building to its predamage state. 21 [BS] 404.2.3 Extent of repair for noncompliant buildings. If the evaluation does not 22 establish compliance of the predamage building in accordance with Section 404.2.1, then the

building shall be rehabilitated to comply with applicable provisions of the International

1	Building Code for load combinations that include wind or seismic loads. The wind loads for
2	the repair shall be as required by the building code in effect at the time of original
3	construction, unless the damage was caused by wind, in which case the wind loads shall be as
4	required by the International Building Code. Earthquake loads for this rehabilitation design
5	shall be those required for the design of the predamage building, but not less than 75 percent
6	of those prescribed in Section 1613 of the International Building Code. New structural
7	members and connections required by this rehabilitation design shall comply with the
8	detailing provisions of the International Building Code for new buildings of similar structure,
9	purpose and location. Alternatively, compliance with ASCE 41, using the performance
10	objective in Table 301.1.4.2 for the applicable risk category, shall be deemed to meet the
11	earthquake rehabilitation requirement.
12	[BS] 404.3 Substantial structural damage to gravity load-carrying components. Gravity
12 13	[BS] 404.3 Substantial structural damage to gravity load-carrying components. Gravity load carrying components that have sustained substantial structural damage shall be
13	load carrying components that have sustained substantial structural damage shall be
13 14	load carrying components that have sustained <i>substantial structural damage</i> shall be rehabilitated to comply with the applicable provisions of the <i>International Building Code</i> for
13 14 15	load carrying components that have sustained <i>substantial structural damage</i> shall be rehabilitated to comply with the applicable provisions of the <i>International Building Code</i> for dead and live loads. Snow loads shall be considered if the substantial structural damage was
13 14 15 16	load carrying components that have sustained <i>substantial structural damage</i> shall be rehabilitated to comply with the applicable provisions of the <i>International Building Code</i> for dead and live loads. Snow loads shall be considered if the substantial structural damage was caused by or related to snow load effects. Existing gravity load-carrying structural elements shall
13 14 15 16 17	load carrying components that have sustained <i>substantial structural damage</i> shall be rehabilitated to comply with the applicable provisions of the <i>International Building Code</i> for dead and live loads. Snow loads shall be considered if the substantial structural damage was caused by or related to snow load effects. Existing gravity load-carrying structural elements shall be permitted to be designed for live loads approved prior to the damage. If the approved live load
13 14 15 16 17 18	load carrying components that have sustained <i>substantial structural damage</i> shall be rehabilitated to comply with the applicable provisions of the <i>International Building Code</i> for dead and live loads. Snow loads shall be considered if the substantial structural damage was caused by or related to snow load effects. Existing gravity load carrying structural elements shall be permitted to be designed for live loads approved prior to the damage. If the approved live load is less than that required by Section 1607 of the <i>International Building Code</i> , the area designed
 13 14 15 16 17 18 19 	load carrying components that have sustained <i>substantial structural damage</i> shall be rehabilitated to comply with the applicable provisions of the <i>International Building Code</i> for dead and live loads. Snow loads shall be considered if the substantial structural damage was caused by or related to snow load effects. Existing gravity load-carrying structural elements shall be permitted to be designed for live loads approved prior to the damage. If the approved live load is less than that required by Section 1607 of the <i>International Building Code</i> , the area designed for the nonconforming live load shall be posted with placards of <i>approved</i> design indicating the
 13 14 15 16 17 18 19 20 	load carrying components that have sustained <i>substantial structural damage</i> shall be rehabilitated to comply with the applicable provisions of the <i>International Building Code</i> for dead and live loads. Snow loads shall be considered if the substantial structural damage was caused by or related to snow load effects. Existing gravity load-carrying structural elements shall be permitted to be designed for live loads approved prior to the damage. If the approved live load is less than that required by Section 1607 of the <i>International Building Code</i> , the area designed for the nonconforming live load shall be posted with placards of <i>approved</i> design indicating the <i>approved</i> live load. Nondamaged gravity load carrying components that receive dead, live or

1	connections required by this rehabilitation design shall comply with the detailing provisions of
2	the International Building Code for new buildings of similar structure, purpose and location.
3	[BS] 404.3.1 Lateral force-resisting elements. Regardless of the level of damage to vertical
4	elements of the lateral force-resisting system, if substantial structural damage to gravity
5	load carrying components was caused primarily by wind or earthquake effects, then the
6	building shall be evaluated in accordance with Section 404.2.1 and, if noncompliant,
7	rehabilitated in accordance with Section 404.2.3.
8	Exceptions:
9	1. One- and two-family dwellings need not be evaluated or rehabilitated for load
10	combinations that include earthquake effects.
11	2. Buildings assigned to Seismic Design Category A, B or C whose substantial
12	structural damage was not caused by earthquake need not be evaluated or
13	rehabilitated for load combinations that include earthquake effects.
14	[BS] 404.4 Less than substantial structural damage. For damage less than substantial
15	structural damage, repairs shall be allowed that restore the building to its predamage state. New
16	structural members and connections used for this repair shall comply with the detailing
17	provisions of the International Building Code for new buildings of similar structure, purpose and
18	location.
19	-[BS] 404.5 Flood hazard areas. For buildings and structures in flood hazard areas established
20	in Section 1612.3 of the International Building Code, or Section R322 of the International
21	Residential Code, as applicable, any repair that constitutes substantial improvement or repair of
22	substantial damage of the existing structure shall comply with the flood design requirements for

new construction, and all aspects of the existing structure shall be brought into compliance with
the requirements for new construction for flood design.
For buildings and structures in flood hazard areas established in Section 1612.3 of the
International Building Code, or Section R322 of the International Residential Code, as
applicable, any repairs that do not constitute substantial improvement or repair of substantial
damage of the existing structure are not required to comply with the flood design requirements
for new construction.))
SECTION 405
FIRE ESCAPES
405.1 Where permitted. Fire escapes <u>that are altered</u> shall <u>comply with this section</u> ((be
permitted only as provided for in Sections 405.1.1 through 405.1.2)).
((405.1.1 New buildings. Fire escapes shall not constitute any part of the required means of
egress in new buildings.
405.1.2 Existing fire escapes.)) Existing fire escapes shall continue to be accepted as a
component in the means of egress in existing buildings only.
((405.1.3 New fire escapes. New fire escapes for existing buildings shall be permitted only
where exterior stairways cannot be utilized due to lot lines limiting stairway size or due to the
sidewalks, alleys or roads at grade level. New fire escapes shall not incorporate ladders or
access by windows.
405.1.4 Limitations. Fire escapes shall comply with this section and shall not constitute
more than 50 percent of the required number of exits nor more than 50 percent of the
required exit capacity.))

1 **405.2 Location.** Where located on the front of the building and where projecting beyond the 2 building line, the lowest landing shall be not less than ((7)) 8 feet $((\frac{2134 \text{ mm}}{1000}))$ (2438 mm) or 3 more than 12 feet (3658 mm) above grade, and shall be equipped with a counterbalanced 4 stairway to the street. In alleyways and thoroughfares less than 30 feet (9144 mm) wide, the 5 clearance under the lowest landing shall be not less than 12 feet (3658 mm). 6 **405.3** Construction. The fire escape shall be designed to support a live load of 100 pounds per 7 square foot (4788 Pa) and shall be constructed of steel or other approved *noncombustible* 8 materials. ((Fire escapes constructed of wood not less than nominal 2 inches (51 mm) thick are 9 permitted on buildings of Type V construction. Walkways and railings located over or supported 10 by combustible roofs in buildings of Type III and IV construction are permitted to be of wood 11 not less than nominal 2 inches (51 mm) thick.)) *** 12 13 **406.3 Replacement window emergency escape and rescue openings.** Where windows are 14 required to provide *emergency escape* and *rescue openings* in Group R-2 and R-3 occupancies, 15 replacement windows shall be exempt from the requirements of Sections 1030.2, 1030.3 and 16 1030.5 of the International Building Code provided the replacement window meets the following conditions: 17 18 1. The replacement window is the manufacturer's largest standard size window that will fit 19 within the existing frame or existing rough opening. The replacement window shall be 20 permitted to be of the same operating style as the existing window or a style that provides 21 for an equal or greater window opening area than the existing window. 22 2. The replacement of the window is not part of a change of occupancy.

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SECTION 407

CHANGE OF OCCUPANCY

3	407.1 Conformance. No <i>change <u>of occupancy</u></i> shall be made in ((the use or occupancy of)) any
4	building or portion thereof unless such building is made to comply with the requirements of the
5	International Building Code for the use or occupancy. Changes ((in use or)) of occupancy in a
6	building or portion thereof shall be such that the <i>existing building</i> is no less complying with the
7	provisions of ((this code)) the International Building Code than the existing building or structure
8	was prior to the change. Subject to the approval of the ((building)) code official, ((the use or))
9	changes of occupancy ((of existing buildings)) shall be permitted ((to be changed and the
10	building is allowed to be occupied for purposes in other groups)) without conforming to all of the
11	requirements of this code for ((those groups)) the new occupancy, provided the new or proposed
12	use is ((less)) no more hazardous, based on life and fire risk, than the existing use.
13	Note: Conditions arising after the adoption of this code, and conditions not legally in
14	existence at the time of adoption of this code may trigger requirements based on International
15	Fire Code Section 102.1, including building upgrades.
16	Exceptions:
17	1. The building need not be made to comply with the seismic requirements for a new
18	structure unless required by Section ((407.4)) 305.2 .
19	2. Subject to the approval of the code official, an automatic sprinkler system is not
20	required in dwelling units according to Items 2.1 through 2.6 below. This exception is
21	permitted to be used for the change in occupancy for one dwelling unit after October
22	<u>29, 1990.</u>

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1	2.1 The occupancy of one unit is permitted to be changed to a dwelling unit without
2	an automatic sprinkler system unless sprinklers are otherwise required by this
3	chapter. If more than one unit is changed, the new units shall be equipped with a
4	sprinkler system.
5	2.2 In buildings that do not comply with the provisions of this code for number of
6	stories, allowable area, height or type of construction before the occupancy of the
7	unit is changed, an automatic sprinkler system shall be provided in the new unit.
8	The change of occupancy shall not be allowed if it increases the nonconformity.
9	2.3 In buildings undergoing substantial alteration, an automatic sprinkler system
10	shall be installed where required by this code for new construction.
11	2.4 The occupancy of one unit is permitted to be changed to a dwelling unit in an
12	existing duplex without an automatic sprinkler system where both of the
13	following conditions are met:
14	2.4.1 The project is considered a <i>substantial alteration</i> only because of the <i>change</i>
15	of occupancy; and
16	2.4.2 The building complies with the requirements for building height and number
17	of stories for a Group R-2 occupancy.
18	2.5 Where the occupancy of one unit is changed to a dwelling unit in an existing
19	duplex, sprinklers are required in the new unit and not in the existing units where
20	all of the following conditions are met:
21	2.5.1 The existing duplex does not comply with the requirements for building
22	height and story count for a Group R-2 occupancy;

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1	2.5.2 The project is considered a substantial alteration only because of the change
2	<u>of occupancy;</u>
3	2.5.3 The new unit is constructed as an <i>addition</i> to the duplex;
4	2.5.4 The new unit is separated from the existing duplex by a fire wall; and
5	2.5.5 The addition by itself complies with the requirements for a Group $R-2$
6	occupancy.
7	2.6 A sprinkler system is not required when a Group U occupancy that is accessory to
8	a Group R-3 occupancy is converted to a dwelling unit.
9	407.1.1 Change in the ((character of)) group or use. A change in occupancy with no
10	change of occupancy classification shall not be made to any structure that will subject the
11	structure to any special provisions of the applicable International Codes, without approval of
12	the ((<i>building</i>)) <u>code</u> official. Compliance shall be only as necessary to meet the specific
13	provisions and is not intended to require the entire building be brought into compliance.
	Note: The following illustrate how <i>change of occupancy</i> is interpreted:
	• Change in classification is a change in the letter designation. An example is a
	change from B occupancy to R occupancy.
	• Change in occupancy group is change in the number designation within an
	occupancy classification. An example is a change from group R-1 occupancy to
	R-2 occupancy.
	• Change of use is a change in the subcategory within the occupancy group. An
	example is a change from R-2 apartment to R-2 boarding house.
14	

1	407.2 Conversion to residential occupancy. Upon conversion of an <i>existing building</i> , or
2	portion thereof, to residential occupancy, International Building Code Sections 420, 1203 and
3	2902 shall apply, and the elements of the dwelling unit envelope that are altered shall comply
4	with the sound transmission control requirements of International Building Code Section 1207.
5	((407.2 Certificate of occupancy. A certificate of occupancy shall be issued where it has been
6	determined that the requirements for the new occupancy classification have been met.))
7	407.3 Stairways. Subject to the approval of the code official, existing stairways shall not be
8	required to comply with the requirements of Sections 1011.3 and 1011.5.2 of the International
9	Building Code where the existing space and construction does not allow a reduction in pitch or
10	slope.
11	[BS] 407.4 Structural. When a <i>change of occupancy</i> results in a structure being reclassified to a
12	higher risk category, the structure shall comply with Section 305.2. ((conform to the seismic
13	requirements for a new structure of the higher risk category. For purposes of this section,
14	compliance with ASCE 41, using a Tier 3 procedure and the two-level performance objective in
15	Table 301.1.4.1 for the applicable risk category, shall be deemed to meet the requirements of
16	Section 1613 of the International Building Code.
17	Exceptions:
18	1. Specific seismic detailing requirements of Section 1613 of the International Building
19	Code for a new structure shall not be required to be met where the seismic
20	performance is shown to be equivalent to that of a new structure. A demonstration of
21	equivalence shall consider the regularity, overstrength, redundancy and ductility of
22	the structure.

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1	2. When a change of use results in a structure being reclassified from Risk Category I or
2	II to Risk Category III and the structure is located where the seismic coefficient, SDS,
3	is less than 0.33, compliance with the seismic requirements of Section 1613 of the
4	International Building Code is not required.))
5	407.5 Substantial alterations. Changes of occupancy that are substantial alterations shall
6	comply with Section 304.
7	SECTION 408
8	((HISTORIC BUILDINGS)) LANDMARKS
9	408.1 ((Historic buildings)) Landmark Buildings. Landmark buildings shall comply with
10	Section 306. ((The provisions of this code that require improvements relative to a building's
11	existing condition or, in the case of repairs, that require improvements relative to a building's
12	predamage condition, shall not be mandatory for historic buildings unless specifically required
13	by this section.
14	408.2 Life safety hazards. The provisions of this code shall apply to historic buildings judged
15	by the building official to constitute a distinct life safety hazard.
16	[BS] 408.3 Flood hazard areas. Within flood hazard areas established in accordance with
17	Section 1612.3 of the International Building Code, or Section R322 of the International
18	Residential Code, as applicable, where the work proposed constitutes substantial improvement,
19	the building shall be brought into compliance with Section 1612 of the International Building
20	Code, or Section R322 of the International Residential Code, as applicable:
21	Exception: Historic buildings need not be brought into compliance that are:
22	1. Listed or preliminarily determined to be eligible for listing in the National Register of
23	Historic Places;
1	2. Determined by the Secretary of the U.S. Department of Interior as contributing to the
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2	historical significance of a registered historic district or a district preliminarily
3	determined to qualify as an historic district; or
4	3. Designated as historic under a state or local historic preservation program that is
5	approved by the Department of Interior.))
6	SECTION 409
7	MOVED STRUCTURES
8	409.1 Conformance. Structures moved into or within the jurisdiction shall comply with the
9	provisions of <u>Section</u> 309((the International Building Code for new structures)).
10	SECTION 410
11	ACCESSIBILITY FOR EXISTING BUILDINGS
12	410.1 Scope. ((The provisions of Sections 410.1 through 410.9 apply to maintenance,))
13	Maintenance, change of occupancy, additions and alterations to existing buildings ((, including
14	those identified as historic buildings)) shall comply with Section 307.
15	((410.2 Maintenance of facilities. A <i>facility</i> that is constructed or altered to be accessible shall
16	be maintained accessible during occupancy.
17	410.3 Extent of application. An <i>alteration</i> of an existing <i>facility</i> shall not impose a requirement
18	for greater accessibility than that which would be required for new construction. Alterations shall
19	not reduce or have the effect of reducing accessibility of a <i>facility</i> or portion of a <i>facility</i> .
20	410.4 Change of occupancy. Existing buildings that undergo a change of group or occupancy
21	shall comply with this section.
22	Exception: Type B dwelling or sleeping units required by Section 1107 of the International
23	Building Code are not required to be provided in existing buildings and facilities undergoing

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1	a change of occupancy in conjunction with alterations where the work area is 50 percent or
2	less of the aggregate area of the building.
3	410.4.1 Partial change in occupancy. Where a portion of the building is changed to a new
4	occupancy classification, any alterations shall comply with Sections 410.6, 410.7 and 410.8.
5	410.4.2 Complete change of occupancy. Where an entire building undergoes a change of
6	occupancy, it shall comply with Section 410.4.1 and shall have all of the following accessible
7	features:
8	1. At least one accessible building entrance.
9	2. At least one accessible route from an accessible building entrance to primary function
10	areas.
11	3. Signage complying with Section 1111 of the International Building Code.
12	4. Accessible parking, where parking is being provided.
13	5. At least one accessible passenger loading zone, when loading zones are provided.
14	6. At least one accessible route connecting accessible parking and accessible passenger
15	loading zones to an accessible entrance.
16	Where it is <i>technically infeasible</i> to comply with the new construction standards for any
17	of these requirements for a change of group or occupancy, the above items shall conform to
18	the requirements to the maximum extent technically feasible.
19	Exception: The accessible features listed in Items 1 through 6 are not required for an
20	accessible route to Type B units.
21	410.5 Additions. Provisions for new construction shall apply to additions. An addition that
22	affects the accessibility to, or contains an area of, a primary function shall comply with the
23	requirements in Section 410.7.

1	410.6 Alterations. A <i>facility</i> that is altered shall comply with the applicable provisions in
2	Chapter 11 of the International Building Code, unless technically infeasible. Where compliance
3	with this section is <i>technically infeasible</i> , the <i>alteration</i> shall provide access to the maximum
4	extent technically feasible.
5	Exceptions:
6	1. The altered element or space is not required to be on an accessible route, unless
7	required by Section 410.7.
8	2. Accessible means of egress required by Chapter 10 of the International Building Code
9	are not required to be provided in existing facilities.
10	3. The alteration to Type A individually owned dwelling units within a Group R-2
11	occupancy shall be permitted to meet the provision for a Type B dwelling unit.
12	4. Type B dwelling or sleeping units required by Section 1107 of the International
13	Building Code are not required to be provided in existing buildings and facilities
14	undergoing a change of occupancy in conjunction with alterations where the work area
15	is 50 percent or less of the aggregate area of the building.
16	410.7 Alterations affecting an area containing a primary function. Where an alteration
17	affects the accessibility to, or contains an area of <i>primary function</i> , the route to the <i>primary</i>
18	function area shall be accessible. The accessible route to the primary function area shall include
19	toilet facilities and drinking fountains serving the area of primary function.
20	Exceptions:
21	1. The costs of providing the accessible route are not required to exceed 20 percent of the
22	costs of the alterations affecting the area of primary function.

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1	2. This provision does not apply to <i>alterations</i> limited solely to windows, hardware,	
2	operating controls, electrical outlets and signs.	
3	3. This provision does not apply to <i>alterations</i> limited solely to mechanical systems,	
4	electrical systems, installation or alteration of fire protection systems and abatement of	
5	hazardous materials.	
6	4. This provision does not apply to alterations undertaken for the primary purpose of	
7	increasing the accessibility of a <i>facility</i> .	
8	5. This provision does not apply to altered areas limited to Type B dwelling and sleeping	
9	units.	
10	410.8 Scoping for alterations. The provisions of Sections 410.8.1 through 410.8.14 shall apply	
11	to alterations to existing buildings and facilities.	
12	410.8.1 Entrances. Accessible entrances shall be provided in accordance with Section 1105.	
13	Exception: Where an <i>alteration</i> includes alterations to an entrance, and the <i>facility</i> has an	
14	accessible entrance, the altered entrance is not required to be accessible, unless required	
15	by Section 410.7. Signs complying with Section 1111 of the International Building Code	
16	shall be provided.	
17	410.8.2 Elevators. Altered elements of existing elevators shall comply with ASME A17.1	
18	and ICC A117.1. Such elements shall also be altered in elevators programmed to respond to	
19	the same hall call control as the altered elevator.	
20	410.8.3 Platform lifts. Platform (wheelchair) lifts complying with ICC A117.1 and installed	
21	in accordance with ASME A18.1 shall be permitted as a component of an accessible route.	
22	410.8.4 Stairways and escalators in existing buildings. In alterations, change of occupancy	
23	or additions where an escalator or stairway is added where none existed previously and major	
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	SDCI 2015 Seattle Existing Building Code ORD D1c	
1	structural modifications are necessary for ins	tallation, an accessible route shall be provided
2	between the levels served by the escalator or	stairways in accordance with Section 1104.4 of
3	the International Building Code.	
4	410.8.5 Ramps. Where slopes steeper than a	llowed by Section 1012.2 of the International
5	Building Code are necessitated by space limit	tations, the slope of ramps in or providing
6	access to existing facilities shall comply with	Table 410.8.5.
7	TABLE	4 10.8.5
8	RAMPS	
	SLOPE	MAXIMUM RISE
	Steeper than 1:10 but not steeper than 1:8	3 inches
	Steeper than 1:12 but not steeper than 1:10	6 inches
10 11	For SI: 1 inch = 25.4 mm. 410.8.6 Accessible dwelling or sleeping uni	ts. Where Group I-1, I-2, I-3, R-1, R-2 or R-4
12		r added, the requirements of Section 1107 of the
12		added, the requirements of Section 1107 of the
13	International Building Code for Accessible u	nits apply only to the quantity of spaces being
14	altered or added.	
15	410.8.7 Type A dwelling or sleeping units.	Where more than 20 Group R-2 dwelling or
16	sleeping units are being altered or added, the	requirements of Section 1107 of the
17	International Building Code for Type A units	apply only to the quantity of the spaces being
18	altered or added.	
19	410.8.8 Type B dwelling or sleeping units.	Where four or more Group I-1, I-2, R-1, R-2, or
20	R-3 ((or R-4)) dwelling or sleeping units are	being added, the requirements of Section 1107
21	of the International Building Code for Type	B units apply only to the quantity of the spaces
22	being added. Where Group I-1, I-2, R-1, R-2,	. or R 3 ((or R 4)) dwelling or sleeping units are

1	being altered and where the work area is greater than 50 percent of the aggregate area of the
2	building, the requirements of Section 1107 of the International Building Code for Type B
3	units apply only to the quantity of the spaces being altered.
4	410.8.9 Jury boxes and witness stands. In alterations, accessible wheelchair spaces are not
5	required to be located within the defined area of raised jury boxes or witness stands and shall
6	be permitted to be located outside these spaces where the ramp or lift access restricts or
7	projects into the means of egress.
8	410.8.10 Toilet rooms. Where it is technically infeasible to alter existing toilet and bathing
9	rooms to be accessible, an accessible family or assisted-use toilet or bathing room
10	constructed in accordance with Section 1109.2.1 of the International Building Code is
11	permitted. The family or assisted-use toilet or bathing room shall be located on the same
12	floor and in the same area as the existing toilet or bathing rooms.
13	At the inaccessible toilet and bathing rooms, provide directional signs indicating the
14	location of the nearest family or assisted-use toilet room or bathing room. These directional
15	signs shall include the International Symbol of Accessibility and sign characters shall meet
16	the visual character requirements in accordance with ICC A117.1.
17	410.8.11 Dressing, fitting and locker rooms. Where it is technically infeasible to provide
18	accessible dressing, fitting or locker rooms at the same location as similar types of rooms,
19	one accessible room on the same level shall be provided. Where separate-sex facilities are
20	provided, accessible rooms for each sex shall be provided. Separate sex facilities are not
21	required where only unisex rooms are provided.

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1	410.8.12 Fuel dispensers. Operable parts of replacement fuel dispensers shall be permitted
2	to be 54 inches (1370 mm) maximum, measuring from the surface of the vehicular way
3	where fuel dispensers are installed on existing curbs.
4	410.8.13 Thresholds. The maximum height of thresholds at doorways shall be 3/4 inch (19.1
5	mm). Such thresholds shall have beveled edges on each side.
6	410.8.14 Amusement rides. Where the structural or operational characteristics of an
7	amusement ride are altered to the extent that the amusement ride's performance differs from
8	that specified by the manufacturer or the original design, the amusement ride shall comply
9	with requirements for new construction in Section 1110.4.8 of the International Building
10	Code.
11	410.9 Historic buildings. These provisions shall apply to <i>facilities</i> designated as historic
12	structures that undergo alterations or a change of occupancy, unless technically infeasible.
13	Where compliance with the requirements for accessible routes, entrances or toilet rooms would
14	threaten or destroy the historic significance of the <i>facility</i> , as determined by the applicable
15	governing authority, the alternative requirements of Sections 410.9.1 through 410.9.4 for that
16	element shall be permitted.
17	Exception: Type B dwelling or sleeping units required by Section 1107 of the International
18	Building Code are not required to be provided in historical buildings.
19	410.9.1 Site arrival points. At least one accessible route from a site arrival point to an
20	accessible entrance shall be provided.
21	410.9.2 Multilevel buildings and facilities. An accessible route from an accessible entrance
22	to public spaces on the level of the accessible entrance shall be provided.

1	410.9.3 Entrances. At least one main entrance shall be accessible.
2	Exceptions:
3	1. If a main entrance cannot be made accessible, an accessible nonpublic entrance that
4	is unlocked while the building is occupied shall be provided; or
5	2. If a main entrance cannot be made accessible, a locked accessible entrance with a
6	notification system or remote monitoring shall be provided.
7	Signs complying with Section 1111 of the International Building Code shall be
8	provided at the primary entrance and the accessible entrance.
9	410.9.4 Toilet and bathing facilities. Where toilet rooms are provided, at least one
10	accessible family or assisted use toilet room complying with Section 1109.2.1 of the
11	International Building Code shall be provided.))
12	Section 6. The following sections of Chapter 5 of the International Existing Building
13	Code, 2015 Edition, are amended as follows:
	CHAPTER 5
14	CLASSIFICATION OF WORK
15	SECTION 501
16	GENERAL
17	501.1 Scope. The provisions of this chapter shall be used in conjunction with Chapters ((6)) $\underline{7}$
18	through ((13)) <u>11 and 13</u> and shall apply to the <i>alteration</i> , ((<i>repair</i> ,)) <i>addition</i> and <i>change of</i>
19	occupancy of existing structures((, including historic and moved structures, as referenced in
20	Section 301.1.2)). The work performed on an <i>existing building</i> shall be classified in accordance
21	with this chapter.

1	Note: All alterations, additions and changes of occupancy are required to comply with
2	Chapter 3.
3	501.1.1 Compliance with other alternatives. <i>Alterations</i> , ((<i>repairs</i>)) <i>additions</i> and <i>changes</i>
4	of occupancy to existing structures shall comply with the provisions of Chapters <u>3 and</u> ((6)) <u>7</u>
5	through $((13))$ <u>11</u> or with one of the alternatives provided in Section 301.1.
6	501.2 Work area. The <i>work area</i> , as defined in Chapter 2, shall be identified on the construction
7	documents.
8	SECTION 502
9	REPAIRS
10	502.1 ((Scope. Repairs, as defined in Chapter 2, include the patching or restoration or
11	replacement of damaged materials, elements, equipment or fixtures for the purpose of
12	maintaining such components in good or sound condition with respect to existing loads or
13	performance requirements.
14	502.2)) Application. <i>Repairs</i> shall comply with <u>Section 303</u> ((the provisions of Chapter 6)).
15	((502.3 Related work. Work on nondamaged components that is necessary for the required
16	repair of damaged components shall be considered part of the repair and shall not be subject to
17	the provisions of Chapter 7, 8, 9, 10 or 11.))
18	***
19	SECTION 508
20	((HISTORIC BUILDINGS)) LANDMARKS
21	508.1 Scope. ((Historic building provisions)) Landmarks shall ((apply to buildings classified as
22	historic as defined in Chapter 2)) comply with the provisions of Section 306.

1	((508.2 Application. Except as specifically provided for in Chapter 12, historic buildings shall
2	comply with applicable provisions of this code for the type of work being performed.))
3	SECTION 509
4	RELOCATED BUILDINGS
5	509.1 Scope. Relocated building provisions shall apply to relocated or moved buildings.
6	509.2 Application. Relocated buildings shall comply with the provisions of ((Chapter 13))
7	Section 309.
8	Section 7. The following sections of Chapter 7 of the International Existing Building
9	Code, 2015 Edition, are amended as follows:
	CHAPTER 7
10	ALTERATIONS – LEVEL 1
11	SECTION 701
10	
12	GENERAL
12 13	GENERAL 701.1 Scope. Level 1 <i>alterations</i> as described in Section 503 shall comply with the requirements
13	701.1 Scope. Level 1 <i>alterations</i> as described in Section 503 shall comply with the requirements
13 14	701.1 Scope. Level 1 <i>alterations</i> as described in Section 503 shall comply with the requirements of this chapter. ((Level 1 <i>alterations</i> to <i>historic buildings</i> shall comply with this chapter, except
13 14 15	701.1 Scope. Level 1 <i>alterations</i> as described in Section 503 shall comply with the requirements of this chapter. ((Level 1 <i>alterations</i> to <i>historic buildings</i> shall comply with this chapter, except as modified in Chapter 12.))
13 14 15 16	 701.1 Scope. Level 1 <i>alterations</i> as described in Section 503 shall comply with the requirements of this chapter. ((Level 1 <i>alterations</i> to <i>historic buildings</i> shall comply with this chapter, except as modified in Chapter 12.)) 701.2 Conformance. An <i>existing building</i> or portion thereof shall not be altered such that the
13 14 15 16 17	 701.1 Scope. Level 1 <i>alterations</i> as described in Section 503 shall comply with the requirements of this chapter. ((Level 1 <i>alterations</i> to <i>historic buildings</i> shall comply with this chapter, except as modified in Chapter 12.)) 701.2 Conformance. An <i>existing building</i> or portion thereof shall not be altered such that the building becomes less safe than its existing condition.
13 14 15 16 17 18	 701.1 Scope. Level 1 <i>alterations</i> as described in Section 503 shall comply with the requirements of this chapter. ((Level 1 <i>alterations</i> to <i>historic buildings</i> shall comply with this chapter, except as modified in Chapter 12.)) 701.2 Conformance. An <i>existing building</i> or portion thereof shall not be altered such that the building becomes less safe than its existing condition. Exception: Where the current level of safety or sanitation is proposed to be reduced, the
13 14 15 16 17 18 19	 701.1 Scope. Level 1 <i>alterations</i> as described in Section 503 shall comply with the requirements of this chapter. ((Level 1 <i>alterations</i> to <i>historic buildings</i> shall comply with this chapter, except as modified in Chapter 12.)) 701.2 Conformance. An <i>existing building</i> or portion thereof shall not be altered such that the building becomes less safe than its existing condition. Exception: Where the current level of safety or sanitation is proposed to be reduced, the portion altered shall conform to the requirements of the <i>International Building Code</i>.
13 14 15 16 17 18 19 20	 701.1 Scope. Level 1 <i>alterations</i> as described in Section 503 shall comply with the requirements of this chapter. ((Level 1 <i>alterations</i> to <i>historic buildings</i> shall comply with this chapter, except as modified in Chapter 12.)) 701.2 Conformance. An <i>existing building</i> or portion thereof shall not be altered such that the building becomes less safe than its existing condition. Exception: Where the current level of safety or sanitation is proposed to be reduced, the portion altered shall conform to the requirements of the <i>International Building Code</i>. (([BS] 701.3 Flood hazard areas. In <i>flood hazard areas, alterations</i> that constitute <i>substantial</i>

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1	SECTION 702
2	BUILDING ELEMENTS AND MATERIALS
3	***
4	702.4 Window opening control devices. In Group R-2 or R-3 buildings containing dwelling
5	units ((and one- and two-family dwellings and townhouses regulated by the International
6	Residential Code)), window opening control devices complying with ASTM F 2090 shall be
7	installed where an existing window is replaced and where all of the following apply to the
8	replacement window:
9	1. The window is operable;
10	2. The window replacement includes replacement of the sash and the frame;
11	((3. One of the following applies:))
12	<u>3.</u> ((3.1.)) In Group R-2 or R-3 buildings containing dwelling units, the top of the sill of the
13	window opening is at a height less than 36 inches (915 mm) above the finished floor; ((Θ r))
14	((3.2. In one- and two-family dwellings and townhouses regulated by the International
15	Residential Code, the top sill of the window opening is at a height less than 24 inches
16	(610 mm) above the finished floor;))
17	4. The window will permit openings that will allow passage of a 4-inch-diameter (102 mm)
18	sphere when the window is in its largest opened position; and
19	5. The vertical distance from the top of the sill of the window opening to the finished grade
20	or other surface below, on the exterior of the building, is greater than 72 inches (1829 mm).
21	The window opening control device, after operation to release the control device allowing the
22	window to fully open, shall not reduce the minimum net clear opening area of the window unit to
23	less than the area required by the International Building Code.

Exceptions:

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1. Operable windows where the top of the sill of the window opening is located more than 75 feet (22 860 mm) above the finished grade or other surface below, on the exterior of the room, space or building, and that are provided with window fall prevention devices that comply with ASTM F 2006.

2. Operable windows with openings that are provided with window fall prevention devices that comply with ASTM F 2090.

702.5 Emergency escape and rescue openings. Where windows are required to provide
emergency escape and rescue openings in Group R-2 and R-3 occupancies ((and one- and twofamily dwellings and townhouses regulated by the *International Residential Code*)), replacement
windows shall be exempt from the requirements of Sections 1030.2, 1030.3 and 1030.5 of the

12 International Building Code ((and Sections R310.2.1 and R310.2.3 of the International

Residential Code accordingly)), provided the replacement window is the manufacturer's largest standard size window that will fit within the existing frame or existing rough opening. The replacement window shall be permitted to be of the same operating style as the existing window or a style that provides for an equal or greater window opening area than the existing window. Window opening control devices complying with ASTM F 2090 shall be permitted for use on windows required to provide *emergency escape* and *rescue openings*.

702.6 Materials and methods. All new work shall comply with the materials and methods
requirements in the *International Building Code*, *International Energy Conservation Code*, *International Mechanical Code*, and ((*International*)) <u>Uniform Plumbing Code</u>, as applicable,
that specify material standards, detail of installation and connection, joints, penetrations, and
continuity of any element, component, or system in the building.

1	***
2	SECTION 705
3	ACCESSIBILITY
4	705.1 General. A <i>facility</i> that is altered shall comply with the applicable provisions of Section
5	307 ((in Sections 705.1.1 through 705.1.14, and Chapter 11 of the International Building Code
6	unless it is technically infeasible. Where compliance with this section is technically infeasible,
7	the alteration shall provide access to the maximum extent that is technically feasible)).
8	A facility that is constructed or altered to be accessible shall be maintained accessible during
9	occupancy.
10	Exceptions:
11	1. The altered element or space is not required to be on an accessible route unless
12	required by Section 705.2.
13	2. Accessible means of egress required by Chapter 10 of the International Building Code
14	are not required to be provided in existing <i>facilities</i> .
15	3. Type B dwelling or sleeping units required by Section 1107 of the International
16	Building Code are not required to be provided in existing facilities undergoing less than
17	a Level 3 alteration.
18	4. The alteration to Type A individually owned dwelling units within a Group R-2
19	occupancy shall meet the provisions for Type B dwelling units.
20	705.1.1 Entrances. Where an <i>alteration</i> includes alterations to an entrance, and the <i>facility</i>
21	has an accessible entrance on an accessible route, the altered entrance is not required to be
22	accessible unless required by Section 705.2. Signs complying with Section 1111 of the
23	International Building Code shall be provided.

1	705.1.2 Elevators. Altered elements of existi	ng elevators shall comply with ASME
2	A17.1/CSA B44 and ICC A117.1. Such elem	ents shall also be altered in elevators
3	programmed to respond to the same hall call	control as the altered elevator.
4	705.1.3 Platform lifts. Platform (wheelchair)	lifts complying with ICC A117.1 and installed
5	in accordance with ASME A18.1 shall be per	mitted as a component of an accessible route.
6	705.1.4 Ramps. Where steeper slopes than al	lowed by Section 1012.2 of the International
7	Building Code are necessitated by space limit	ations, the slope of ramps in or providing
8	access to existing facilities shall comply with	Table 705.1.4.
9	TABLE	705.1.4
10	RAN	APS
	SLOPE	MAXIMUM RISE
	Steeper than 1:10 but not steeper than 1:8	3 inches
	Steeper than 1:12 but not steeper than 1:10	6 inches
11		
12	For SI: 1 inch = 25.4 mm.	
13	705.1.5 Dining areas. An accessible route to	raised or sunken dining areas or to outdoor
14	seating areas is not required provided that the	

accessible space usable by any occupant and not restricted to use by people with a disability.

705.1.6 Jury boxes and witness stands. In alterations, accessible wheelchair spaces are not

17 required to be located within the defined area of raised jury boxes or witness stands and shall

18 be permitted to be located outside these spaces where ramp or lift access poses a hazard by

19 restricting or projecting into a required means of egress.

705.1.7 Accessible dwelling or sleeping units. Where Group I-1, I-2, I-3, R-1, R-2 or R-4

21 dwelling or sleeping units are being altered, the requirements of Section 1107 of the

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1	International Building Code for Accessible units apply only to the quantity of the spaces	
2	being altered.	
3	705.1.8 Type A dwelling or sleeping units. Where more than 20 Group R-2 dwelling or	
4	sleeping units are being altered, the requirements of Section 1107 of the International	
5	Building Code for Type A units and Chapter 9 of the International Building Code for visible	
6	alarms apply only to the quantity of the spaces being altered.	
7	705.1.9 Toilet rooms. Where it is technically infeasible to alter existing toilet and bathing	
8	rooms to be accessible, an accessible family or assisted use toilet or bathing room	
9	constructed in accordance with Section 1109.2.1 of the International Building Code is	
10	permitted. The family or assisted use toilet or bathing room shall be located on the same	
11	floor and in the same area as the existing toilet or bathing rooms. At the inaccessible toilet	
12	and bathing rooms, directional signs indicating the location of the nearest family or assisted-	
13	use toilet room or bathing room shall be provided. These directional signs shall include the	
14	International Symbol of Accessibility and sign characters shall meet the visual character	
15	requirements in accordance with ICC A117.1.	
16	705.1.10 Dressing, fitting and locker rooms. Where it is <i>technically infeasible</i> to provide	
17	accessible dressing, fitting, or locker rooms at the same location as similar types of rooms,	
18	one accessible room on the same level shall be provided. Where separate sex facilities are	
19	provided, accessible rooms for each sex shall be provided. Separate sex facilities are not	
20	required where only unisex rooms are provided.	
21	705.1.11 Fuel dispensers. Operable parts of replacement fuel dispensers shall be permitted	
22	to be 54 inches (1370 mm) maximum measured from the surface of the vehicular way where	
23	fuel dispensers are installed on existing curbs.	

1	705.1.12 Thresholds. The maximum height of thresholds at doorways shall be 3/4 inch (19.1
2	mm). Such thresholds shall have beveled edges on each side.
3	705.1.13 Extent of application. An alteration of an existing element, space, or area of a
4	facility shall not impose a requirement for greater accessibility than that which would be
5	required for new construction. Alterations shall not reduce or have the effect of reducing
6	accessibility of a <i>facility</i> or portion of a <i>facility</i> .
7	705.1.14 Amusement rides. Where the structural or operational characteristics of an
8	amusement ride are altered to the extent that the amusement ride's performance differs from
9	that specified by the manufacturer or the original design, the amusement ride shall comply
10	with requirements for new construction in accordance with Section 1110.4.8 of the
11	International Building Code.
12	705.2 Alterations affecting an area containing a primary function. Where an alteration
13	affects the accessibility to a, or contains an area of, primary function, the route to the primary
14	function area shall be accessible. The accessible route to the primary function area shall include
15	toilet facilities and drinking fountains serving the area of primary function.
16	Exceptions:
17	1. The costs of providing the accessible route are not required to exceed 20 percent of the
18	costs of the alterations affecting the area of primary function.
19	2. This provision does not apply to <i>alterations</i> limited solely to windows, hardware,
20	operating controls, electrical outlets and signs.
21	3. This provision does not apply to <i>alterations</i> limited solely to mechanical systems,
22	electrical systems, installation or alteration of fire protection systems and abatement of
23	hazardous materials.

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1	4. This provision does not apply to <i>alterations</i> undertaken for the primary purpose of
2	increasing the accessibility of a <i>facility</i> .
3	5. This provision does not apply to altered areas limited to Type B dwelling and sleeping
4	units.))
5	((SECTION 706
6	REROOFING
7	[BS] 706.1 General. Materials and methods of application used for recovering or replacing an
8	existing roof covering shall comply with the requirements of Chapter 15 of the International
9	Building Code.
10	Exception: Reroofing shall not be required to meet the minimum design slope requirement
11	of one-quarter unit vertical in 12 units horizontal (2-percent slope) in Section 1507 of the
12	International Building Code for roofs that provide positive roof drainage.
13	[BS] 706.2 Structural and construction loads. Structural roof components shall be capable of
14	supporting the roof-covering system and the material and equipment loads that will be
15	encountered during installation of the system.
16	[BS] 706.3 Recovering versus replacement. New roof coverings shall not be installed without
17	first removing all existing layers of roof coverings down to the roof deck where any of the
18	following conditions occur:
19	1. Where the existing roof or roof covering is water soaked or has deteriorated to the point
20	that the existing roof or roof covering is not adequate as a base for additional roofing.
21	2. Where the existing roof covering is wood shake, slate, clay, cement or asbestos cement
22	tile.
23	3. Where the existing roof has two or more applications of any type of roof covering.

1	Exceptions:
2	1. Complete and separate roofing systems, such as standing seam metal roof systems,
3	that are designed to transmit the roof loads directly to the building's structural
4	system and that do not rely on existing roofs and roof coverings for support, shall
5	not require the removal of existing roof coverings.
6	2. Metal panel, metal shingle and concrete and clay tile roof coverings shall be
7	permitted to be installed over existing wood shake roofs when applied in
8	accordance with Section 706.4.
9	3. The application of a new protective coating over an existing spray polyurethane
10	foam roofing system shall be permitted without tear off of existing roof coverings.
11	4. Where the existing roof assembly includes an ice barrier membrane that is adhered
12	to the roof deck, the existing ice barrier membrane shall be permitted to remain in
13	place and covered with an additional layer of ice barrier membrane in accordance
14	with Section 1507 of the International Building Code.
15	[BS] 706.4 Roof recovering. Where the application of a new roof covering over wood shingle or
16	shake roofs creates a combustible concealed space, the entire existing surface shall be covered
17	with gypsum board, mineral fiber, glass fiber or other approved materials securely fastened in
18	place.
19	[BS] 706.5 Reinstallation of materials. Existing slate, clay or cement tile shall be permitted for
20	reinstallation, except that damaged, cracked or broken slate or tile shall not be reinstalled.
21	Existing vent flashing, metal edgings, drain outlets, collars and metal counter flashings shall not
22	be reinstalled where rusted, damaged or deteriorated. Aggregate surfacing materials shall not be
23	reinstalled.

1	[BS] 706.6 Flashings. Flashings shall be reconstructed in accordance with approved
2	manufacturer's installation instructions. Metal flashing to which bituminous materials are to be
3	adhered shall be primed prior to installation.))
4	SECTION 707
5	STRUCTURAL
6	[BS] 707.1 General. Where alteration work includes replacement of equipment that is supported
7	by the building or where a reroofing permit is required, the provisions of this section, Section
8	305.1, and Section 308 shall apply.
9	(([BS] 707.2 Addition or replacement of roofing or replacement of equipment. Where
10	addition or replacement of roofing or replacement of equipment results in additional dead loads,
11	structural components supporting such reroofing or equipment shall comply with the gravity load
12	requirements of the International Building Code.
13	Exceptions:
14	1. Structural elements where the additional dead load from the roofing or equipment does
15	not increase the force in the element by more than 5 percent.
16	2. Buildings constructed in accordance with the ((International Residential Code or the
17))conventional light-frame construction methods of the International Building Code
18	and where the dead load from the roofing or equipment is not increased by more than 5
19	percent.
20	3. Addition of a second layer of roof covering weighing 3 pounds per square foot (0.1437
21	kN/m ²) or less over an existing, single layer of roof covering.
22	[BS] 707.3 Additional requirements for reroof permits. The requirements of this section shall
23	apply to alteration work requiring reroof permits.

Kathleen Petrie SDCI 2015 Seattle Existing Building Code ORD D1c

	D1c
1	[BS] 707.3.1 Bracing for unreinforced masonry bearing wall parapets. Where a permit is
2	issued for reroofing for more than 25 percent of the roof area of a building assigned to
3	Seismic Design Category D, E or F that has parapets constructed of unreinforced masonry,
4	the work shall include installation of parapet bracing to resist the reduced International
5	Building Code level seismic forces as specified in Section 301.1.4.2 of this code, unless an
6	evaluation demonstrates compliance of such items.
7	[BS] 707.3.2 Roof diaphragms resisting wind loads in high-wind regions. Where roofing
8	materials are removed from more than 50 percent of the roof diaphragm or section of a
9	building located where the ultimate design wind speed, Vult, determined in accordance with
10	Figure 1609.3(1) of the International Building Code, is greater than 115 mph (51 m/s) or in a
11	special wind region, as defined in Section 1609 of the International Building Code, roof
12	diaphragms, connections of the roof diaphragm to roof framing members, and roof-to-wall
13	connections shall be evaluated for the wind loads specified in the International Building
14	Code, including wind uplift. If the diaphragms and connections in their current condition are
15	not capable of resisting at least 75 percent of those wind loads, they shall be replaced or
16	strengthened in accordance with the loads specified in the International Building Code.))
17	((SECTION 708
18	ENERGY CONSERVATION
19	708.1 Minimum requirements. Level 1 alterations to existing buildings or structures are
20	permitted without requiring the entire building or structure to comply with the energy
21	requirements of the International Energy Conservation Code or International Residential Code.
22	The alterations shall conform to the energy requirements of the International Energy
23	Conservation Code or International Residential Code as they relate to new construction only.))

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1	Section 8. The following sections of Chapter 8 of the International Existing Building
2	Code, 2015 Edition, are amended as follows:
	CHAPTER 8
3	ALTERATIONS - LEVEL 3
4	SECTION 801
5	GENERAL
6	801.1 Scope. Level 2 <i>alterations</i> as described in Section 504 shall comply with the requirements
7	of this chapter.
8	Exception: Buildings in which the reconfiguration is exclusively the result of compliance
9	with the accessibility requirements of Section ((705.2)) 307.7 shall be permitted to comply
10	with Chapter 7.
11	801.2 Alteration Level 1 compliance. In addition to the requirements of this chapter, all work
12	shall comply with the requirements of Chapter 7.
13	801.3 Compliance. All new construction elements, components, systems, and spaces shall
14	comply with the requirements of the International Building Code.
15	Exceptions:
16	1. Windows may be added without requiring compliance with the light and ventilation
17	requirements of the International Building Code.
18	((2. Newly installed electrical equipment shall comply with the requirements of Section
19	808.))
20	2.((3.)) The length of dead-end corridors in newly constructed spaces shall only be
21	required to comply with the provisions of Section 805.6.

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1	3.((4.)) The minimum ceiling height of the newly created habitable and occupiable spaces
2	and corridors shall be 7 feet (2134 mm).
3	4. Automatic sprinkler systems are required when new dwelling units are added to
4	buildings according to Items 4.1 through 4.6 below. This exception is permitted to be
5	used to add one unit after October 29, 1990.
6	4.1 One unit is permitted to be added to a residential or commercial building without
7	an automatic sprinkler system unless sprinklers are otherwise required by this
8	section. If more than one unit is added, the new units shall be equipped with a
9	sprinkler system.
10	4.2 In buildings that do not comply with the provisions of this code for number of
11	stories, allowable area, height or type of construction before the unit is added, an
12	automatic sprinkler system shall be provided in the new unit. The addition of the
13	new unit shall not be allowed if it increases the nonconformity.
14	4.3 In buildings undergoing substantial alteration, an automatic sprinkler system
15	shall be installed where required by this code for new construction.
16	4.4 One unit is permitted to be added to an existing duplex without an automatic
17	sprinkler system where both of the following conditions are met:
18	4.4.1 The project is considered a substantial alteration only because of the change
19	in occupancy; and
20	4.4.2 The building complies with the requirements for building height and number
21	of stories for a Group R-2 occupancy.
22	4.5 Where one unit is added to an existing duplex, sprinklers are required in the new
23	unit and not in the existing units where all of the following conditions are met:

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1	4.5.1 The existing duplex does not comply with the requirements for building	
2	height and story count for a Group R-2 occupancy;	
3	4.5.2 The project is considered a substantial alteration only because of the change	
4	in occupancy:	
5	4.5.3 The new unit is constructed as an addition to the duplex;	
6	4.5.4 The new unit is separated from the existing duplex by a fire wall; and	
7	4.5.5 The addition by itself complies with the requirements for a Group $R-2$	
8	occupancy.	
9	4.6 A sprinkler system is not required when a Group U occupancy that is accessory to	
10	a Group R-3 occupancy is converted to a dwelling unit.	
11	5. Ceilings in basements are permitted to project to within 6 feet 8 inches (2032 mm) of	
12	the finished floor, and beams, girders, ducts or other obstructions are permitted to	
13	project to within 6 feet 4 inches (1931 mm) of the finished floor.	
14	6.Ceiling height in buildings in existence prior to October 17, 1979, shall be permitted to	
15	comply with rules promulgated by the code official.	
16	***	
17	SECTION 803	
18	BUILDING ELEMENTS AND MATERIALS	
19	803.1 Scope. The requirements of this section are limited to <i>work areas</i> in which Level 2	
20	alterations are being performed and shall apply beyond the work area where specified.	
21	803.2 Vertical openings. Existing vertical openings shall comply with the provisions of Sections	
22	803.2.1, 803.2.2 and 803.2.3.	

1	803.2.1 Existing vertical openings. All existing interior vertical openings connecting two or
2	more floors shall be enclosed with approved assemblies having a fire-resistance rating of not
3	less than 1 hour with approved opening protectives.
4	Exceptions:
5	1. Where vertical opening enclosure is not required by the International Building
6	Code or the International Fire Code.
7	2. Interior vertical openings other than stairways may be blocked at the floor and
8	ceiling of the work area by installation of not less than 2 inches (51 mm) of solid
9	wood or equivalent construction.
10	3. The enclosure shall not be required where:
11	3.1. Connecting the main floor and mezzanines; or
12	3.2. All of the following conditions are met:
13	3.2.1. The communicating area has a low hazard occupancy or has a moderate
14	hazard occupancy that is protected throughout by an automatic sprinkler
15	system.
16	3.2.2. The lowest or next to the lowest level is a street floor.
17	3.2.3. The entire area is open and unobstructed in a manner such that it may be
18	assumed that a fire in any part of the interconnected spaces will be
19	readily obvious to all of the occupants.
20	3.2.4. Exit capacity is sufficient to provide egress simultaneously for all
21	occupants of all levels by considering all areas to be a single floor area
22	for the determination of required exit capacity.

1	3.2.5. Each floor level, considered separately, has at least one-half of its
2	individual required exit capacity provided by an exit or exits leading
3	directly out of that level without having to traverse another
4	communicating floor level or be exposed to the smoke or fire spreading
5	from another communicating floor level.
6	4. In Group A occupancies, a minimum 30-minute enclosure shall be provided to
7	protect all vertical openings not exceeding three stories.
8	5. In Group B occupancies, a minimum 30-minute enclosure shall be provided to
9	protect all vertical openings not exceeding three stories. This enclosure, or the
10	enclosure specified in Section 803.2.1, shall not be required in the following
11	locations:
12	5.1. Buildings not exceeding 3,000 square feet (279 m^2) per floor.
13	5.2. Buildings protected throughout by an approved automatic fire sprinkler
14	system.
15	6. In Group E occupancies, the enclosure shall not be required for vertical openings
16	not exceeding three stories when the building is protected throughout by an
17	approved automatic fire sprinkler system.
18	7. In Group F occupancies, the enclosure shall not be required in the following
19	locations:
20	7.1. Vertical openings not exceeding three stories.
21	7.2. Special purpose occupancies where necessary for manufacturing operations
22	and direct access is provided to at least one protected stairway.
23	7.3. Buildings protected throughout by an <i>approved</i> automatic sprinkler system.

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1	8. In Group H occupancies, the enclosure shall not be required for vertical openings
2	not exceeding three stories where necessary for manufacturing operations and every
3	floor level has direct access to at least two remote enclosed stairways or other
4	approved exits.
5	9. In Group M occupancies, a minimum 30-minute enclosure shall be provided to
6	protect all vertical openings not exceeding three stories. This enclosure, or the
7	enclosure specified in Section 803.2.1, shall not be required in the following
8	locations:
9	9.1. Openings connecting only two floor levels.
10	9.2. Occupancies protected throughout by an <i>approved</i> automatic sprinkler
11	system.
12	10. In Group R-1 occupancies, the enclosure shall not be required for vertical
13	openings not exceeding three stories in ((the following locations:
14	10.1. Buildings)) buildings protected throughout by an approved automatic
15	sprinkler system.
16	((10.2. Buildings with less than 25 dwelling units or sleeping units where every
17	sleeping room above the second floor is provided with direct access to a fire
18	escape or other approved second exit by means of an approved exterior door
19	or window having a sill height of not greater than 44 inches (1118 mm) and
20	where:
21	10.2.1. Any exit access corridor exceeding 8 feet (2438 mm) in length that serves
22	two means of egress, one of which is an unprotected vertical opening, shall

1	have at least one of the means of egress separated from the vertical opening by
2	a 1-hour fire barrier; and
3	10.2.2. The building is protected throughout by an automatic fire alarm system,
4	installed and supervised in accordance with the International Building Code.))
5	11. In Group R-2 occupancies, a minimum 30-minute enclosure shall be provided to
6	protect all vertical openings not exceeding three stories. This enclosure, or the
7	enclosure specified in Section 803.2.1, shall not be required in the following
8	locations:
9	11.1. Vertical openings not exceeding two stories with not more than four
10	dwelling units per floor.
11	11.2. Buildings protected throughout by an <i>approved</i> automatic sprinkler system.
12	((11.3. Buildings with not more than four dwelling units per floor where every
13	sleeping room above the second floor is provided with direct access to a fire
14	escape or other approved second exit by means of an approved exterior door
15	or window having a sill height of not greater than 44 inches (1118 mm) and
16	the building is protected throughout by an automatic fire alarm system
17	complying with Section 804.4.))
18	12. One- and two-family dwellings.
19	13. Group S occupancies where connecting not more than two floor levels or where
20	connecting not more than three floor levels and the structure is equipped
21	throughout with an <i>approved</i> automatic sprinkler system.
22	14. Group S occupancies where vertical opening protection is not required for open
23	parking garages and ramps.

1	***
2	SECTION 804
3	FIRE PROTECTION
4	804.1 Scope. The requirements of this section shall be limited to work areas in which Level 2
5	alterations are being performed, and where specified they shall apply throughout the floor on
6	which the work areas are located or otherwise beyond the work area.
7	Exception: The fire <i>code official</i> may modify or waive the fire protection requirements for
8	Level 2 alteration projects in which the fire protection requirements constitute an excessive
9	burden.
10	***
11	804.2.2 Groups A, B, E, F-1, H, I, M, R-1, R-2, ((R-4,)) S-1 and S-2. In buildings with
12	occupancies in Groups A, B, E, F-1, H, I, M, R-1, R-2, ((R-4,)) S-1 and S-2, work areas that
13	have exits or corridors shared by more than one tenant or that have exits or corridors serving
14	an occupant load greater than 30 shall be provided with automatic sprinkler protection where
15	all of the following conditions occur:
16	1. The work area is required to be provided with automatic sprinkler protection in
17	accordance with the International Building Code as applicable to new construction; and
18	2. The <i>work area</i> exceeds 50 percent of the floor area.
19	Exception: If the building does not have sufficient municipal water supply for design
20	of a fire sprinkler system available to the floor without installation of a new fire
21	pump, work areas shall be protected by an automatic smoke detection system
22	throughout all occupiable spaces other than sleeping units or individual dwelling units

100

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1	that activates the occupant notification system in accordance with Sections 907.4,
2	907.5 and 907.6 of the International Building Code.
3	***
4	804.4.1 Occupancy requirements. A fire alarm system shall be installed in accordance with
5	Sections 804.4.1.1 through ((804.4.1.7)) 804.4.1.6. Existing alarm-notification appliances
6	shall be automatically activated throughout the building. Where the building is not equipped
7	with a fire alarm system, alarm-notification appliances within the work area shall be
8	provided and automatically activated.
9	Exceptions:
10	1. Occupancies with an existing, previously approved fire alarm system.
11	2. Where selective notification is permitted, alarm notification appliances shall be
12	automatically activated in the areas selected.
13	804.4.1.1 Group E. A fire alarm system shall be installed in work areas of Group E
14	occupancies as required by the International Fire Code for existing Group E
15	occupancies.
16	804.4.1.2 Group I-1. A fire alarm system shall be installed in work areas of Group I-1
17	residential care/assisted living facilities as required by the International Fire Code for
18	existing Group I-1 occupancies.
19	804.4.1.3 Group I-2. A fire alarm system shall be installed throughout Group I-2
20	occupancies as required by the International Fire Code.
21	804.4.1.4 Group I-3. A fire alarm system shall be installed in work areas of Group I-3
22	occupancies as required by the International Fire Code.

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1	804.4.1.5 Group R-1. A fire alarm system shall be installed in Group R-1 occupancies as
2	required by the International Fire Code for existing Group R-1 occupancies.
3	804.4.1.6 Group R-2. A fire alarm system shall be installed in work areas of Group R-2
4	apartment buildings as required by the International Fire Code for existing Group R-2
5	occupancies.
6	((804.4.1.7 Group R-4. A fire alarm system shall be installed in work areas of Group R-
7	4 residential care/assisted living facilities as required by the International Fire Code for
8	existing Group R-4 occupancies.))
9	***
10	SECTION 805
11	MEANS OF EGRESS
12	***
13	805.3 Number of exits. The number of exits shall be in accordance with Sections 805.3.1
14	through 805.3.3.
15	805.3.1 Minimum number. Every story utilized for human occupancy on which there is a
16	work area that includes exits or corridors shared by more than one tenant within the work
17	area shall be provided with the minimum number of exits based on the occupancy and the
18	occupant load in accordance with the International Building Code. In addition, the exits shall
19	comply with Sections 805.3.1.1 and 805.3.1.2.
20	805.3.1.1 Single-exit buildings. Only one exit is required from buildings and spaces of
21	the following occupancies:

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1	1. In Group A, B, E, F, M, U and S occupancies, a single exit is permitted in the story
2	at the level of exit discharge when the occupant load of the story does not exceed 50
3	and the exit access travel distance does not exceed 75 feet (22 860 mm).
4	2. Group B, F-2, and S-2 occupancies not more than two stories in height that are not
5	greater than 3,500 square feet per floor (326 m^2), when the exit access travel
6	distance does not exceed 75 feet (22 860 mm). The minimum fire-resistance rating
7	of the exit enclosure and of the opening protection shall be 1 hour.
8	3. Open parking structures where vehicles are mechanically parked.
9	((4. In Group R-4 occupancies, the maximum occupant load excluding staff is 16.))
10	<u>4.</u> ((5.)) Groups R-1 and R-2 not more than two stories in height, when there are not
11	more than four dwelling units per floor and the exit access travel distance does not
12	exceed 50 feet (15 240 mm). The minimum fire-resistance rating of the exit
13	enclosure and of the opening protection shall be 1 hour.
14	Exception: The exit access travel distance shall not be more than 125 feet (38 100
15	mm) in buildings protected throughout with an approved automatic sprinkler
16	system in accordance with Section 903.3.1.1 or 903.3.1.2 of the International
17	Building Code.
18	<u>5.</u> ((6.)) In multilevel dwelling units in buildings of occupancy Group R-1 or R-2, an
19	exit shall not be required from every level of the dwelling unit provided that one of
20	the following conditions is met:
21	<u>5.1.</u> ((6.1.)) The travel distance within the dwelling unit does not exceed 75 feet
22	(22 860 mm); or

1	<u>5.2.</u> ((6.2.)) The building is not more than three stories in height and all third-floor
2	space is part of one or more dwelling units located in part on the second floor;
3	and no habitable room within any such dwelling unit shall have a travel
4	distance that exceeds 50 feet (15 240 mm) from the outside of the habitable
5	room entrance door to the inside of the entrance door to the dwelling unit.
6	6. ((7-)) In Group R-2, H-4, H-5 and I occupancies and in rooming houses and child
7	care centers, a single exit is permitted in a one-story building with a maximum
8	occupant load of 10 and the exit access travel distance does not exceed 75 feet (22
9	860 mm).
10	7. ((8.)) In buildings of Group R-2 occupancy that are equipped throughout with an
11	automatic fire sprinkler system, a single exit shall be permitted from a basement or
12	story below grade if every dwelling unit on that floor is equipped with an approved
13	window providing a clear opening of at least 5 square feet (0.47 m2) in area, a
14	minimum net clear opening of 24 inches (610 mm) in height and 20 inches (508
15	mm) in width, and a sill height of not more than 44 inches (1118 mm) above the
16	finished floor.
17	<u>8.</u> ((9.)) In buildings of Group R-2 occupancy of any height with not more than four
18	dwelling units per floor; with a smokeproof enclosure or outside stairway as an exit;
19	and with such exit located within 20 feet (6096 mm) of travel to the entrance doors
20	to all dwelling units served thereby.
21	9. ((10.)) In buildings of Group R-3 occupancy equipped throughout with an
22	automatic fire sprinkler system, only one exit shall be required from basements or
23	stories below grade.

104

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1	10. In Group R-2 and R-3 occupancies, one means of egress is permitted within and
2	from individual dwelling units with a maximum occupant load of 20 where the
3	dwelling unit is equipped throughout with an automatic sprinkler system in
4	accordance with Section 903.3.1.1 or 903.3.1.2 of the International Building Code.
5	805.3.1.2 Fire escapes ((required)). Fire escapes that are altered shall comply with this
6	section. Existing fire escapes shall continue to be accepted as a component in the means
7	of egress in existing buildings only. ((For other than Group I-2, where more than one exit
8	is required, an existing or newly constructed fire escape complying with Section
9	805.3.1.2.1 shall be accepted as providing one of the required means of egress.))
10	805.3.1.2.1 Location. Where located on the front of the building and where
11	projecting beyond the building line, the lowest landing shall be not less than 8 feet
12	(2438 mm) or more than 12 feet (3658 mm) above grade, and shall be equipped with
13	a counterbalanced stairway to the street. In alleyways and thoroughfares less than 30
14	feet (9144 mm) wide, the clearance under the lowest landing shall be not less than 12
15	feet (3658 mm).((Fire escape access and details. Fire escapes shall comply with all
16	of the following requirements:
17	1. Occupants shall have unobstructed access to the fire escape without having to
18	pass through a room subject to locking.
19	2. Access to a new fire escape shall be through a door, except that windows shall
20	be permitted to provide access from single dwelling units or sleeping units in
21	Group R-1, R-2 and I-1 occupancies or to provide access from spaces having a
22	maximum occupant load of 10 in other occupancy classifications.

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1	2.1. The window shall have a minimum net clear opening of 5.7 square feet	
2	(0.53 m^2) or 5 square feet (0.46 m^2) where located at grade.	
3	2.2. The minimum net clear opening height shall be 24 inches (610 mm) and	
4	net clear opening width shall be 20 inches (508 mm).	
5	2.3. The bottom of the clear opening shall not be greater than 44 inches (1118	
6	mm) above the floor.	
7	2.4. The operation of the window shall comply with the operational	
8	constraints of the International Building Code.	
9	3. Newly constructed fire escapes shall be permitted only where exterior stairways	
10	cannot be utilized because of lot lines limiting the stairway size or because of the	
11	sidewalks, alleys, or roads at grade level.	
12	4. Openings within 10 feet (3048 mm) of fire escape stairways shall be protected	
13	by fire assemblies having minimum 3/4-hour fire-resistance ratings.	
14	Exception: Opening protection shall not be required in buildings equipped	
15	throughout with an approved automatic sprinkler system.	
16	5. In all buildings of Group E occupancy, up to and including the 12th grade,	
17	buildings of Group I occupancy, rooming houses and childcare centers, ladders of	
18	any type are prohibited on fire escapes used as a required means of egress.))	
19	805.3.1.2.2 Construction. The fire escape shall be designed to support a live load of	
20	100 pounds per square foot (4788 Pa) and shall be constructed of steel or other	
21	approved noncombustible materials. ((Fire escapes constructed of wood not less than	
22	nominal 2 inches (51 mm) thick are permitted on buildings of Type V construction.	
23	Walkways and railings located over or supported by combustible roofs in buildings of	

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1	Types III and IV construction are permitted to be of wood not less than nominal 2
2	inches (51 mm) thick.))
3	805.3.1.2.3 Dimensions. Stairways shall be at least 22 inches (559 mm) wide with
4	risers not more than, and treads not less than, 8 inches (203 mm). Landings at the foot
5	of stairways shall be not less than 40 inches (1016 mm) wide by 36 inches (914 mm)
6	long and located not more than 8 inches (203 mm) below the door.
7	805.3.1.2.4 Opening protectives. Doors and windows along the fire escape shall be
8	protected with 3/4-hour opening protectives.
9	***
10	SECTION 806
11	ACCESSIBILITY
12	806.1 General. A building, <i>facility</i> , or element that is altered shall comply with ((this section
13	and)) Section ((705)) <u>307</u> .
14	((806.2 Stairways and escalators in existing buildings. In alterations where an escalator or
15	stairway is added where none existed previously, an accessible route shall be provided in
16	accordance with Sections 1104.4 and 1104.5 of the International Building Code.))
17	SECTION 807
18	STRUCTURAL
19	[BS] 807.1 General. Structural elements and systems within buildings undergoing Level 2
20	alterations shall comply with ((this section)) Section 305.
21	(([BS] 807.2 New structural elements. New structural elements in alterations, including
22	connections and anchorage, shall comply with the International Building Code.

1	[BS] 807.3 Minimum design loads. The minimum design loads on existing elements of a	
2	structure that do not support additional loads as a result of an alteration shall be the loads	
3	applicable at the time the building was constructed.	
4	[BS] 807.4 Existing structural elements carrying gravity loads. Alterations shall not reduce	
5	the capacity of existing gravity load carrying structural elements unless it is demonstrated that	
6	the elements have the capacity to carry the applicable design gravity loads required by the	
7	International Building Code. Existing structural elements supporting any additional gravity loads	
8	as a result of the alterations, including the effects of snow drift, shall comply with the	
9	International Building Code.	
10	Exceptions:	
11	1. Structural elements whose stress is not increased by more than 5 percent.	
12	2. Buildings of Group R occupancy with not more than five dwelling or sleeping units	
13	used solely for residential purposes where the existing building and its alteration	
14	comply with the conventional light-frame construction methods of the International	
15	Building Code or the provisions of the International Residential Code.	
16	[BS] 807.5 Existing structural elements resisting lateral loads. Except as permitted by Section	
17	807.6, where the alteration increases design lateral loads, or where the alteration results in	
18	prohibited structural irregularity as defined in ASCE 7, or where the alteration decreases the	
19	capacity of any existing lateral load-carrying structural element, the structure of the altered	
20	building or structure shall be shown to meet the wind and seismic provisions of the International	
21	Building Code. Reduced International Building Code level seismic forces in accordance with	
22	Section 301.1.4.2 shall be permitted.	
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1	Exception: Any existing lateral load-carrying structural element whose demand-capacity	
2	ratio with the alteration considered is not more than 10 percent greater than its demand-	
3	capacity ratio with the alteration ignored shall be permitted to remain unaltered. For purposes	
4	of calculating demand-capacity ratios, the demand shall consider applicable load	
5	combinations with design lateral loads or forces in accordance with International Building	
6	Code Sections 1609 and 1613. Reduced International Building Code level seismic forces in	
7	accordance with Section 301.1.4.2 shall be permitted. For purposes of this exception,	
8	comparisons of demand capacity ratios and calculation of design lateral loads, forces and	
9	capacities shall account for the cumulative effects of additions and alterations since original	
10	construction.	
11	[BS] 807.6 Voluntary lateral force-resisting system alterations. Alterations of existing	
12	structural elements and additions of new structural elements that are initiated for the purpose of	
13	increasing the lateral force resisting strength or stiffness of an existing structure and that are not	
14	required by other sections of this code shall not be required to be designed for forces conforming	
15	to the International Building Code, provided that an engineering analysis is submitted to show	
16	that:	
17	1. The capacity of existing structural elements required to resist forces is not reduced;	
18	2. The lateral loading to existing structural elements is not increased either beyond its	
19	capacity or more than 10 percent;	
20	3. New structural elements are detailed and connected to the existing structural elements as	
21	required by the International Building Code;	
22	4. New or relocated nonstructural elements are detailed and connected to existing or new	
23	structural elements as required by the International Building Code; and	

1	5. A dangerous condition as defined in this code is not created. Voluntary alterations to
2	lateral force resisting systems conducted in accordance with Appendix A and the
3	referenced standards of this code shall be permitted.))
4	((SECTION 808
5	ELECTRICAL
6	808.1 New installations. All newly installed electrical equipment and wiring relating to work
7	done in any work area shall comply with all applicable requirements of NFPA 70 except as
8	provided for in Section 808.3.
9	808.2 Existing installations. Existing wiring in all work areas in Group A-1, A-2, A-5, H and I
10	occupancies shall be upgraded to meet the materials and methods requirements of Chapter 7.
11	808.3 Residential occupancies. In Group R-2, R-3 and R-4 occupancies and buildings regulated
12	by the International Residential Code, the requirements of Sections 808.3.1 through 808.3.7
13	shall be applicable only to work areas located within a dwelling unit.
14	808.3.1 Enclosed areas. All enclosed areas, other than closets, kitchens, basements, garages,
15	hallways, laundry areas, utility areas, storage areas and bathrooms shall have a minimum of
16	two duplex receptacle outlets or one duplex receptacle outlet and one ceiling or wall-type
17	lighting outlet.
18	808.3.2 Kitchens. Kitchen areas shall have a minimum of two duplex receptacle outlets.
19	808.3.3 Laundry areas. Laundry areas shall have a minimum of one duplex receptacle outlet
20	located near the laundry equipment and installed on an independent circuit.
21	808.3.4 Ground fault circuit interruption. Newly installed receptacle outlets shall be
22	provided with ground fault circuit interruption as required by NFPA 70.

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1	808.3.5 Minimum lighting outlets. At least one lighting outlet shall be provided in every
2	bathroom, hallway, stairway, attached garage, and detached garage with electric power, and
3	to illuminate outdoor entrances and exits.
4	808.3.6 Utility rooms and basements. At least one lighting outlet shall be provided in utility
5	rooms and basements where such spaces are used for storage or contain equipment requiring
6	service.
7	808.3.7 Clearance for equipment. Clearance for electrical service equipment shall be
8	provided in accordance with the NFPA 70.))
9	SECTION 809
10	MECHANICAL
11	((809.1)) 808.1 Mechanical Systems. Mechanical systems shall comply with the International
12	Mechanical Code. ((Reconfigured or converted spaces. All reconfigured spaces intended for
13	occupancy and all spaces converted to habitable or occupiable space in any work area shall be
14	provided with natural or mechanical ventilation in accordance with the International Mechanical
15	Code.
16	Exception: Existing mechanical ventilation systems shall comply with the requirements of
17	Section 809.2.
18	809.2 Altered existing systems. In mechanically ventilated spaces, existing mechanical
19	ventilation systems that are altered, reconfigured, or extended shall provide not less than 5 cubic
20	feet per minute (cfm) (0.0024 m ³ /s) per person of outdoor air and not less than 15 cfm (0.0071
21	m3/s) of ventilation air per person; or not less than the amount of ventilation air determined by
22	the Indoor Air Quality Procedure of ASHRAE 62.

1	809.3 Local exhaust. All newly introduced devices, equipment, or operations that produce
2	airborne particulate matter, odors, fumes, vapor, combustion products, gaseous contaminants,
3	pathogenic and allergenic organisms, and microbial contaminants in such quantities as to affect
4	adversely or impair health or cause discomfort to occupants shall be provided with local
5	exhaust.))
6	SECTION 810
7	PLUMBING
8	810.1 Minimum fixtures. Where the occupant load of the story is increased by more than 20
9	percent, plumbing fixtures for the story shall be provided in quantities specified in the
10	International ((Plumbing)) Building Code based on the increased occupant load.
11	((SECTION 811
12	ENERGY CONSERVATION
13	811.1 Minimum requirements. Level 2 alterations to existing buildings or structures are
14	permitted without requiring the entire building or structure to comply with the energy
15	requirements of the International Energy Conservation Code or International Residential Code.
16	The alterations shall conform to the energy requirements of the International Energy
17	Conservation Code or International Residential Code as they relate to new construction only.))
18	Section 9. The following sections of Chapter 9 of the International Existing Building
19	Code, 2015 Edition, are amended as follows:
	CHAPTER 9
20	ALTERATIONS-LEVEL 3
21	SECTION 901
22	GENERAL

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901.1 Scope. Level 3 *alterations* as described in Section 505 shall comply with the requirements
 of this chapter.

901.2 Compliance. In addition to the provisions of this chapter, work shall comply with all of
the requirements of Chapters 7 and 8. The requirements of Sections 803, 804 and 805 shall apply
within all *work areas* whether or not they include exits and corridors shared by more than one
tenant and regardless of the occupant load.

Exception: Buildings in which the reconfiguration of space affecting exits or shared egress access is exclusively the result of compliance with the accessibility requirements of Section ((705.2)) 307.7 shall not be required to comply with this chapter.

SECTION 902

SPECIAL USE AND OCCUPANCY

902.1 High-rise buildings. Any building having occupied floors more than 75 feet (22,860 mm)
above the lowest level of fire department vehicle access shall comply with the requirements of
Sections 902.1.1 ((and 902.1.2)).

902.1.1 Recirculating air or exhaust systems. When a floor is served by a recirculating air
 or exhaust system with a capacity greater than 15,000 cubic feet per minute (701 m³/s), that
 system shall be equipped with approved smoke and heat detection devices installed in
 accordance with the *International Mechanical Code*.

((902.1.2 Elevators. Where there is an elevator or elevators for public use, at least one
elevator serving the *work area* shall comply with this section. Existing elevators with a travel
distance of 25 feet (7620 mm) or more above or below the main floor or other level of a
building and intended to serve the needs of emergency personnel for fire-fighting or rescue
purposes shall be provided with emergency operation in accordance with ASME A17.3. New

1	elevators shall be provided with Phase I emergency recall operation and Phase II emergency
2	in car operation in accordance with ASME A17.1.))
3	902.2 Boiler and furnace equipment rooms. Boiler and furnace equipment rooms adjacent to
4	or within Groups I-1, I-2, I-4, R-1, and R-2 ((and R-4)) occupancies shall be enclosed by 1-hour
5	fire-resistance-rated construction.
6	Exceptions:
7	1. Steam boiler equipment operating at pressures of 15 pounds per square inch gauge
8	(psig) (103.4 KPa) or less is not required to be enclosed.
9	2. Hot water boilers operating at pressures of 170 psig (1171 KPa) or less are not required
10	to be enclosed.
11	3. Furnace and boiler equipment with 400,000 British thermal units (Btu) ($4.22 \times 108 \text{ J}$)
12	per hour input rating or less is not required to be enclosed.
13	4. Furnace rooms protected with an <i>automatic sprinkler system</i> are not required to be
14	enclosed.
15	SECTION 903
16	BUILDING ELEMENTS AND MATERIALS
17	***
18	903.2.1 Separation required. Where the work area is in any attached dwelling unit in Group
19	R-3 or any multiple single-family dwelling (townhouse), walls separating the dwelling units
20	that are not continuous from the foundation to the underside of the roof sheathing shall be
21	constructed to provide a continuous fire separation using construction materials consistent
22	with the existing wall or complying with the requirements for new structures. All work shall
23	be performed on the side of the dwelling unit wall that is part of the work area.

1	Exception: Where <i>alterations</i> ((or <i>repairs</i>)) do not result in the removal of wall or
2	ceiling finishes exposing the structure, walls are not required to be continuous through
3	concealed floor spaces.
4	***
5	SECTION 906
6	ACCESSIBILITY
7	906.1 General. A building, <i>facility</i> or element that is altered shall comply with ((this section and
8	Sections 705 and 806)) Section 307.
9	((906.2 Type B dwelling or sleeping units. Where four or more Group I-1, I-2, R-1, R-2, R-3 or
10	R-4 dwelling or sleeping units are being altered, the requirements of Section 1107 of the
11	International Building Code for Type B units and Chapter 9 of the International Building Code
12	for visible alarms apply only to the quantity of the spaces being altered.
13	Exception: Group I-1, I-2, R-2, R-3 and R-4 dwelling or sleeping units where the first
14	certificate of occupancy was issued before March 15, 1991 are not required to provide Type
15	B dwelling or sleeping units.))
16	SECTION 907
17	STRUCTURAL
18	[BS] 907.1 General. Where buildings are undergoing Level 3 alterations including structural
19	alterations, the provisions of ((this section)) Section 305 shall apply.
20	(([BS] 907.2 New structural elements. New structural elements shall comply with Section
21	807.2.
22	[BS] 907.3 Existing structural elements carrying gravity loads. Existing structural elements
23	carrying gravity loads shall comply with Section 807.4.

1	[BS] 907.4 Existing structural elements resisting lateral loads. All existing elements of the
2	lateral force resisting system shall comply with this section.
3	Exceptions:
4	1. Buildings of Group R occupancy with no more than five dwelling or sleeping units
5	used solely for residential purposes that are altered based on the conventional light-
6	frame construction methods of the International Building Code or in compliance with
7	the provisions of the International Residential Code.
8	2. Where such alterations involve only the lowest story of a building and the change of
9	occupancy provisions of Chapter 10 do not apply, only the lateral force-resisting
10	components in and below that story need comply with this section.
11	[BS] 907.4.1 Evaluation and analysis. An engineering evaluation and analysis that
12	establishes the structural adequacy of the altered structure shall be prepared by a registered
13	design professional and submitted to the code official.
14	[BS] 907.4.2 Substantial structural alteration. Where more than 30 percent of the total
15	floor and roof areas of the building or structure have been or are proposed to be involved in
16	structural alteration within a 5-year period, the evaluation and analysis shall demonstrate that
17	the lateral load-resisting system of the altered building or structure complies with the
18	International Building Code for wind loading and with reduced International Building Code-
19	level seismic forces in accordance with Section 301.1.4.2. The areas to be counted toward the
20	30 percent shall be those areas tributary to the vertical load carrying components, such as
21	joists, beams, columns, walls and other structural components that have been or will be
22	removed, added or altered, as well as areas such as mezzanines, penthouses, roof structures
23	and in filled courts and shafts.

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1	[BS] 907.4.3 Seismic Design Category F. Where the building is assigned to Seismic Design
2	Category F, the evaluation and analysis shall demonstrate that the lateral load resisting
3	system of the altered building or structure complies with reduced International Building
4	Code-level seismic forces in accordance with Section 301.1.4.2 and with the wind provisions
5	applicable to a limited structural alteration.
6	[BS] 907.4.4 Limited structural alteration. Where the work does not involve a substantial
7	structural alteration and the building is not assigned to Seismic Design Category F, the
8	existing elements of the lateral load resisting system shall comply with Section 807.5.
9	[BS] 907.4.5 Wall anchors for concrete and masonry buildings. For any building assigned
10	to Seismic Design Category D, E or F with a structural system consisting of concrete or
11	reinforced masonry walls with a flexible roof diaphragm and any building assigned to
12	Seismic Design Category C, D, E or F with a structural system consisting of unreinforced
13	masonry walls with any type of roof diaphragm, the alteration work shall include installation
14	of wall anchors at the roof line to resist the reduced International Building Code-level
15	seismic forces in accordance with Section 301.1.4.2, unless an evaluation demonstrates
16	compliance of existing wall anchorage.
17	[BS] 907.4.6 Bracing for unreinforced masonry parapets. Parapets constructed of
18	unreinforced masonry in buildings assigned to Seismic Design Category C, D, E or F shall
19	have bracing installed as needed to resist the reduced International Building Code-level
20	seismic forces in accordance with Section 301.1.4.2, unless an evaluation demonstrates
21	compliance of such items.))
22	((SECTION 908
23	ENERGY CONSERVATION

1	908.1 Minimum requirements. Level 3 alterations to existing buildings or structures are
2	permitted without requiring the entire building or structure to comply with the energy
3	requirements of the International Energy Conservation Code or International Residential Code.
4	The alterations shall conform to the energy requirements of the International Energy
5	Conservation Code or International Residential Code as they relate to new construction only.))
6	Section 10. The following sections of Chapter 10 of the International Existing Building
7	Code, 2015 Edition, are amended as follows:
	CHAPTER 10
8	CHANGE OF OCCUPANCY
9	SECTION 1001
10	GENERAL
11	1001.1 Scope. The provisions of this chapter shall apply where a <i>change of occupancy</i> occurs, as
12	defined in Section 202.
	Note: The following illustrate how change of occupancy is interpreted:
	• Change in classification is a change in the letter designation. An example is a
	change from B occupancy to R occupancy.
	• Change in occupancy group is change in the number designation within an
	occupancy classification. An example is a change from group R-1 occupancy to
	<u>R-2 occupancy.</u>
	• Change of use is a change in the subcategory within the occupancy group. An
	example is a change from R-2 apartment to R-2 boarding house.

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2	Note: Changes of occupancy that are substantial alterations as determined by Section
3	304.1.1 are required to comply with Section 304.
4	
5	1001.2 ((Certificate)) Change of occupancy. A change of occupancy or a change of occupancy
6	within a space where there is a different fire protection system threshold requirement in Chapter
7	9 of the International Building Code shall not be made to any structure without the approval of
8	the code official. ((A certificate of occupancy shall be issued where it has been determined that
9	the requirements for the change of occupancy have been met.))
10	***
11	SECTION 1002
12	SPECIAL USE AND OCCUPANCY
13	1002.1 Compliance with the building code. Where the ((character or)) use of an <i>existing</i>
14	building or part of an existing building is changed to one of the following special use or
15	occupancy categories as defined in the International Building Code, the building shall comply
16	with all of the applicable requirements of the International Building Code:
17	1. Covered and open mall buildings.
18	2. Atriums.
19	3. Motor vehicle-related occupancies.
20	4. Aircraft-related occupancies.
21	5. Motion picture projection rooms.
22	6. Stages and platforms.
23	7. Special amusement buildings.
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1	8. Incidental use areas.
2	9. Hazardous materials.
3	10. Ambulatory care facilities.
4	11. Group I-2 occupancies.
5	***
6	SECTION 1006
7	ACCESSIBILITY
8	1006.1 General. Accessibility in portions of buildings undergoing a <i>change of occupancy</i>
9	classification shall comply with Section ((1012.8)) <u>307.4</u> .
10	SECTION 1007
11	STRUCTURAL
12	1007.1 Structural. Buildings or portions thereof subject to a <i>change of occupancy</i> shall comply
13	with Section 305.2. (([BS] 1007.1 Gravity loads. Buildings or portions thereof subject to a
14	<i>change of occupancy</i> where such change in the nature of occupancy results in higher uniform or
15	concentrated loads based on Table 1607.1 of the International Building Code shall comply with
16	the gravity load provisions of the International Building Code.
17	Exception: Structural elements whose stress is not increased by more than 5 percent.
18	[BS] 1007.2 Snow and wind loads. Buildings and structures subject to a change of occupancy
19	where such change in the nature of occupancy results in higher wind or snow risk categories
20	based on Table 1604.5 of the International Building Code shall be analyzed and shall comply
21	with the applicable wind or snow load provisions of the International Building Code.

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1	Exception: Where the new occupancy with a higher risk category is less than or equal to 10
2	percent of the total building floor area. The cumulative effect of the area of occupancy
3	changes shall be considered for the purposes of this exception.
4	[BS] 1007.3 Seismic loads. Existing buildings with a change of occupancy shall comply with the
5	seismic provisions of Sections 1007.3.1 and 1007.3.2.
6	[BS] 1007.3.1 Compliance with International Building Code-level seismic forces. Where
7	a building or portion thereof is subject to a <i>change of occupancy</i> that results in the building
8	being assigned to a higher risk category based on Table 1604.5 of the International Building
9	Code, the building shall comply with the requirements for International Building Code-level
10	seismic forces as specified in Section 301.1.4.1 for the new risk category.
11	Exceptions:
12	1. Where approved by the code official, specific detailing provisions required for a
13	new structure are not required to be met where it can be shown that an equivalent
14	level of performance and seismic safety is obtained for the applicable risk category
15	based on the provision for reduced International Building Code level seismic forces
16	as specified in Section 301.1.4.2.
17	2. Where the area of the new occupancy with a higher hazard category is less than or
18	equal to 10 percent of the total building floor area and the new occupancy is not
19	classified as Risk Category IV. For the purposes of this exception, buildings
20	occupied by two or more occupancies not included in the same risk category, shall
21	be subject to the provisions of Section 1604.5.1 of the International Building Code.
22	The cumulative effect of the area of occupancy changes shall be considered for the
23	purposes of this exception.

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1	3. Unreinforced masonry bearing wall buildings in Risk Category III when assigned
2	to Seismic Design Category A or B shall be allowed to be strengthened to meet the
3	requirements of Appendix Chapter A1 of this code [Guidelines for the Seismic
4	Retrofit of Existing Buildings (GSREB)].
5	[BS] 1007.3.2 Access to Risk Category IV. Where a change of occupancy is such that
6	compliance with Section 1007.3.1 is required and the building is assigned to Risk Category
7	IV, the operational access to the building shall not be through an adjacent structure, unless
8	that structure conforms to the requirements for Risk Category IV structures. Where
9	operational access is less than 10 feet (3048 mm) from either an interior lot line or from
10	another structure, access protection from potential falling debris shall be provided by the
11	owner of the Risk Category IV structure.))
10	((SECTION 1008
12	
12	ELECTRICAL
	ELECTRICAL 1008.1 Special occupancies. Where the occupancy of an <i>existing building</i> or part of an <i>existing</i>
13	
13 14	1008.1 Special occupancies. Where the occupancy of an <i>existing building</i> or part of an <i>existing</i>
13 14 15	1008.1 Special occupancies. Where the occupancy of an <i>existing building</i> or part of an <i>existing building</i> is changed to one of the following special occupancies as described in NFPA 70, the
13 14 15 16	1008.1 Special occupancies. Where the occupancy of an <i>existing building</i> or part of an <i>existing building</i> is changed to one of the following special occupancies as described in NFPA 70, the electrical wiring and equipment of the building or portion thereof that contains the proposed
13 14 15 16 17	1008.1 Special occupancies. Where the occupancy of an <i>existing building</i> or part of an <i>existing building</i> is changed to one of the following special occupancies as described in NFPA 70, the electrical wiring and equipment of the building or portion thereof that contains the proposed occupancy shall comply with the applicable requirements of NFPA 70 whether or not a <i>change</i>
 13 14 15 16 17 18 	1008.1 Special occupancies. Where the occupancy of an <i>existing building</i> or part of an <i>existing building</i> is changed to one of the following special occupancies as described in NFPA 70, the electrical wiring and equipment of the building or portion thereof that contains the proposed occupancy shall comply with the applicable requirements of NFPA 70 whether or not a <i>change of occupancy</i> group is involved:
 13 14 15 16 17 18 19 	1008.1 Special occupancies. Where the occupancy of an <i>existing building</i> or part of an <i>existing building</i> is changed to one of the following special occupancies as described in NFPA 70, the electrical wiring and equipment of the building or portion thereof that contains the proposed occupancy shall comply with the applicable requirements of NFPA 70 whether or not a <i>change of occupancy</i> group is involved: 1. Hazardous locations.
 13 14 15 16 17 18 19 20 	 1008.1 Special occupancies. Where the occupancy of an <i>existing building</i> or part of an <i>existing building</i> is changed to one of the following special occupancies as described in NFPA 70, the electrical wiring and equipment of the building or portion thereof that contains the proposed occupancy shall comply with the applicable requirements of NFPA 70 whether or not a <i>change of occupancy group</i> is involved: Hazardous locations. Commercial garages, <i>repair</i>, and storage.
 13 14 15 16 17 18 19 20 21 	 1008.1 Special occupancies. Where the occupancy of an <i>existing building</i> or part of an <i>existing building</i> is changed to one of the following special occupancies as described in NFPA 70, the electrical wiring and equipment of the building or portion thereof that contains the proposed occupancy shall comply with the applicable requirements of NFPA 70 whether or not a <i>change of occupancy group</i> is involved: Hazardous locations. Commercial garages, <i>repair</i>, and storage.
 13 14 15 16 17 18 19 20 21 22 	 1008.1 Special occupancies. Where the occupancy of an <i>existing building</i> or part of an <i>existing building</i> is changed to one of the following special occupancies as described in NFPA 70, the electrical wiring and equipment of the building or portion thereof that contains the proposed occupancy shall comply with the applicable requirements of NFPA 70 whether or not a <i>change of occupancy</i> group is involved: Hazardous locations. Commercial garages, <i>repair</i>, and storage. Aircraft hangars. Gasoline dispensing and service stations.

1	6. Spray application, dipping, and coating processes.
2	7. Health care facilities.
3	8. Places of assembly.
4	9. Theaters, audience areas of motion picture and television studios, and similar locations.
5	10. Motion picture and television studios and similar locations.
6	11. Motion picture projectors.
7	12. Agricultural buildings.
8	1008.2 Unsafe conditions. Where the occupancy of an <i>existing building</i> or part of an <i>existing</i>
9	building is changed, all unsafe conditions shall be corrected without requiring that all parts of the
10	electrical system comply with NFPA 70.
11	1008.3 Service upgrade. Where the occupancy of an <i>existing building</i> or part of an <i>existing</i>
12	building is changed, electrical service shall be upgraded to meet the requirements of NFPA 70
13	for the new occupancy.
14	1008.4 Number of electrical outlets. Where the occupancy of an <i>existing building</i> or part of an
15	existing building is changed, the number of electrical outlets shall comply with NFPA 70 for the
16	new occupancy.))
17	SECTION 1009
18	MECHANICAL
19	1009.1 Mechanical requirements. Mechanical equipment and systems shall comply with the
20	International Mechanical Code. ((Where the occupancy of an existing building or part of an
21	existing building is changed such that the new occupancy is subject to different kitchen exhaust
22	requirements or to increased mechanical ventilation requirements in accordance with the

1 *International Mechanical Code*, the new occupancy shall comply with the respective

2 *International Mechanical Code* provisions.))

SECTION 1010

PLUMBING

1010.1 Increased demand. Where the occupancy of an *existing building* or part of an *existing building* is changed such that the new occupancy is subject to increased or different plumbing
fixture requirements or to increased water supply requirements in accordance with the *International <u>Building Code and Uniform</u> Plumbing Code*, the new occupancy shall comply with
((the intent of)) the respective *International <u>Building Code and Uniform</u> Plumbing Code*

10 provisions.

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1010.2 Food-handling occupancies. If the new occupancy is a food-handling establishment, all
existing sanitary waste lines above the food or drink preparation or storage areas shall be panned
or otherwise protected to prevent leaking pipes or condensation on pipes from contaminating
food or drink. New drainage lines shall not be installed above such areas and shall be protected
in accordance with the ((*International*)) <u>Uniform Plumbing Code</u>.

16 1010.3 Interceptor required. If the new occupancy will produce grease or oil-laden wastes,
17 interceptors shall be provided as required in the ((*International*)) <u>Uniform</u> Plumbing Code.
18 1010.4 Chemical wastes. If the new occupancy will produce chemical wastes, the following
19 shall apply:

1. If the existing piping is not compatible with the chemical waste, the waste shall be neutralized prior to entering the drainage system, or the piping shall be changed to a compatible material.

1	2. No chemical waste shall discharge to a public sewer system without the approval of the
2	sewage authority.
3	1010.5 Group I-2. If the occupancy group is changed to Group I-2, the plumbing system shall
4	comply with the applicable requirements of the ((<i>International</i>)) <u>Uniform</u> Plumbing Code.
5	SECTION 1011
6	OTHER REQUIREMENTS
7	1011.1 Light and ventilation. Light and ventilation shall comply with the requirements of the
8	International Building Code and International Mechanical Code for the new occupancy.
9	SECTION 1012
10	CHANGE OF OCCUPANCY CLASSIFICATION
11	1012.1 General. The provisions of this section shall apply to buildings or portions thereof
12	undergoing a change of occupancy classification. This includes a change of occupancy
13	classification within a group as well as a change of occupancy classification from one group to a
14	different group or where there is a change of occupancy within a space where there is a different
15	fire protection system threshold requirement in Chapter 9 of the International Building Code.
16	Such buildings shall also comply with Sections 1002 through 1011. The application of
17	requirements for the change of occupancy shall be as set forth in Sections 1012.1.1 through
18	((1012.1.4)) 1012.1.3. A change of occupancy, as defined in Section 202, without a
19	corresponding change of occupancy classification shall comply with Section 1001.2.
20	1012.1.1 Compliance with Chapter 9. The requirements of Chapter 9 shall be applicable
21	throughout the building for the new occupancy classification based on the separation
22	conditions set forth in Sections 1012.1.1.1 and 1012.1.1.2. <u>All existing buildings with a</u>

1	<u>change of occupancy classification shall comply with the seismic provisions of Section</u>
2	<u>305.2.</u>
3	***
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4	((1012.1.4 Accessibility. All buildings undergoing a change of occupancy classification shall
5	comply with Section 1012.8.))
6	1012.2 Fire protection systems. Fire protection systems shall be provided in accordance with
7	Sections 1012.2.1 and 1012.2.2.
8	1012.2.1 Fire sprinkler system. Where a change in occupancy classification occurs or
9	where there is a <i>change of occupancy</i> within a space where there is a different fire protection
10	system threshold requirement in Chapter 9 of the International Building Code that requires
11	an automatic fire sprinkler system to be provided based on the new occupancy in accordance
12	with Chapter 9 of the International Building Code, such system shall be provided throughout
13	the area where the <i>change of occupancy</i> occurs.
14	Exception: Subject to the approval of the code official, an automatic fire sprinkler
15	system is not required in dwelling units according to Items 1 through 6 below. This
16	exception is permitted to be used for the change in occupancy for one dwelling unit after
17	<u>October 29, 1990.</u>
18	1. The occupancy of one unit is permitted to be changed to a dwelling unit without an
19	automatic sprinkler system unless sprinklers are otherwise required by this chapter.
20	If more than one unit is changed, the new units shall be equipped with a sprinkler
21	system.
22	2. In buildings that do not comply with the provisions of this code for number of
23	stories, allowable area, height or type of construction before the occupancy of the

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1	unit is changed, an automatic sprinkler system shall be provided in the new unit.
2	The change of occupancy shall not be allowed if it increases the nonconformity.
3	3. In buildings undergoing substantial alteration, an automatic sprinkler system shall
4	be installed where required by this code for new construction.
5	4. The occupancy of one unit is permitted to be changed to a dwelling unit in an
6	existing duplex without an automatic sprinkler system where both of the following
7	conditions are met:
8	4.1. The project is considered a substantial alteration only because of the change
9	in occupancy; and
10	4.2. The building complies with the requirements for building height and number
11	of stories for a Group R-2 occupancy.
12	5. Where the occupancy of one unit is changed to a dwelling unit in an existing
13	duplex, sprinklers are required in the new unit and not in the existing units where all
14	of the following conditions are met:
15	5.1. The existing duplex does not comply with the requirements for building
16	height and story count for a Group R-2 occupancy;
17	5.2. The project is considered a <i>substantial alteration</i> only because of the
18	change in occupancy;
19	5.3. The new unit is constructed as an addition to the duplex;
20	5.4. The new unit is separated from the existing duplex by a fire wall; and
21	5.5. The addition by itself complies with the requirements for a Group R-2
22	occupancy.

1	6. A sprinkler system is not required when a Group U occupancy that is accessory to
2	a Group R-3 occupancy is converted to a dwelling unit.
3	***
4	1012.5.1 Height and area for change to higher hazard category. When a change of
5	occupancy classification is made to a higher hazard category as shown in Table 1012.5,
6	heights and areas of buildings and structures shall comply with the requirements of Chapter 5
7	of the International Building Code for the new occupancy classification.
8	Exception: For high-rise buildings constructed in compliance with a previously issued
9	permit, the type of construction reduction specified in Section 403.2.1 of the
10	International Building Code is permitted. ((This shall include the reduction for
11	columns.)) The high-rise building is required to be equipped throughout with an
12	automatic sprinkler system in accordance with Section 903.3.1.1 of the International
13	Building Code.
14	***
15	((1012.8 Accessibility. Existing buildings that undergo a change of group or occupancy
16	classification shall comply with this section.
17	Exception: Type B dwelling or sleeping units required by Section 1107 of the International
18	Building Code are not required to be provided in existing buildings and facilities undergoing
19	a change of occupancy in conjunction with less than a Level 3 alteration.
20	1012.8.1 Partial change in occupancy. Where a portion of the building is changed to a
21	new occupancy classification, any alteration shall comply with Sections 705, 806 and
22	906, as applicable.

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1	1012.8.2 Complete change of occupancy. Where an entire building undergoes a <i>change</i>
2	of occupancy, it shall comply with Section 1012.8.1 and shall have all of the following
3	accessible features:
4	1. At least one accessible building entrance.
5	2. At least one accessible route from an accessible building entrance to primary
6	function areas.
7	3. Signage complying with Section 1111 of the International Building Code.
8	4. Accessible parking, where parking is provided.
9	5. At least one accessible passenger loading zone, where loading zones are provided.
10	6. At least one accessible route connecting accessible parking and accessible
11	passenger loading zones to an accessible entrance.
12	Where it is <i>technically infeasible</i> to comply with the new construction standards for any
13	of these requirements for a change of group or occupancy, the above items shall conform
14	to the requirements to the maximum extent technically feasible.
15	Exception: The accessible features listed in Items 1 through 6 are not required for an
16	accessible route to Type B units.))
17	Section 11. The following sections of Chapter 11 of the International Existing Building
18	Code, 2015 Edition, are amended as follows:
	CHAPTER 11
19	ADDITIONS
20	SECTION 1101
21	GENERAL
22	***

1	1101.3 Other work. Any ((<i>repair or</i>)) alteration work within an existing building to which an
2	addition is being made shall comply with the applicable requirements for the work as classified
3	in Chapter 5.
4	***
5	SECTION 1103
6	STRUCTURAL
7	<u>1103.1 Structural.</u> Additions to existing buildings or structures are new construction and shall
8	comply with Section 305.3.
9	(([BS] 1103.1 Compliance with the International Building Code. Additions to existing
10	buildings or structures are new construction and shall comply with the International Building
11	Code.
12	[BS] 1103.2 Additional gravity loads. Existing structural elements supporting any additional
13	gravity loads as a result of additions shall comply with the International Building Code.
14	Exceptions:
15	1. Structural elements whose stress is not increased by more than 5 percent.
16	2. Buildings of Group R occupancy with no more than five dwelling units or sleeping
17	units used solely for residential purposes where the existing building and the addition
18	comply with the conventional light-frame construction methods of the International
19	Building Code or the provisions of the International Residential Code.
20	[BS] 1103.3 Lateral force-resisting system. The lateral force resisting system of <i>existing</i>
21	buildings to which additions are made shall comply with Sections 1103.3.1, 1103.3.2 and
22	1103.3.3.
23	Exceptions:

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1	1. Buildings of Group R occupancy with no more than five dwelling or sleeping units
2	used solely for residential purposes where the <i>existing building</i> and the <i>addition</i> comply
3	with the conventional light-frame construction methods of the International Building
4	Code or the provisions of the International Residential Code.
5	2. Any existing lateral load carrying structural element whose demand capacity ratio with
6	the addition considered is not more than 10 percent greater than its demand-capacity
7	ratio with the addition ignored shall be permitted to remain unaltered. For purposes of
8	this exception, comparisons of demand capacity ratios and calculation of design lateral
9	loads, forces and capacities shall account for the cumulative effects of additions and
10	alterations since original construction. For purposes of calculating demand capacity
11	ratios, the demand shall consider applicable load combinations involving International
12	Building Code-level seismic forces in accordance with Section 301.1.4.1.
13	[BS] 1103.3.1 Vertical addition. Any element of the lateral force resisting system of an
14	existing building subjected to an increase in vertical or lateral loads from the vertical addition
15	shall comply with the International Building Code wind provisions and the International
16	Building Code-level seismic forces specified in Section 301.1.4.1 of this code.
17	[BS] 1103.3.2 Horizontal addition. Where horizontal additions are structurally connected to
18	an existing structure, all lateral force-resisting elements of the existing structure affected by
19	such addition shall comply with the International Building Code wind provisions and the
20	IBC-level seismic forces specified in Section 301.1.4.1 of this code.
21	[BS] 1103.3.3 Voluntary addition of structural elements to improve the lateral force-
22	resisting system. Voluntary addition of structural elements to improve the lateral force-
23	resisting system of an <i>existing building</i> shall comply with Section 807.6.

1	[BS] 1103.4 Snow drift loads. Any structural element of an existing building subjected to
2	additional loads from the effects of snow drift as a result of an addition shall comply with the
3	International Building Code.
4	Exceptions:
5	1. Structural elements whose stress is not increased by more than 5 percent.
6	2. Buildings of Group R occupancy with no more than five dwelling units or sleeping
7	units used solely for residential purposes where the <i>existing building</i> and the <i>addition</i>
8	comply with the conventional light-frame construction methods of the International
9	Building Code or the provisions of the International Residential Code.))
10	[BS] 1103.5 Flood hazard areas. Additions and foundations in flood hazard areas shall comply
11	with ((the following requirements)) Section 307.
12	((1. For horizontal additions that are structurally interconnected to the existing building:
13	1.1. If the addition and all other proposed work, when combined, constitute substantial
14	<i>improvement</i> , the <i>existing building</i> and the <i>addition</i> shall comply with Section 1612 of
15	the International Building Code, or Section R322 of the International Residential Code,
16	as applicable.
17	1.2. If the <i>addition</i> constitutes <i>substantial improvement</i> , the <i>existing building</i> and the
18	addition shall comply with Section 1612 of the International Building Code, or Section
19	R322 of the International Residential Code, as applicable.
20	2. For horizontal <i>additions</i> that are not structurally interconnected to the <i>existing building</i> :
21	2.1. The addition shall comply with Section 1612 of the International Building Code, or
22	Section R322 of the International Residential Code, as applicable.

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1	2.2. If the addition and all other proposed work, when combined, constitute substantial
2	<i>improvement</i> , the <i>existing building</i> and the <i>addition</i> shall comply with Section 1612 of
3	the International Building Code, or Section R322 of the International Residential Code,
4	as applicable.
5	3. For vertical additions and all other proposed work that, when combined, constitute
6	substantial improvement, the existing building shall comply with Section 1612 of the
7	International Building Code, or Section R322 of the International Residential Code, as
8	applicable.
9	4. For a raised or extended foundation, if the foundation work and all other proposed work,
10	when combined, constitute substantial improvement, the existing building shall comply
11	with Section 1612 of the International Building Code, or Section R322 of the International
12	<i>Residential Code</i> , as applicable.
13	5. For a new foundation or replacement foundation, the foundation shall comply with Section
14	1612 of the International Building Code or Section R322 of the International Residential
15	<i>Code</i> , as applicable.))
16	SECTION 1104
17	SMOKE ALARMS IN OCCUPANCY GROUPS R AND I-1
18	1104.1 Smoke alarms in existing portions of a building. Where an <i>addition</i> is made to a
19	building or structure of a Group R or I-1 occupancy, the existing building shall be provided with
20	smoke alarms as required by Section 1103.8 of the International Fire Code ((or Section R314 of
21	the International Residential Code as applicable)).
22	SECTION 1105
23	ACCESSIBILITY

1	1105.1 Minimum requirements. ((Accessibility provisions for new construction shall apply to
2	additions.)) An addition that affects the accessibility to, or contains an area of, primary function
3	shall comply with the requirements of Section 307 ((Sections 705, 806 and 906, as applicable)).
4	((1105.2 Accessible dwelling units and sleeping units. Where Group I-1, I-2, I-3, R-1, R-2 or
5	R-4 dwelling or sleeping units are being added, the requirements of Section 1107 of the
6	International Building Code for accessible units apply only to the quantity of spaces being
7	added.
8	1105.3 Type A dwelling or sleeping units. Where more than 20 Group R-2 dwelling or sleeping
9	units are being added, the requirements of Section 1107 of the International Building Code for
10	Type A units and Chapter 9 of the International Building Code for visible alarms apply only to
11	the quantity of the spaces being added.
12	1105.4 Type B dwelling or sleeping units. Where four or more Group I-1, I-2, R-1, R-2, R-3 or
13	R-4 dwelling or sleeping units are being added, the requirements of Section 1107 of the
14	International Building Code for Type B units and Chapter 9 of the International Building Code
15	for visible alarms apply only to the quantity of spaces being added.))
16	((SECTION 1106
17	ENERGY CONSERVATION
18	1106.1 Minimum requirements. Additions to existing buildings shall conform to the energy
19	requirements of the International Energy Conservation Code or International Residential Code
20	as they relate to new construction.))
21	SECTION 1107
22	ADDITION OF DWELLING UNITS

1	1106.1 Automatic sprinkler systems. Automatic sprinkler systems are required when new
2	dwelling units are added to buildings according to Items 1 through 5 below. This provision is
3	permitted to be used to add one unit after October 29, 1990.
4	1. One unit is permitted to be added to a residential or commercial building without an
5	automatic sprinkler system unless sprinklers are otherwise required by this section. If more
6	than one unit is added, the new units shall be equipped with a sprinkler system.
7	2. In buildings that do not comply with the provisions of this code for number of stories,
8	allowable area, height or type of construction before the unit is added, an automatic
9	sprinkler system shall be provided in the new unit. The addition of the new unit shall not
10	be allowed if it increases the nonconformity.
11	3. In buildings undergoing substantial alteration, an automatic sprinkler system shall be
12	installed where required by this code for new construction.
13	4. One unit is permitted to be added to an existing duplex without an automatic sprinkler
14	system where both of the following conditions are met:
15	4.1 The project is considered a substantial alteration only because of the change in
16	occupancy; and
17	4.2 The building complies with the requirements for building height and number of
18	stories for a Group R-2 occupancy.
19	5. Where one unit is added to an existing duplex, sprinklers are required in the new unit and
20	not in the existing units where all of the following conditions are met:
21	5.1 The existing duplex does not comply with the requirements for building height and
22	story count for a Group R-2 occupancy;

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1	5.2 The project is considered a substantial alteration only because of the change in
2	occupancy;
3	5.3 The new unit is constructed as an <i>addition</i> to the duplex;
4	5.4 The new unit is separated from the existing duplex by a fire wall; and
5	5.5 The addition by itself complies with the requirements for a Group R-2 occupancy.
6	<u>1106.1.1 Fire walls.</u> An existing nonconforming building to which an <i>addition</i> is made is
7	permitted to exceed the height, number of stories and area specified for new buildings if a
8	fire wall is provided, the existing building is not made more nonconforming, and the addition
9	conforms to this code.
10	Section 12. The following sections of Chapter 14 of the International Existing Building
11	Code, 2015 Edition, are amended as follows:
	CHAPTER 14
12	PERFORMANCE COMPLIANCE METHOD
	PERFORMANCE COMPLIANCE METHOD SECTION 1401
13 14	SECTION 1401
13 14	SECTION 1401 GENERAL
13 14 15	SECTION 1401 GENERAL 1401.1 Scope. The provisions of this chapter shall apply to the <i>alteration</i> , ((<i>repair</i> ,)) <i>addition</i>
13 14 15 16	SECTION 1401 GENERAL 1401.1 Scope. The provisions of this chapter shall apply to the <i>alteration</i> , ((<i>repair</i> ,)) <i>addition</i> and <i>change of occupancy</i> of <i>existing structures</i> , ((<i>including historic and moved structures</i> ,)) as
13 14 15 16 17	SECTION 1401 GENERAL 1401.1 Scope. The provisions of this chapter shall apply to the <i>alteration</i> , ((<i>repair</i> ,)) <i>addition</i> and <i>change of occupancy</i> of <i>existing structures</i> , ((including historic and moved structures,)) as referenced in Section 301.1.3. The provisions of this chapter are intended to maintain or increase
13 14 15 16 17 18	SECTION 1401 GENERAL 1401.1 Scope. The provisions of this chapter shall apply to the <i>alteration</i> , ((<i>repair</i> ,)) <i>addition</i> and <i>change of occupancy</i> of <i>existing structures</i> , ((including historic and moved structures,)) as referenced in Section 301.1.3. The provisions of this chapter are intended to maintain or increase the current degree of public safety, health and general welfare in <i>existing buildings</i> and structures
 13 14 15 16 17 18 19 	SECTION 1401 GENERAL 1401.1 Scope. The provisions of this chapter shall apply to the <i>alteration</i> , ((<i>repair</i> ,)) <i>addition</i> and <i>change of occupancy</i> of <i>existing structures</i> , ((including historic and moved structures,)) as referenced in Section 301.1.3. The provisions of this chapter are intended to maintain or increase the current degree of public safety, health and general welfare in <i>existing buildings</i> and structures while permitting ((<i>repair</i> ,)) <i>alteration, addition</i> and <i>change of occupancy</i> without requiring full

1401.1.1 Compliance with other methods. *Alterations*, ((*repairs*,)) *additions* and *changes of occupancy* to *existing structures* shall comply with the provisions of this chapter or with one of the methods provided in Section 301.1.

1401.2 Applicability. ((Structures existing prior to [DATE TO BE INSERTED BY THE

JURISDICTION. Note: it is recommended that this date coincide with the effective

date of building codes within the jurisdiction], in which there is work involving

additions,)) <u>Additions</u>, alterations ((or)) and changes of occupancy shall be made to conform to the requirements of this chapter or the provisions of <u>Chapter 4 or</u> Chapters 5, and 7 through <u>11</u> ((13)). The provisions of Sections 1401.2.1 through ((1401.2.5)) <u>1401.2.4</u> shall apply to existing occupancies that will continue to be, or are proposed to be, in Groups A, B, E, F, I-2, M, R and S. These provisions shall not apply to buildings with occupancies in Group H or I-1, I-3 or I-4.

1401.2.1 Change in occupancy. Where an *existing building* is changed to a new occupancy classification and this section is applicable, the provisions of this section for the new occupancy shall be used to determine compliance with this code.

1401.2.2 Partial change in occupancy. Where a portion of the building is changed to a new occupancy classification and that portion is separated from the remainder of the building with fire barrier or horizontal assemblies having a fire-resistance rating as required by Table 508.4 of the *International Building Code* ((or Section R317 of the *International Residential Code*)) for the separate occupancies, or with approved compliance alternatives, the portion changed shall be made to conform to the provisions of this section.

Where a portion of the building is changed to a new occupancy classification and that portion is not separated from the remainder of the building with fire barriers or horizontal assemblies having a fire-resistance rating as required by Table 508.4 of the *International*

Building Code ((or Section R317 of the *International Residential Code*)) for the separate occupancies, or with approved compliance alternatives, the provisions of this section which apply to each occupancy shall apply to the entire building. Where there are conflicting provisions, those requirements which secure the greater public safety shall apply to the entire building or structure.

1401.2.3 Additions. Additions to existing buildings shall comply with the requirements of the *International Building Code* ((, *International Residential Code*,)) and this code for new construction. The combined height and area of the *existing building* and the new *addition* shall not exceed the height and area allowed by Chapter 5 of the *International Building Code*. Where a fire wall that complies with Section 706 of the *International Building Code* is provided between the *addition* and the *existing building*, the *addition* shall be considered a separate building.

1401.2.4 Alterations ((and *repairs*)). An *existing building* or portion thereof that does not comply with the requirements of this code for new construction shall not be altered ((or *repaired*)) in such a manner that results in the building being less safe or sanitary than such building is currently. If, in the *alteration* ((or *repaire*)), the current level of safety or sanitation is to be reduced, the portion altered ((or repaired)) shall conform to the requirements of Chapters 2 through 12 and Chapters 14 through 33 of the *International Building Code*.
1401.2.5 Accessibility requirements. Accessibility shall be provided in accordance with

Section ((410 or 605)) <u>307</u>.

1401.3 Acceptance. For ((*repairs*,)) alterations, additions, and changes of occupancy to existing *buildings* that are evaluated in accordance with this section, compliance with this section shall be
accepted by the *code official*.

1	1401.3.1 Hazards. Where the code official determines that an unsafe condition exists as
2	provided for in Section ((115)) <u>101.14</u> , such unsafe condition shall be abated in accordance
3	with Section $((\frac{115}{101.14}))$ <u>101.14</u> .
4	1401.3.2 Compliance with other codes. Buildings that are evaluated in accordance with this
5	section shall comply with Chapter 3 ((the International Fire Code and International Property
6	<i>Maintenance Code</i>)).
7	((1401.3.3 Compliance with flood hazard provisions. In <i>flood hazard areas</i> , buildings that
8	are evaluated in accordance with this section shall comply with Section 1612 of the
9	International Building Code or Section R322 of the International Residential Code, as
10	applicable if the work covered by this section constitutes substantial improvement.))
11	1401.4 Investigation and evaluation. For proposed work covered by this chapter, the building
12	owner shall cause the <i>existing building</i> to be investigated and evaluated in accordance with the
13	provisions of Sections 1401.4 through 1401.9.
14	[BS] 1401.4.1 Structural ((analysis. The owner shall have a structural analysis of the
15	existing building made to determine adequacy of structural systems for the proposed
16	alteration, addition or change of occupancy. The analysis shall demonstrate that the building
17	with the work completed is capable of resisting the loads specified in Chapter 16 of the
18	International Building Code)) Alterations, additions and changes of occupancy to existing
19	structures shall comply with Section 305.
20	1401.4.2 Submittal. The results of the investigation and evaluation as required in Section
21	1401.4, along with proposed compliance alternatives, shall be submitted to the code official.
22	1401.4.3 Determination of compliance. The code official shall determine whether the
23	existing building, with the proposed addition, alteration, or change of occupancy, complies

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1	with the provisions of this section in accordance with the evaluation process in Sections
2	1401.5 through 1401.9.
3	***
4	Section 13. The following sections of Chapter 15 of the International Existing Building
5	Code, 2015 Edition, are amended as follows:
	CHAPTER 15
6	CONSTRUCTION SAFEGUARDS
7	SECTION 1501
8	GENERAL
9	***
10	[BG] 1501.3 Alterations, repairs, and additions. Required exits, existing structural elements,
11	fire protection devices, and sanitary safeguards shall be maintained at all times during
12	alterations, repairs, or additions to any building or structure.
13	Exceptions:
14	1. When such required elements or devices are being altered or repaired, adequate
15	substitute provisions shall be made.
16	2. Maintenance of such elements and devices is not required when ((When)) the existing
17	building is not occupied.
18	***
19	[BS] 1501.6 Protection of pedestrians. The protection of the public and of the sidewalks, streets
20	and other public property during construction or demolition shall be provided as required by the
21	Street Use Ordinance, Seattle Municipal Code Title 15 ((Pedestrians shall be protected during

1 construction and demolition activities as required by Sections 1501.6.1 through 1501.6.7 and 2 Table 1501.6. Signs shall be provided to direct pedestrian traffic)).

3 ((**[BS] 1501.6.1 Walkways.** A walkway shall be provided for pedestrian travel in front of 4 every construction and demolition site unless the applicable governing authority authorizes 5 the sidewalk to be fenced or closed. Walkways shall be of sufficient width to accommodate 6 the pedestrian traffic, but in no case shall they be less than 4 feet (1219 mm) in width. 7 Walkways shall be provided with a durable walking surface. Walkways shall be accessible in 8 accordance with Chapter 11 of the International Building Code and shall be designed to 9 support all imposed loads and in no case shall the design live load be less than 150 pounds 10 per square foot (psf) (7.2 kN/m2). 11 [BS] 1501.6.2 Directional barricades. Pedestrian traffic shall be protected by a directional 12 barricade where the walkway extends into the street. The directional barricade shall be of 13 sufficient size and construction to direct vehicular traffic away from the pedestrian path.

[BS] 1501.6.3 Construction railings. Construction railings shall be at least 42 inches (1067 mm) in height and shall be sufficient to direct pedestrians around construction areas.

[BS] 1501.6.4 Barriers. Barriers shall be a minimum of 8 feet (2438 mm) in height and shall be placed on the side of the walkway nearest the construction. Barriers shall extend the entire length of the construction site. Openings in such barriers shall be protected by doors which are normally kept closed.

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[BS] 1501.6.4.1 Barrier design. Barriers shall be designed to resist loads required in Chapter 16 of the International Building Code unless constructed as follows: 1. Barriers shall be provided with 2×4 top and bottom plates.

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1	2. The barrier material shall be a minimum of 34 inch (19.1 mm) boards or 1/4 inch
2	(6.4 mm) wood structural use panels.
3	3. Wood structural use panels shall be bonded with an adhesive identical to that for
4	exterior wood structural use panels.
5	4. Wood structural use panels 1/4 inch (6.4 mm) or 1/16 inch (1.6 mm) in thickness
6	shall have studs spaced not more than 2 feet (610 mm) on center.
7	5. Wood structural use panels 3 /8 inch (9.5 mm) or 1 /2 inch (12.7 mm) in thickness
8	shall have studs spaced not more than 4 feet (1219 mm) on center, provided a 2-
9	inch by 4-inch (51 mm by 102 mm) stiffener is placed horizontally at the mid-
10	height where the stud spacing exceeds 2 feet (610 mm) on center.
11	6. Wood structural use panels 5/8 inch (15.9 mm) or thicker shall not span over 8 feet
12	(2438 mm).
13	[BS]TABLE 1501.6
14	PROTECTION OF PEDESTRIANS

IEIGHT OF CONSTRUCTION		TYPE OF PROTEC REQUIRED	TION
8 feet or less	Less than 5 feet	Construction railings	
	5 feet or more	None	
	Less than 5 feet	Barrier and covered walkway	
More than 8 feet	5 feet or more, but not more than one-fourth the height of construction	Barrier and covered walkway	

5 feet or more, but between one fourth and one- half the height of construction	Barrier	
5 feet or more, but exceeding one-half the height of construction	None	

For SI: 1 foot = 304.8 mm.

2	[BS] 1501.6.5 Covered walkways. Covered walkways shall have a minimum clear height of
3	8 feet (2438 mm) as measured from the floor surface to the canopy overhead. Adequate
4	lighting shall be provided at all times. Covered walkways shall be designed to support all
5	imposed loads. In no case shall the design live load be less than 150 psf (7.2 kN/m2) for the
6	entire structure.
7	Exception: Roofs and supporting structures of covered walkways for new, light-frame
8	construction not exceeding two stories above grade plane are permitted to be designed for
9	a live load of 75 psf (3.6 kN/m ²) or the loads imposed on them, whichever is greater. In
10	lieu of such designs, the roof and supporting structure of a covered walkway are
11	permitted to be constructed as follows:
12	1. Footings shall be continuous 2×6 members.
13	2. Posts not less than 4×6 shall be provided on both sides of the roof and spaced not
14	more than 12 feet (3658 mm) on center.
15	3. Stringers not less than 4×12 shall be placed on edge upon the posts.
16	4. Joists resting on the stringers shall be at least 2×8 and shall be spaced not more
17	than 2 feet (610 mm) on center.
18	5. The deck shall be planks at least 2 inches (51 mm) thick or wood structural panels
19	with an exterior exposure durability classification at least 23/32 inch (18.3 mm)
20	thick nailed to the joists.

1	6. Each post shall be knee-braced to joists and stringers by 2×4 minimum members
2	4 feet (1219 mm) long.
3	7. A 2×4 minimum curb shall be set on edge along the outside edge of the deck.
4	[BS] 1501.6.6 Repair, maintenance and removal. Pedestrian protection required by Section
5	1501.6 shall be maintained in place and kept in good order for the entire length of time
6	pedestrians may be endangered. The owner or the owner's agent, upon the completion of the
7	construction activity, shall immediately remove walkways, debris and other obstructions and
8	leave such public property in as good a condition as it was before such work was
9	commenced.
10	[BS] 1501.6.7 Adjacent to excavations. Every excavation on a site located 5 feet (1524 mm)
11	or less from the street lot line shall be enclosed with a barrier not less than 6 feet (1829 mm)
12	high. Where located more than 5 feet (1524 mm) from the street lot line, a barrier shall be
13	erected when required by the code official. Barriers shall be of adequate strength to resist
14	wind pressure as specified in Chapter 16 of the International Building Code.))
15	1501.7 Facilities required. Sanitary facilities shall be provided during construction or
16	demolition activities in accordance with the ((<i>International</i>)) <u>Uniform</u> Plumbing Code.
17	SECTION 1502
18	PROTECTION OF ADJOINING PROPERTY
19	[BS] 1502.1 Protection required. Adjoining public and private property shall be protected from
20	damage during construction and demolition work. Protection must be provided for footings,
21	foundations, party walls, chimneys, skylights and roofs. Provisions shall be made to control
22	water runoff and erosion during construction or demolition activities. ((The person making or
23	causing an excavation to be made shall provide written notice to the owners of adjoining

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1	buildings advising them that the excavation is to be made and that the adjoining buildings should
2	be protected. Said notification shall be delivered not less than 10 days prior to the scheduled
3	starting date of the excavation)) When the existing grade of a site is altered by filling,
4	excavating, dredging or moving of earth materials, the owner shall protect all adjoining property
5	during construction from encroachment or collapse by sloping the sides of the temporary grading
6	at a slope that is safe and not more than one horizontal to one vertical. In addition, adjoining
7	property shall be protected from encroachment or collapse by sloping the sides of the permanent
8	grading at a slope not greater than two horizontal to one vertical. The code official is authorized
9	to approve temporary or permanent slopes that are steeper based on a design by an experienced
10	geotechnical engineer.
11	In areas of known unsuitable soils, the code official is authorized to require slopes that are
12	less steep to assure protection of adjoining property.
13	SECTION 1503
14	TEMPORARY USE OF STREETS, ALLEYS AND PUBLIC PROPERTY
15	[BG] 1503.1 General. Temporary use of streets, alleys and public property shall comply with
15 16	
	[BG] 1503.1 General. Temporary use of streets, alleys and public property shall comply with
16	[BG] 1503.1 General. <u>Temporary use of streets</u> , alleys and public property shall comply with the Street Use Ordinance, Seattle Municipal Code Title 15. ((Storage and handling of
16 17	[BG] 1503.1 General. <u>Temporary use of streets</u> , alleys and public property shall comply with <u>the Street Use Ordinance</u> , Seattle Municipal Code Title 15. ((Storage and handling of materials. The temporary use of streets or public property for the storage or handling of
16 17 18	[BG] 1503.1 General. <u>Temporary use of streets</u> , alleys and public property shall comply with <u>the Street Use Ordinance</u> , <u>Seattle Municipal Code Title 15</u> . ((Storage and handling of materials. The temporary use of streets or public property for the storage or handling of materials or equipment required for construction or demolition, and the protection provided to
16 17 18 19	[BG] 1503.1 General. Temporary use of streets, alleys and public property shall comply with the Street Use Ordinance, Seattle Municipal Code Title 15. ((Storage and handling of materials. The temporary use of streets or public property for the storage or handling of materials or equipment required for construction or demolition, and the protection provided to the public shall comply with the provisions of the applicable governing authority and this
16 17 18 19 20	[BG] 1503.1 General. Temporary use of streets, alleys and public property shall comply with the Street Use Ordinance, Seattle Municipal Code Title 15. ((Storage and handling of materials. The temporary use of streets or public property for the storage or handling of materials or equipment required for construction or demolition, and the protection provided to the public shall comply with the provisions of the applicable governing authority and this chapter.
16 17 18 19 20 21	 [BG] 1503.1 General. Temporary use of streets, alleys and public property shall comply with the Street Use Ordinance, Seattle Municipal Code Title 15. ((Storage and handling of materials. The temporary use of streets or public property for the storage or handling of materials or equipment required for construction or demolition, and the protection provided to the public shall comply with the provisions of the applicable governing authority and this chapter. [BG] 1503.2 Obstructions. Construction materials and equipment shall not be placed or stored

1	intersection, or placed so as to obstruct normal observations of traffic signals or to hinder the use
2	of public transit loading platforms.
3	[BG] 1503.3 Utility fixtures. Building materials, fences, sheds or any obstruction of any kind
4	shall not be placed so as to obstruct free approach to any fire hydrant, fire department
5	connection, utility pole, manhole, fire alarm box, or catch basin, or so as to interfere with the
6	passage of water in the gutter. Protection against damage shall be provided to such utility fixtures
7	during the progress of the work, but sight of them shall not be obstructed.))
8	***
9	SECTION 1505
10	MEANS OF EGRESS
11	***
12	[F] 1505.2 Maintenance of means of egress. Required means of egress shall be maintained at
13	all times during construction, demolition, remodeling or alterations and additions to any
14	building.
15	Exception: Existing means of egress need not be maintained where approved ((Approved))
16	temporary means of egress systems and facilities are provided.
17	***
18	SECTION 1507
19	AUTOMATIC SPRINKLER SYSTEM
20	[F] 1507.1 Completion before occupancy. In portions of a building where an automatic
21	sprinkler system is required by this code, it shall be unlawful to occupy those portions of the
22	building until the automatic sprinkler system installation has been tested and approved, ((except
23	as provided in Section 110.3)) unless approved by the code official.

1	***
2	SECTION 1510
3	DEMOLITION
4	1510.1 Construction documents. Construction documents and a schedule for demolition shall
5	be submitted where required by the code official. Where such information is required, no work
6	shall be done until such construction documents or schedule, or both, are approved.
7	1510.2 Pedestrian protection. The work of demolishing any building shall not be commenced
8	until pedestrian protection is in place as required by this chapter and the Street Use Ordinance,
9	Seattle Municipal Code Title 15.
10	1510.3 Means of egress. A horizontal exit shall not be destroyed unless and until a substitute
11	means of egress has been provided and approved.
12	1510.4 Surface condition and fill. The site shall be left level and free of debris upon completion
13	of demolition, and all holes shall be filled or protected with secure fences. Holes are permitted to
14	be filled with concrete, rocks or other nondecaying material no larger than 12 inches (305 mm)
15	in diameter. Wood and other organic material shall not be buried on the site. Leaving the site
16	level means:
17	1. The grade conforms to that existing on all sides;
18	2. Surface water will drain off;
19	3. Surface is smooth; and
20	4. Broken sections of the foundation or other material are not exposed.
21	The site shall be seeded upon completion of the demolition if it is to be left vacant for more than
22	<u>6 months.</u>

1	1510.5 Water accumulation. Provision shall be made to prevent the accumulation of water or
2	damage to any foundations on the premises or the adjoining property.
3	1510.6 Utility connections. Service utility connections shall be discontinued and capped in
4	accordance with requirements of the governing utility or agency including, but not limited to,
5	Seattle Public Utilities, Seattle Department of Transportation, Seattle Fire Department, Seattle
6	City Light, Puget Sound Energy and Qwest Communications.
7	1510.7 Fire safety during demolition. Fire safety during demolition shall comply with the
8	applicable requirements of this code and the applicable provisions of Chapter 56 of the
9	International Fire Code.
10	1510.8 Removal of hazardous and combustible materials. All asbestos and other hazardous
11	material shall be removed prior to demolition, in accordance with regulations of the
12	Environmental Protection Agency, the Puget Sound Clean Air Agency and other pertinent
13	agencies. Combustible waste shall be removed in accordance with the Fire Code. During
14	demolition, streets and sidewalks shall be left clean at the end of each day's operation.
15	1510.9 Welding and cutting. Welding and cutting shall be performed in accordance with the
16	International Fire Code.
17	1510.10 Erosion and sediment control. Provision shall be made to stabilize ground conditions
18	to eliminate dust and erosion. Demolition sites shall comply with the Seattle Stormwater Code,
19	Seattle Municipal Code (SMC) Title 22, Subtitle VIII, and the Seattle Grading Code, SMC
20	<u>Chapter 22.170.</u>
21	1510.11 Drainage. If the demolition will result in a change of drainage patterns, the flow of all
22	watercourses, including streams, ditches, drains, combined sewers and runoff, intercepted during
23	the progress of the work, shall be returned to the condition present before the demolition or as

1	specified on the permit, and in accordance with the Seattle Stormwater Code and Seattle Grading
2	Code, SMC Title 22, Subtitle VIII, and SMC Chapter 22.170, respectively.
3	1510.12 Foundations and footings. All concrete or masonry floors, foundations, footings,
4	basement walls and retaining walls not to be reused shall be removed to 18 inches (457 mm)
5	below final grade. All concrete floors left in place shall be broken so as to allow water to drain
6	through unless the floors are to be used.
7	1510.13 Engineer's report. The <i>code official</i> is permitted to require a structural engineer's
8	analysis of proposed demolition or any portions of a structure remaining after demolition.
9	1510.14 Underground tanks. When demolition occurs, all underground tanks on the site shall
10	either be removed or filled, as required by the International Fire Code.
11	SECTION 1511
10	
12	<u>SITE WORK</u>
12	<u>SITE WORK</u> 1511.1 Excavation and fill. Excavation and fill for buildings and structures shall be constructed
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13 14	1511.1 Excavation and fill. Excavation and fill for buildings and structures shall be constructed or protected so as not to endanger life or property. Stumps and roots shall be removed from the
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13 14 15 16	1511.1 Excavation and fill. Excavation and fill for buildings and structures shall be constructed or protected so as not to endanger life or property. Stumps and roots shall be removed from the soil to a depth of not less than 12 inches (305 mm) below the surface of the ground in the area to be occupied by the building. Wood forms which have been used in placing concrete, if within the
13 14 15 16 17	1511.1 Excavation and fill. Excavation and fill for buildings and structures shall be constructed or protected so as not to endanger life or property. Stumps and roots shall be removed from the soil to a depth of not less than 12 inches (305 mm) below the surface of the ground in the area to be occupied by the building. Wood forms which have been used in placing concrete, if within the ground or between foundation sills and the ground, shall be removed before a building is
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13 14 15 16 17 18 19	1511.1 Excavation and fill. Excavation and fill for buildings and structures shall be constructed or protected so as not to endanger life or property. Stumps and roots shall be removed from the soil to a depth of not less than 12 inches (305 mm) below the surface of the ground in the area to be occupied by the building. Wood forms which have been used in placing concrete, if within the ground or between foundation sills and the ground, shall be removed before a building is occupied or used for any purpose. Before completion, loose or casual wood shall be removed from direct contact with the ground under the building.

1	foregoing limitations shall be permitted only upon the presentation of a soil investigation
2	report acceptable to the <i>code official</i> .
3	1511.1.2 Surcharge. No fill or other surcharge loads shall be placed adjacent to any building
4	or structure unless such building or structure is capable of withstanding the additional loads
5	caused by the fill or surcharge. Existing footings or foundations which can be affected by any
6	excavation shall be underpinned adequately or otherwise protected against settlement and
7	shall be protected against later movement.
8	1511.1.3 Fill supporting foundations. Fill to be used to support the foundations of any
9	building or structure shall comply with International Building Code Section 1804.5. Special
10	inspections of compacted fill shall be in accordance with International Building Code
11	<u>Section 1705.6.</u>
12	SECTION 1512
	SECTION 1512 CONSTRUCTION MATERIAL MANAGEMENT
12 13 14	
13	CONSTRUCTION MATERIAL MANAGEMENT
13 14 15	CONSTRUCTION MATERIAL MANAGEMENT 1512.1 Storage and handling of materials. Materials stored and handled on site during
13 14 15 16	CONSTRUCTION MATERIAL MANAGEMENT <u>1512.1 Storage and handling of materials.</u> Materials stored and handled on site during construction shall comply with the manufacturer's printed instructions. Where manufacturer's
13 14	CONSTRUCTION MATERIAL MANAGEMENT 1512.1 Storage and handling of materials. Materials stored and handled on site during construction shall comply with the manufacturer's printed instructions. Where manufacturer's printed instructions are not available, approved standards or guidelines shall be followed.
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13 14 15 16 17 18 19	CONSTRUCTION MATERIAL MANAGEMENT 1512.1 Storage and handling of materials. Materials stored and handled on site during construction shall comply with the manufacturer's printed instructions. Where manufacturer's printed instructions are not available, approved standards or guidelines shall be followed. 1512.2 Construction phase moisture control. Porous or fibrous materials and other materials subject to moisture damage shall be protected from moisture during construction. Material damaged by moisture or that is visibly colonized by fungi either prior to delivery or during

	D1c
1	Section 14. The following sections of Chapter 16 of the International Existing Building
2	Code, 2015 Edition, are amended as follows:
3	CHAPTER 16
4	REFERENCED STANDARDS
5	ASCE/SEI
6	American Society of Civil Engineers
7	Structural Engineering Institute
8	1801 Alexander Bell Drive
9	Reston, VA 20191-4400
10	***
11	31-03 Seismic Evaluation of Existing Buildings
12	<u>305.4.2, 907.2</u>
13	***
14	Section 15. The following sections of Chapter A1 of the International Existing Building
15	Code, 2015 Edition, are amended as follows:
16	Appendix A: Guidelines for the Seismic Retrofit of Existing Buildings
17	CHAPTER A1
18	SEISMIC STRENGTHENING PROVISIONS FOR UNREINFORCED MASONRY
19	BEARING WALL BUILDINGS
20	***
21	SECTION A106
22	MATERIALS REQUIREMENTS
23	***

1	[BS] A106.2 Existing materials. Existing materials used as part of the required vertical load-
2	carrying or lateral forceresisting system shall be in sound condition, or shall be repaired or
3	removed and replaced with new materials. All other unreinforced masonry materials shall
4	comply with the following requirements:
5	1. The lay-up of the masonry units shall comply with Section A106.3.2, and the quality of
6	bond between the units has been verified to the satisfaction of the ((building official)) <u>code</u>
7	<u>official;</u>
8	2. Concrete masonry units are verified to be load-bearing units complying with ASTM C 90
9	or such other standard as is acceptable to the ((building official)) code official; and
10	3. The compressive strength of plain concrete walls shall be determined based on cores taken
11	from each class of concrete wall. The location and number of tests shall be the same as
12	those prescribed for tensile-splitting strength tests in Sections A106.3.3.3 and A106.3.3.4,
13	or in Section A108.1.
14	The use of materials not specified herein or in Section A108.1 shall be based on
15	substantiating research data or engineering judgment, with the approval of the ((building
16	official)) <u>code official</u> .
17	***
18	Section 16. The following sections of Chapter A6 of the International Existing Building
19	Code, 2015 Edition, are amended as follows:
20	CHAPTER A6
21	REFERENCED STANDARDS
22	***

ASTM

1

- 2 ASTM International
- 3 100 Barr Harbor Drive
- 4 West Conshohocken, PA 19428-2959

5	A653/A653M—08 Standard Specification for Steel Sheet, Zinc Coated (Galvanized) or Zinc-
6	Iron Alloy-Coated (Galvannealed) by Hot-Dip Process
7	C90—2003 Standard Specification for Load-bearing Concrete Masonry Units A505.2.3
8	C496—96 Standard Test Method for Splitting Tensile Strength of Cylindrical Concrete
9	Specimens
10	E 488-10 Test Method for Strength of Anchors in Concrete and Masonry ElementsA107.5
11	E519—00e1 Standard Test Method for Diagonal Tension (Shear) in Masonry Assemblages
12	A104, A106.3.3.2
13	***

Section 17. Sections 2-17 of Ordinance 124283 are repealed.
Section 18. Beginning on the effective date of this ordinance and ending on January 1,
2017, permit applicants who submit a valid and fully complete building permit application
during that period may elect to have the application reviewed under the provisions of Ordinance
124283 rather than this ordinance.

Section 19. The provisions of this ordinance are declared to be separate and severable.
The invalidity of any clause, sentence, paragraph, subdivision, section or portion of this
ordinance, or the invalidity of the application thereof to any person, owner, or circumstance shall

1 not affect the validity of the remainder of this ordinance, or the validity of its application to other

2 persons, owners, or circumstances.

1	Section 20. Section 17 of this ordinance shall take effect January 1, 2017.
2	Section 21. This ordinance shall take effect and be in force 30 days after its approval by
3	the Mayor, but if not approved and returned by the Mayor within ten days after presentation, it
4	shall take effect as provided by Seattle Municipal Code Section 1.04.020.
5	Passed by the City Council the day of, 2016,
6	and signed by me in open session in authentication of its passage this day of
7	, 2016.
8	
9	President of the City Council
10	Approved by me this day of, 2016.
11	
12	Edward B. Murray, Mayor
13	Filed by me this day of, 2016.
1 /	
14	
15	Monica Martinez Simmons, City Clerk
16	(Seal)
10	