

2015 Houston IEBC Amendments	2021 International Existing Building Code	2021 Houston IEBC Amendments	Code Change Summary
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2015 Houston IEBC – Chapter 1 – Scope and Administration	2021 IEBC – Chapter 1 – Scope and Administration	2021 Houston Amendments	Code Change Summary
	SECTION 101 SCOPE AND GENERAL REQUIREMENTS	SECTION 101 SCOPE AND GENERAL REQUIREMENTS	Minor wordsmithing changes.
<p>[A] 101.1 Title. These regulations shall be known as the <u>City of Houston Existing Building Code</u> of [NAME OF JURISDICTION], hereinafter referred to as “this code.” and also known as the <u>Existing Building Code</u>.</p> <p>The <u>Construction Code</u> collectively includes this volume and certain other codes, pamphlets, specifications and documents that are adopted in or by reference through the adopting ordinance, City of Houston Ordinance No. 2021-10374.</p>	-	<p>[A] 101.1 Title. These regulations shall be known as the <u>City of Houston Existing Building Code</u> of [NAME OF JURISDICTION], hereinafter referred to as “this code.” and also known as the <u>Existing Building Code</u>.</p> <p>This volume and certain other codes, pamphlets, specifications and documents adopted by the City of Houston shall be known collectively as the Construction Code, as its adopted by City of Houston Ordinance No. 2023-907¹.</p>	Minor wordsmithing changes to amendment.
<p>[A] 101.2 Scope. The provisions of the International Existing Building Code shall apply to the <i>repair, alteration, change of occupancy, addition to and relocation of existing buildings</i>.</p>	<p>[A] 101.2 Scope. The provisions of International Existing Building Code the this code shall apply to the <i>repair, alteration, change of occupancy, addition to and relocation of existing buildings</i>.</p> <p>Exception: Detached one- and two-family dwellings and multiple single-family dwellings townhouses not more than three stories above grade plane in height with a separate means of egress, and their accessory structures not more than three stories above grade plane in height, shall comply with this code or the <u>International Residential Code</u>.</p>	<p>[A] 101.2 Scope. The provisions of this code shall apply to the <i>repair, alteration, change of occupancy, addition to and relocation of existing buildings</i>.</p> <p>Exception: Detached one- and two-family dwellings and townhouses not more than three stories above grade plane in height with a separate means of egress, and their accessory structures not more than three stories above grade plane in height, shall comply with this code or the International Residential Code Appendix AJ.</p>	Edits made to clarify code, no major change to code. Exception added to reference IRC. New Houston amendment that directs to existing building provisions in IRC, Appendix AJ.
	<p>101.2.1 Application of fire code. Where work regulated by this code is also regulated by the construction requirements for existing buildings in Chapter 11 of the <u>International Fire Code</u>, such work shall comply with applicable requirements in both codes.</p>		Requires IFC and this code as it applies to chapter 11.
<p>[A] 101.3 Intent. The intent of this code is to provide flexibility to permit the use of alternative approaches to achieve compliance with minimum requirements to safeguard the public health, safety and welfare insofar as they are affected by the <i>repair, alteration, change of occupancy, addition to and relocation of existing buildings</i>. <u>The provisions of this code shall not apply to any activity for which local regulation is preempted by federal or state law.</u></p>	<p>[A] 101.3 Intent Purpose.</p> <p>The intent of this code is to provide flexibility to permit the use of alternative approaches to achieve compliance with minimum requirements to safeguard the public provide a reasonable level of safety, health, safety property protection and general welfare in so far as they are affected by the <i>repair, alteration, change of occupancy, addition and relocation of existing buildings</i>.</p>	<p>[A] 101.3 Purpose. The intent of this code is to provide flexibility to permit the use of alternative approaches to achieve compliance with minimum requirements to provide a reasonable level of safety, health, property protection and general welfare insofar as they are affected by the <i>repair, alteration, change of occupancy, addition to and relocation of existing buildings</i>. <u>The provisions of this code shall not apply to any activity for which local regulation is preempted by federal or state law.</u></p>	Edits made to clarify code, no major change to code. No changes to Houston amendment.

¹. The City Secretary shall insert the number of the adopting ordinance.

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<p>[A] 101.6 Appendices. The code <u>building official</u> is authorized to require rehabilitation and retrofit of buildings, structures or individual structural members in accordance with the appendices of this code if such appendices have been individually adopted. <u>Appendices A, B, C, and D, including any amendments thereto adopted by this jurisdiction, are hereby adopted and shall be incorporated into and made part of this code. Wherever in this code reference is made to an appendix, the provisions in the appendix shall not apply unless specifically adopted in this section.</u></p>		<p>[A] 101.6 Appendices. The code <u>building official</u> is authorized to require retrofit of buildings, structures or individual structural members in accordance with the appendices of this code if such appendices have been individually adopted. Provisions in the appendices shall not apply unless specifically adopted. <u>Appendices A, B, C, and D, including any amendments thereto adopted by this jurisdiction, are hereby adopted and shall be incorporated into and made part of this code.</u></p>	<p>Minor wordsmithing change to amendment to clarify what appendices are applicable.</p>
		<p>SECTION 102 APPLICABILITY</p>	
<p>[A] 102.1 General. Where this is a conflict between a general requirement and a specific requirement, the specific requirement shall prevail <u>be applicable</u>. Where in any specific instance <u>case</u> different sections <u>provisions</u> of this code, <u>including adopted appendices</u>, specify different materials, <u>different</u> methods of construction or other requirements that differ from those provided in the <u>City Code</u> or other volumes of the <u>Construction Code</u>, including adopted appendices, other than the <u>Fire Code</u>, and its adopted <u>appendices and standards</u>, the most restrictive shall <u>prevail</u> govern. Where, in any specific instance, provisions of this code, including adopted appendices, specify different materials, different methods of construction, or other requirements that differ from those provided in the <u>Fire Code</u>, including its adopted appendices and standards, and the <u>building official</u> and the fire marshal are unable to mutually reconcile the requirements by issuing a written interpretation, then either of them may refer the matter to the General Appeals Board created under the <u>Building Code</u>, which shall conduct a review of the matter and issue a written code interpretation based upon the apparent intent of the codes involved. <u>Notwithstanding any other provision, interpretations that are issued by the General Appeals Board shall not be subject to further appeal.</u></p>		<p>[A] 102.1 General. Where this is a conflict between a general requirement and a specific requirement, the specific requirement shall prevail <u>be applicable</u>. Where in any specific instance <u>case</u> different sections <u>provisions</u> of this code, <u>including adopted appendices</u>, specify different materials, <u>different</u> methods of construction or other requirements that differ from those provided in the <u>City Code</u> or other volumes of the <u>Construction Code</u>, including adopted appendices, other than the <u>Fire Code</u>, and its adopted appendices and standards, the most restrictive shall <u>prevail</u> govern. Where provisions of this code, including adopted appendices, specify different materials, different methods of construction, or other requirements that differ from those provided in the <u>Fire Code</u>, including its adopted appendices and standards, and the <u>building official</u> and the fire marshal are unable to mutually reconcile the requirements by issuing a written interpretation, then either of them may refer the matter to the General Appeals Board created under the <u>Building Code</u>, which shall conduct a review of the matter and issue a written code interpretation based upon the apparent intent of the codes involved. <u>Notwithstanding any other provision, interpretations that are issued by the General Appeals Board shall not be subject to further appeal.</u></p>	<p>No change to Houston amendment.</p>
<p>SECTION 103 DEPARTMENT OF BUILDING SAFETY CODE ENFORCEMENT</p>	<p>SECTION 103 DEPARTMENT OF BUILDING SAFETY CODE COMPLIANCE AGENCY</p>	<p>SECTION 103 BUILDING CODE ENFORCEMENT COMPLIANCE AGENCY</p>	<p>Edits made to clarify code, no major change to code No change to Houston amendment.</p>
<p>[A] 103.1 Creation of enforcement agency. The Department of Building Safety Building Code Enforcement is hereby created within the jurisdiction's department known as Houston Public Works, and the official in charge thereof shall be known as the code <u>building official</u>.</p>	<p>[A] 103.1 Creation of enforcement agency. The department of building safety [INSERT NAME OF DEPARTMENT] is hereby created, and the official in charge thereof shall be known as the <u>code official</u>. The function of the agency shall be the implementation, administration and enforcement of the provisions of this code.</p>	<p>[A] 103.1 Creation of agency. The [INSERT NAME OF DEPARTMENT] Building Code Enforcement Division is hereby created within the <u>jurisdiction's</u> department known as Houston Public Works, and the official in charge thereof shall be known as the code <u>building official</u>. The function of the agency shall be</p>	<p>Edits made to clarify code, no major change to code No change to Houston amendment.</p>

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		the implementation, administration and enforcement of the provisions of this code.	
	[A] 103.3 Deputies. In accordance with the prescribed procedures of this jurisdiction and with the concurrence of the appointing authority, the code official shall have the authority to appoint a deputy code official, the other related technical officers, inspectors plan examiners and other employees. Such employees shall have powers as delegated by the code official.		Edits made to clarify code, no major change to code
		SECTION 104 DUTIES AND POWERS OF CODE OFFICIAL	
[A] 104.2.1 Determination of substantially improved or substantially damaged existing buildings and structures in flood hazard areas. For application for reconstruction, rehabilitation, repair, alteration, addition to or other improvement of existing buildings or structures located in flood hazard areas, the building official shall determine where the proposed work constitutes substantial improvement or repair of substantial damage. Where the building official determines that the proposed work constitutes substantial improvement or repair of substantial damage, and where required by this code, the building official shall require the building meet the requirements of Section 1612 of the International Building Code shall be designed and constructed in accordance with ASCE 24 and Chapter 19 of the City Code, whichever is more restrictive.	[A] 104.2.1 Determination of substantially improved or substantially damaged existing buildings and structures in flood hazard areas, For applications for relocation, rehabilitation, repair, alteration, addition or other improvement of existing buildings or structures located in flood hazard areas, the building official shall determine where the proposed work constitutes substantial improvement or substantial damage. Where the building official determines that the proposed work constitutes substantial improvement or repair or substantial damage, where required by this code, the building official shall require the building to meet the requirements of Section 1612 of the International Building Code, or Section R322 of the International Residential Code, as applicable.	[A] 104.2.1 Determination of substantially improved or substantially damaged existing buildings and structures in flood hazard areas. For applications for reconstruction, rehabilitation, repair, alteration, addition to, or other improvement of existing buildings or structures located in flood hazard areas, the building official shall determine where the proposed work constitutes substantial improvement or repair of substantial damage. Where the building official determines that the proposed work constitutes substantial improvement or repair of substantial damage, and where required by this code, the building official shall require the building meet the requirements of Section 1612 of the International Building Code, or Section R322 of the International Residential Code, as applicable shall be designed and constructed in accordance with ASCE 24 and Chapter 19 of the City Code, whichever is more restrictive.	Edits made to clarify code, no major change to code No change to Houston amendment.
	[A] 104.2.2.1 Building evaluation. The code official is authorized to require an existing building to be investigated and evaluated by a registered design professional based on the circumstances agreed upon at the preliminary meeting. The design professional shall notify the code official if any potential nonconformance noncompliance with the provisions of this code is identified		Edits made to clarify code, no major change to code

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[A] 104.6 Right of entry. Where it is necessary to make an inspection to enforce the provisions of this code, or where the ~~code~~ building official has reasonable cause to believe that there exists in a structure or upon a premises a condition that is contrary to or in violation of this code that makes the structure or premises unsafe, dangerous, or hazardous, the code official is authorized to enter the structure or premises at reasonable times to inspect or to perform the duties imposed by this code, provided that if such structure or premises be occupied that credentials be presented to the occupant and entry requested. If such structure or premises be unoccupied, the code official shall first make a reasonable effort to locate the owner, owner's authorized agent or other person having charge or control of the structure or premises and request entry. If entry is refused, the ~~code~~ building official shall have recourse to the remedies provided by law to secure entry.

When, building official has obtained a proper inspection warrant or other remedy provided by law to secure entry, no owner or occupant or any other person having charge, care or control of any building or premises shall fail or neglect, after proper request is made as herein provided, to promptly permit entry therein by the building official or code official for the purpose of inspection and examination pursuant to this code.

[A] 104.6 Right of entry. Where it is necessary to make an inspection to enforce the provisions of this code, or where the ~~code~~ building official has reasonable cause to believe that there exists in a structure or upon a premises a condition that is contrary to or in violation of this code that makes the structure or premises unsafe, dangerous or hazardous, the ~~code~~ building official is authorized to enter the structure or premises at reasonable times to inspect or to perform the duties imposed by this code, provided that if such structure or premises be occupied that credentials be presented to the occupant and entry requested. If such structure or premises be unoccupied, the ~~code~~ building official shall first make a reasonable effort to locate the owner, owner's authorized agent or other person having charge or control of the structure or premises and request entry. If entry is refused, the ~~code~~ building official shall have recourse to the remedies provided by law to secure entry.

When the building official has obtained a proper inspection warrant or other remedy provided by law to secure entry, no owner or occupant or any other person having charge, care or control of any building or premises shall fail or neglect, after proper request is made to promptly permit entry by the building official or code official for the purpose of inspection and examination pursuant to this code.

No change to Houston amendment. Minor update to correct "code" official to "building" official.

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<p>[A] 104.8 Liability. The code official, member of the Board of Appeals, or employee charged with the enforcement of this code, while acting for the jurisdiction in good faith and without malice in the discharge of the duties required by this code or other pertinent law or ordinance, shall not thereby be rendered civilly or criminally liable personally and is hereby relieved from personal liability for any damage accruing to persons or property as a result of any act or by reason of an act or omission in the discharge of official duties. Except as otherwise provided by law, the building official shall not personally be liable in damages for any act or omission arising out of any official action taken to implement and enforce the provisions of this code. Additionally, except as otherwise provided by law, the building official shall not personally be liable in damages for any act or omission taken in the course and scope of employment. Where and to the extent consistent with the provisions of Chapter 2, Article X, of the City Code, this jurisdiction shall provide legal representation and indemnification for any suit or claim brought against the building official or any deputies because of acts or omissions performed in the implementation or enforcement of this code.</p> <p>This code shall not be construed to relieve from or lessen the responsibility of any person owning, operating, or controlling any building, structure or system or other construction for any damages to persons or property caused by defects, nor shall the code enforcement agency or the jurisdiction be held as assuming any such liability by reason of the inspections authorized by this code or any permits or certificates issued under this code.</p>		<p>[A] 104.8 Liability. <u>The code official, member of the Board of Appeals or employee charged with the enforcement of this code, while acting for the jurisdiction in good faith and without malice in the discharge of the duties required by this code or other pertinent law or ordinance, shall not thereby be rendered civilly or criminally liable personally and is hereby relieved from personal liability for any damage accruing to persons or property as a result of any act or by reason of an act or omission in the discharge of official duties. Except as otherwise provided by law, the building official shall not personally be liable in damages for any act or omission arising out of any official action taken to implement and enforce the provisions of this code, or omission taken in the course and scope of employment. Where and to the extent consistent with the provisions of Chapter 2, Article X, of the City Code, this jurisdiction shall provide legal representation and indemnification for any suit or claim brought against the building official or any deputies alleging any acts or omissions performed in the implementation or enforcement of this code or scope of employment.</u></p> <p><u>This code shall not be construed to relieve from or lessen the responsibility of any person owning, operating, or controlling any building, structure or system or other construction for any damages to persons or property caused by defects, nor shall the code enforcement division or the jurisdiction be held as assuming any such liability by reason of the inspections authorized or conducted by this code or any permits or certificates issued under this code.</u></p>	<p>No change to Houston amendment.</p>
<p>R104.8.1 Legal defense. Any suit or criminal complaint instituted against an officer or employee because of an act performed by that officer or employee in the lawful discharge of duties and under the provisions of this code shall be defended by legal representatives of the jurisdiction until the final termination of the proceedings. The building official or any subordinate shall not be liable for cost in any action, suit or proceeding that is instituted in pursuance of the provisions of this code.</p>		<p>R104.8.1 Legal defense. <u>Any suit or criminal complaint instituted against an officer or employee because of an act performed by that officer or employee in the lawful discharge of duties and under the provisions of this code shall be defended by legal representatives of the jurisdiction until the final termination of the proceedings. The code official or any subordinate shall not be liable for cost in any action, suit or proceeding that is instituted in pursuance of the provisions of this code.</u></p>	<p>No change to Houston amendment.</p>
<p>[A] 104.10 Modifications. Wherever there are practical difficulties involved in carrying out the provisions of this code, the code official shall have the authority to grant modifications for individual cases upon application of the owner or owner's authorized representative, provided the code official shall first find that special individual reason makes the strict letter of this code impractical, the</p>	<p>[A] 104.10 Modifications. Wherever there are practical difficulties involved in carrying out the provisions of this code, the code official shall have the authority to grant modifications for individual cases upon application of the owner or owner's authorized representative, provided that the code official shall first find that special individual reason makes the strict letter of this code impractical, the modification is in compliance with the</p>	<p>[A] 104.10 Modifications. Wherever there are practical difficulties involved in carrying out the provisions of this code, the <u>code building official</u> shall have the authority to grant modifications for individual cases upon application of the owner or owner's authorized representative, provided the <u>code building official</u> shall first find that special individual reason makes the</p>	<p>Edits made to clarify code, no major change to code No change to Houston amendment. Minor update to correct "code" official to "building" official.</p>

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<p>modification is in compliance with the intent and purpose of this code and such modification does not lessen health, accessibility, life and fire safety, or structural requirements. The details of action granting modifications shall be recorded and entered in the files of <u>Building Code Enforcement</u>the Department of Building Safety.</p>	<p>intent and purpose of this code and such modification does not lessen</p>	<p>strict letter of this code impractical, the modification is in compliance with the intent and purpose of this code and such modification does not lessen health, accessibility, life and fire safety, or structural requirements. The details of action granting modifications shall be recorded and entered in the files of <u>Building Code Enforcement</u>the Department of Building Safety.</p>	
	<p>[A] 104.11 Alternative materials, design and methods of construction, and equipment. The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code, provided that any such alternative has been approved. An alternative material, design, or method of construction shall be approved where the code official finds that the proposed design is satisfactory and complies with the intent of the provisions of this code, and that the material, method, or work offered is, for the purpose intended, not less than the equivalent of that prescribed in this code in quality, strength, effectiveness, fire resistance, durability and safety. Where the alternative material, design or method of construction is not approved, the code official shall respond in writing, stating the reasons why the alternative was not approved.</p>		<p>Edits made to clarify code, no major change to code</p>
	<p>[A] 104.11.2 TestsWherever Where there is insufficient evidence of compliance with the provisions of this code or evidence that a material or method does not conform to the requirements of this code, or in order to substantiate claims for alternative materials or methods, the code official shall have the authority to require tests as evidence of compliance to be made at no without expense to the jurisdiction. Test methods shall be as specified in this code or by other recognized test standards. In the absence of recognized and accepted test methods, the code official shall approve the testing procedures. Tests shall be performed by an approved agency. Reports of such tests shall be retained by the code official for the period required for retention.</p>		<p>Edits made to clarify code, no major change to code</p>
	<p style="text-align: center;">SECTION 105 PERMITS</p>	<p style="text-align: center;">SECTION 105 PERMITS</p>	
<p>[A] 105.1 Required. Any owner or owner’s authorized agent who intends to repair, add to, alter, relocated, demolish, or change the occupancy of a building or to repair, install, add, alter, remove, convert, or replace any electrical, gas, mechanical, or plumbing system, the installation of which is regulated by this code, or to cause any such work to be performed, shall first make application to the code <u>building official</u> and obtain the required permit, and no person shall cause, suffer or permit the same such work to be done unless a separate permit for each building or structure has first been obtained.</p>		<p>[A] 105.1 Required. Any owner or owner’s authorized agent who intends to <i>repair</i>, add to, alter, relocate, demolish, or change the occupancy of a building, or to <i>repair</i>, install, add, alter, remove, convert, or replace any electrical, gas, mechanical or plumbing system, the installation of which is regulated by this code, or to cause any such work to be performed, shall first make application to the code <u>building official</u> and obtain the required permit, and no person shall cause, suffer, or permit the work to</p>	<p>No change to Houston amendment.</p>

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		<p>be done unless a separate permit for each building or structure has first been obtained.</p>	
<p>[A] 105.1.2 Annual permit records. The person to whom an annual permit is issued shall keep a detailed record of alterations made under such annual permit. The code official shall have access to such records at all times, or such records shall be filed with the code official as designated.</p>		<p>[A] 105.1.2 Annual permit records. The person to whom an annual permit is issued shall keep a detailed record of alterations made under such annual permit. The code official shall have access to such records at all times, or such records shall be filed with the code official as designated.</p>	<p>No change to Houston amendment.</p>
<p>[A] 105.2 Work exempt from permit. Exemptions from building permit requirements of this code shall not be deemed to grant exemption from permits required by other codes or ordinances, and shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other codes, laws or ordinances of this jurisdiction. Permits Building permits shall not be required for the following:</p> <p>Building:</p> <ol style="list-style-type: none"> Sidewalks and driveways <u>Sidewalks and driveways</u> Uncovered decks accessory to a one- or two- family dwelling, <u>Uncovered decks accessory to a one- or two- family dwelling,</u> not more than 30 inches (762 mm) above grade and not over any basement or story below and that are not part of an accessible route. Painting, <u>tarping, wall papering, tiling, carpeting, cabinets, and counter tops repair and replacement,</u> and similar finish work. Temporary motion picture, television, and theater stage sets and scenery. Shade cloth structures constructed for nursery or agricultural purposes, and not including service systems. Window awnings supported by an exterior wall of Group R-3 or Group U occupancies. Movable cases, counters, and partitions not over 69 inches (1,753 mm) in height. <u>Approved exemptions set out in any volume of the Construction Code.</u> <p><u>Except for exempt work undertaken for, by or on the premises of the state or the federal government, building permits shall be required for work undertaken for, by or on the premises of any political subdivision or unit of government (including, but not limited to, the jurisdiction) in</u></p>	<p>[A] 105.2 Work exempt from permit</p> <p>Exemptions from permit requirements of this code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of this jurisdiction. Permits shall not be required for the following:</p> <p>Building:</p> <ol style="list-style-type: none"> Sidewalks and driveways not more than 30 inches (762 mm) above grade and not over any basement or story below and that are not part of an accessible route. Painting, papering, tilting, carpeting, cabinets, counter tops and similar finish work. Temporary motion picture, television, and theater stage sets and scenery. Shade cloth structures constructed for nursery or agricultural purposes, and not including service systems. Window awnings supported by an exterior wall of Group R-3 or Group U occupancies. Movable <u>Nonfixed and moveable</u> cases, counters and partitions not over 69 <u>5 feet 9</u> inches (1753 mm) in height. 	<p>[A] 105.2 Work exempt from permit. Exemptions from building permit requirements of this code shall not be deemed to grant exemption from permits required by other codes or ordinances, and shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other codes, laws or ordinances of this jurisdiction. Permits Building permits shall not be required for the following:</p> <p>Building:</p> <ol style="list-style-type: none"> Sidewalks and driveways <u>Sidewalks and driveways</u> Uncovered decks accessory to a one- or two-family dwelling, <u>Uncovered decks accessory to a one- or two-family dwelling,</u> not more than 30 inches (762 mm) above grade and not over any basement or story below and that are not part of an accessible route. Painting, <u>tarping, wall papering, tiling, carpeting, cabinets, or counter tops repair and replacement,</u> and similar finish work. Temporary motion picture, television, and theater stage sets and scenery. Shade cloth structures constructed for nursery or agricultural purposes, and not including service systems. Window awnings supported by an exterior wall of Group R-3 or Group U occupancies. Nonfixed and movable cases, counters, and partitions not over 5 feet 9 inches (1753 mm) in height. <u>Approved exemptions set out in any volume of the Construction Code.</u> <p><u>Except for exempt work undertaken for, by, or on the premises of the state or the federal government, building permits shall be required for work undertaken for, by, or on the premises of any political subdivision or unit of government (including, but not limited to, the jurisdiction) in the same manner and to the same extent as for work performed for, by, or on the premises of</u></p>	<p>No change to Houston amendment.</p>

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the same manner and to the same extent as for work performed by, for, or on the premises of other persons. The fees prescribed in this code shall be applicable to all permits issued to or for governmental agencies.

Counties are required to comply with the provisions of the *Construction Code*. Except as provided by Section 212.903 of the *Texas Local Government Code*, a county shall notify the *building official* of each work project that is undertaken. The *building official* shall, upon request and demonstration of capacity, allow a county to self-permit and self-inspect work that is performed by or for the county on county-owned buildings and facilities for which a permit is required. No fee shall be imposed hereunder for work that a county is authorized to self-permit and self-inspect.

Electrical:

~~**Repairs and maintenance:** Minor *repair* work, including the replacement of lamps or the connection of approved portable electrical equipment to approved permanently installed receptacles.~~

~~**Radio and television transmitting stations:** The provisions of this code shall not apply to electrical equipment used for radio and television transmissions, but do apply to equipment and wiring for power supply, the installations of towers, and antennas.~~

~~**Temporary testing systems:** A permit shall not be required for the installation of any temporary system required for the testing or servicing of electrical equipment or apparatus.~~

Gas:

1. ~~Portable heating appliance.~~
2. ~~Replacement of any minor part that does not alter approval of equipment or make such equipment *unsafe*.~~

Mechanical:

1. ~~Portable heating appliance.~~
2. ~~Portable ventilation equipment.~~
3. ~~Portable cooling unit.~~
4. ~~Steam, hot, or chilled water piping within any heating or cooling equipment regulated by this code.~~

other persons. The fees prescribed in this code shall be applicable to all permits issued to or for governmental agencies.

Counties are required to comply with the provisions of the *Construction Code*. Except as provided by Section 212.903 of the *Texas Local Government Code*, a county shall notify the *building official* of each work project that is undertaken. The *building official* shall, upon request and demonstration of capacity, allow a county to self-permit and self-inspect work that is performed by or for the county on county-owned buildings and facilities for which a permit is required. No fee shall be imposed hereunder for work that a county is authorized to self-permit and self-inspect.

Electrical:

~~**Repairs and maintenance:** Minor *repair* work, including the replacement of lamps or the connection of approved portable electrical equipment to approved permanently installed receptacles.~~

~~**Radio and television transmitting stations:** The provisions of this code shall not apply to electrical equipment used for radio and television transmissions, but do apply to equipment and wiring for power supply, the installations of towers, and antennas.~~

~~**Temporary testing systems:** A permit shall not be required for the installation of any temporary system required for the testing or servicing of electrical equipment or apparatus.~~

Gas:

1. ~~Portable heating appliance.~~
2. ~~Replacement of any minor part that does not alter approval of equipment or make such equipment *unsafe*.~~

Mechanical:

1. ~~Portable heating appliance.~~
2. ~~Portable ventilation equipment.~~
3. ~~Portable cooling unit.~~
4. ~~Steam, hot, or chilled water piping within any heating or cooling equipment regulated by this code.~~
5. ~~Replacement of any part that does not alter its approval or make it unsafe.~~
6. ~~Portable evaporative cooler.~~
7. ~~Self-contained refrigeration system containing 10 pounds (4.54 kg) or less of refrigerant and actuated by motors of 1 horsepower (746 W) or less.~~

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<p>5. Replacement of any part that does not alter its approval or make it unsafe.</p> <p>6. Portable evaporative cooler.</p> <p>7. Self contained refrigeration system containing 10 pounds or less of refrigerant and actuated by motors 1 horsepower or less.</p> <p>Plumbing:</p> <p>1. The stopping of leaks in drains, water, soil, waste, or vent pipe; provided, however, that if any concealed trap, drainpipe, water, soil, waste, or vent pipe becomes defective and it becomes necessary to remove and replace the same with new material, such work shall be considered as new work, and a permit shall be obtained and inspection made as provided in this code.</p> <p>2. The clearing of stoppages or the repairing of leaks in pipes, valves, or fixtures, and the removal and reinstallation of water closets, provided such repairs do not involve or require the replacement or rearrangement of valves, pipes, or fixtures.</p>		<p>Plumbing:</p> <p>1. The stopping of leaks in drains, water, soil, waste, or vent pipe; provided, however, that if any concealed trap, drainpipe, water, soil, waste, or vent pipe becomes defective and it becomes necessary to remove and replace the same with new material, such work shall be considered as new work, and a permit shall be obtained and inspection made as provided in this code.</p> <p>2. The clearing of stoppages or the repairing of leaks in pipes, valves, or fixtures, and the removal and reinstallation of water closets, provided such repairs do not involve or require the replacement or rearrangement of valves, pipes, or fixtures.</p>	
<p>[A] 105.2.1 Emergency replacements or repairs. Where An owner or owner's authorized agent shall submit an application for a permit to the <i>building official</i> for emergency equipment replacements and or repairs requiring a permit must be performed in an emergency situation, the permit application shall be submitted within no later than the next working business day after initiation of the replacement or repair to the code official.</p>		<p>[A] 105.2.1 Emergency replacements or repairs. Where An owner or owner's authorized agent shall submit an application for a permit to the <i>building official</i> for emergency equipment replacements and or repairs requiring a permit must be performed in an emergency situation, the permit application shall be submitted within no later than the next working business day after initiation of the replacement or repair to the code official.</p>	<p>No change to Houston amendment.</p>
	<p>[A] 105.2.2 Repairs. Application or notice to the code official is not required for ordinary repairs to structures and items listed in Section 105.2. provided that such repairs shall do not include any of the following:</p>		<p>Edits made to clarify code, no major change to code</p>

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	<p>1. The cutting away of any wall, partition, or portion thereof, the removal or cutting of any structural beam or load-bearing support, or the removal or change of any required means of egress or rearrangement of parts of a structure affecting the egress requirements; nor shall ordinary repairs include addition to, alteration of, replacement, or relocation of any standpipe, water supply, sewer, drainage, drain leader, gas, soil, waste, vent, or similar piping, electric wiring, or mechanical or other work affecting public health or general safety.</p> <p>2. The removal or cutting of any structural beam or load-bearing support.</p> <p>3. The removal or change of any required means of egress or rearrangement of parts of a structure affecting the egress requirements.</p> <p>4. Any addition to, alteration of, replacement or relocation of any standpipe, water supply, sewer, drainage, drain leader, gas, soil, waste, vent, or similar piping, or electric wiring.</p> <p>5. Mechanical or other work affecting public health or general safety.</p>		
<p>[A] 105.3 Application for permit. To obtain a <i>permit</i>, the applicant shall first file an application therefor in writing on a form furnished by Building Code Enforcement—the department of building safety for that purpose. Such application shall:</p> <ol style="list-style-type: none"> 1. Identify and describe the work to be covered by the <i>permit</i> for which application is made. 2. Describe the land on which the proposed work is to be done by legal description, street address or similar description that will readily identify and definitely locate the proposed building or work. 3. Indicate the use and occupancy for which the proposed work is intended. 4. Be accompanied by <i>construction documents</i> and other information as required in Section 107. 5. State the <u>valuation of total aggregate square footage of any new structure, addition(s), alteration, and the square footage of new paving, and linear feet of new sidewalks and curbs located within the right-of-way associated with</u> the proposed work. 6. Be signed by the applicant, or the applicant's authorized agent. 7. Give such other data and information as required by the <i>building official</i>. 		<p>[A] 105.3 Application for permit. To obtain a <i>permit</i>, the applicant shall first file an application therefor in writing on a form furnished by Building Code Enforcement—the department of building safety for that purpose. Such application shall:</p> <ol style="list-style-type: none"> 1. Identify and describe the work in accordance with Chapter 3 to be covered by the <i>permit</i> for which application is made. 2. Describe the land on which the proposed work is to be done by legal description, street address or similar description that will readily identify and definitely locate the proposed building or work. 3. Indicate the use and occupancy for which the proposed work is intended. 4. Be accompanied by construction documents and other information as required in Section 107. 5. State the <u>valuation of total aggregate square footage of any new structure, addition(s), alteration, and the square footage of new paving, and linear feet of new sidewalks and curbs located within the right-of-way associated with</u> the proposed work. 6. Be signed by the applicant, or the applicant's authorized agent. 7. Give such other data and information as required by the <u>code building official</u>. 	<p>No change to Houston amendment. Minor wordsmithing to clarify "building" official.</p>

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<p>[A] 105.3.2 Time limitation of application. An application for which no permit is issued within 180 days following the date of application shall become inactive, and plans and other data submitted for review thereafter shall be returned to the applicant or destroyed by the code official. The code official is authorized to grant one or more extensions of time for additional periods not to exceed 180 days each, for a maximum of two years from the date of the original application, upon written request and justifiable cause demonstrated by the applicant. If an application for permit does not result in a permit within two years after the date of original application, the permit application shall expire. In order to renew action on an application after expiration, the applicant shall submit a new permit application and plans and shall pay a new plan review fee. An application for a permit for any proposed work shall be deemed to have been inactive abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the code official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.</p>	<p>-</p>	<p>[A] 105.3.2 Time limitation of application. An application for which no permit is issued within 180 days following the date of application shall become inactive, and plans and other data submitted for review thereafter shall be returned to the applicant or destroyed by the building official. The building official is authorized to grant one or more extensions of time for additional periods not to exceed 180 days each, for a maximum of two years from the date of the original application, upon written request and justifiable cause demonstrated by the applicant. If an application for permit does not result in a permit within two years after the date of original application, the permit application shall expire. In order to renew action on an application after expiration, the applicant shall submit a new permit application and plans and shall pay a new plan review fee. An application for a permit for any proposed work shall be deemed to have been inactive abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the code official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.</p>	<p>No change to Houston amendment.</p>
<p>[A] 105.4 Validity of permit. Permit validity shall be governed by Section 105.4 of the Building Code. The issuance or granting of a permit shall not be construed to be a permit for, or an approval of, any violation of any of the provisions of this code or of any other ordinance of the jurisdiction. Permits presuming to give authority to violate or cancel the provisions of this code or other ordinances of the jurisdiction shall not be valid. The issuance of a permit based on construction documents and other data shall not prevent the code official from requiring the correction of errors in the construction documents and other data. The code official is authorized to prevent occupancy or use of a structure where in violation of this code or of any other ordinances of this jurisdiction.</p>		<p>[A] 105.4 Validity of permit. Permit validity shall be governed by Section 105.4 of the Building Code. The issuance or granting of a permit shall not be construed to be a permit for, or an approval of, any violation of any of the provisions of this code or of any other ordinance of the jurisdiction. Permits presuming to give authority to violate or cancel the provisions of this code or other ordinances of the jurisdiction shall not be valid. The issuance of a permit based on construction documents and other data shall not prevent the code official from requiring the correction of errors in the construction documents and other data. The code official is authorized to prevent occupancy or use of a structure where in violation of this code or of any other ordinances of this jurisdiction.</p>	<p>No change to Houston amendment.</p>
<p>[A] 105.5 Expiration. Every permit issued shall become invalid inactive on the 180th day after its issuance unless the work on the site authorized by such permit is has commenced and been inspected by a city inspector within 180 days after its issuance, or if the work authorized on the site by such permit is suspended or abandoned for a period of 180 days after the time date the work is was commenced. The building official is authorized to grant, in writing, one or more extensions of time, for periods not more than 180 days each. The extension shall be requested in writing and justifiable cause demonstrated.</p>		<p>[A] 105.5 Expiration. Every permit issued shall become invalid inactive on the 180th day after its issuance unless the work on the site authorized by such permit is has commenced and been inspected by a city inspector within 180 days after its issuance, or if the work authorized on the site by such permit is suspended or abandoned for a period of 180 days after the time date the work is was commenced. The building official is authorized to grant, in writing, one or more extensions of time, for periods not more than 180 days each. The extension shall be requested in writing and justifiable cause demonstrated.</p> <p>If work has not commenced under a permit within two years after the date of issuance or is suspended or abandoned at any</p>	<p>No change to Houston amendment. Includes new language to correlate permit expirations to other Houston codes.</p>

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<p>If work has not commenced under a permit within two years after the date of issuance or is suspended or abandoned at any time for a period of two years, the permit shall expire. In order to recommence work associated with an expired permit, the permit holder shall re-permit the project and pay the full permit fee applicable for any previously uninspected portion of the original scope of work. Where the original plans with <i>building official</i> approval are not available for completion of field inspections, a lost plan recheck shall be submitted for <i>building official</i> approval. Appropriate plan review fees shall apply.</p> <p>Exception: For the purpose of issuing a certificate of occupancy or a certificate of compliance, the <i>building official</i> may, upon request, reactivate a <i>permit</i> and perform a final inspection of work.</p>		<p>time for a period of two years, the permit shall expire. In order to recommence work associated with an expired permit, the permit holder shall re-permit the project and pay the full permit fee applicable for any previously uninspected portion of the original scope of work. Where the original plans with <i>building official</i> approval are not available for completion of field inspections, a lost plan recheck shall be submitted for <i>building official</i> approval. Appropriate plan review fees shall apply.</p> <p>Exception: For the purpose of issuing a certificate of occupancy or a certificate of compliance, the <i>building official</i> may, upon request, reactivate a <i>permit</i> and perform a final inspection of work.</p>	
<p>[A] 105.6 Suspension or revocation. The code <i>building official</i> is authorized to suspend or revoke a permit issued under the provisions of this code wherever the permit is issued in error or on the basis of incorrect, inaccurate, or incomplete information or in violation of any ordinance or regulation or any of the provisions of this code. Prior to taking such action, the <i>building official</i> shall provide notice to the building owner or to a tenant therein of a right to a hearing on the matter pursuant to Section 117 of the <i>Building Code</i>.</p>		<p>[A] 105.6 Suspension or revocation. The code <i>building official</i> is authorized to suspend or revoke a permit issued under the provisions of this code wherever the permit is issued in error or on the basis of incorrect, inaccurate, or incomplete information or in violation of any ordinance or regulation or any of the provisions of this code. Prior to taking such action, the <i>building official</i> shall provide notice to the building owner or to a tenant therein of a right to a hearing on the matter pursuant to Section 117 of the <i>Building Code</i>.</p>	<p>No change to Houston amendment.</p>
	<p>SECTION 106 CONSTRUCTION DOCUMENTS</p>	<p>SECTION 106 CONSTRUCTION DOCUMENTS</p>	
	<p>[A] 106.1 General. Submittal documents consisting of construction documents, special inspection and structural observation programs, investigation and evaluation reports, and other data shall be submitted in two or more sets, or in a digital format where allowed by the code official, with each application for a permit. The construction documents shall be prepared by a registered design professional where required by the statutes of the jurisdiction in which the project is to be constructed. Where special conditions exist, the code official is authorized to require additional construction documents to be prepared by a registered design professional.</p>		<p>Edits made to clarify code, no major change to code</p>
	<p>[A] 106.2.2 Fire protection system(s) shop drawings. Shop drawings for the fire protection system(s) shall be submitted to indicate conformance compliance with this code and the construction documents and shall be approved prior to the start of system installation. Shop drawings shall contain information as required by the referenced installation standards in Chapter 9 of the International Building Code.</p>		<p>Edits made to clarify code, no major change to code</p>

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	<p>[A] 106.2.4 Exterior wall envelope. Construction documents for work affecting the <i>exterior wall envelope</i> shall describe the <i>exterior wall envelope</i> in sufficient detail to determine compliance with this code. The construction documents shall provide details of the <i>exterior wall envelope</i> as required, including windows, doors, flashing intersections with dissimilar materials, corners, end details, control joints, intersections at roof, eaves or parapets, means of drainage, water-resistive membrane barriers and details around openings.</p>		<p>Edits made to clarify code, no major change to code</p>
	<p>[A] 106.2.5 Exterior balconies and elevated walking surfaces. Where the scope of work involves balconies or other surfaces exposed to water from direct or blowing rain, snow or irrigation have weather-exposed surfaces, and the structural framing is protected by an impervious moisture barrier, the construction documents shall include details for all elements of the impervious moisture barrier system. The construction documents shall include manufacturer's installation instructions.</p>		<p>Language added to specify moisture barrier requirements for balconies and elevated walking surfaces.</p>
<p>[A] 106.3 Examination of documents: fees. The <i>code official</i> shall examine or cause to be examined the submittal documents and shall ascertain by such examinations whether the construction or occupancy indicated and described is in accordance with the requirements of this code <u>the <i>Construction Code</i></u> and other pertinent laws or ordinances.</p> <p><u>Where plans or other data is required to be submitted in accordance with the <i>Construction Code</i>, a plan review fee shall be paid at the time of submitting construction documents for review. The plan review fees for any proposed work shall be charged as described in Section 118.1.11 of the <i>Building Code</i> and the <i>city fee schedule</i>.</u></p> <p><u>When approved plans are lost or changed so as to require an additional plan review or when a plan review is required and there is no building permit required, a plan review fee shall be charged as described in Section 118.2.8 of the <i>Building Code</i> and the <i>city fee schedule</i>.</u></p>		<p>[A] 106.3 Examination of documents. The <i>code official</i> shall examine or cause to be examined the submittal documents and shall ascertain by such examinations whether the construction or occupancy indicated and described is in accordance with the requirements of this code <u>the <i>Construction Code</i></u> and other pertinent laws or ordinances.</p>	<p>Minor change to Houston amendment; paragraph amendment portions have been relocated to Section 108.2.</p>
<p>106.3.4.1 Deferred submittal plan review fees. A plan review fee shall be paid at the time of submitting construction documents for review of deferred submittal plans. The fee for any deferred submittal review shall be charged at the rate shown in the city fee schedule for a minimum permit fee plus applicable administrative fee. The plan review fees specified in this subsection are separate fees from the permit fees.</p>		<p>106.3.4.1 Deferred submittal plan review fees. A plan review fee shall be paid at the time of submitting construction documents for review of deferred submittal plans. The fee for any deferred submittal review shall be charged at the rate shown in the <i>city fee schedule</i> for a minimum permit fee plus applicable administrative fee. The plan review fees specified in this subsection are separate fees from the permit fees.</p>	<p>No change to Houston amendment.</p>

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<p>[A] 106.5 Retention of construction documents. One set of approved construction documents shall may be retained by the code building official for a period of not less than the period required for retention of public records.</p>		<p>[A] 106.5 Retention of construction documents. One set of approved construction documents shall may be retained by the code building official for a period of not less than the period required for retention of public records.</p>	<p>No change to Houston amendment.</p>
		<p>SECTION 107 TEMPORARY STRUCTURES AND USES</p>	
<p>[A] 107.3 Temporary power. The code building official is authorized to give permission to temporarily supply and use power in part of an electric installation before such installation has been fully completed and the final certificate of completion has been issued. The part covered by the temporary certificate shall comply with the requirements specified for temporary lighting, heat or power in the <u>Electrical Code NFPA 70</u>.</p>		<p>[A] 107.3 Temporary power. The code building official is authorized to give permission to temporarily supply and use power in part of an electric installation before such installation has been fully completed and the final certificate of completion has been issued. The part covered by the temporary certificate shall comply with the requirements specified for temporary lighting, heat or power in the <u>Electrical Code NFPA 70</u>.</p>	<p>No change to Houston amendment.</p>
	<p>SECTION 108 FEES</p>	<p>SECTION 108 FEES</p>	
	<p>[A] 108.1 Payments of fees. A permit shall not be valid until the fees prescribed by law have been paid. Not, nor shall an amendment to a permit be released until the additional fee, if any, has been paid.</p>		<p>Edits made to clarify code, no major change to code</p>
<p>[A] 108.2 Schedule or permit fees. On buildings, electrical, gas, mechanical, and plumbing systems or alterations requiring a permit, a fee for each permit shall be paid as required in accordance with Section 118 of the <u>Building Code</u> and the schedule as established by the applicable governing authority city fee schedule.</p>	<p>[A] 108.2 Schedule of permit fees. On buildings, electrical, gas, mechanical, and plumbing systems or alterations requiring <u>Where</u> a permit is required, a fee for each permit shall be paid as required, in accordance with the schedule as established by the applicable governing authority.</p>	<p>[A] 108.2 Schedule or permit fees. Where a permit is required, a fee for each permit shall be paid as required, in accordance with Section 118 of the <u>Building Code</u> and the schedule as established by the applicable governing authority city fee schedule.</p> <p><u>Where plans or other data is required to be submitted in accordance with the Construction Code, a plan review fee shall be paid at the time of submitting construction documents for review. The plan review fees for any proposed work shall be charged as described in Section 118.1.11 of the Building Code and the city fee schedule.</u></p> <p><u>When approved plans are lost or changed so as to require additional plan review or when a plan review is required and there is no building permit required, a plan review fee shall be charged as described in Section 118.2.8 of the Building Code and the city fee schedule.</u></p>	<p>Edits made to clarify code, no major change to code. Houston amendment brought forward from Section 106.3.</p>
<p>[A] 108.3 Building permit valuations. The applicant for a permit shall provide an estimated permit value at time of application. Permit valuations shall include total value of</p>	<p>[A] 108.3 Building permit <u>Permit</u> valuations. The applicant for a permit shall provide an estimated permit value at time of application. Permit valuations shall include total value of work,</p>	<p>[A] 108.3 Permit valuations. The applicant for a permit shall provide an estimated permit value at time of application. Permit valuations shall include total value of work including materials</p>	<p>Edits made to clarify code, no major change to code No change to Houston amendment.</p>

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<p>work including materials and labor for which the permit is being issued, such as electrical, gas, mechanical, plumbing equipment, and permanent systems. If, in the opinion of the code building official, the valuation is underestimated on the application, the permit shall be denied unless the applicant can show detailed estimates to meet the approval of the code building official. Final building permit valuation shall be set by the code building official. The value to be used in computing the permit fee for alterations, remodeling or repairs shall be the total value of all construction work for which the permit is issued based on the current building valuation data sheet published by the International Code Council.</p>	<p>including materials and labor for which the permit is being issued, such as electrical, gas, mechanical, plumbing equipment, and permanent systems. If, in the opinion of the code official, the valuation is underestimated on the application, the permit shall be denied unless the applicant can show detailed estimates to meet the approval of the code official. Final building permit valuation shall be set by the code official.</p>	<p>and labor for which the permit is being issued, such as electrical, gas, mechanical, plumbing equipment, and permanent systems. If, in the opinion of the code building official, the valuation is underestimated on the application, the permit shall be denied unless the applicant can show detailed estimates to meet the approval of the code building official. Final building permit valuation shall be set by the code building official. <u>The value to be used in computing the permit fee for alterations, remodeling or repairs shall be the total value of all construction work for which the permit is issued based on the current building valuation data sheet published by the International Code Council.</u></p>	
<p>[A] 108.4 Work commencing before permit issuance. Any person who commences any work before obtaining the necessary permits shall be subject to an additional investigation fee established by the code official equal to the amount of the permit fee and applicable minimum investigation fees required by the Building Code that shall be in addition to the required permit fees.</p>	<p>[A] 108.4 Work commencing before permit issuance. Any person who commences any work before obtaining the necessary permits shall be subject to an additional a fee established by the code official that shall be in addition to the required permit fees.</p>	<p>[A] 108.4 Work commencing before permit issuance. Any person who commences any work before obtaining the necessary permits shall be subject to a an investigation fee established by the code official equal to the amount of the permit fee and applicable minimum investigation fees required by the Building Code that shall be in addition to the required permit fees.</p>	<p>Edits made to clarify code, no major change to code No change to Houston amendment.</p>
	<p>[A] 108.5 Related fees. The payment of the fee for the construction, <i>alteration</i>, removal or demolition of work done in connection to or concurrently with the work authorized by a building permit shall not relieve the applicant or holder of the permit from the payment of other fees that are prescribed by law.</p>		<p>Edits made to clarify code, no major change to code</p>
<p>[A] 108.6 Refunds. The code building official is authorized to establish a refund policy may authorize the refund of any fee paid hereunder that was erroneously paid or collected due to an error by a city employee. This provision shall not be applicable if the error occurred because of incorrect information provided by the applicant.</p> <p><u>The building official may authorize the refund of not more than 90 percent of the amount in excess of the minimum permit fee established in Section 118.1.3 of the Building Code and the city fee schedule for the permit fee paid when no work has been done under a permit issued in accordance with this code. If work has been done under the permit, no refund shall be authorized. The originally paid administrative fee and the plan review portion of the permit fee shall be nonrefundable.</u></p> <p><u>The building official shall not authorize a refund of any fee paid except on written application filed by the original permit holder or an authorized successor in the event of the death or incapacity of the original permit holder not later than 180 calendar days after the date of fee payment.</u></p>		<p>[A] 108.6 Refunds. The code building official is authorized to establish a refund policy may authorize the refund of a fee paid that was erroneously paid or collected due to an error by a city employee. This provision shall not be applicable if the error occurred because of incorrect information provided by the applicant.</p> <p><u>The building official may authorize the refund of not more than 90 percent of the amount in excess of the minimum permit fee established in Section 118.1.3 of the Building Code and the city fee schedule for the permit fee paid when no work has been done under a permit issued in accordance with this code. If work has been done under the permit, no refund shall be authorized. The originally paid administrative fee and the plan review portion of the permit fee are nonrefundable.</u></p> <p><u>The building official shall not authorize a refund of any fee paid except on written application filed by the original permit holder or an authorized successor in the event of the death or incapacity of the original permit holder not later than 180 calendar days after the date of fee payment.</u></p>	<p>No change to Houston amendment.</p>

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	SECTION 109 INSPECTIONS	SECTION 109 INSPECTIONS	
	<p>[A] 109.1 General. Construction or work for which a permit is required shall be subject to inspection by the code official, and such construction or work shall remain visible and able to be accessed accessible and exposed for inspection purposes until approved. Approval as a result of an inspection shall not be construed to be an approval of a violation of the provisions of this code or of other ordinances of the jurisdiction. Inspections presuming to give authority to violate or cancel the provisions of this code or of other ordinances of the jurisdiction shall not be valid. It shall be the duty of the permit applicant to cause the work to visible and able to be accessed accessible and exposed for inspection purposes. Neither the code official nor the jurisdiction shall be liable for expense entailed in the removal or replacement of any material required to allow inspection</p>		Edits made to clarify code, no major change to code
<p>[A] 109.3.3 Reserved. Lowest floor elevation. For additions and substantial improvements to existing buildings in flood hazard areas, upon placement of the lowest floor, including basement, and prior to further vertical construction, the elevation documentation required in the International Building Code shall be submitted to the code official.</p>	<p>[A] 109.3.3 Lowest floor elevation. For additions and substantial improvements to existing buildings in flood hazard areas, on placement of the lowest floor, including basement, and prior to further vertical construction, the elevation documentation required in the International Building Code, or Section R322 of the International Residential Code, as applicable, shall be submitted to the code official.</p>	<p>[A] 109.3.3 Reserved. Lowest floor elevation. For additions and substantial improvements to existing buildings in flood hazard areas, on placement of the lowest floor, including basement, and prior to further vertical construction, the elevation documentation required in the International Building Code, or the International Residential Code, as applicable, shall be submitted to the code official.</p>	Edits made to clarify code, no major change to code No change to Houston amendment.
<p>[A] 109.3.5 Lath or gypsum board inspection. Lath and gypsum board inspections shall be made after lathing and gypsum board, interior and exterior, is in place but before any plastering is applied or before gypsum board joints and fasteners are taped and finished.</p> <p>Exception: Gypsum board that is not part of a fire resistance-rated assembly or a shear assembly.</p>		<p>[A] 109.3.5 Lath or gypsum board inspection. Lath and gypsum board inspections shall be made after lathing and gypsum board, interior and exterior, is in place but before any plastering is applied or before gypsum board joints and fasteners are taped and finished.</p> <p>Exception: Gypsum board that is not part of a fire resistance-rated assembly or a shear assembly.</p>	No change to Houston amendment.
	<p>[A] 109.3.6 Weather-exposed balcony and walking surface waterproofing. Where the scope of work involves balconies or other elevated walking surfaces exposed to water from direct or blowing rain, snow or irrigation that have weather-exposed surfaces and the structural framing is protected by an impervious moisture barrier, all elements of the impervious moisture barrier system shall not be concealed until inspected and approved.</p>		Language added to require design of moisture barrier on balconies.
<p>[A] 109.3.7 Other inspections. In addition to the inspections specified above, the code building official is authorized to make or require other inspections of any construction work to ascertain compliance with the provisions of this code and other laws that are enforced by the Department of Building Safety Building Code Enforcement.</p>	<p>[A] 109.3.7 Other inspections. In addition to the inspections specified above in Sections 109.2 through 109.3.7, the code official is authorized to make or require other inspections of any construction work to ascertain compliance with the provisions of this code and other laws that are enforced by the Department of Building Safety.</p>		Edits made to clarify code, no major change to code Amendment relocated to Section 109.8.3.

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		<p>[A] 109.3.8 Other inspections. In addition to the inspections specified in Sections 109.2 through 109.3.7, the code building official is authorized to make or require other inspections of any construction work to ascertain compliance with the provisions of this code and other laws that are enforced by the Department of Building Safety Building Code Enforcement Division.</p>	<p>No change to Houston amendment.</p>
<p>109.3.10 Reinspection. A reinspection fee may be assessed for each inspection or reinspection when an inspector arrives to perform the work and finds the portion of work for which inspection is called is not complete or when corrections called for in a previous inspection report have not been made.</p> <p>This section is not to be interpreted as requiring inspection fees the first time a job is rejected for failure to comply with the requirements of this code, but as controlling the practice of calling for inspections before the job is ready for such inspection or reinspection.</p> <p>The code official may assess reinspection fees when the inspection record card is not posted or otherwise available on the work site, or when the approved plans are not readily available to the inspector, for failure to provide access on the date for which inspection is requested, or for deviating from plans requiring the approval of the <i>building official</i>.</p> <p>To obtain a reinspection, the applicant shall make a request and pay the reinspection fee in accordance with Section 118 of the <i>Building Code</i> the city fee schedule.</p> <p>In instances where reinspection fees have been assessed, no additional inspection of the work will be performed until the required fees have been paid.</p>	<p>[A] 109.3.10 Flood hazard documentation. Where a building is located in a flood hazard area, documentation of the elevation of the lowest floor as required in the International Building Code or the International Residential Code, as applicable, shall be submitted to the code official prior to the final inspection.</p>	<p>[A] 109.3.10 Reserved. Flood hazard documentation. Where a building is located in a flood hazard area, documentation of the elevation of the lowest floor as required in the International Building Code or the International Residential Code, as applicable, shall be submitted to the code official prior to the final inspection.</p>	<p>Flood information added to code. No change to Houston amendment.</p>
	<p>[A] 109.3.10 109.3.11 Final inspection.</p>		<p>Renumbering</p>
		<p>[A] 109.3.10 Reserved. Flood hazard documentation. Where a building is located in a flood hazard area, documentation of the elevation of the lowest floor as required in the International Building Code or the International Residential Code, as applicable, shall be submitted to the code official prior to the final inspection.</p>	<p>Flood information added to code. No change to Houston amendment.</p>
		<p>109.3.12 Reinspection. A reinspection fee may be assessed for each inspection or reinspection when an inspector arrives to perform the work and finds the portion of work for which inspection is called is not complete, or when</p>	<p>No change to Houston amendment.</p>

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		<p><u>corrections called for in a previous inspection report have not been made.</u></p> <p><u>This section is not to be interpreted as requiring inspection fees the first time a job is rejected for failure to comply with the requirements of this code, but as controlling the practice of calling for inspections before the job is ready for such inspection or reinspection.</u></p> <p><u>The code official may assess reinspection fees when the inspection record card is not posted or otherwise available on the work site, or when the approved plans are not readily available to the inspector, for failure to provide access on the date for which inspection is requested, or for deviating from plans requiring the approval of the <i>building official</i>.</u></p> <p><u>To obtain a reinspection, the applicant shall make a request and pay the reinspection fee in accordance with Section 118 of the <i>Building Code</i> and the <i>city fee schedule</i>.</u></p> <p><u>In instances where reinspection fees have been assessed, no additional inspection of the work will be performed until the required fees have been paid.</u></p>	
	<p>[A] 109.4 Inspection agencies. The code official is authorized to accept reports of approved inspection agencies, provided that such agencies satisfy the requirements as to qualifications and reliability</p>		Edits made to clarify code, no major change to code
	<p>SECTION 110 CERTIFICATE OF OCCUPANCY</p>	<p>SECTION 110 CERTIFICATE OF OCCUPANCY</p>	

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<p>110.1 Altered area use and occupancy classification change. Altered areas of a building and relocated buildings, or portion thereof, such as an individual business lease space, shall not be used or occupied, and change in the existing use or occupancy classification of a building or portion thereof shall not be made until the code building official has issued a <u>separate</u> certificate of occupancy for each lease space therefor as provided herein. For purposes of this section, a <u>lease space</u> means a leasehold or tenancy held or occupied by an individual or entity for its sole use and may include one or more rooms. Issuance of a certificate of occupancy shall not be construed as an approval of a violation of the provisions of this code or of other ordinances of the jurisdiction.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. Certificates of occupancy are not required for work exempt from permits under Section 105.2. 2. One- and two-family dwellings, Group U occupancies, and individual dwelling units or sleeping units do not require a certificate of occupancy. 	<p>[A] 110.1 Altered area use and occupancy classification change Change of occupancy. Altered areas of a building and relocated buildings A structure shall not be used or occupied in whole or in part, and a change in the existing use or of occupancy classification of a building structure or portion thereof shall not be made until the <i>code official</i> has issued a certificate of occupancy therefor as provided herein. Issuance of a certificate of occupancy shall not be construed as an approval of a violation of the provisions of this code or other ordinances of jurisdiction. Certificates presuming to give authority to violate or cancel the provisions of this code and other ordinances of the jurisdiction shall not be valid.</p> <p>Exception: Certificates of occupancy are not required to work exempt from permits in accordance with Section 105.2.</p>	<p>[A] 110.1 Change of occupancy. A structure shall not be used or occupied in whole or in part, and a <i>change of occupancy</i> of a structure or portion thereof, such as an individual business lease space, shall not be made until the <i>code official</i> has issued a separate certificate of occupancy for each altered use area or occupancy classification change as provided herein. For the purposes of this section, a <i>lease space</i> means a leasehold or tenancy held or occupied by an individual or entity for its sole use and may include one or more rooms. Issuance of a certificate of occupancy shall not be construed as an approval of a violation of the provisions of this code or of other ordinances of the jurisdiction. Certificates presuming to give authority to violate or cancel the provisions of this code or other ordinances of the jurisdiction shall not be valid.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. Certificates of occupancy are not required for exempt from permits in accordance with Section 105.2. 2. One- and two-family dwellings, Group U occupancies accessory to a single family dwelling, and individual dwelling units or sleeping units do not require a certificate of occupancy. 	<p>Edits made to clarify code, no major change to code. No change to Houston amendment.</p>
<p>[A] 110.2 Certificate issued. After the <i>code official</i> inspects the building and does not find violations of the provisions of this code or other laws that are enforced by the Department of Building Safety Building Code Enforcement, the code building official shall issue a certificate of occupancy that shall contain the following:</p> <ol style="list-style-type: none"> 1. The building <i>permit</i> number <u>or project number</u>. 2. The address of the structure. 3. The name and address of the owner, <u>and where applicable, the tenant and</u> or the owner's authorized agent. 4. A description of that portion of the structure for which the certificate is issued. 5. A statement that the described portion of the structure has been inspected for compliance with the requirements of this code for the occupancy and division of occupancy and the use for which the 	<p>[A] 110.2 Certificate issued. After the <i>code official</i> inspects the building structure and does not find violations of the provisions of this code or other laws that are enforced by the department of building safety department, the <i>code official</i> shall issue a certificate of occupancy that contains the following:</p> <ol style="list-style-type: none"> 1. The building permit number. 2. The address of the structure. 3. The name and address of the owner or the owner's authorized agent. 4. The description of that portion of the structure for which the certificate is issued. 5. A statement that the described portion of the structure has been inspected for compliance with the requirements of this code for the occupancy and division of occupancy and the use for which the proposed occupancy is classified. 6. The name of the <i>code official</i>. 7. The edition of the code under which the permit was issued. 	<p>[A] 110.2 Certificate issued. After the <i>code official</i> inspects the structure and does not find violations of the provisions of this code or other laws that are enforced by the department Building Code Enforcement, the code building official shall issue a certificate of occupancy that contains the following:</p> <ol style="list-style-type: none"> 1. The permit number <u>or project number</u>. 2. The address of the structure. 3. The name and address of the owner, <u>and where applicable, the tenant and</u> or the owner's authorized agent. 4. A description of that portion of the structure for which the certificate is issued. 5. A statement that the described portion of the structure has been inspected for compliance with the requirements of this code for the occupancy and division of occupancy and the use for which the proposed occupancy is classified. 	<p>Edits made to clarify code, no major change to code Minor change to Houston amendment to include fire alarms be included on certificates of occupancy/compliance to match the IBC and IRC.</p>

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<p>proposed occupancy is classified.</p> <p>6. The name of the <i>building official</i>.</p> <p>7. The edition of the code under which the <i>permit</i> was issued.</p> <p>8. The use and occupancy, in accordance with the provisions of the <i>International Building Code</i> of the building or portion thereof.</p> <p>9. The type of construction as defined in <u>Chapter 6</u> of the <i>International Building Code</i>.</p> <p>10. The design <i>occupant load</i> and any impact the <i>alteration</i> has on the design occupant load of the area not within the scope of the work.</p> <p>11. If a fire alarm protection systems is are provided, and whether the fire alarm protection systems is are required.</p> <p>12. <u>If a fire sprinkler system is provided, the type of system provided, and whether the fire sprinkler system is required.</u></p> <p>13. Any special stipulations and conditions of the building permit.</p>	<p>8. The use and occupancy in accordance with the provisions of the <i>International Building Code</i>.</p> <p>9. The type of construction as defined in the <i>International Building Code</i>.</p> <p>10. The design occupant load and any impact the <i>alteration</i> has on the design occupant load of the area not within the scope of the work.</p> <p>11. If fire protection systems are provided, whether the fire protection systems are required. <u>Where an automatic sprinkler system is provided, and whether an automatic sprinkler system is required.</u></p> <p>12. Any special stipulations and conditions of the building permit.</p>	<p>6. The name of the code building <i>official</i>.</p> <p>7. The edition of the code under which the permit was issued.</p> <p>8. The use and occupancy in accordance with the provisions of the <i>International Building Code</i> of the building or portion thereof.</p> <p>9. The type of construction as defined in <u>Chapter 6</u> of the <i>International Building Code</i>.</p> <p>10. The design occupant load and any impact the <i>alteration</i> has on the design occupant load of the area not within the scope of work.</p> <p>11. Where an automatic sprinkler system is provided, and whether an automatic sprinkler system is required.</p> <p><u>12. Where a fire alarm system is provided, and whether the fire alarm system is required.</u></p> <p>13. Any special stipulations and conditions of the building permit.</p>	
<p>[A] 110.4 Revocation. The <i>code building official</i> is authorized to, in writing, suspend or revoke a certificate of occupancy or completion issued under the provisions of this code, after notice of a right to a hearing on the matter pursuant to Section 117 of the <i>Building Code</i> has been delivered to the owner or occupant and the applicable processes thereunder have been performed, wherever the certificate is issued in error or on the basis of incorrect information supplied, or where it is determined that the building or structure or portion thereof is in violation of any ordinance or regulation or any of the provisions of this code</p>	<p>[A] 110.4 Revocation. The code official is authorized <u>to</u>, in writing, suspend or revoke a certificate of occupancy or completion issued under the provisions of this code, <u>in writing,</u> wherever the certificate is issued in error or on the basis of incorrect information supplied, or where it is determined that the building or structure or portion thereof is in violation of <u>any ordinance or regulation or any of the provisions of this code or other ordinance of the jurisdiction.</u></p>	<p>[A] 110.4 Revocation. The code building official is authorized to suspend or revoke a certificate of occupancy or completion issued under the provisions of this code, <u>after notice of a right to a hearing on the matter pursuant to Section 117 of the <i>Building Code</i> wherever the certificate is issued in error or on the basis of incorrect information supplied, or where it is determined that the building or structure or portion thereof is in violation of any ordinance or regulation or any of the provisions of this code.</u></p>	<p>Edits made to clarify code, no major change to code No change to Houston amendment.</p>
<p>110.5 Posting. <u>The owner or occupant shall post the certificate of occupancy in a conspicuous place on the premises, and it shall not be removed except by the <i>building official</i>.</u></p>		<p>110.5 Posting. The owner or occupant shall post the certificate of occupancy in a conspicuous place on the premises, and it shall not be removed except by the <i>building official</i>. <u>The owner shall maintain the correct information on the certificate of occupancy. The <i>building official</i> and <i>fire code official</i> shall require errors on a certificate of occupancy or certificate of compliance to be corrected.</u></p>	<p>Updates to C/O posting requirements to match IBC and IRC.</p>
	<p>SECTION 111 SERVICE UTILITIES</p>		

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	<p>[A] 111.1 Connection of service utilities. A person shall not make connections from a utility, source of energy, fuel, or power, <u>water system or sewer system</u> to any building or system that is regulated by this code for which a permit is required, until approved by the code official.</p>		<p>Edits made to clarify code, no major change to code</p>
	<p>[A] 111.2 Temporary connection. The code official shall have the authority to authorize the temporary connection of the building or system to the utility, source of energy, fuel, or power, <u>water system or sewer system for the purpose of testing systems or for use under a temporary approval.</u></p>		<p>Included water and sewer</p>
	<p>[A] 111.3 Authority to disconnect service utilities. The code official shall have the authority to authorize disconnection of utility service to the building, structure or system regulated by this code and the referenced codes and standards in case of emergency where necessary to eliminate an immediate hazard to life or property or where such utility connection has been made without the approval required by Section 111.1 or 111.2. The code official shall notify the serving utility and, wherever possible, the owner or the owner's authorized agent and the occupant of the building, structure or service system of the decision to disconnect prior to taking such action. If not notified prior to disconnecting, the owner, <u>the owner's authorized agent</u> or occupant of the building, structure or service system shall be notified in writing, as soon as practical thereafter.</p>		<p>Edits made to clarify code, no major change to code</p>
	<p style="text-align: center;">SECTION 112 BOARD <u>MEANS</u> OF APPEALS</p>	<p style="text-align: center;">SECTION 112 MEANS OF APPEAL</p>	<p>Edits made to clarify code, no major change to code</p>
<p>[A] 112.1 General. In order to Except as provided below for mechanical and plumbing issues, the General Appeals Board, in accordance with the provisions of the <i>Building Code</i>, shall hear and decide appeals of orders, decisions, or determinations made by the code building official relative to the application and interpretation of this code. there shall be and is hereby created a board of appeals. The board of appeals shall be appointed by the governing body and shall hold office at its pleasure. The board shall adopt rules of procedure for conducting its business.</p>	<p>[A] 112.1 General. In order to hear and decide appeals of orders, decisions or determinations made by the code official relative to the application and interpretation of this code, there shall be and is hereby created a board of appeals. The board of appeals shall be appointed by the <u>applicable</u> governing body <u>authority</u> and shall hold office at its pleasure. The board shall adopt rules of procedure for conducting its business <u>and shall render all decisions and findings in writing to the appellant with a duplicate copy to the code official.</u></p>	<p>[A] 112.1 Appeals General. In order to Except as provided below for mechanical and plumbing issues, the General Appeals Board, in accordance with the provisions of the <i>Building Code</i>, shall hear and decide appeals of orders, decisions, or determinations made by the code building official relative to the application and interpretation of this code. there shall be and is hereby created a board of appeals. The board of appeals shall be appointed by the applicable governing body and shall hold office at its pleasure. The board shall adopt rules of procedure for conducting its business and shall render all decisions and findings in writing to the appellant with a duplicate copy to the code official.</p>	<p>Edits made to clarify code, no major change to code No change to Houston amendment.</p>
<p>[A] 112.2 Mechanical. The Mechanical Code Review Board, in accordance with the provisions of the <i>Mechanical Code</i>, shall hear and decide appeals of orders, decisions or determinations made by the <i>building official</i> relative to the application and interpretation of mechanical installations and repair associated with this code. Limitations on authority. An application for appeal shall be based on a claim that the true intent of this code or the rules legally adopted thereunder</p>	<p>[A] 112.2 Limitations on authority. An application for appeal shall be based on a claim that the true intent of this code or the rules legally adopted thereunder have been incorrectly interpreted, the provisions of this code do not fully apply, or an <u>equally good equivalent</u> or better form of construction is proposed. The board shall not have authority to waive requirements <u>of this code or interpret the administration</u> of this code.</p>	<p>[A] 112.2 Mechanical. The Mechanical Code Review Board, in accordance with the provisions of the <i>Mechanical Code</i>, shall hear and decide appeals of orders, decisions or determinations made by the <i>building official</i> relative to the application and interpretation of mechanical installations and repair associated with this code. Limitations on authority. An application for appeal shall be based on a claim that the true intent of this code</p>	<p>Edits made to clarify code, no major change to code No change to Houston amendment.</p>

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<p>have been incorrectly interpreted, the provisions of this code do not fully apply, or an equally good or better form of construction is proposed. The board shall not have authority to waive requirements of this code.</p>		<p>or the rules legally adopted thereunder have been incorrectly interpreted, the provisions of this code do not fully apply or an equivalent or better form of construction is proposed. The board shall not have authority to waive requirements of this code or interpret the administration of this code.</p>	
<p>[A] 112.3 Plumbing. The Plumbing Code Review Board, in accordance with the provisions of the <i>Plumbing Code</i>, shall hear and decide appeals of orders, decisions or determinations made by the <i>building official</i> relative to the application and interpretation of fuel gas and plumbing associated with this code. Qualifications. The board of appeals shall consist of members who are qualified by experience and training to pass on matters pertaining to building construction and are not employees of the jurisdiction.</p>		<p>[A] 112.3 Plumbing. The Plumbing Code Review Board, in accordance with the provisions of the <i>Plumbing Code</i>, shall hear and decide appeals of orders, decisions or determinations made by the <i>building official</i> relative to the application and interpretation of fuel gas and plumbing associated with this code. Qualifications. The board of appeals shall consist of members who are qualified by experience and training to pass on matters pertaining to building construction and are not employees of the jurisdiction.</p>	<p>No change to Houston amendment.</p>
	<p>[A] 112.4 Administration. The code official shall take immediate action in accordance with the decision of the board.</p>	<p>[A] 112.4 Fire. The Fire Code Board of Appeals, in accordance with the provisions of the Fire Code, shall hear and decide appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of fire code related installations and repair associated with this code.</p>	<p>New amendment to reference Fire Code Board of Appeals.</p>
		<p>112.5 Administration. The code building official shall take immediate action in accordance with the a decision of any of the above referenced boards.</p>	<p>New amendment to reference action taken once any of the above referenced boards has passed a decision.</p>
		<p>SECTION 113 VIOLATIONS</p>	
<p>[A] 113.1 Unlawful acts. It shall be unlawful for any person, firm, or corporation to <i>repair</i>, alter, extend, add, move, remove, demolish, or change the occupancy of any building or equipment regulated by this code or cause same to be done in conflict with or in violation of any of the provisions of this code.</p> <p>Where no specific penalty is otherwise provided in this code, the violation of any provision of this code shall constitute a misdemeanor punishable upon conviction by a fine of not less than \$500.00 nor more than \$2,000.00. Each day that any violation continues shall constitute and be punishable as a separate offense. Where any such conduct constitutes a violation of state penal law, the offense shall be punishable as provided in the applicable state law. In prosecutions under this code, the various provisions hereof that are designated as an "exception" or "exceptions" shall not be treated as exceptions within the meaning of Section 2.02 of the <i>Texas Penal Code</i>, and, instead, they shall constitute defenses to prosecution within the meaning of Section 2.03 of the <i>Texas Penal Code</i>.</p>			<p>Amendment moved to Section 113.4.</p>

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<p>[A] 113.4 Violation penalties. Any person who violates a provision of this code or fails to comply with any of the requirements thereof or who <i>repairs</i> or alters or changes the occupancy of a building or structure in violation of the approved construction documents or directive of the code <i>building official</i> or of a permit or certificate issued under the provisions of this code shall be subject to penalties as prescribed by law in Section 113.1.</p>		<p>[A] 113.4 Violation penalties. General penalty; continuing violations. Any person who violates a provision of this code or fails to comply with any of the its requirements thereof or who <i>repairs</i> or alters or changes the occupancy of a building or structure in violation of the approved construction documents, or directive of the code <i>building official</i> or of a permit or certificate issued under the provisions of this code shall be subject to penalties as prescribed by law in Section 113.1.</p> <p><u>Where no specific penalty is otherwise provided in this code, the violation of any provision of this code shall constitute a misdemeanor punishable upon conviction by a fine of not less than \$500.00 nor more than \$2,000.00. Each day that any violation continues shall constitute and be punishable as a separate offense. Where any such conduct constitutes a violation of state penal law, the offense shall be punishable as provided in the applicable state law. In prosecutions under this code, the various provisions hereof that are designated as an "exception" or "exceptions" shall not be treated as exceptions within the meaning of Section 2.02 of the <i>Texas Penal Code</i>, and, instead, they shall constitute defenses to prosecution within the meaning of Section 2.03 of the <i>Texas Penal Code</i>.</u></p>	<p>Amendment brought from Section 113.1 and includes minor changes.</p>
	<p>SECTION 114 STOP WORK ORDER</p>	<p>SECTION 114 STOP WORK ORDER</p>	
<p>[A] 114.2 Issuance. The stop work order shall be in writing and shall be given to the owner of the property involved, the owner's authorized agent or to the person doing the work. Upon issuance of a stop work order, the cited work shall immediately cease. The stop work order shall state the reason for the order and the conditions under which the cited work will be permitted to resume.</p> <p><u>At issuance of a stop work order, the person performing the work and the permit holder shall be given notice of a right to a hearing on the matter by the <i>building official</i>, who shall deliver the notice to the persons performing the work, if present at the site, or otherwise conspicuously post the notice at the site. Upon request from the property owner, the owner's authorized agent or the person doing the work, a hearing shall be held within three business days of receiving the stop work order, unless the permit holder or person who was doing the work requests an extension of time. Any stop work order that has been issued shall remain in effect pending any hearing that has been requested unless the <i>building official</i> withdraws the stop work order.</u></p>	<p>[A] 114.2 Issuance. The stop work order shall be in writing and shall be given to the owner of the involved <i>property</i>, the owner's authorized agent or to the person doing <i>performing</i> the work. Upon issuance of a stop work order, the cited work shall immediately cease. The stop work order shall state the reason for the order and the conditions under which the cited work will be permitted <i>is authorized</i> to resume.</p>	<p>[A] 114.2 Issuance. The stop work order shall be in writing and shall be given to the owner of the property involved, the owner's authorized agent or the person performing the work. Upon issuance of a stop work order, the cited work shall immediately cease. The stop work order shall state the reason for the order and the conditions under which the cited work is authorized to resume.</p> <p><u>On issuance of a stop work order, the person performing the work and the permit holder shall be given notice of a right to a hearing on the matter by the <i>building official</i> in accordance with Section 117 of the Building Code, who shall deliver the notice to the persons performing the work, if present at the site, or otherwise conspicuously post the notice at the site. Upon request from the property owner, the owner's authorized agent, or the person doing the work, a hearing shall be held within three business days of receiving the stop work order, unless the permit holder or person who was doing the work requests an extension of time. Any stop work order that has been issued shall remain in effect pending any hearing that has been requested unless the <i>building official</i> withdraws the stop work order.</u></p>	<p>Edits made to clarify code, no major change to code No change to Houston amendment. Includes minor update to reference Houston Building Code Section 117 for stop work orders.</p>

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	[A] 114.3 Emergencies. Where an emergency exists, the code official shall not be required to give a written notice prior to stopping the work.		Edits made to clarify code, no major change to code
	[A] 114.3 Unlawful continuance 114.4. Failure to comply. Any person who shall continue any work after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be subject to penalties as prescribed by law fin established by the authority having jurisdiction.		Edits made to clarify code, no major change to code
	SECTION 115 UNSAFE BUILDINGS STRUCTURES AND EQUIPMENT	SECTION 115 UNSAFE STRUCTURES AND EQUIPMENT	Edits made to clarify code, no major change to code
<p>115.1 Conditions. Buildings, structures or equipment that are or hereafter become unsafe, shall be taken down, removed or made safe as the code official deems necessary and as provided for in this code. Unsafe buildings or structures. All buildings or structures regulated by this code that are structurally inadequate or unsafe, or not provided with adequate egress, or that constitute a fire hazard, or are otherwise dangerous to human life are, for the purposes of this section, unsafe buildings or structures. Any use of buildings or structures constituting a hazard to safety, health, or public welfare by reason of inadequate maintenance, dilapidation, obsolescence, fire hazard, disaster, damage, or abandonment is, for the purposes of this section, an unsafe use. Parapet walls, cornices, spires, towers, tanks, statuary and other appendages or structural members that are supported by, attached to, or a part of a building and that are in deteriorated condition or otherwise unable to sustain the design loads that are specified in this code are hereby designated as unsafe building appendages. All such unsafe buildings, structures or appendages shall be abated, repaired, rehabilitated, demolished, or removed in accordance with the procedures set forth in the <i>Property Maintenance Code</i> and Chapter 10, Articles VIII and X of the <i>City Code</i>.</p> <p>In matters of fire safety design and construction, including, but not limited to, egress (corridors, exit numbers, stairs, fire escapes and fire escape signs), wall and ceiling finish, enclosure of vertical shafts, basement access, standpipes and occupancy separation, a building shall not be deemed to be a fire hazard if it is in compliance with the most restrictive of:</p> <ol style="list-style-type: none"> The provisions of the Appendix D (Life-Safety Requirements for Existing Buildings) of this code, if applicable; The building code that was applicable when 	<p>[A] 115.1 Unsafe conditions. Conditions Buildings Structures Structures or existing equipment that are or hereafter become unsafe, insanitary or deficient because of inadequate means of egress facilities, inadequate light and ventilation, or that constitute a fire hazard, or are otherwise dangerous to human life or the public welfare, or that involve illegal or improper occupancy or inadequate maintenance, shall be deemed an unsafe condition. Unsafe structures shall be taken down and removed or made safe as the code official deems necessary and as provided for in this code. A vacant structure that is not secured against authorized entry shall be deemed unsafe.</p>	<p>[A] 115.1 Unsafe conditions. Structures or existing equipment that are or hereafter become unsafe, insanitary or deficient because of inadequate means of egress facilities, inadequate light and ventilation, or that constitute a fire hazard, or are otherwise dangerous to human life or the public welfare, or that involve illegal or improper occupancy or inadequate maintenance, shall be deemed an unsafe condition. Unsafe structures shall be taken down and removed or made safe as the code official deems necessary and as provided for in this code. A vacant structure that is not secured against unauthorized entry shall be deemed unsafe. Unsafe buildings or structures. All buildings or structures regulated by this code that are structurally inadequate or unsafe, do not have adequate egress, that constitute a fire hazard, or are otherwise dangerous to human life are, for the purposes of this section, unsafe buildings or structures. Any use of buildings or structures constituting a hazard to safety, health, or public welfare by reason of inadequate maintenance, dilapidation, obsolescence, fire hazard, disaster, damage, or abandonment is, for the purposes of this section, an unsafe use. Parapet walls, cornices, spires, towers, tanks, statuary and other appendages or structural members that are supported by, attached to, or a part of a building and that are in deteriorated condition or otherwise unable to sustain the design loads that are specified in this code are hereby designated as unsafe building appendages.</p> <p>All such unsafe buildings, structures or appendages shall be abated, repaired, rehabilitated, demolished, or removed in accordance with the procedures set forth in Chapter 10, Articles VIII and X of the <i>City Code</i>.</p> <p>In matters of fire safety design and construction, including, but not limited to, egress (corridors, exit numbers, stairs, fire escapes and fire escape signs), wall and ceiling finish, enclosure of vertical shafts, basement access, standpipes and occupancy separation, a building shall not be deemed to be a fire hazard if it is in compliance with the most restrictive of:</p>	<p>Edits made to clarify code, no major change to code</p> <p>No change to Houston amendment.</p>

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<p>the building was constructed; or</p> <p>3. <u>If the occupancy classification of the building or a portion thereof has changed since it was constructed, then the applicable building code that was in effect when the occupancy classification was changed.</u></p> <p><u>Any building not situated within the jurisdiction at the time of its construction or change of occupancy classification shall be governed by the design and construction code and related laws applicable in the jurisdiction in which it was constructed at the time of its construction or change of occupancy and by the provisions of Appendix D (Life-Safety Requirements for Existing Buildings) of the this code. To the extent of any conflict among the requirements of any applicable codes, the most restrictive will apply. However, compliance with the aforesaid provisions shall not be deemed to excuse life-threatening defects of maintenance, sanitation, repair of casualty damage, security from unauthorized entry, structural stability, electrical systems, gas systems, plumbing systems, heating or cooling systems or other building systems.</u></p> <p><u>Exception: For a building under construction or contract at the time of its annexation by the jurisdiction, see the Annexation Ordinance (Ordinance No. 78-2672), a copy of which is published in the preamble of this volume.</u></p>		<p>1. <u>The provisions of Appendix D (Life-Safety Requirements for Existing Buildings) of this code, if applicable;</u></p> <p>2. <u>The building code that was applicable when the building was constructed; or</u></p> <p>3. <u>If the occupancy classification of the building or a portion thereof has changed since it was constructed, then the applicable building code that was in effect when the occupancy classification was changed.</u></p> <p><u>Any building not situated within the jurisdiction at the time of its construction or change of occupancy classification shall be governed by the design and construction code and related laws applicable in the jurisdiction in which it was constructed at the time of its construction or change of occupancy and by the provisions of Appendix D (Life-Safety Requirements for Existing Buildings) of this code. To the extent of any conflict among the requirements of any applicable codes, the most restrictive will apply. However, compliance with the aforesaid provisions shall not be deemed to excuse life-threatening defects of maintenance, sanitation, repair of casualty damage, security from unauthorized entry, structural stability, electrical systems, gas systems, plumbing systems, heating or cooling systems or other building systems.</u></p> <p><u>Exception: For a building under construction or contract at the time of its annexation by the jurisdiction shall be subject to the provisions of state law.</u></p>	
<p>[A] 115.2 Record. The code official shall cause a report to be filed on an unsafe condition. The report shall state the occupancy of the structure and the nature of the unsafe condition.</p>		<p>[A] 115.2 Record. The code official shall cause a report to be filed on an unsafe condition. The report shall state the occupancy of the structure and the nature of the unsafe condition.</p>	<p>No change to Houston amendment.</p>
<p>[A] 115.3 Notice. If an unsafe condition is found, the code official shall serve on the owner, the owner's authorized agent or person in control of the structure a written notice that describes the condition deemed unsafe and specifies the required repairs or improvements to be made to abate the unsafe condition, or that requires the unsafe building to be demolished within a stipulated time. Such notice shall require the person thus notified to declare immediately to the code official acceptance or rejection of the terms of the order.</p>	<p>[A] 115.3 Notice. If an unsafe condition is found, the code official shall serve on the owner of the structure or the owner's authorized agent or person in control of the structure a written notice that describes the condition deemed unsafe and specifies the required repairs or improvements to be made to abate the unsafe condition, or that requires the unsafe building to be demolished within a stipulated time. Such notice shall require the person thus notified to declare immediately to the code official acceptance or rejection of the terms of the order.</p>	<p>[A] 115.3 Notice. If an unsafe condition is found, the code official shall serve on the owner of the structure or the owner's authorized agent a written notice that describes the condition deemed unsafe and specifies the required repairs or improvements to be made to abate the unsafe condition, or that requires the unsafe building to be demolished within a stipulated time. Such notice shall require the person thus notified to declare immediately to the code official acceptance or rejection of the terms of the order.</p>	<p>Edits made to clarify code, no major change to code No change to Houston amendment.</p>

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<p>[A] 115.4 Method of service. Such notice shall be deemed properly served if a copy thereof is delivered to the owner or the owner's authorized agent personally; sent by certified or registered mail addressed to the owner or the owner's authorized agent at the last known address with the return receipt requested; or delivered in any other manner as prescribed by local law. If the certified or registered letter is returned showing that the letter was not delivered, a copy thereof shall be posted in a conspicuous place in or about the structure affected by such notice. Service of such notice in the foregoing manner upon the owner's authorized agent or upon the person responsible for the structure shall constitute service of notice upon the owner.</p>	<p>[A] 115.4 Method of service. Such notice shall be deemed properly served if where a copy thereof is served in accordance with one of the following methods:</p> <ol style="list-style-type: none"> 1. A copy is delivered to the owner or the owner's authorized agent personally. 2. A copy is sent by certified or registered mail addressed to the owner or the owner's authorized agent at the last known address with the return receipt requested or delivered. 3. A copy is delivered in any other manner as prescribed by local law. <p>If the certified or registered letter is returned showing that the letter was not delivered, a copy thereof shall be posted in a conspicuous place in or about the structure affected by such notice. Service of such notice in the foregoing manner on the owner's authorized agent or on the person responsible for the structure shall constitute service of notice on the owner.</p>	<p>[A] 115.4 Method of service. Such notice shall be deemed properly served where a copy thereof is served in accordance with one of the following methods:</p> <ol style="list-style-type: none"> 1. A copy is delivered to the owner or the owner's authorized agent personally. 2. A copy is sent by certified or registered mail addressed to the owner at the last known address with the return receipt requested. 3. A copy is delivered in any other manner as prescribed by local law. <p>If the certified or registered letter is returned showing that the letter was not delivered, a copy thereof shall be posted in a conspicuous place in or about the structure affected by such notice. Service of such notice in the foregoing manner on the owner's authorized agent shall constitute service of notice upon the owner.</p>	<p>Edits made to clarify code, no major change to code No change to Houston amendment.</p>
<p>[A] 115.5 Restoration. The building or equipment determined to be unsafe by the code official is permitted to be restored to a safe condition. To the extent that repairs, alterations, or additions are made or a change of occupancy occurs during the restoration of the building, such repairs, alterations, additions, or change of occupancy shall comply with the requirements of this code.</p>	<p>[A] 115.5 Restoration or abatement.</p> <p>The building structure or equipment determined to be unsafe by the code official is permitted to be restored to a safe condition. The owner, the owner's authorized agent, operator or occupant of a structure, premises or equipment deemed unsafe by the code official shall abate or cause to be abated or corrected such unsafe conditions either by repair, rehabilitation, demolition or other approved corrective action. To the extent that repairs, alterations, or additions are made, or a change of occupancy occurs during the restoration of the building structure, such repairs, alterations, additions or change of occupancy shall comply with the requirements of this code.</p>	<p>[A] 115.5 Restoration. The structure or equipment determined to be unsafe by the code official is permitted to be restored to a safe condition. The owner, the owner's authorized agent, operator or occupant of a structure, premises or equipment deemed unsafe by the code official shall abate or cause to be abated or corrected such unsafe conditions either by repair, rehabilitation, demolition or other approved corrective action. To the extent that repairs, alterations, or additions are made, or a change of occupancy occurs during the restoration of the structure, such repairs, alterations, additions, or change of occupancy shall comply with the requirements of this code.</p>	<p>Edits made to clarify code, no major change to code No change to Houston amendment.</p>
<p>SECTION 118 PRIVATE PLAN REVIEW AND INSPECTION SERVICES</p> <p>118.1 Private plan review and inspection services shall be allowed as specified in Sections 119 of the <i>Building Code</i> and Section 115 of the <i>Residential Code</i>.</p>		<p>SECTION 118 PRIVATE PLAN REVIEW AND INSPECTION SERVICES</p> <p>118.1 General. Private plan review and inspection services shall be allowed as specified in Sections 119 of the <i>Building Code</i>, Section 115 of the <i>Residential Code</i>, and as required by state law.</p>	<p>No change to Houston amendment.</p>

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<p>201.3 Specific construction and Terms defined in other codes. Where <u>specific rules of construction or terms</u> are not addressed or defined in this code and are addressed or defined in the <u>City Code</u> or another volume of the other International Construction Codes, such terms or specific constructions herein shall have the meanings ascribed to them in those codes other volumes, as applicable to the construction and proposed scope of work hereunder.</p>		<p style="text-align: center;">SECTION 201 GENERAL</p> <p>201.3 Rules of construction and Terms defined in other codes. Where <u>rules of construction or terms</u> are not addressed or defined in this code and are addressed or defined in the <u>City Code</u> or another volume of the other International Construction Codes, such terms or constructions shall have the meanings ascribed to them in those codes other volumes, as applicable to the construction and proposed scope of work hereunder.</p>	No change to Houston amendment.
<p style="text-align: center;">SECTION 202 GENERAL DEFINITIONS</p> <p>[EDITORIAL NOTE: ALL PORTIONS OF SECTION 202 NOT SHOWN REMAIN AS SET FORTH IN THE 2015 IEBC.]</p>		<p style="text-align: center;">SECTION 202 GENERAL DEFINITIONS</p> <p>[EDITORIAL NOTE: ALL PORTIONS OF SECTION 202 NOT SHOWN REMAIN AS SET FORTH IN THE 2021 IEBC.]</p>	No change to Houston amendment.
<p>[A] ALTERATION. Any construction or renovation to an existing structure other than a <u>repair or addition</u>. Also, a change to an existing building, or an electrical, gas, mechanical or plumbing system that involves an extension, addition or change to the arrangement, type or purpose of the original installation that requires a permit. Alterations are classified as Level 1, Level 2 and Level 3 <u>in this code</u>.</p>	<p>[A] ALTERATION. Any construction or renovation to an existing structure other than a repair or addition. Alterations are classified as Level 1, Level 2 and Level 3.</p>	<p>[A] ALTERATION. Any construction or renovation to an <u>existing structure</u> other than a <u>repair or addition</u>. Also, a change to an existing building, or an electrical, gas, mechanical or plumbing system that involves an extension, addition or change to the arrangement, type or purpose of the original installation that <u>requires a permit</u>. Alterations are classified as Level 1, Level 2 and Level 3 <u>in this code</u>.</p>	Edits made to clarify code, no major change to code No change to Houston amendment.
<p><u>AUTHORITY HAVING JURISDICTION.</u> The director of Houston Public Works. This definition shall include the authority having jurisdiction's duly authorized representative.</p>		<p><u>AUTHORITY HAVING JURISDICTION.</u> The City of Houston, Texas. The definition shall include the director of Houston Public Works as the <u>jurisdiction's</u> duly authorized representative.</p>	Minor wordsmithing changes to amendment, intent remains unchanged.
	<p>[A] BUILDING. Any structure utilized or intended for supporting or sheltering any occupancy.</p>		New definition

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<p>BUILDING CODE. <u>The City of Houston Building Code, as adopted and amended by this jurisdiction.</u></p> <p>BUILDING OFFICIAL. <u>The director of Houston Public Works or the duly authorized representative designated by the director to act as the chief construction code enforcement official of the jurisdiction; also known as chief building official. The term also includes the Houston Airport Systems building official who may be designated by the building official to perform Construction Code permitting and enforcement activities on Houston Airport Systems premises.</u></p>		<p>BUILDING CODE. <u>The City of Houston Building Code, as adopted and amended by this jurisdiction.</u></p> <p>BUILDING OFFICIAL. <u>The director of Houston Public Works or the duly authorized representative designated by the director to act as the chief construction code enforcement official of the jurisdiction. The term also includes the Houston Airport Systems building official who may be designated by the building official to perform Construction Code permitting and enforcement activities on Houston Airport Systems premises.</u></p>	<p>No change to Houston amendment.</p>
	<p>[A] CHANGE OF OCCUPANCY. A change in the use of a building or a portion of a building that results in any of the following: Any of the following shall be considered as a change of occupancy where the current International Building Code requires a greater degree of safety, accessibility, structural strength, fire protection, means of egress, ventilation or sanitation than is existing in the current building or structure:</p> <ol style="list-style-type: none"> 1. A change of occupancy classification Any change in the occupancy classification of a building or structure. 2. A change from one group to another group within an occupancy classification Any change in the purpose of, or a change in the level of activity within, a building or structure. 3. Any change in use within a group for which there is a change in application of the requirements of this code A change of use. 		<p>Edits made to clarify code, no major change to code</p>
	<p>[A] CHANGE OF USE. A change in the use of a building or a portion of a building, within the same group classification, for which there is a change in application of the code requirements.</p>		<p>New definition for change of use.</p>
<p>CERTIFICATE OF COMPLIANCE. <u>A certificate stating that materials and products meet specified standards or that the scope of work under a specific permit was done in compliance with approved construction documents. Any reference in the Construction Code to a "CC", certificate of completion, or a certificate of inspection issued by this jurisdiction, is a reference to a certificate of compliance as defined herein.</u></p> <p>CITY CODE. <u>The Code of Ordinances, City of Houston, Texas.</u></p> <p>CITY FEE SCHEDULE. <u>The schedule of fees charged by the city for various permits, licenses, authorizations and services, which is maintained on the city's website.</u></p> <p>[A] CODE OFFICIAL. <u>The officer or other designated authority charged with the administration and enforcement of</u></p>		<p>CERTIFICATE OF COMPLIANCE. <u>A certificate stating that materials and products meet specified standards or that the scope of work under a specific permit was done in compliance with approved construction documents. Any reference in the Construction Code to a "CC", certificate of completion, or a certificate of inspection issued by this jurisdiction, is a reference to a certificate of compliance as defined herein.</u></p> <p>CITY CODE. <u>The Code of Ordinances, City of Houston, Texas.</u></p> <p>CITY FEE SCHEDULE. <u>The schedule of fees charged by the city for various permits, licenses, authorizations and services, which is maintained on the city's website.</u></p> <p>[A] CODE OFFICIAL. <u>The officer or other designated authority charged with the administration and enforcement of this code. The Houston Fire Department and Building Code Enforcement employees, including but not limited to, plan</u></p>	<p>No change to Houston amendment.</p>

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<p>this code.</p> <p>CODE OFFICIAL. The Houston Fire Department and Building Code Enforcement employees, including but not limited to, plan analysts, field inspectors, and other technical staff charged with the administration and enforcement of this code as specifically delegated by the <i>authority having jurisdiction</i>. The <i>code official</i> is authorized to approve designs, construction, equipment, materials, installations, processes, procedures, practices, and other duties necessary to verify and document compliance with the <i>Houston Construction Code</i>, the <i>Houston Fire Code</i>, Ordinances, and other laws and policies as specifically delegated by the <i>chief building official</i>, <i>fire chief</i>, and the <i>authority having jurisdiction</i>.</p> <p>CONSTRUCTION CODE. Has the meaning ascribed in Section 1-2 of the <i>City Code</i>.</p>		<p>analysts, field inspectors, and other technical staff charged with the administration and enforcement of this code as specifically delegated by the <i>authority having jurisdiction</i>. The <i>code official</i> is authorized to approve designs, construction, equipment, materials, installations, processes, procedures, practices, and other duties necessary to verify and document compliance with the <i>Houston Construction Code</i>, the <i>Houston Fire Code</i>, Ordinances, and other laws and policies as specifically delegated by the <i>chief building official</i>, <i>fire chief</i>, and the <i>authority having jurisdiction</i>.</p> <p>CONSTRUCTION CODE. Has the meaning ascribed in Section 1-2 of the <i>City Code</i>.</p>	
	<p>[BS] DANGEROUS. Any building, structure or portion thereof that meets any of the conditions described below shall be deemed dangerous.</p> <ol style="list-style-type: none"> 1. The building or structure has collapsed, has partially collapsed, has moved off its foundation or lacks the necessary support of the ground. 2. There exists a significant risk of collapse, detachment or dislodgement of any portion, member, appurtenance or ornamentation of the building or structure under service loads permanent, routine or frequent loads, under actual loads already in effect, or under snow, wind, rain, flood, earthquake or other environmental loads when such loads are imminent. 		<p>Edits made to clarify code, no major change to code</p>
	<p>[BS] DISPROPORTIONATE EARTHQUAKE DAMAGE. A condition of earthquake-related damage where both of the following occur:</p> <ol style="list-style-type: none"> 1. The 0.3-second spectral acceleration at the building site as estimated by the United States Geological Survey for the earthquake in question is less than 40 percent of the mapped acceleration parameter SS. 2. The vertical elements of the lateral force-resisting system have suffered damage such that the lateral load-carrying capacity of any story in any horizontal direction has been reduced by more than 10 percent from its predamage condition. 		<p>New base code definition.</p>
<p>ELECTRICAL CODE. The <i>City of Houston Electrical Code</i>, as adopted and amended by this <i>jurisdiction</i>.</p> <p>EXISTING BUILDING CODE. The <i>City of Houston Existing Building Code</i>, as adopted and amended by this <i>jurisdiction</i>.</p>		<p>ELECTRICAL CODE. The <i>City of Houston Electrical Code</i>, as adopted and amended by this <i>jurisdiction</i>.</p> <p>EXISTING BUILDING CODE. The <i>City of Houston Existing Building Code</i>, as adopted and amended by this <i>jurisdiction</i>.</p>	<p>No change to Houston amendment.</p>

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	[BE] EMERGENCY ESCAPE AND RESCUE OPENING. An operable exterior window, door or other similar device that provides for a means of escape and access for rescue in the event of an emergency.		New base code definition.
	[BF] EXTERIOR WALL COVERING. A material or assembly of materials applied on the exterior side of exterior walls for the purpose of providing a weather-resisting barrier, insulation or for aesthetics, including but not limited to, veneers, siding, exterior insulation and finish systems, architectural trim and embellishments, such as cornices, soffits, facias, gutters and leaders.		New base code definition.
	[BE] EXTERIOR WALL ENVELOPE. A system or assembly of exterior wall components, including exterior wall finish materials, that provides protection of the building structural members, including framing and sheathing materials, and conditioned interior space from the detrimental effects of the exterior environment.		New base code definition.
	[A] EXISTING STRUCTURE. A structure erected prior to the date of adoption of the appropriate code, or one for which a legal building permit has been issued.		New base code definition.
FIRE CODE. The <i>City of Houston Fire Code</i> , as adopted and amended by this jurisdiction.		FIRE CODE. The <i>City of Houston Fire Code</i> , as adopted and amended by this jurisdiction.	No change to Houston amendment.
<p>INTERNATIONAL BUILDING CODE. Any reference herein to the <i>International Building Code</i> shall be construed as referring to the <i>City of Houston Building Code</i>, as adopted and amended by this jurisdiction.</p> <p>INTERNATIONAL ENERGY CONSERVATION CODE. Any reference herein to the <i>International Energy Conservation Code</i> shall be construed as referring to the <i>City of Houston Residential Energy Conservation Code</i> or the <i>City of Houston Commercial Energy Conservation Code</i>, both as adopted and amended by this jurisdiction.</p> <p>INTERNATIONAL EXISTING BUILDING CODE. Any reference herein to the <i>International Existing Building Code</i> shall be construed as referring to the <i>City of Houston Existing Building Code</i>, as adopted and amended by this jurisdiction.</p> <p>INTERNATIONAL FIRE CODE. Any reference herein to the <i>International Fire Code</i> shall be construed as referring to the <i>City of Houston Fire Code</i>, as adopted and amended by this jurisdiction.</p> <p>INTERNATIONAL FUEL GAS CODE. Any reference herein to the <i>International Fuel Gas Code</i> shall be construed as referring</p>		<p>INTERNATIONAL BUILDING CODE. The <i>City of Houston Building Code</i>, as adopted and amended by this jurisdiction.</p> <p>INTERNATIONAL ENERGY CONSERVATION CODE. The <i>City of Houston Residential Energy Conservation Code</i> or the <i>City of Houston Commercial Energy Conservation Code</i>, both as adopted and amended by this jurisdiction.</p> <p>INTERNATIONAL EXISTING BUILDING CODE. The <i>City of Houston Existing Building Code</i>, as adopted and amended by this jurisdiction.</p> <p>INTERNATIONAL FIRE CODE. The <i>City of Houston Fire Code</i>, as adopted and amended by this jurisdiction.</p> <p>INTERNATIONAL FUEL GAS CODE. The <i>City of Houston Plumbing Code</i>, as adopted and amended by this jurisdiction.</p> <p>INTERNATIONAL MECHANICAL CODE. The <i>City of Houston Mechanical Code</i>, as adopted and amended by this jurisdiction.</p> <p>INTERNATIONAL PLUMBING CODE. The <i>City of Houston Plumbing Code</i>, as adopted by this jurisdiction.</p> <p>INTERNATIONAL PROPERTY MAINTENANCE CODE. Any reference herein to the <i>International Property Maintenance Code</i> shall be construed as referring to Chapter 10, Article IX, of the</p>	No change to Houston amendment.

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<p>to the <i>City of Houston Plumbing Code</i>, as adopted and amended by this jurisdiction.</p> <p>INTERNATIONAL MECHANICAL CODE. Any reference herein to the <i>International Mechanical Code</i> shall be construed as referring to the <i>City of Houston Mechanical Code</i>, as adopted and amended by this jurisdiction.</p> <p>INTERNATIONAL PLUMBING CODE. Any reference herein to the <i>International Plumbing Code</i> shall be construed as referring to the <i>City of Houston Plumbing Code</i>, as adopted by this jurisdiction.</p> <p>INTERNATIONAL PROPERTY MAINTENANCE CODE. Any reference herein to the <i>International Property Maintenance Code</i> shall be construed as referring to Chapter 10, Article IX, of the <i>City Code</i>, which is also known as the <i>Houston Building Standards Code</i>.</p> <p>INTERNATIONAL RESIDENTIAL CODE. Any reference herein to the <i>International Residential Code</i> shall be construed as referring to the <i>City of Houston Residential Code</i>, as adopted and amended by this jurisdiction.</p>		<p><i>City Code</i>, which is also known as the <i>Houston Building Standards Code</i>.</p> <p>INTERNATIONAL RESIDENTIAL CODE. The <i>City of Houston Residential Code</i>, as adopted and amended by this jurisdiction.</p>	
	<p>LOAD-BEARING ELEMENT. Any column, girder, beam, joist, truss, rafter, wall, floor or roof sheathing that supports any vertical load in addition to its own weight or any lateral load.</p>		<p>Base code definition removed.</p>
<p>JURISDICTION. The governmental unit that has adopted this code under due legislative authority.</p>		<p>JURISDICTION. The City of Houston, Texas, the governmental unit that has adopted this code under its legislative authority.</p>	<p>No change to Houston amendment.</p>
<p>MECHANICAL CODE. The <i>City of Houston Mechanical Code</i>, as adopted and amended by this jurisdiction.</p>		<p>MECHANICAL CODE. The <i>City of Houston Mechanical Code</i>, as adopted and amended by this jurisdiction.</p>	<p>No change to Houston amendment.</p>
<p>ONE- AND TWO-FAMILY DWELLING. An individual free-standing structure containing not more than two <i>dwelling units</i>, also referred to as a <i>dwelling</i>, <i>duplex</i> or single-family dwelling depending on the number of <i>dwelling units</i> within.</p>		<p>ONE- AND TWO-FAMILY DWELLING. An individual free-standing structure containing not more than two <i>dwelling units</i>, also referred to as a <i>dwelling</i>, <i>duplex</i> or single-family dwelling depending on the number of <i>dwelling units</i> within.</p>	<p>No change to Houston amendment.</p>
<p>PLUMBING CODE. The <i>City of Houston Plumbing Code</i>, as adopted and amended by this jurisdiction.</p> <p>PROPERTY MAINTENANCE CODE. Chapter 10, Article IX, of the <i>City Code</i> relating to abatement of dangerous buildings, also known as the <i>Houston Building Standards Code</i>, as adopted and amended by this jurisdiction.</p>		<p>PLUMBING CODE. The <i>City of Houston Plumbing Code</i>, as adopted and amended by this jurisdiction.</p> <p>PROPERTY MAINTENANCE CODE. Chapter 10, Article IX, of the <i>City Code</i> relating to abatement of dangerous buildings, also known as the <i>Houston Building Standards Code</i>, as adopted and amended by this jurisdiction.</p>	<p>No change to Houston amendment.</p>

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	[A] REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. A registered design professional engaged by the owner or the owner's authorized agent to review and coordinate certain aspects of the project, as determined by the code official, for compatibility with the design of the building or structure, including submittal documents prepared by others, deferred submittal documents and phased submittal documents.		Edits made to clarify code, no major change to code
	[BS] REHABILITATION, SEISMIC. Work conducted to improve the seismic lateral force resistance of an existing building.		Base code definition removed.
[A] REPAIR. The reconstruction or renewal of any part of an <i>existing building</i> for the purpose of its maintenance or to correct damage <u>using like for like materials</u> . RESIDENTIAL CODE. The <i>City of Houston Residential Code</i> , as adopted and amended by this jurisdiction.	[A] REPAIR. The reconstruction, replacement or renewal of any part of an existing building for the purpose of its maintenance or to correct damage.	[A] REPAIR. The reconstruction, replacement or renewal of any part of an <i>existing building</i> for the purpose of its maintenance or to correct damage <u>using like for like materials</u> . RESIDENTIAL CODE. The <i>City of Houston Residential Code</i> , as adopted and amended by this <i>jurisdiction</i> .	Edits made to clarify code, no major change to code No change to Houston amendment.
TEXAS ACCESSIBILITY STANDARDS (TAS). The accessibility standards applicable to buildings and facilities constructed within the state of Texas as promulgated by the Texas Department of Licensing and Regulation pursuant to <i>Texas Government Code Chapter 469</i> .		TEXAS ACCESSIBILITY STANDARDS (TAS). The accessibility standards applicable to buildings and facilities constructed within the state of Texas as promulgated by the Texas Department of Licensing and Regulation pursuant to <i>Texas Government Code Chapter 469</i> .	No change to Houston amendment.
	[BS] RISK CATEGORY. A categorization of buildings and other structures for determination of flood, wind, snow, ice and earthquake loads based on the risk associated with unacceptable performance, as provided in Section 1604.5 of the International Building Code. [BS] ROOF COATING. A fluid-applied adhered coating used for roof maintenance, roof repair, or as a component of a roof covering system or roof assembly.		New base code definition.
	[BS] ROOF REPAIR. Reconstruction or renewal of any part of an existing roof for the purposes of its maintenance correcting damage or restoring the predamage condition . [BS] ROOF REPLACEMENT. The process of removing the existing roof covering, repairing any damaged substrate and installing a new roof covering. [BS] SEISMIC LOADING FORCES. The loads, forces and requirements prescribed herein, related to the response of the structure building to earthquake motions, to be used in the analysis and design of the structure and its components. Seismic forces are considered either full or reduced, as provided in Chapter 3.		Edits made to clarify code, no major change to code

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	<p>[BS] SUBSTANTIAL STRUCTURAL ALTERATION. An alteration in which the gravity load-carrying structural elements altered within a 5-year period support more than 30 percent of the total floor and roof area of the building or structure. The areas to be counted toward the 30 percent shall include mezzanines, penthouses, and in-filled courts and shafts tributary to the altered structural elements.</p>		New base code definition.
	<p>[BS] SUBSTANTIAL STRUCTURAL DAMAGE. A condition where one or both any of the following apply:</p> <p>1. In any story, The vertical elements of the lateral force-resisting system have suffered damage such that the lateral load-carrying capacity of the structure any story in any horizontal direction has been reduced by more than 33 percent from its predamage condition.</p> <p>2. The capacity of any vertical component carrying gravity load-carrying component, or any group of such components, that supports that has a tributary area more than 30 percent of the total area of the structure's floor(s) and roof(s) has been reduced more than 20 percent from its predamage condition and the remaining capacity of such affected elements, with respect to all dead and live loads, is less than 75 percent of that required by this the International Building code for new buildings of similar structure, purpose and location.</p> <p>3. The capacity of any structural component carrying snow load, or any group of such components, that supports more than 30 percent of the roof area of similar construction has been reduced more than 20 percent from its predamage condition, and the remaining capacity with respect to dead, live and snow loads is less than 75 percent of that required by the International Building Code for new buildings of similar structure, purpose and location.</p>		Edits made to clarify code, no major change to code

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	SECTION 301 ADMINISTRATION		
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	<p>301.1 General Applicability. The repair, alteration, change of occupancy, addition or relocation of all existing buildings shall comply with one of the methods listed in Sections 301.1.4 through 301.1.3 as selected by the applicant. Sections 301.1.4 through 301.1.3 shall not be applied in combination with each other. Where this code requires consideration of the seismic force-resisting system of an existing building subject to repair, alteration, change of occupancy, addition or relocation of existing buildings, the seismic evaluation and design shall be based on Section 301.1.4 regardless of which compliance method is used Section 301.2, 301.3 or 301.4. The provisions</p>		Edits made to clarify code, no major change to code
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	<p>of Sections 302 through 309 shall apply to all alterations, repairs, additions, relocation of structures and changes of occupancy regardless of compliance method.</p> <p>Exception: Subject to the approval of the code official, alterations complying with the laws in existence at the time the building or the affected portion of the building was built shall be considered in compliance with the provisions of this code unless the building is undergoing more than a limited structural alteration as defined in Section 907.4.4. New structural members added as part of the alteration shall comply with the International Building Code. Alterations of existing buildings in flood hazard areas shall comply with Section 701.3.</p>		
	<p>301.1.1 Bleachers, grandstands and folding and telescopic seating. Existing bleachers, grandstands and folding and telescopic seating shall comply with ICC 300.</p>		<p>New requirements for bleachers, grandstands and telescopic/folding seating to comply with ICC 300.</p>
<p>[BS] 301.1.4 Seismic evaluation and design procedures. The seismic evaluation and design shall be based on the procedures specified in Chapter 16 of the <i>International Building Code</i> or ASCE 41. The procedures contained in Appendix A of this code shall be permitted to be used as specified in Section 301.1.4.2.</p>			<p>Previous Houston amendment relocated to Section 304.3.</p>
	<p>301.2 Repairs. Repairs shall comply with the requirements of Chapter 4.</p>		<p>New base code language providing requirements for repairs.</p>
	<p>301.3 Alteration, addition or change of occupancy The alteration, addition or change of occupancy of all existing buildings shall comply with one of the methods listed in Section 301.3.1, 301.3.2 or 301.3.3 as selected by the applicant. Sections 301.3.1 through 301.3.3 shall not be applied in combination with each other.</p> <p>Exception: Subject to the approval of the code official, alterations complying with the laws in existence at the time the building or the affected portion of the building was built shall be considered in compliance with the provisions of this code. New structural members added as part of the alteration shall comply with the <i>International Building Code</i>. This exception shall not apply to the following: alterations that constitute</p> <ol style="list-style-type: none"> 1. Alterations for accessibility required by Section 306. 2. Alterations that constitute substantial improvement in flood hazard areas, which shall comply with Sections 503.2, 701.3 or 1301.3.3. 3. This exception shall not apply to the structural provisions of Section 304, Chapter 5 or to the structural provisions of Sections 706, 805 		<p>New base code language providing requirements for alterations, additions, or changes of occupancy.</p>

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	and 906.		
	301.4 Relocated buildings. Relocated buildings shall comply with the requirements of Chapter 14.		Edits made to clarify code, no major change to code
	301.5 Compliance with accessibility. Accessibility requirements for existing buildings shall comply with the 2009 edition of ICC A117.1.		Base code section removed.
	SECTION 302 GENERAL PROVISIONS	SECTION 302 GENERAL PROVISIONS	
	302.1 Applicability. The provisions of Section 302 apply to all alterations, repairs, additions, relocations of structures and changes of occupancy regardless of compliance method		Base code section removed.
	302.1 Dangerous conditions.		Base code renumbering.
	302.2 Additional codes. 302.2 Dangerous conditions. The code official shall have the authority to require the elimination of conditions deemed dangerous.		Base code renumbering. Authority given to code official for dangerous conditions.
	302.2.1 Additional codes in health care. In existing Group I-2 occupancies, ambulatory health care facilities, outpatient clinics and hyperbaric facilities, alterations, repairs, additions and changes of occupancy to, or relocation of, existing buildings and structures shall also comply with NFPA 99.		New requirement for health care referencing NFPA 99
	302.4 302.3 Existing materials. Materials already in use in a building in compliance with requirements of 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.		Base code renumbering. Edits made to clarify code, no major change to code.
	302.5 302.4 New and replacement materials. [BS] 302.5.1 New structural members and connections. New structural members and connections shall comply with the detailing provisions of the International Building Code for new buildings of similar structure, purpose and location. Exception: Where alternative design criteria are specifically permitted.		Base code renumbering. New requirement for structural members.
	302.5.1 [BS] 302.4.1 New structural members and connections.		Base code renumbering.

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	302.6 302.5 Occupancy and use.		Base code renumbering.
<u>302.6 Airport sound attenuation. All alterations, repairs, additions, relocations of structures and changes of occupancy shall comply with appropriate provisions of the <i>Construction Code</i> and Chapter 9, Article VI, of the <i>City Code</i> to achieve an interior sound level of 45 dBA for the scope of work proposed.</u>		302.6 Airport sound attenuation. Where an airport land use permit is required, all alterations, repairs, additions, relocations of structures and changes of occupancy shall comply with appropriate provisions of the <i>Construction Code</i> and Chapter 9, Article VI, of the <i>City Code</i> to achieve an interior sound level of 45 dBA for the scope of work proposed.	Minor wordsmithing change to reference appropriate permit; no change to intent of section.
<u>302.7 Lake Houston structures. All alterations, repairs, additions, relocations of structures and changes of occupancy shall comply with appropriate provisions of the <i>Construction Code</i>, Chapter 62 of the <i>Building Code</i>, and Chapter 23 of the <i>City Code</i> for the scope of work proposed.</u>		302.7 Lake Houston structures. Where a Lake Houston Permit is required, all alterations, repairs, additions, relocations of structures and changes of occupancy shall comply with appropriate provisions of the <i>Construction Code</i> , Chapter 62 of the <i>Building Code</i> , and Chapter 23 of the <i>City Code</i> for the scope of work proposed.	Minor wordsmithing change to reference appropriate permit; no change to intent of section.
	SECTION 303 STRUCTURAL DESIGN LOADS AND EVALUATION AND DESIGN PROCEDURES		
	[BS] 303.1 Live loads. Where an addition or alteration does not result in increased design live load, existing gravity loadcarrying structural elements shall be permitted to be evaluated and designed for live loads approved prior to the addition or alteration. If the approved live load is less than that required by Section 1607 of the International Building Code, the area designated for the nonconforming live load shall be posted with placards of approved design indicating the approved live load. Where the addition or alteration results in increased design live load, the live load required by Section 1607 of the International Building Code shall be used.		
	[BS] 303.2 Snow loads on adjacent buildings. Where an alteration or addition changes the potential snow drift effects on an adjacent building, the code official is authorized to enforce Section 7.12 of ASCE 7.		
	SECTION 303 STORM SHELTERS		
	303.1 Storm shelters. This section applies to the construction of storm shelters constructed as rooms or spaces within <i>existing buildings</i> for the purpose of providing protection during storms that produce high winds, such as tornados and hurricanes. Such structures shall be designated to be hurricane shelters, tornado shelters, or combined hurricane and tornado shelters. Such structures shall be constructed in accordance with this code and ICC 500.		New requirements for storm shelters.
			New requirement for storm shelters.

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	<p>4106.4 303.2 Addition to a Group E occupancy. Where an <u>addition</u> is added to an existing Group E occupancy located in an area where the shelter design wind speed for tornados is 250 mph (402.3 km/h) in accordance with Figure 304.2(1) of ICC 500 and the occupant load in the <u>addition</u> is 50 or more, the <u>addition</u> shall have a storm shelter constructed in accordance with ICC 500.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> Group E day care facilities. Group E occupancies accessory to places of religious worship. Additions meeting the requirements for shelter design in ICC 500. 		New requirement for storm shelters in group E occupancies with new exceptions.
	<p>4106.4.1 303.2.1 Required occupant capacity. The required occupant capacity of the storm shelter shall include all buildings on the site, and shall be the greater of the following:</p> <ol style="list-style-type: none"> The total occupant load of the classrooms, vocational rooms and offices in the Group E occupancy. The occupant load of any indoor assembly space that is associated with the Group E occupancy. 		Occupancy requirements in storm shelters.
	<p>Exceptions:</p> <ol style="list-style-type: none"> Where an <u>addition</u> is being added on an existing Group E site, and where the <u>addition</u> is not of sufficient size to accommodate the required occupant capacity of the storm shelter for all of the buildings on-site, the storm shelter shall at a minimum accommodate the required capacity for the addition. Where <u>approved</u> by the <u>code official</u>, the required occupant capacity of the shelter shall be permitted to be reduced by the occupant capacity of any existing storm shelters on the site. 		New exceptions for Section 303.2.1. for storm shelters in group E.
	<p>303.2.2 Occupancy classification. The occupancy classification for storm shelters shall be determined in accordance with Section 423.3 of the <i>International Building Code</i>.</p>		Occupancy classification requirement for storm shelters
	<p>SECTION 303 304 STRUCTURAL DESIGN LOAD AND EVALUATION AND DESIGN PROCEDURES</p>	<p>SECTION 304 STRUCTURAL DESIGN LOADS AND EVALUATION AND DESIGN PROCEDURES</p>	Base code renumbering.
	<p>[BS] 303.4 304.1 Live loads.</p>		Base code renumbering.
	<p>[BS] 303.2 304.2 Snow loads on adjacent buildings</p>		Base code renumbering.
	<p>[BS] 303.3 304.3 Seismic evaluation and design procedures.</p>	<p>[BS] 304.3 Seismic evaluation and design procedures. Where required, seismic evaluation and design shall be based on the <i>Building Code</i> procedures and criteria in this section, regardless of which compliance method is used.</p>	<p>Base code renumbering. Houston amendment relocated from Section 301.1.4. No change to Houston amendment.</p>

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		<u>EDITORIAL NOTE: THE REMAINDER OF THIS SECTION IS NOT ADOPTED BY THIS JURISDICTION.</u>	
	[BS]303.3.4 304.3.1 Compliance with full seismic forces.		Base code renumbering.
	[BS] TABLE 303.3.4 304.3.1 PERFORMANCE OBJECTIVES FOR USE IN ASCE 41 FOR COMPLIANCE WITH FULL SEISMIC FORCES.		Base code renumbering.
	[BS] 303.3.2 304.3.2 Compliance with reduced seismic forces.		Base code renumbering.
	[BS] TABLE 303.3.2 304.3.2 PERFORMANCE OBJECTIVES FOR USE IN ASCE 41 FOR COMPLIANCE WITH REDUCED SEISMIC FORCES.		Base code renumbering.
	SECTION 304 305 IN-SITU LOAD TESTS		
	[BS] 304.1 General. Where used, in-situ load tests shall be conducted in accordance with Section 1708 of the International Building Code.		Base code renumbering. New requirements for in-situ load testing.
	SECTION 305 306 ACCESSIBILITY FOR EXISTING BUILDINGS	SECTION 306 ACCESSIBILITY FOR EXISTING BUILDINGS	Base code renumbering, accessibility requirements relocated.
	306.2 Design. Buildings and facilities shall be designed and constructed to be accessible in accordance with this code and the alteration and existing building provisions in ICC A117.1, as applicable.		New requirements for accessibility.
	305.2 306.3 Maintenance and repair of facilities. A facility that is constructed or altered to be accessible shall be maintained accessible during occupancy. Required accessible means of egress shall be maintained during construction, demolition, remodeling, or alterations and additions to any occupied building. Exception: Existing means of egress need not be maintained where approved temporary means of egress and accessible means of egress systems and facilities are provided.		Edits made to clarify code and require accessible means of egress during construction demo or remodeling.
	306.3.1 Prohibited reduction in accessibility. An alteration that decreases or has the effect of decreasing accessibility of a building, facility or element, thereof, below the requirements for new construction at the time of the alteration is prohibited. The number of accessible elements need not exceed that required for new construction at the time of alteration.		New accessibility requirement for alterations that decrease accessibility.

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	<p>305.3. 306.4 Extent of application. An <i>alteration</i> of an existing <i>facility</i> shall not impose a requirement for greater accessibility than that which would be required for new construction.</p>		Base code renumbering, minor wordsmithing changes.
	<p>305.4 306.5 Change of occupancy. Existing buildings that undergo a change of group shall comply with this section Section 306.7.</p> <p>Exception: Type B dwelling or sleeping units required by Section 1108 of the <i>International Building Code</i> are not required to be provided in existing <i>buildings and facilities</i> undergoing a <i>change of occupancy</i> in conjunction with <i>alterations</i> where the work area is 50 percent or less of the aggregate area of the building.</p>		Base code renumbering.
	<p>305.5 306.6 Additions.</p>		Base code renumbering.
	<p>305.6 306.7 Alterations. A facility that is altered shall comply with the applicable provisions in Chapter 11 of the International Building Code, ICC A117.1 and the provisions of Sections 306.7.1 through 306.7.16, unless technically infeasible. Where compliance with this section is technically infeasible, the alteration shall provide access to the maximum extent technically feasible.</p> <p>Exceptions:</p> <p>1. The altered element or space is not required to be on an accessible route, unless required by Section.</p> <p>2. Accessible means of egress required by Chapter 10 of the International Building Code are not required to be provided in existing facilities.</p> <p>3. The alteration to Type A individually owned dwelling units within a Group R-2 occupancy shall be permitted to meet the provision for a Type B dwelling unit.</p> <p>4. Type B dwelling or sleeping units required by Section 1107 of the International Building Code are not required to be provided in existing buildings and facilities undergoing alterations where the work area is 50 percent or less of the aggregate area of the building.</p>		Base code renumbering, new reference to ICC A117.1 standard.
	<p>305.7 306.7.1 Alterations affecting an area containing a primary function.</p>		Edits made to clarify code, no major change to code
	<p>306.7.2 Accessible means of egress. Accessible means of egress required by Chapter 10 of the <i>International Building Code</i> are not required to be added in existing <i>facilities</i>.</p>		Accessibility exception added.

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	306.7.3 Alteration of Type A units. The <u>alteration to Type A individually owned dwelling units within a Group R-2 occupancy shall be permitted to meet the provision for a Type B dwelling unit.</u>		New code allowance for dwelling unit alterations.
	306.7.4 Type B units. Type B dwelling or sleeping units required by Section 1108 of the International Building Code are not required to be provided in <u>existing buildings and facilities undergoing alterations where the work area is 50 percent or less of the aggregate area of the building.</u>		New code allowance for dwelling unit alterations.
	305.8.4 306.7.5 Entrances.		Base code renumbering.
	306.7.6 Accessible route. Exterior accessible routes, including curb ramps, shall be not less than 36 inches (914 mm) minimum in width.		New code requirement for accessible widths.
	305.8.2 306.7.7 Elevators. Altered elements of existing elevators shall comply with ASME A17.1. and ICC A117.1. Such elements shall also be altered in elevators programmed to respond to the same hall call control as the altered elevator.		Base code renumbering, minor wordsmithing changes.
	305.8.3 306.7.8 Platform lifts. Platform (wheelchair) lifts complying with ICC A117.1 and installed in accordance with ASME A18.1 shall be permitted as a component of an accessible route.		Base code renumbering, minor wordsmithing changes.
	305.8.4 306.7.9 Stairways and escalators in existing buildings. Where an escalator or stairway is added where none existed previously and major structural modifications are necessary for installation, an accessible route shall be provided between the levels served by the escalator or stairways in accordance <u>complying</u> with Section 1104.4 of the <i>International Building Code</i> is required between levels served by such escalator or stairway.	306.7.9 Stairways and escalators in existing buildings. Where an escalator or stairway is added where none existed previously and major structural modifications are necessary for installation, an accessible route complying with <u>Section 1104.4</u> of the International <i>Building Code</i> is required between levels served by such escalator or stairway.	Base code renumbering, minor wordsmithing changes. Minor amendment edits to remove reference to Accessibility chapter in IBC.
	306.7.10 Determination of number of units. Where Chapter 11 of the <i>International Building Code</i> requires Accessible, Type A or Type B units and where such units are being altered or added, the number of Accessible, Type A and Type B units shall be determined in accordance with Sections 306.7.10.1 through 306.7.10.3.		New code requirement for dwelling unit accessibility.
	305.8.6 306.7.10.1. Accessible dwelling or sleeping units. Where group I-1, I-2, I-3, R-1, R-2, or R-4 dwelling or sleeping units are being altered or added, the requirements of Section 1108 of the <i>International Building Code</i> for Accessible units apply only to the quantity of spaces being altered or added.		New code requirement for dwelling/sleeping unit accessibility.
	305.8.7 306.7.10.2 Type A dwelling or sleeping units. Where more than 20 Group R-2 dwelling or sleeping units are being altered or added, the requirements of Section 1108 of the <i>International Building Code</i> for Type A units apply only to the quantity of the spaces being altered or added.		New code requirement for dwelling/sleeping unit accessibility.

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	<p>305.8.8 306.7.10.3 Type B dwelling or sleeping units. Where four or more Group I-1, I-2, R-1, R-2, R-3 or R-4 dwelling or sleeping units are being added, the requirements of Section 1108 of the <i>International Building Code</i> for Type B units apply only to the quantity of the spaces being added. Where Group I-1, I-2, R-1, R-2, R-3 or R-4 dwelling or sleeping units are being altered and where the <i>work area</i> is greater than 50 percent of the aggregate area of the building, the requirements of Section 1108 of the <i>International Building Code</i> for Type B units apply only to the quantity of the spaces being altered.</p>		<p>New code requirement for dwelling/sleeping unit accessibility.</p>
	<p>305.8.10 306.7.11 Toilet rooms. Where it is technically infeasible to alter existing toilet rooms and bathing rooms to be accessible, one accessible single-user toilet room or one accessible an accessible family or assisted-use toilet or bathing room constructed in accordance with Section 1110.2.1 of the <i>International Building Code</i> is permitted. The family or assisted use This toilet or bathing room shall be located on the same floor and in the same area as the existing toilet or bathing rooms. At the inaccessible toilet and bathing rooms, directional signs indicating the location of the nearest family or assisted use such toilet room or bathing room shall be provided. These directional signs shall include the International Symbol of Accessibility, and sign characters shall meet the visual character requirements in accordance with ICC A117.1</p>		<p>Edits made to clarify code, no major change to code</p>
	<p>306.7.12 Bathing rooms. Where it is <i>technically infeasible to alter existing bathing rooms to be accessible</i>, one accessible single-user bathing room or one accessible family or assisted-use bathing room constructed in accordance with Section 1110.2.1 of the <i>International Building Code</i> is permitted. This accessible bathing room shall be located on the same floor and in the same area as the existing bathing rooms. At the inaccessible bathing rooms, directional signs indicating the location of the nearest such bathing room shall be provided. These directional signs shall include the International Symbol of Accessibility, and sign characters shall meet the visual character requirements in accordance with ICC A117.1</p>		<p>New code requirement for bathing rooms accessibility.</p>
	<p>305.8.11 306.7.13 Additional toilet and bathing facilities.</p>		<p>Base code renumbering.</p>
	<p>305.8.12 306.7.14 Dressing, fitting and locker rooms.</p>		<p>Base code renumbering.</p>
	<p>305.8.15 306.7.15 Amusement rides.</p>		<p>Base code renumbering.</p>
	<p>305.9 306.7.16 Historic buildings structures. These provisions shall apply to facilities designated as historic structures that undergo alterations or a change of occupancy, unless technically infeasible. Where compliance with the requirements for accessible routes, entrances or toilet rooms would threaten or destroy the historic significance of the historic</p>		<p>Base code renumbering, minor wordsmithing changes. Base code exception removed and replaced.</p>

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	<p><u>structure</u> facility, as determined by the authority having jurisdiction, the alternative requirements of Section 306.7.16.1 through 306.7.16.5 for that element shall be permitted.</p> <p>Exception: Type B dwelling or sleeping units required by Section 1107 of the International Building Code are not required to be provided in historic buildings.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. Accessible means of egress required by Chapter 10 of the <i>International Building Code</i> are not required to be provided in historic structures. 2. The altered element or space is not required to be on an accessible route, unless required by Sections 306.7.16.1 or 306.7.16.2. 		
	<p>305.9.1 306.7.16.1 Site arrival points. Not fewer than one exterior accessible route, including curb ramps from a site arrival point to an accessible entrance, shall be provided and shall not be less than 36 inches (914 mm) minimum in width.</p>		Base code renumbering. Edits made to clarify code, no major change to code
	<p>305.9.2 306.7.16.2 Multiple-level buildings and facilities.</p>		Base code renumbering.
	<p>305.9.3 306.7.16.3 Entrance. Not fewer than one main entrance shall be accessible. Where an entrance cannot be made accessible in accordance with Section 306.7.5, an accessible entrance that is unlocked while the building is occupied shall be provided; or, a locked accessible entrance with a notification system or remote monitoring shall be provided.</p> <p>Signs complying with Section 1112 of the <i>International Building Code</i> shall be provided at the public entrance entrances and the accessible entrance.</p>		Base code renumbering. Edits made to clarify code, no major change to code
	<p>305.9.4 306.7.16.4 Toilet facilities and bathing facilities. Where toilet rooms are provided, not fewer than one accessible single-user toilet room or one accessible family or assisted-use toilet room complying with Section 1110.2.1 of the <i>International Building Code</i> shall be provided.</p>		Base code renumbering. Edits made to clarify code, no major change to code
	<p>306.7.16.5 Bathing facilities. Where bathing rooms are provided, not fewer than one accessible single-user bathing room or one accessible family or assisted-use bathing rooms complying with Section 1110.2.1 of the <i>International Building Code</i> shall be provided.</p>		New code requirements for bathing facility accessibility.
	<p>306.7.16.6 Type A units. The alteration to Type A individually owned dwelling units within a Group R-2 occupancy shall be permitted to meet the provision for a Type B dwelling unit.</p>		New code requirement for Type A unit alteration.

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	<u>306.7.16.7 Type B units.</u> Type B dwelling or sleeping units required by Section 1108 of the <i>International Building Code</i> are not required to be provided in <i>historic buildings</i> .		New code requirement for Type B unit alteration.
	SECTION 307 SMOKE ALARMS		
	<u>307.1 Smoke alarms.</u> Where an <i>alteration, addition, change of occupancy</i> or relocation of a building is made to an <i>existing building</i> or structure of a Group R and I-1 occupancy, the <i>existing building</i> shall be provided with smoke alarms in accordance with the International Fire Code or Section R314 of the <i>International Residential Code</i> . <u>Exception:</u> Work classified as Level 1 <i>Alterations</i> in accordance with Chapter 7.		New code requirement for smoke alarms
	SECTION 308 CARBON MONOXIDE DETECTION		
	<u>308.1 Carbon monoxide detection.</u> Where an <i>addition, alteration, change of occupancy</i> or relocation of a building is made to Group I-1, I-2, I-4 and R occupancies and classrooms of Group E occupancies, the <i>existing building</i> shall be provided with carbon monoxide detection in accordance with the International Fire Code or Section R315 of the <i>International Residential Code</i> . <u>Exceptions:</u> <ol style="list-style-type: none"> 1. <u>Work involving the exterior surfaces of buildings, such as the replacement of roofing or siding, the addition or replacement of windows or doors, or the addition of porches or decks.</u> 2. <u>Installation, alteration or repairs of plumbing or mechanical systems, other than fuel-burning appliances.</u> 3. <u>Work classified as Level 1 <i>Alterations</i> in accordance with Chapter 7.</u> 		New code requirement for carbon monoxide detection with included exceptions.
	SECTION 309 ADDITIONS AND REPLACEMENTS OF EXTERIOR WALL COVERINGS AND EXTERIOR WALL ENVELOPES		New base code section for adding/replacing exterior wall coverings and exterior wall envelopes.
	<u>309.1 General.</u> The provisions of Section 309 apply to all <i>alterations, repairs, additions, relocations of structures and changes of occupancy</i> regardless of compliance method.		New section providing scope of provisions for exterior wall coverings/envelopes.

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	<u>309.2 Additions and replacements.</u> Where an exterior wall covering or exterior wall envelope is added or replaced, the materials and methods used shall comply with the requirements for new construction in Chapter 14 and Chapter 26 of the International Building Code if the added or replaced exterior wall covering or exterior wall envelope involves two or more contiguous stories and comprises more than 15 percent of the total wall area on any side of the building.		New requirement for exterior wall coverings.
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	CHAPTER 4 PRESCRIPTIVE COMPLIANCE METHOD REPAIRS <i>(Note regarding 2018 redlines, the entire chapter 4 was deleted and replaced with almost no additional requirements.)</i>		<i>(Note regarding 2018 redlines, the entire chapter 4 was deleted and replaced with almost no additional requirements.)</i>
	401.1 Scope. Repairs shall comply with the requirements of this chapter. Repairs to historic buildings need only comply with Chapter 12.		New language for scope of history building repairs.
	<u>401.1.1 Bleachers, grandstands and folding and telescopic seating.</u> Repairs to existing bleachers, grandstands and folding and telescopic seating shall comply with ICC 300.		New code to reference ICC 300.
	401.2 Compliance. The work shall not make the building less complying than it was before the repair was undertaken.		New requirement for repair compliance.
		[BS] 401.3 Flood hazard areas. See Chapter 19 of the City Code. In flood hazard areas, repairs that constitute substantial improvement shall require that the building comply with Section 1612 of the International Building Code, or Section R322 of the International Residential Code, as applicable.	No change to Houston amendment, refers to Houston Ordinance for flood requirements.
	[BS] 401.3 Flood hazard areas. In flood hazard areas, repairs that constitute substantial improvement shall require that the building comply with Section 1612 of the International Building Code, or Section R322 of the International Residential Code, as applicable.		New requirement for flood hazard areas.
	SECTION 402 BUILDING ELEMENTS AND MATERIALS		
	402.1 Glazing in hazardous locations. Replacement glazing in hazardous locations shall comply with the safety glazing requirements of the International Building Code or International Residential Code as applicable. Exception: Glass block walls, louvered windows and jalousies repaired with like materials.		New glazing requirements.

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	<p align="center">SECTION 403 FIRE PROTECTION</p> <p>403.1 General. Repairs shall be done in a manner that maintains the level of fire protection provided.</p>		<p>New requirement for fire protection when repairs are made.</p>
<p>[BS] 403.2 Flood hazard areas. See Chapter 19 of the <i>City Code</i>. For buildings and structures in flood hazard areas established in Section 1612.3 of the <i>International Building Code</i>, or Section R322 of the <i>International Residential Code</i>, as applicable, any alteration that constitutes substantial improvement 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.</p> <p>For buildings and structures in flood hazard areas established in Section 1612.3 of the <i>International Building Code</i>, or Section R322 of the <i>International Residential Code</i>, as applicable, any alterations that do not constitute substantial improvement of the existing structure are not required to comply with the flood design requirements for new construction.</p>			<p>Flood provisions in Ch. 4 are now located in Section 401.3 and 405.2.6, amendment no longer needed for this section and has been relocated to appropriate sections.</p>
<p>[BS] 403.8 Roof diaphragms resisting wind loads in high-wind regions. Where the intended alteration requires a permit for reroofing and involves removal of roofing decking materials from more than 50 percent of the roof diaphragm of a building or section of a building located where the ultimate design wind speed is greater than 115 mph (51 m/s) in accordance with Figure Section 1609.3(4) of the <i>International Building Code</i> or in a special wind region as defined in Section 1609 of the <i>International Building Code</i>, roof diaphragms, connections of the roof diaphragm to roof framing members, and roof-to-wall connections shall be evaluated for the wind loads specified in Section 1609 of the <i>International Building Code</i>, including wind uplift. If the diaphragms and connections in their current condition are not capable of resisting at least 75 percent of those wind loads, they shall be replaced or strengthened in accordance with the loads specified in Section 1609 of the <i>International Building Code</i>.</p>			<p>Base code section has changed and Houston amendment is no longer required, has been relocated to Section 503.12.</p>
	<p align="center">SECTION 404 MEANS OF EGRESS</p> <p>404.1 General. Repairs shall be done in a manner that maintains the level of protection provided for the means of egress.</p>		<p>New requirement for means of egress when repairs are made.</p>
<p>[BS] 404.5 Flood hazard areas. Shall comply with ASCE 24 and Chapter 19 of the <i>City Code</i>, whichever is more restrictive. For buildings and structures in flood hazard areas established in Section 1612.3 of the <i>International Building Code</i>, or Section R322 of the <i>International Residential Code</i>, as applicable, any repair that constitutes substantial</p>			<p>Flood provisions in Ch. 4 are now located in Section 401.3 and 405.2.6, amendment no longer needed for this section and has been relocated to appropriate sections.</p>

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<p>improvement or repair of 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.</p> <p>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.</p>			
	<p>[BS] 405.2.4 Substantial structural damage to gravity load-carrying components. Gravity load-carrying components that have sustained <i>substantial structural damage</i> shall be rehabilitated to comply with the applicable provisions for dead, live and live snow loads in the <i>International Building Code</i>. Snow loads shall be considered if the substantial structural damage was caused by or related to snow load effects. Undamaged gravity load-carrying components that receive dead, live or snow loads from rehabilitated components shall also be rehabilitated if required to comply with the design loads of the <i>rehabilitation</i> design.</p>		<p>New requirements for structural repairs.</p>
	<p>[BS] 405.2.4.1 Lateral force-resisting elements. Regardless of the level of damage to vertical elements of the lateral force-resisting system, if substantial structural damage to gravity load-carrying components was caused primarily by wind or seismic effects, then the building shall be evaluated in accordance with Section 405.2.3.1 and, if noncompliant, retrofitted in accordance with Section 405.2.3.3.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. Buildings assigned to Seismic Design Category A, B, or C whose substantial structural damage was not caused by earthquake need not be evaluated or retrofitted for load combinations that include earthquake effects. 2. One- and two-family dwellings need not be evaluated or retrofitted for load combinations that include earthquake effects. 		<p>New requirements for structural repairs.</p>
	<p>[BS] 405.2.5 Substantial structure damage to snow load-carrying components. Where substantial structural damage to any snow load-carrying components is caused by or related to snow load effects, any components required to carry snow loads on roof framing of similar construction shall be repaired.</p>		<p>New snow loading requirements.</p>

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	<u>replaced or retrofitted to satisfy the requirements of Section 1608 of the International Building Code.</u>		
	[BS]405.2.5 405.2.6 Flood hazard areas. In flood hazard areas, buildings that have sustained substantial damage shall be brought into compliance with Section 1612 of the International Building Code, or Section R322 of the International Residential Code, as applicable.	[BS] 405.2.6 Flood hazard areas. See Chapter 19 of the City Code. <u>In flood hazard areas, buildings that have sustained substantial damage shall be brought into compliance with Section 1612 of the International Building Code, or Section R322 of the International Residential Code, as applicable.</u>	No change to Houston amendment to reference Houston Ordinances for flood provisions.
	406.1.4 Group I-2 receptacles. Receptacles in patient bed locations of Group I-2 that are not "hospital grade" shall be replaced with "hospital grade" receptacles, as required by NFPA 99 and Article 517 of NFPA 70. 406.1.4 Health care facilities. Portions of electrical systems being repaired in Group I-2, ambulatory care facilities and outpatient clinics shall comply with NFPA 99 requirements for repairs.		New electrical requirements when repairs are conducted in healthcare facilities.
		408.2 Water closet replacement. The maximum water consumption flow rates and quantities for all replaced water closets shall be <u>4.6 1.28</u> gallons (<u>64.85</u> L) per flushing cycle. Exception: <u>Blowout design water closets [3.5 gallons (13 L) per flushing cycle].</u>	Houston amendment brought forward from 2015 IEBC Section 609.2 to match amendments found within the IBC and UPC codes.
[BS] 408.3 Flood hazard areas. See Chapter 19 of the City Code. Within flood hazard areas established in accordance with Section 1612.3 of the International Building Code, or Section R322 of the International Residential Code, as applicable, where the work proposed constitutes substantial improvement, the building shall be brought into compliance with Section 1612 of the International Building Code, or Section R322 of the International Residential Code, as applicable: Exception: Historic buildings need not be brought into compliance that are: 1. Listed or preliminarily determined to be eligible for listing in the National Register of Historic Places; 2. Determined by the Secretary of the U.S. Department of Interior as contributing to the historical significance of a registered historic district or a district preliminarily determined to qualify as an historic district; or 3. Designated as historic under a state or local historic preservation program that is approved by the Department of Interior.	408.3 Health care facilities. Portions of medical gas systems being repaired in Group I-2, ambulatory care facilities and outpatient clinics shall comply with NFPA 99 requirements for repairs.		Health care requirements for med gas referencing NFPA 99. Previous Houston amendment no longer required as flood sections have been relocated.

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<p>410.1 Scope. The Accessibility provisions for the of Sections 410.1 through 410.9 apply to maintenance, change of occupancy, additions and alterations to existing buildings, including those identified as historic buildings, shall be in accordance with Chapter 11 of the Building Code.</p> <p><u>{Editorial Note: THE REMAINDER OF THIS SECTION REMAINS AS SET FORTH IN THE 2015 IEBC AND IS NOT ADOPTED BY THIS JURISDICTION.}</u></p>			Houston amendment removed as it is no longer needed, base code has been changed.
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	<p>Redline Note: Change of chapter number and consequently all section numbers within the chapter have resulted in complete underlining and strike through of the entire chapter. For detailed revisions reference should be made to other Code Council resources such as "Complete Revision History" (available in 2018)</p>		
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	<p>SECTION 501 GENERAL</p>		
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	<p>501.1 Scope. The provisions of this chapter shall be used in conjunction with Chapters 6 through 13 and shall apply to the alteration, repair, addition and change of occupancy of existing structures, including historic and moved structures, as referenced in Section 301.1.2. The work performed on an existing building shall be classified in accordance with this chapter.</p> <p>501.1 Scope. The provisions of this chapter shall control the alteration, addition and change of occupancy of existing buildings and structures, including historic buildings and structures as referenced in Section 301.3.1.</p> <p>Exception: Existing bleachers, grandstands and folding and telescopic seating shall comply with ICC 300-17</p>		New scope language for updated chapter.
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	<p>501.1.1 Compliance with other alternatives. Alterations, repairs, additions and changes of occupancy to existing structures shall comply with the provisions of Chapters 6 through 13 or with one of the alternatives provided in Section 301.1.</p>		
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	<p>501.2 Fire-resistance ratings. Where approved by the code official, in buildings where an automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2 of the International Building Code has been added, and the building is now sprinklered throughout, the required fire-resistance ratings of building elements and materials shall be permitted to meet the requirements of the current building code.</p>		New requirement for fire resistance rating.
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	<p>The building is required to meet the other applicable requirements of the International Building Code.</p> <p>Plans, investigation and evaluation reports, and other data shall be submitted indicating which building elements and materials the applicant is requesting the code official to review and approve for determination of applying the current building code fire-resistance ratings. Any special construction features, including fire-resistance-rated assemblies and smoke-resistive assemblies, conditions of occupancy, means of egress conditions, fire code deficiencies, approved modifications or approved alternative materials, design and methods of construction, and equipment applying to the building that impact required fire-resistance ratings shall be identified in the evaluation reports submitted.</p> <p>501.2 Work area. The work area, as defined in Chapter 2, shall be identified on the construction documents.</p>		
	<p>501.3 Health care facilities. In Group I-2 facilities, ambulatory care facilities and outpatient clinics, any altered or added portion of an existing electrical or medical gas systems shall be required to meet installation and equipment requirements in NFPA 99.</p>		<p>New requirement referencing NFPA 99 for healthcare facilities.</p>
	<p>SECTION 502 REPAIRS SECTION 502 ADDITIONS</p>	<p>SECTION 502 ADDITIONS</p>	
	<p>502.1 Scope. Repairs, as defined in Chapter 2, include the patching or restoration or replacement of damaged materials, elements, equipment or fixtures for the purpose of maintaining such components in good or sound condition with respect to existing loads or performance requirements.</p> <p>502.1 General. Additions to any building or structure shall comply with the requirements of the International Building Code for new construction. Alterations to the existing building or structure shall be made to ensure that the existing building or structure together with the addition are not less complying with the provisions of the International Building Code than the existing building or structure was prior to the addition. An existing building together with its additions shall comply with the height and area provisions of Chapter 5 of the International Building Code.</p>		<p>New section providing scope for prescriptive requirements.</p>
	<p>502.2 Application. Repairs shall comply with the provisions of Chapter 6.</p> <p>[BS] 502.2 Disproportionate earthquake damage. A building assigned to Seismic Design Category D, E or F that has sustained disproportionate earthquake damage shall be subject to the requirements for buildings with substantial structural</p>		<p>New requirements for seismic design.</p>

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	<p>damage to vertical elements of the lateral force-resisting system.</p>		
	<p>502.3 Related work. Work on nondamaged components that is necessary for the required repair of damaged components shall be considered part of the repair and shall not be subject to the provisions of Chapter 7, 8, 9, 10 or 11.</p> <p>[BS] 502.3 Flood hazard areas. 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 addition that constitutes substantial improvement 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.</p> <p>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 additions that do not constitute substantial improvement of the existing structure are not required to comply with the flood design requirements for new construction.</p>	<p>[BS] 502.3 Flood hazard areas. See Chapter 19 of the City Code. 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 addition that constitutes substantial improvement 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.</p> <p>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 additions that do not constitute substantial improvement of the existing structure are not required to comply with the flood design requirements for new construction.</p>	<p>New Houston amendment for flood hazard section to reference Houston Ordinances for flood provisions.</p>
	<p>[BS] 502.4 Existing structural elements carrying gravity load. Any existing gravity load-carrying structural element for which an addition and its related alterations cause an increase in design dead, live or snow load, including snow drift effects, of more than 5 percent shall be replaced or altered as needed to carry the gravity loads required by the International Building Code for new structures. Any existing gravity load-carrying structural element whose vertical load-carrying capacity is decreased as part of the addition and its related alterations shall be considered to be an altered element subject to the requirements of Section 503.3. Any existing element that will form part of the lateral load path for any part of the addition shall be considered to be an existing lateral load-carrying structural element subject to the requirements of Section 502.5.</p> <p>Exception: Buildings of Group R occupancy with not more than five dwelling or sleeping units used solely for residential purposes where the existing building and the addition together comply with the conventional light frame construction methods of the International Building Code or the provisions of the International Residential Code.</p>		<p>New requirement for existing structural elements.</p>
	<p>[BS] 502.5 Existing structural elements carrying lateral load. Where the addition is structurally independent of the existing structure, existing lateral load-carrying structural elements shall be permitted to remain unaltered. Where the addition is not structurally independent of the existing structure, the existing structure and its addition acting together as a single</p>		<p>New requirement for existing structural elements.</p>

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	<p>structure shall be shown to meet the requirements of Sections 1609 and 1613 of the International Building Code using full seismic forces.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> Any existing lateral load-carrying structural element whose demand-capacity ratio with the addition considered is not more than 10 percent greater than its demand-capacity ratio with the addition ignored shall be permitted to remain unaltered. For purposes of calculating demand-capacity ratios, the demand shall consider applicable load combinations with design lateral loads or forces in accordance with Sections 1609 and 1613 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. Buildings of Group R occupancy with not more than five dwelling or sleeping units used solely for residential purposes where the existing building and the addition together comply with the conventional light-frame construction methods of the International Building Code or the provisions of the International Residential Code. 		
	<p>502.6 Smoke alarms in existing portions of a building. Where an addition is made to a building or structure of a Group R or I-1 occupancy, the existing building shall be provided with smoke alarms in accordance with Section 1103.8 of the International Fire Code.</p> <p>502.6 Enhanced classroom acoustics. In Group E occupancies, enhanced classroom acoustics shall be provided in all classrooms in the <i>addition</i> with a volume of 20,000 cubic feet (565 m³) or less. Enhanced classroom acoustics shall comply with the reverberation time in Section 808 of ICC A117.1.</p>		<p>New requirement for classroom acoustics in Group E.</p>
	<p>502.7 Carbon monoxide alarms in existing portions of a building. Where an addition is made to a building or structure of Group I-1, I-2, I-4 or R occupancy, the existing building shall be provided with carbon monoxide alarms in accordance with Section 1103.9 of the International Fire Code or Section R315 of the International Residential Code, as applicable.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> Work involving the exterior surfaces of buildings, such as the replacement of roofing or siding, the addition or replacement of windows or doors, or the addition of porches or decks. 		<p>Base code section removed and relocated to Chapter 3.</p>

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	<p>2. Installation, alteration or repairs of plumbing or mechanical systems, other than fuel-burning appliances.</p>		
	<p>502.8 Additions to Group E facilities. For additions to Group E occupancies, storm shelters shall be provided in accordance with Section 303.2.</p>		Base code section removed and relocated to Chapter 3.
	<p>SECTION 503 ALTERATION LEVEL 1 SECTION 503 ALTERATIONS</p>		
	<p>503.1 General. Except as provided by Section 302.3, 302.4 or this section, alterations Alterations to any building or structure shall comply with the requirements of the <i>International Building Code</i> for new construction. <i>Alterations</i> shall be such that the <i>existing building</i> or structure is not less complying with the provisions of the <i>International Building Code</i> than the <i>existing building</i> or structure was prior to the <i>alteration</i>.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. An existing stairway shall not be required to comply with the requirements of Section 1011 of the <i>International Building Code</i> where the existing space and construction does not allow a reduction in pitch or slope. 2. Handrails otherwise required to comply with Section 1011.11 of the <i>International Building Code</i> shall not be required to comply with the requirements of Section 1014.6 of the <i>International Building Code</i> regarding full extension of the handrails where such extensions would be hazardous because of plan configuration. 3. Where provided in below-grade transportation stations, existing and new escalators shall have a clear width of less than 32 inches (815 mm). <p>503.1 Scope. Level 1 alterations include the removal and replacement or the covering of existing materials, elements, equipment, or fixtures using new materials, elements, equipment, or fixtures that serve the same purpose.</p>		New requirements for alternations.
	<p>503.2 Application. Level 1 alterations shall comply with the provisions of Chapter 7.</p> <p>[BS] 503.2 Flood hazard areas. For buildings and structures in flood hazard areas established in Section 1612.3 of the <i>International Building Code</i>, or Section R322 of the <i>International Residential Code</i>, as applicable, any alteration that constitutes substantial improvement of the existing</p>	<p>[BS] 503.2 Flood hazard areas. See Chapter 19 of the City Code. For buildings and structures in flood hazard areas established in Section 1612.3 of the <i>International Building Code</i>, or Section R322 of the <i>International Residential Code</i>, as applicable, any alteration that constitutes substantial improvement of the existing structure shall comply with the flood design requirements for new construction, and all aspects of the</p>	New Houston amendment to provide reference to Houston Ordinances for flood provisions.

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	<p>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.</p> <p>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 alterations that do not constitute substantial improvement of the existing structure are not required to comply with the flood design requirements for new construction.</p>	<p>existing structure shall be brought into compliance with the requirements for new construction for flood design.</p> <p>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 alterations that do not constitute substantial improvement of the existing structure are not required to comply with the flood design requirements for new construction.</p>	
	<p>[BS] 503.3 Existing structural elements carrying gravity load. Any existing gravity load-carrying structural element for which an alteration causes an increase in design dead, live or snow load, including snow drift effects, of more than 5 percent shall be replaced or altered as needed to carry the gravity loads required by the International Building Code for new structures. Any existing gravity load-carrying structural element whose gravity load-carrying capacity is decreased as part of the alteration shall be shown to have the capacity to resist the applicable design dead, live and snow loads including snow drift effects required by the International Building Code for new structures.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> Buildings of Group R occupancy with not more than five dwelling or sleeping units used solely for residential purposes where the altered building complies with the conventional light-frame construction methods of the International Building Code or the provisions of the International Residential Code. Buildings in which the increased dead load is due entirely to the addition of a second layer of roof covering weighing 3 pounds per square foot (0.1437 kN/m²) or less over an existing single layer of roof covering. 		<p>New structural requirements.</p>
	<p>[BS] 503.4 Existing structural elements carrying lateral load. Except as permitted by Section 503.13, where the alteration increases design lateral loads, results in a prohibited structural irregularity as defined in ASCE 7, or decreases the capacity of any existing lateral load-carrying structural element, the structure of the altered building or structure shall meet the requirements of Sections 1609 and 1613 of the <i>International Building Code</i>. Reduced seismic forces shall be permitted.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> Any existing lateral load-carrying structural element whose demand-capacity ratio with the alteration considered is not more than 10 percent 		<p>New structural requirements with new exceptions.</p>

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	<p>greater than its demand-capacity ratio with the alteration ignored shall be permitted to remain unaltered. For purposes of calculating demand-capacity ratios, the demand shall consider applicable load combinations with design lateral loads or forces in accordance with Sections 1609 and 1613 of the <i>International Building Code</i>. Reduced seismic forces shall be permitted. 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.</p> <p>2. Buildings in which the increase in the demand-capacity ratio is due entirely to the addition of rooftop-supported mechanical equipment individually having an operating weight less than 400 pounds (181.4 kg) and where the total additional weight of all rooftop equipment placed after initial construction of the building is less than 10 percent of the roof dead load. For purposes of this exception, "roof" shall mean the roof level above a particular story.</p>		
	<p>[BS] 503.5 Seismic Design Category F. Where the work area exceeds 50 percent of the building area, and where the building is assigned to Seismic Design Category F, the structure of the altered building shall meet the requirements of Sections 1609 and 1613 of the International Building Code. Reduced seismic forces shall be permitted.</p>		<p>New requirements for seismic design.</p>
	<p>[BS] 503.6 Bracing for unreinforced masonry parapets on reroofing. Where the intended alteration requires a permit for reroofing and involves removal of roofing materials from more than 25 percent of the roof area of a building assigned to Seismic Design Category D, E or F that has parapets constructed of unreinforced masonry, the work shall include installation of parapet bracing to resist out-of-plane seismic forces, unless an evaluation demonstrates compliance of such items. Reduced seismic forces shall be permitted.</p>		<p>New structural bracing requirements.</p>
	<p>[BS] 503.7 Anchorage for concrete and reinforced masonry walls. Where the work area exceeds 50 percent of the building area, the building is assigned to Seismic Design Category C, D, E or F and the building's structural system includes concrete or reinforced masonry walls with a flexible roof diaphragm, the alteration work shall include installation of wall anchors at the roof line, unless an evaluation demonstrates compliance of existing wall anchorage. Use of reduced seismic forces shall be permitted.</p>		<p>New requirements for concrete/reinforced masonry wall anchorage.</p>

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	<p>[BS] 503.8 Anchorage for unreinforced masonry walls in major alterations. Where the work area exceeds 50 percent of the building area, the building is assigned to Seismic Design Category C, D, E or F and the building's structural system includes unreinforced masonry bearing walls, the alteration work shall include installation of wall anchors at the floor and roof lines, unless an evaluation demonstrates compliance of existing wall anchorage. Reduced seismic forces shall be permitted.</p>		<p>New anchoring requirement.</p>
	<p>[BS] 503.9 Bracing for unreinforced masonry parapets in major alterations. Where the work area exceeds 50 percent of the building area, and where the building is assigned to Seismic Design Category C, D, E or F, parapets constructed of unreinforced masonry shall have bracing installed as needed to resist out-of-plane seismic forces, unless an evaluation demonstrates compliance of such items. Reduced seismic forces shall be permitted.</p>		<p>New anchoring requirement.</p>
	<p>[BS] 503.10 Anchorage of unreinforced masonry partitions in major alterations. Where the work area exceeds 50 percent of the building area, and where the building is assigned to Seismic Design Category C, D, E or F, unreinforced masonry partitions and nonstructural walls within the work area and adjacent to egress paths from the work area shall be anchored, removed or altered to resist out-of-plane seismic forces, unless an evaluation demonstrates compliance of such items. Use of reduced seismic forces shall be permitted.</p>		<p>New anchoring requirement.</p>
	<p>[BS] 503.11 Substantial structural alteration. Where the work area exceeds 50 percent of the building area and where work involves a substantial structural alteration, the lateral load-resisting system of the altered building shall satisfy the requirements of Sections 1609 and 1613 of the International Building Code. Reduced seismic forces shall be permitted.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. Buildings of Group R occupancy with not more than five dwelling or sleeping units used solely for residential purposes that are altered based on the conventional light-frame construction methods of the International Building Code or in compliance with the provisions of the International Residential Code. 2. Where the intended alteration involves only the lowest story of a building, only the lateral load-resisting components in and below that story need comply with this section. 		<p>New structural requirement for substantial alteration.</p>

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	<p>[BS] 503.12 Roof diaphragms resisting wind loads in high-wind regions. Where the intended <i>alteration</i> requires a permit for reroofing and involves removal of roofing materials from more than 50 percent of the roof diaphragm of a building or section of a building located where the ultimate design wind speed is greater than 445 130 mph (58 m/s) in accordance with Figure 1609.3 (1) of the <i>International Building Code</i>, or in a special wind region as defined in Section 1609 of the <i>International Building Code</i> roof diaphragms, connections of the roof diaphragm to roof framing members, and roof-to-wall connections shall be evaluated for the wind loads specified in Section 1609 of the <i>International Building Code</i>, including wind uplift. If the diaphragms and connections in their current condition are not capable of resisting 75 percent of those wind loads, they shall be replaced or strengthened in accordance with the loads specified in Section 1609 of the <i>International Building Code</i>.</p> <p>Exception: Buildings that have been demonstrated to comply with the wind load provisions in ASCE 7-88 or later editions.</p>	<p>[BS] 503.12 Roof diaphragms resisting wind loads in high-wind regions. Where the intended <i>alteration</i> requires a permit for reroofing and involves removal of roofing decking materials from more than 50 percent of the roof diaphragm of a building or section of a building located where the ultimate design wind speed is greater than 130 mph (58 m/s) in accordance with Figure Section 1609.3(1) of the <i>International Building Code</i>, roof diaphragms, connections of the roof diaphragm to roof framing members, and roof-to-wall connections shall be evaluated for the wind loads specified in Section 1609 of the <i>International Building Code</i>, including wind uplift. If the diaphragms and connections in their current condition are not capable of resisting at least 75 percent of those wind loads, they shall be replaced or strengthened in accordance with the loads specified in Section 1609 of the <i>International Building Code</i>.</p> <p>Exception: Buildings that have been demonstrated to comply with the wind load provisions in ASCE 7-88 or later editions.</p>	<p>New Structural requirement in base code. Houston amendment brought forward from 2015 IEBC Section 403.8, no change to amendment.</p>
	<p>503.14 Smoke alarms. Individual sleeping units and individual dwelling units in Group R and I-1 occupancies shall be provided with smoke alarms in accordance with Section 1103.8 of the <i>International Fire Code</i>.</p>		<p>Base code section removed and relocated to Chapter 3.</p>
	<p>503.14 Smoke compartments. In Group I-2 occupancies where the <i>alteration</i> is on a story used for sleeping rooms for more than 30 care recipients, the story shall be divided into not less than two compartments by smoke barrier walls in accordance with Section 407.5 of the <i>International Building Code</i> as required for new construction.</p>		<p>New smoke compartment requirements for healthcare facilities.</p>
	<p>503.15 Carbon monoxide alarms. Carbon monoxide alarms shall be provided to protect sleeping units and dwelling units in Group I-1, I-2, I-4 and R occupancies in accordance with Section 1103.9 of the <i>International Fire Code</i>.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. Work involving the exterior surfaces of buildings, such as the replacement of roofing or siding, the addition or replacement of windows or doors, or the addition of porches or decks. 2. Installation, alteration or repairs of plumbing or mechanical systems, other than fuel-burning appliances. 		<p>Base code section removed and relocated to Chapter 3.</p>
	<p>503.16 503.15 Refuge areas. Where <i>alterations</i> affect the configuration of an area utilized as a refuge area, the capacity of the refuge area shall not be reduced below the required capacity of the refuge area for horizontal exits in accordance with Section 1026.4 of the <i>International Building Code</i>.</p>		<p>New requirement for refuge areas.</p>

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	<u>Where the horizontal exit also forms a smoke compartment, the capacity of the refuge area for Group I-1, I-2 and I-3 occupancies and Group B ambulatory care facilities shall not be reduced below that required in Sections 503.16.1 through 503.16.3 Sections 407.5.3, 408.6.2, 420.6.1 and 422.3.2 of the International Building Code, as applicable.</u>		
	503.16.1 Smoke compartments. In Group I-2 and I-3 occupancies, the required capacity of the refuge areas for smoke compartments in accordance with Sections 407.5.1 and 408.6.2 of the International Building Code shall be maintained.		New smoke compartment requirements for healthcare facilities.
	503.16 Enhanced classroom acoustics. In Group E occupancies, where the work area exceeds 50 percent of the building area, enhanced classroom acoustics shall be provided in all classrooms with a volume of 20,000 cubic feet (565 m ³) or less. Enhanced classroom acoustics shall comply with the reverberation time in Section 808 of ICC A117.1.		New Group E classroom acoustic requirements.
	503.16.2 Ambulatory care. In ambulatory care facilities required to be separated by Section 422.2 of the International Building Code, the required capacity of the refuge areas for smoke compartments in accordance with Section 422.3.2 of the International Building Code shall be maintained.		New ambulatory care requirements.
	503.16.3 Horizontal exits. The required capacity of the refuge area for horizontal exits in accordance with Section 1026.4 of the International Building Code shall be maintained.		New horizontal exit requirements.
	503.17 Locking arrangements in educational occupancies. In Group E occupancies, Group B educational occupancies and Group I-4 occupancies, egress doors with locking arrangements designed to keep intruders from entering the room shall comply with Section 1010.2.8 of the International Building Code.		New group E and B requirements.
	503.18 Two-way communications systems. Where the work area for alterations exceeds 50 percent of the building area and the building has elevator service, a two-way communication systems shall be provided where required by Section 1009.8 of the International Building Code.		New two way communication requirements.
	SECTION 504 ALTERATION LEVEL 2 SECTION 504 FIRE ESCAPES	SECTION 504 FIRE ESCAPES	
	504.1 Scope. Level 2 alterations include the reconfiguration of space, the addition or elimination of any door or window, the reconfiguration or extension of any system, or the installation of any additional equipment. 504.1 Where permitted. Fire escapes shall be permitted only as provided for in Sections 504.1.1 through 504.1.4.	[BE] 504.1 Where permitted. Fire escapes shall be permitted only as provided for in Sections 504.1.1 through 504.1.4. Fire Escape Stairs shall be maintained per LSB 2.	New requirements and restrictions on fire escapes in base code. New Houston amendment referring to Fire Department LSB's for fire escape requirements.

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	<p>504.5 Opening protectives. Doors and windows within 10 feet (3048 mm) of fire escape stairways shall be protected with 3/4-hour opening protectives.</p> <p>Exception: Opening protection shall not be required in buildings equipped throughout with an approved automatic sprinkler system.</p>		New requirements for opening protectives serving fire escapes.
	<p>SECTION 505 ALTERATION LEVEL 3 SECTION 505 WINDOWS AND EMERGENCY ESCAPE OPENINGS</p>		
	<p>505.1 Scope. Level 3 alterations apply where the work area exceeds 50 percent of the building area.</p> <p>505.1 Replacement glass windows. The installation or replacement of <u>windows</u> glass shall be as required for new installations.</p>		New requirements for window glass replacement.
	<p>505.2 Application. Level 3 alterations shall comply with the provisions of Chapters 7 and 8 for Level 1 and 2 alterations, respectively, as well as the provisions of Chapter 9.</p> <p>505.2 Replacement window Window opening control devices on replacement windows. In Group R-2 or R-3 buildings containing dwelling units, and one-and two-family dwellings and townhouses regulated by the <i>International Residential Code</i>, window opening control devices <u>or fall prevention devices</u> complying with ASTM F2090 shall be installed where an existing window is replaced and where all of the following apply to the replacement window.</p> <ol style="list-style-type: none"> 1. The window is operable. 2. One of the following applies: <ol style="list-style-type: none"> 2.1 The window replacement includes replacement of the sash and frame. 2.2 The window replacement includes the sash only where the existing frame remains. 2. The window replacement includes replacement of the sash and the frame 3. One of the following applies: <ol style="list-style-type: none"> 3.1 In Group R-2 or R-3 buildings containing dwelling units, the top <u>bottom</u> of the sill <u>clear opening</u> of the window opening is at a height less than 36 inches (915 mm) above the finished floor. 3.2 In one-and two-family dwellings and townhouses regulated by the <i>International Residential Code</i>, the top <u>bottom</u> of the sill <u>clear opening</u> of the window opening is at a height less than 24 inches (610 mm) above the finished floor. 		New requirements and updates to window replacement and opening control devices required.

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	<p>4. The window will permit openings that allow passage of a 4-inch diameter (102 mm) sphere when the window is in its largest opened position.</p> <p>5. The vertical distance from the top bottom of the sill clear opening of the window opening to the finished grade or other surface below, on the exterior of the building, is greater than 72 inches (1829 mm)</p> <p>The window opening control device, after operation to release the control device allowing the window to fully open, shall not reduce the minimum net clear opening area of the window unit to less than the area required by Section 1030.2 of the International Building Code.</p> <p>Exception: Operable windows where the top bottom of the sill clear opening 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 F2006.</p> <p>1. Operable windows where the top bottom of the sill clear opening 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 F2006.</p> <p>2. Operable windows with openings that are provided with window fall prevention devices that comply with ASTM F2090</p>		
	<p>505.3 Replacement window emergency escape and rescue openings. Where windows are required to provide <i>emergency escape and rescue openings</i> in Group R-2 and R-3 occupancies in one-and two-family dwellings and townhouses regulated by the <i>International Residential Code</i>, replacement windows shall be exempt from the requirements of Section 1031.3 and 1030.4 of the <i>International Building Code</i> and R310.2.1, R310.2.2 and R310.2.3 Section R310.2 of the <i>International Residential Code</i>, provided that the replacement window meets the following conditions:</p> <p>1. 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.</p> <p>2. The Where the replacement of the window is part of a <i>change of occupancy</i>, it shall comply with Section 1011.5.6.</p> <p>Window opening control devices complying with ASTM F2090 shall be permitted for use on windows required to provide emergency escape and rescue openings.</p>		<p>New requirements for window replacements requiring emergency escape and rescue openings.</p>

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	<p>505.3.1 Control devices. Window opening control devices or fall prevention devices complying with ASTM F2090 shall be permitted for use on windows required to provide <i>emergency escape and rescue openings</i>. After operation to release to control device allowing the window to fully open, the control device shall not reduce the net clear opening area of the window unit. <i>Emergency escape and rescue openings</i> shall be operational from the inside of the room without the use of keys or tools.</p>		<p>New requirement window opening control devices.</p>
	<p>505.4 Emergency escape and rescue openings Bars, Grilles, covers or screens. Emergency escape and rescue openings shall be operational from the inside of the room without the use of keys or tools. Bars, grilles, covers, screens grates or similar devices are permitted to be placed over <i>emergency escape and rescue openings, provided that bulkhead enclosure or window wells that serve such openings, provided all of the following conditions are met:</i></p> <ol style="list-style-type: none"> 1. The minimum net clear opening size complies with the code that was in effect at the time of construction. and 2. Such devices shall be releasable or removable from the inside without the use of a key, tool or force greater than that which is required for normal operation of the escape and rescue opening. 3. Where such bars, grilles, grates or similar devices are installed, they shall not reduce the net clear opening of the emergency escape and rescue openings. 4. Smoke alarms shall be installed in accordance with Section 907.2.10 of the <i>International Building Code</i>. Regardless of the valuations of the alteration. 		<p>New requirements for bars, grilles, and screen for emergency escape and rescue openings.</p>
	<p style="text-align: center;">SECTION 506 CHANGE OF OCCUPANCY</p>		
	<p>506.4 Existing emergency escape and rescue openings. Where a <i>change of occupancy</i> would require an <i>emergency escape and rescue opening</i> in accordance with Section 1031.1 of the <i>International Building Code</i>, operable windows serving as the <i>emergency escape and rescue opening</i> shall comply with the following</p> <ol style="list-style-type: none"> 1. An existing operable window shall provide a minimum net clear opening of 4 square feet (0.38 m²) with a minimum net clear opening height of 22 inches (559 mm) and a minimum net clear opening width of 20 inches (508 mm) 2. A replacement window where such window complies with both of the following: <ol style="list-style-type: none"> 2.1 The replacement window meets the size requirements in Item 1. 2.2 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 		<p>New requirements for existing emergency escape and rescue openings.</p>

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	<u>style that provides for an equal or greater window opening area than the existing window.</u>		
	506.4 506.5 Structural. Any building undergoing a change of occupancy shall satisfy the requirements of this section.		New prescriptive structural requirements. Base code renumbering.
	506.4.1 506.5.1 Live loads. Structural elements carrying tributary live loads from an area with a change of occupancy shall satisfy the requirements of Section 1607 of the International Building Code. Design live loads for areas of new occupancy shall be based on Section 1607 of the International Building Code. Design live loads for other areas shall be permitted to use previously approved design live loads. Exception: Structural elements whose demand-capacity ratio considering the change of occupancy is not more than 5 percent greater than the demand-capacity ratio based on previously approved live loads need not comply with this section.		New prescriptive structural requirements. Base code renumbering.
	506.4.2 506.5.2 Snow and wind loads. Where a change of occupancy results in a structure being assigned to a higher risk category, the structure shall satisfy the requirements of Sections 1608 and 1609 of the International Building Code for the new risk category. Exception: Where the area of the new occupancy is less than 10 percent of the building area, compliance with this section is not required. The cumulative effect of occupancy changes over time shall be considered.		New prescriptive snow and wind load requirements. Base code renumbering.
	506.4.3 506.5.3 Seismic loads (seismic force-resisting system). Where a <i>change of occupancy</i> results in a building being assigned to a higher <i>risk category</i> , <u>or where the change is from a Group S or Group U occupancy to any occupancy other than Group S or Group U,</u> the building shall satisfy the requirements of Section 1613 of the <i>International Building Code</i> for the new risk category using full seismic forces. Exceptions: <ol style="list-style-type: none"> Where the area of the new occupancy is less than 10 percent of the building area, <u>the occupancy is not changing from a Group S or Group U occupancy,</u> and the new occupancy is not assigned to Risk Category IV, compliance with this section is not required. The cumulative effect of occupancy changes over time shall be considered. Where a <i>change of use</i> results in building being reclassified from Risk Category I or II to Risk Category III and the seismic coefficient, S_{ps}, is less than 0.33, 		New seismic load requirements. Base code renumbering.

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	<p>compliance with this section is not required.</p> <p>3. Unreinforced masonry bearing wall buildings assigned to Risk Category III and to Seismic Design Category A or B, shall be permitted to use Appendix Chapter A1 of this code.</p> <p>4. Where the change is from a Group S or Group U occupancy and there is no change or risk category, use of reduced seismic forces shall be permitted.</p>		
	<p>506.4.4 506.5.4 Access to Risk Category IV. Any structure that provides operational access to an adjacent structure assigned to Risk Category IV as the result of a change of occupancy shall itself satisfy the requirements of Sections 1608, 1609 and 1613 of the International Building Code. For compliance with Section 1613, International Building Code-level seismic forces shall be used. Where operational access to the Risk Category IV structure is less than 10 feet (3048 mm) from either an interior lot line or from another structure, access protection from potential falling debris shall be provided.</p>		New requirement risk category requirements. Base code renumbering.
	<p>506.6 Enhanced classroom acoustics. In Group E occupancies, where the <i>work area</i> exceeds 50 percent of the building area, enhanced classroom acoustics shall be provided in all classrooms with a volume of 20,000 cubic feet (565 m³) or less. Enhanced classroom acoustics shall comply with the reverberation time in Section 808 of ICC A117.1.</p>		New requirements for enhanced classroom acoustics.
	<p>SECTION 507 ADDITIONS SECTION 507 HISTORIC BUILDINGS</p>	<p>SECTION 507 HISTORIC BUILDINGS</p>	
		<p>[BS] 507.3 Flood hazard areas. See Chapter 19 of the City Code. Within flood hazard areas established in accordance with Section 1612.3 of the <i>International Building Code</i>, or Section R322 of the <i>International Residential Code</i>, as applicable, where the work proposed constitutes <i>substantial improvement</i>, the building shall be brought into compliance with Section 1612 of the <i>International Building Code</i>, or Section R322 of the <i>International Residential Code</i>, as applicable:</p> <p>Exception: <i>Historic buildings</i> need not be brought into compliance that are:</p> <ol style="list-style-type: none"> 1. Listed or preliminarily determined to be eligible for listing in the National Register of Historic Places; 2. Determined by the Secretary of the U.S. Department of Interior as contributing to the historical significance of a registered historic district or a district preliminarily determined to qualify as an historic district; or 	New Houston amendment to refer to Chapter 19 of the City Ordinances for flood requirements.

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		<p>3. Designated as historic under a state or local historic preservation program that is approved by the Department of Interior.</p>	
	<p>[BS] 507.4 Structural. Historic buildings shall comply with the applicable structural provisions in this chapter.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. The code official shall be authorized to accept existing floors and existing live loads and to approve operational controls that limit the live load on any floor. 2. Repair of substantial structural damage is not required to comply with Sections 405.2.3, and 405.2.4. Substantial structural damage shall be repaired in accordance with Section 405.2.1. 		New prescriptive structural requirements for historical buildings.
2015 Houston IEBC Amendments	2021 IEBC – Chapter 6 – Classification of Work	2021 Houston IEBC Amendments	Code Change Analysis.
	<p><i>Redline Note: Change of chapter number and consequently all section numbers within the chapter have resulted in complete underlining and strike through of the entire chapter. For detailed revisions reference should be made to other Code Council resources such as "Complete Revision History"</i></p>		
	<p style="text-align: center;">SECTION 603 ALTERATION—LEVEL 2</p> <p>603.1 General. Repairs shall be done in a manner that maintains the level of fire protection provided.</p> <p>603.1 Scope. Level 2 alterations include the reconfiguration of space, the addition or elimination of any door or window, the reconfiguration or extension of any system, or the installation of any additional equipment, and shall apply where the work area is equal to or less than 50 percent of the building area.</p> <p>Exception: The movement or addition of nonfixed and movable fixtures, cases, racks, counters and partitions not over 5 feet 9 inches (1753 mm) in height shall not be considered a Level 2 alteration.</p>		Base code updates to Level 2 alteration requirements, includes new exception.
<p>[BS] 601.3 Flood hazard areas. See Chapter 19 of the City Code. In flood hazard areas, repairs that constitute substantial improvement shall require that the building comply with Section 1612 of the International Building Code, or Section R322 of the International Residential Code, as applicable.</p>			Previous Houston amendment removed as it's no longer needed in this chapter.

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<p>605.1 General. Repairs shall be done in a manner that maintains the level of accessibility provided <u>in accordance with the <i>Texas Accessibility Standards</i>.</u></p>			<p>Previous Houston amendment removed as it's no longer needed in this chapter.</p>
<p>[BS] 606.2.4 Flood hazard areas. <u>See Chapter 19 of the <i>City Code</i>. In <i>flood hazard areas</i>, buildings that have sustained <i>substantial damage</i> shall be brought into compliance with Section 1612 of the <i>International Building Code</i>, or Section R322 of the <i>International Residential Code</i>, as applicable.</u></p>			<p>Previous Houston amendment removed as it's no longer needed in this chapter.</p>
<p>609.2 Water closet replacement. The maximum water consumption flow rates and quantities for all replaced water closets shall be 4.6 <u>1.28</u> gallons (64.85 L) per flushing cycle.</p> <p>Exception: Blowout design water closets [3.5 gallons (13 L) per flushing cycle].</p> <p>Moved to Section 408.2</p>			<p>Previous Houston amendment removed as it's no longer needed in this chapter, and has been relocated to Section 408.2.</p>

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		<p>SECTION 701 GENERAL</p>	
<p>[BS] 701.3 Flood hazard areas. <u>See Chapter 19 of the <i>City Code</i>. In <i>flood hazard areas</i>, alterations that constitute <i>substantial improvement</i> shall require that the building comply with Section 1612 of the <i>International Building Code</i>, or Section R322 of the <i>International Residential Code</i>, as applicable.</u></p>		<p>[BS] 701.3 Flood hazard areas. <u>See Chapter 19 of the <i>City Code</i>. In <i>flood hazard areas</i>, alterations that constitute <i>substantial improvement</i> shall require that the building comply with Section 1612 of the <i>International Building Code</i>, or Section R322 of the <i>International Residential Code</i>, as applicable.</u></p>	<p>No change to Houston amendment referring flood requirements to Ch. 19 of City Code.</p>
	<p>701.4 Emergency escape and rescue openings. Emergency escape and rescue openings shall be operational from the inside of the room without the use of keys or tools. Bars, grilles, grates or similar devices placed over emergency escape and rescue openings shall comply with the minimum net clear opening size required by the code that was in effect at the time of construction. Such devices shall be releasable or removable from the inside without the use of a key, tool or force greater than that which is required for normal operation of the escape and rescue opening. Where such bars, grilles, grates or similar devices are installed, they shall not reduce the net clear opening of the emergency escape and rescue openings. Smoke alarms shall be installed in accordance with Section 907.2.10 of the International Building Code regardless of the valuation of the alteration.</p>		<p>New requirement for emergency escapes and rescue openings in Level 1 alterations.</p>
	<p>SECTION 702 BUILDING ELEMENTS AND MATERIALS</p>		

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	<p>702.1 Interior finishes. All newly newly installed interior wall and ceiling finishes shall comply with Chapter 8 of the International Building Code.</p>		<p>Edits made to clarify code, no major change to code</p>
	<p>702.3 Interior trim. All newly newly installed interior trim materials shall comply with Section 806 of the International Building Code.</p>		<p>Edits made to clarify code, no major change to code</p>
	<p>702.4 Window opening control devices on replacement windows. In Group R-2 or R-3 buildings containing dwelling units and one- and two-family dwellings and townhouses regulated by the <i>International Residential Code</i>, window opening control devices complying with ASTM F2090 shall be installed where an existing window is replaced and where all of the following apply to the replacement window:</p> <ol style="list-style-type: none"> 1. The window is operable. The window replacement includes replacement of the sash and frame. 2. One of the following applies: <ol style="list-style-type: none"> 2.1 The window replacement includes replacement of the sash and frame. 2.2 The window replacement includes the sash only where the existing frame remains. 3. One of the following applies: <ol style="list-style-type: none"> 3.1 In Group R-2 or R-3 buildings containing dwelling units, the top bottom of the sill clear opening clear opening of the window opening is at a height less than 36 inches (915 mm) above the finished floor. 3.2 In one- and two-family dwellings and townhouses regulated by the International Residential Code, the top sill bottom of the clear opening of the window opening is at a height less than 24 inches (610 mm) above the finished floor. 4. The window will permit openings that will allow passage of a 4-inch diameter (102 mm) sphere when the window is in its largest opened position. 5. The vertical distance from the top bottom of the sill clear opening clear opening of the window opening to the finished grade or other surface below, on the exterior or the building, is greater than 72 inches (1829 mm). <p>The window opening control device, after operation to release the control device allowing the window to fully open, shall not reduce the minimum net clear opening area of the window unit to less than the area required by Section 1030.2 of the International Building Code.</p>		<p>Edits made to clarify code, no major change to code. Minor updates to base code requirements for window opening devices.</p>

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	<p>Exception: Operable windows where the top <u>bottom</u> of the sill <u>clear opening</u> 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 F2006.</p> <p>Operable windows with openings that are provided with window fall prevention devices that comply with F2090-17.</p>		<p>Edits made to clarify code, no major change to code</p>
	<p>702.5 Replacement window for Emergency escape and rescue openings. Where windows are required to provide <i>emergency escape and rescue openings</i> in Group R-2 and R-3 occupancies and one- and two-family dwellings and townhouses regulated by the <i>International Residential Code</i>, replacement windows shall be exempt from the requirements of Section 1031.3, 1030.3 and 1031.3 of the <i>International Building Code</i> and Sections R310.2.1, R310.2.2 and R310.2.3 <u>Section R310.2</u> and R310.4 of the <i>International Residential Code</i>, provided that the replacement window meets the following conditions:</p> <ol style="list-style-type: none"> 1. 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 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. 2. <u>Where the replacement window is part of the change of occupancy it shall comply with Section 1011.5.6.</u> <p>Window opening control devices complying with ASTM F2090 shall be permitted for use on windows required to provide emergency escape and rescue openings.</p>		<p>Edits made to clarify code, no major change to code</p>
	<p>702.5.1 Control devices. <u>Window opening control devices or fall prevention devices complying with ASTM F2090 shall be permitted for use on windows required to provide emergency escape and rescue openings. After operation to release the control device allowing the window to fully open, the control device shall not reduce the net clear opening area of the window unit. Emergency escape and rescue openings shall be operational from the inside of the room without the use of keys or tools.</u></p>		<p>New requirement for window opening control devices.</p>
	<p>701.4-702.6 Emergency escape and rescue openings Bars, grilles, covers or screens. <u>Bars, grilles, grates covers, screens or similar devices are permitted to be placed over emergency escape and rescue openings, shall comply with the</u></p>		<p>Additional requirements added to window bars, grilles, and covers.</p>

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	<p><u>bulkhead enclosure or window wells that serve such openings, provided all of the following conditions are met:</u></p> <ol style="list-style-type: none"> <u>1. The minimum net clear opening size complies with the code that was in effect at the time of construction.</u> <u>2. Such devices shall be releasable or removable from the inside without the use of a key, tool or force greater than that which is required for normal operation of the escape and rescue opening.</u> <u>3. Where such devices are installed, they shall not reduce the net clear opening of the emergency escape and rescue openings.</u> <u>4. Smoke alarms shall be installed in accordance with Section 907.2.11 of the International Building Code, regardless of the valuation of the alteration</u> 		
	702.6 702.7 Materials and methods.		Base code renumbering.
	702.6.1 [FG] 702.7.1 International Fuel Gas Code.		Base code renumbering.
	SECTION 704 MEANS OF EGRESS		
	704.1.1 Projections in nursing home corridors. In Group I-2, Condition 1 occupancies, where the corridor is at least 96 inches (2438 mm) wide, projections into the corridor width are permitted in accordance with Section 407.4.3 of the International Building Code.		New requirement in nursing home corridors for egress.
	704.2 Casework. Addition, alteration or reconfiguration of nonfixed and movable cases, counters and partitions not over 5 feet 9 inches (1753 mm) in height shall maintain the required means of egress path.		New requirement for maintaining egress paths.
	704.3 Locking arrangements in educational occupancies. In Group E occupancies, Group B educational occupancies and Group I-4 occupancies, egress doors with locking arrangements designed to keep intruders from entering the room shall comply with Section 1010.2.8 of the International Building Code.		New requirement for maintaining egress paths.
	SECTION 705 ACCESSIBILITY		
	705.1 General. A facility that is altered shall comply with the applicable provisions in Section 705.1.1 through 705.1.14, and Chapter 11 of the International Building Code unless it is technically infeasible. Where compliance with this section is technically infeasible, the alteration shall provide access to the maximum extent that is technically feasible.		Previous Houston amendment removed as it's no longer needed.

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<p>{Editorial Note: REMAINDER OF SECTION 705 SHALL REMAIN AS SET FORTH IN THE 2015 IEBC AND IS NOT ADOPTED BY THIS JURISDICTION.}</p>			
	<p>SECTION 706.5 REROOFING</p>		
	<p>[BS] 706.5.1 General. Materials and methods of application used for recovering or replacing an existing roof covering shall comply with the requirements of Chapter 15 of the International Building Code.</p> <p>Exceptions:</p> <p>1. Roof replacement or roof recover of existing low-slope roof coverings. Reroofing shall not be required to meet the minimum design slope requirement of one-quarter unit vertical in 12 units horizontal (2-percent slope) in Section 1507 of the International Building Code for roofs that provide positive roof drainage.</p> <p>2. Recovering or replacing an existing roof covering shall not be required to meet the requirement for secondary (emergency overflow) drains or scuppers in Section 1502 of the International Building Code for roofs that provide for positive roof drainage. For the purposes of this exception, existing secondary drainage or scupper systems required in accordance with this code shall not be removed unless they are replaced by secondary drains or scuppers designed and installed in accordance with Section 1502 of the International Building Code.</p>		<p>Base code renumbering. New requirements for roof replacements.</p>
	<p>[BS] 706.5.2 Structural and construction loads.</p>		<p>Base code renumbering.</p>
	<p>[BS] 705.3- 705.2 Roof replacement.</p>		<p>Base code renumbering.</p>
	<p>[BS] 705.3.4 705.2.1 Roof recover.</p>		<p>Base code renumbering.</p>
	<p>[BS] 705.3.4.1 705.2.1.1 Exceptions.</p>		<p>Base code renumbering.</p>
	<p>[BS] 705.3 Roof replacement. Roof replacement shall include the removal of all existing layers of roof coverings down to the roof deck.</p> <p>Exception: Where the existing roof assembly includes an ice barrier membrane that is adhered to the roof deck, the existing ice barrier membrane shall be permitted to remain in place and covered with an additional layer of ice barrier</p>		<p>New requirements for roof replacement in Alteration Level 1.</p>

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	<p>membrane in accordance with Section 1507 of the International Building Code.</p>		
	<p>[BS] 705.32.1 Roof recover. The installation of a new roof covering over an existing roof covering shall be permitted where any of the following conditions occur:</p> <ol style="list-style-type: none"> 1. The new roof covering is installed in accordance with the roof covering manufacturer's approved instructions. 2. Complete and separate roofing systems, such as standing-seam metal roof panel systems, that are designed to transmit the roof loads directly to the building's structural system and that do not rely on existing roofs and roof coverings for support, are installed. 3. Metal panel, metal shingle and concrete and clay tile roof coverings are installed over existing wood shake roofs in accordance with Section 705.4. 4. A new protective roof coating is applied over an existing protective roof coating, a metal roof panel, metal roof shingles, mineral-surfaced roll roofing, a built-up roof, modified bitumen roofing, thermoset and thermoplastic single-plyroofing or a spray polyurethane foam roofing system. 		<p>Base code renumbering in 2021 edition. New requirements for roof covering in Alteration Level 1.</p>
	<p>[BS] 705.32.1.1 Exceptions. A roof recover shall not be permitted where any of the following conditions occur:</p> <ol style="list-style-type: none"> 1. The existing roof or roof covering is water soaked or has deteriorated to the point that the existing roof or roof covering is not adequate as a base for additional roofing. 2. The existing roof covering is slate, clay, cement or asbestos-cement tile. 3. The existing roof has two or more applications of any type of roof covering. 		<p>Base code renumbering in 2021 edition. New requirements for roof covering in Alteration Level 1.</p>
	<p>[BS] 705.4 705.3 Roof recovering.</p>		<p>Base code renumbering.</p>
	<p>[BS] 705.5 705.4 Reinstallation of materials. Existing slate, clay or cement tile shall be permitted for reinstallation, except that damaged, cracked or broken slate or tile shall not be reinstalled. Existing vent flashing, metal edgings, drain outlets, collars and metal counterflashings shall not be reinstalled where rusted, damaged, or deteriorated. Aggregate Existing ballast that is damaged, cracked or broken shall not be reinstalled. Existing aggregate surfacing materials from built-up roofs shall not be reinstalled.</p>		<p>Edits made to clarify code, no major change to code</p>

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	[BS] 705.5 Flashings.		Base code renumbering.
	<p>[BS] 706.3 Recovering versus replacement. New roof coverings shall not be installed without first removing all existing layers of roof coverings down to the roof deck where any of the following conditions occur:</p> <ol style="list-style-type: none"> 1. Where the existing roof or roof covering is water soaked or has deteriorated to the point that the existing roof or roof covering is not adequate as a base for additional roofing. 2. Where the existing roof covering is wood shake, slate, clay, cement or asbestos cement tile. 3. Where the existing roof has two or more applications of any type of roof covering. <p>Exceptions:</p> <ol style="list-style-type: none"> 1. Complete and separate roofing systems, such as standing seam metal roof systems, that are designed to transmit the roof loads directly to the building's structural system and that do not rely on existing roofs and roof coverings for support, shall not require the removal of existing roof coverings. 2. Metal panel, metal shingle and concrete and clay tile roof coverings shall be permitted to be installed over existing wood shake roofs when applied in accordance with Section 706.4. 3. The application of a new protective coating over an existing spray polyurethane foam roofing system shall be permitted without tear off of existing roof coverings. 4. Where the existing roof assembly includes an ice barrier membrane that is adhered to the roof deck, the existing ice barrier membrane shall be permitted to remain in place and covered with an additional layer of ice barrier membrane in accordance with Section 1507 of the International Building Code. 		Base code section removed.
	SECTION 707 STRUCTURAL		Base code renumbering.
	[BS] 707.1 General.		Base code renumbering.
	[BS] 707.2 Addition or replacement of roofing or replacement of equipment. Where addition or replacement of roofing or replacement of equipment results in additional dead loads, structural components supporting such reroofing or equipment shall comply with the gravity load requirements of the International Building Code. Any existing gravity load-		Base code renumbering. Edits made to clarify code, no changes to roofing requirements and exceptions

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	<p>carrying structural element for which an alteration causes an increase in design dead, live or snow load, including snow drift effects, of more than 5 percent shall be replaced or altered as needed to carry the gravity loads required by the International Building Code for new structures.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. Structural elements where the additional dead load from the roofing or equipment does not increase the force in the element by more than 5 percent. Buildings of Group R occupancy with not more than five dwelling or sleeping units used solely for residential purposes where the altered building complies with the conventional light-frame construction methods of the International Building Code or the provisions of the International Residential Code. 2. Buildings constructed in accordance with the International Residential Code or the conventional lightframe construction methods of the International Building Code and where the dead load from the roofing or equipment is not increased by more than 5 percent Buildings in which the increased dead load is due entirely to the addition of a second layer of roof covering weighing 3 pounds per square foot (0.1437 kN/m²) or less over an existing single layer of roof covering. 3. Addition of a second layer of roof covering weighing 3 pounds per square foot (0.1437 kN/m²) or less over an existing, single layer of roof covering. 		
	<p>[BS] 7076.3 Additional requirements for reroof permits.</p>		<p>Base code renumbering.</p>
	<p>[BS] 7076.3.1 Bracing for unreinforced masonry bearing wall parapets. Where a permit is issued for reroofing for more than 25 percent of the roof area of a building assigned to Seismic Design Category D, E or F that has parapets constructed of unreinforced masonry, the work shall include installation of parapet bracing to resist the reduced International Building Code level seismic forces as specified in Section 301.1.4.2 of this code, unless an evaluation demonstrates compliance of such items. Reduced seismic forces shall be permitted.</p>		<p>Base code renumbering. Edits made to clarify code, no major change.</p>
	<p>[BS] 7076.3.2 Roof diaphragms resisting wind loads in high-wind regions. Where roofing materials are removed from more than 50 percent of the roof diaphragm or section of a building located where the ultimate design wind speed, V_{ult}, determined in accordance with Figure 1609.3(1) of the <i>International Building Code</i>, is greater than 445 130 mph (58 m/s), or in a special wind region, as defined in Section 1609 of the International Building Code roof</p>	<p>[BS] 706.3.2 Roof diaphragms resisting wind loads in high-wind regions. Where roofing decking materials are removed from more than 50 percent of the roof diaphragm or section of a building located where the ultimate design wind speed, V_{ult}, determined in accordance with Figure Section 1609.3(4) of the <i>International Building Code</i>, is greater than 130 mph (58 m/s), roof diaphragms, connections of the roof diaphragm to roof framing members,</p>	<p>Base code renumbering. Edits made to clarify code, no major change. No change to Houston amendment, relocated from Section 707.3.2.</p>

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	<p>diaphragms, connections of the roof diaphragm to roof framing members, and roof-to-wall connections shall be evaluated for the wind loads specified in the <i>International Building Code</i>, including wind uplift. If the diaphragms and connections in their current condition are not capable of resisting at least 75 percent of those wind loads, they shall be replaced or strengthened in accordance with the loads specified in the <i>International Building Code</i>.</p> <p>Exception: Buildings that have been demonstrated to comply with the wind load provisions in ASCE 7-88 or later editions.</p>	<p>and roof-to-wall connections shall be evaluated for the wind loads specified in the <i>International Building Code</i>, including wind uplift. If the diaphragms and connections in their current condition are not capable of resisting at least 75 percent of those wind loads, they shall be replaced or strengthened in accordance with the loads specified in the <i>International Building Code</i>.</p> <p>Exception: Buildings that have been demonstrated to comply with the wind load provisions in ASCE 7-88 or later editions.</p>	
	<p>SECTION 707 ELECTRICAL</p> <p>707.1 Health care facilities. In Group I-2 facilities, ambulatory care facilities and outpatient clinics, any altered portion of an existing electrical systems shall be required to meet installation and equipment requirements in NFPA 99.</p>		<p>New electrical requirements for existing healthcare facilities.</p>
<p>[BS] 707.3.2 Roof diaphragms resisting wind loads in high-wind regions. Where roofing decking materials are removed from more than 50 percent of the roof diaphragm or section of a building located where the ultimate design wind speed, V_{ult}, determined in accordance with Figure Section 1609.3(4) of the <i>International Building Code</i>, is greater than 115 mph (51 m/s) or in a special wind region, as defined in Section 1609 of the <i>International Building Code</i>, roof diaphragms, connections of the roof diaphragm to roof framing members, and roof-to-wall connections shall be evaluated for the wind loads specified in the <i>International Building Code</i>, including wind uplift. If the diaphragms and connections in their current condition are not capable of resisting at least 75 percent of those wind loads, they shall be replaced or strengthened in accordance with the loads specified in the <i>International Building Code</i>.</p>			<p>Previous Houston amendment relocated to Section 706.3.2, no changes.</p>
	<p>SECTION 708 708 708 ENERGY CONSERVATION</p>		<p>Base code renumbering.</p>
	<p>708 708.1 Minimum requirements. Level 1 alterations to existing buildings or structures are permitted without requiring do not require the entire building or structure to comply with the energy requirements of the International Energy Conservation Code or International Residential Code. The alterations shall conform to the energy requirements of the International Energy Conservation Code or International Residential Code as they relate to new construction only.</p>		<p>Edits made to clarify code, no major change to code</p>

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	SECTION 801 GENERAL		
	<p>801.1 Scope. <u>Level 2 alterations as described in Section 504</u> 603 shall comply with the requirements of this chapter.</p> <p>Exception: Buildings in which the reconfiguration is exclusively the result of compliance with the accessibility requirements of Section 705.2 805.7 shall be permitted to comply with Chapter 7.</p>		Base code renumbering.
	<p>801.3 Compliance. All New construction elements, components, systems, and spaces shall comply with the requirements of the International Building Code.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. Where Where windows may be are added without requiring compliance they are not required to comply with the light and ventilation requirements of the International Building Code. 2. Newly installed electrical equipment shall comply with the requirements of Section 808.7. 3. <u>The length of dead-end corridors in newly constructed spaces shall only be required to comply with the provisions of Section 805.6.</u> 4. <u>The minimum ceiling height of the newly created habitable and occupiable spaces and corridors shall be 7 feet (2134 mm).</u> 5. Where provided in below-grade transportation stations, existing and new escalators shall be permitted to have a clear width of less than 32 inches (815 mm). 6. New structural members and connections shall be permitted to comply with alternative design criteria in accordance with Section 302. 		Edits made to clarify code, no major change.
	<p>801.3 System installations. Requirements related to work area are not applicable where the Level 2 alterations are limited solely to one or more of the following:</p> <ol style="list-style-type: none"> 1. Mechanical systems, electrical systems, fire protection systems and abatement of hazardous materials. 2. Windows, hardware, operating controls, electrical outlets and signs. 3. Alterations undertaken for the primary purpose of increasing the accessibility of a facility. 		New requirements for building system alterations in Level 2 Alterations.

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	801.3 801.4 Compliance.		Base code renumbering.
	<p>SECTION 802 SPECIAL USE AND OCCUPANCY</p> <p>802.1 General. Alteration of buildings classified as special use and occupancy as described in the International Building Code shall comply with the requirements of Section 801.1 and the scoping provisions of Chapter 1 where applicable.</p>		Base code section removed.
	<p>SECTION 8032 BUILDING ELEMENTS AND MATERIALS</p>		Base code renumbering.
	8032.1 Scope.		Base code renumbering.
	8032.2 Vertical openings. Existing vertical openings shall comply with the provisions of Sections 8032.2.1 , 8032.2.2 and 8032.2.3 .		Base code renumbering.
	<p><i>Exception numbers not shown below remain as is in the base code.</i></p> <p>8032.2.1 Existing vertical openings. All e Existing interior vertical openings connecting two or more floors shall be enclosed with approved assemblies having a fire-resistance rating of not less than 1 hour with approved opening protectives.</p> <p>Exceptions:</p> <p style="padding-left: 40px;">3.2.3. The entire area is open and unobstructed in a manner such that it may be is reasonable to assumed that a fire in any part of the interconnected spaces will be readily obvious to all of the occupants.</p> <p style="padding-left: 40px;">3.2.5. Each floor level, considered separately, has at least not less than one-half of its individual required exit capacity provided by an exit or exits leading directly out of that level without having to traverse another communicating floor level or be</p>		Base code renumbering, minor updates to clarify code intent.

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	<p>exposed to the smoke or fire spreading from another communicating floor level.</p> <p>6. In Group E occupancies, the enclosure shall not be required for vertical openings not exceeding three stories where the building is protected throughout by an approved automatic fire sprinkler system.</p> <p>7.2. Special -purpose occupancies where necessary for manufacturing operations and direct access is provided to at least not fewer than one protected stairway.</p> <p>8. In Group H occupancies, the enclosure shall not be required for vertical openings not exceeding three stories where necessary for manufacturing operations and every floor level has direct access to at least not fewer than two remote enclosed stairways or other approved exits.</p> <p>9. In Group M occupancies, a minimum 30-minute enclosure shall be provided to protect all vertical openings not exceeding three stories. This enclosure, or the enclosure specified in Section 8032.2.1, shall not be required in the following locations:</p> <p>10.2. Buildings with less than 25 dwelling units or sleeping units where every sleeping room above the second floor is provided with direct access to a fire escape or other approved second exit by means of an approved exterior door or window having a sill height of not greater than 44 inches (1118 mm) and where both of the following conditions are met:</p> <p>10.2.1. Any exit access corridor exceeding 8 feet (2438 mm) in length that serves two means of egress, one of which is an unprotected vertical opening, shall have at least not fewer than one of the means of egress separated from the vertical opening by a 1-hour fire barrier; and</p> <p>11. In Group R-2 occupancies, a minimum 30-minute enclosure shall be provided to protect all vertical openings not exceeding three stories. This enclosure, or the enclosure specified in Section 8032.2.1, shall not be required in the following locations:</p>		
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	<p>8032.2.2 Supplemental shaft and floor opening enclosure requirements. Where the work area on any floor exceeds 50 percent of that floor area, the enclosure requirements of Section 8032.2 shall apply to vertical openings other than stairways throughout the floor</p>		Base code renumbering.
	<p>8032.2.3 Supplemental stairway enclosure requirements.</p>		Base code renumbering.
	<p>8032.3 Smoke compartments.</p>		Base code renumbering.
	<p>8032.4 Interior finish.</p>		Base code renumbering.
	<p>802.3 Smoke compartments. In Group I-2 occupancies where the work area is on a story used for sleeping rooms for more than 30 patients care recipients, the story shall be divided into not less than two compartments by smoke barrier walls in accordance with Section 407.5 of the <i>International Building Code</i> as required for new construction.</p>		Edits made to clarify code, no major change to code.
	<p>802.4 Interior finish. The interior finish and trim of walls and ceilings in exits and corridors in any work area shall comply with the requirements of the <i>International Building Code</i>.</p> <p>Exception: Existing interior finish materials that do not comply with the interior finish requirements of the International Building Code shall be permitted to be treated with an approved fire-retardant coating in accordance with the manufacturer's instructions to achieve the required rating classification. Compliance with this section shall be demonstrated by testing the fire-retardant coating on the same material and achieving the required performance. Where the same material is not available, testing on a similar material shall be permitted.</p>		Edits made to clarify code, no major change.
	<p>8032.4.1 Supplemental interior finish requirements. Where the work area on any floor exceeds 50 percent of the floor area, Section 8032.4 shall also apply to the interior finish and trim in exits and corridors serving the work area throughout the floor.</p>		Base code renumbering. Edits made to clarify code, no major change.
	<p>8032.5 Guards. The requirements of Sections 8032.5.1 and 8032.5.2 shall apply in all work areas.</p>		Base code renumbering.
	<p>8032.5.1 Minimum requirement.</p> <p>8032.5.2 Design.</p> <p>8032.6 Fire-resistance ratings.</p>		Base code renumbering.
	<p>SECTION 8043 FIRE PROTECTION</p>		Base code renumbering.

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	8043.1 Scope		Base code renumbering.
	8043.1.1 Corridor ratings		Base code renumbering.
	8043.2 Automatic sprinkler systems. Automatic sprinkler systems shall be provided in accordance with the requirements of Sections 8043.2.1 through 8043.2.54. Installation requirements shall be in accordance with the International Building Code.		Base code renumbering.
	8043.2.1 High-rise buildings.		Base code renumbering.
	8043.2.1.1 Supplemental automatic sprinkler system requirements. Where the work area on any floor exceeds 50 percent of that floor area, Section 8043.2.1 shall apply to the entire floor on which the work area is located	803.2.1.1 Supplemental automatic sprinkler system requirements. Where the <i>work area</i> on any floor exceeds 50 percent of that floor area, Section 803.2.1 shall apply to the entire floor on which the <i>work area</i> is located. Exception: Occupied tenant spaces that are entirely outside the work area.	Base code renumbering. No change to Houston Amendment, relocated from Section 804.2.1.1.
	8043.2.2 Groups A, B, E, F-1, H, I, M, R-1, R-2, R-4, S-1 and S-2. In buildings with 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 have exits or corridors shared by more than one tenant or that have exits or corridors serving an occupant load greater than 30 shall be provided with automatic sprinkler protection where all both of the following conditions occur:		Base code renumbering, minor wordsmithing.
	8043.2.2.1 Mixed uses. In work areas containing mixed uses, one or more of which requires automatic sprinkler protection in accordance with Section 8043.2.2, such protection shall not be required throughout the work area provided that the uses requiring such protection are separated from those not requiring protection by fire-resistance-rated construction having a minimum 2-hour rating for Group H and a minimum 1-hour rating for all other occupancy groups.		Base code renumbering.
	803.2.2 Groups A, B, E, F-1, H, I-1, I-3, I-4, M, R-1, R-2, R-4, S-1 and S-2. In buildings with occupancies in Groups A, B, E, F-1, H, I-1, I-3, I-4, M, R-1, R-2, R-4, S-1 and S-2, <i>work areas</i> that have exits or corridors shared by more than one tenant or that have exits or corridors serving an occupant load greater than 30 shall be provided with automatic sprinkler protection where both of the following conditions occur: 1. The <i>work area</i> is required to be provided with automatic sprinkler protection in accordance with the <i>International Building Code</i> as applicable to new construction. 2. The <i>work area</i> exceeds 50 percent of the floor area.		Edits made to clarify code, no major change.

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	<p>803.2.3 Group I-2. In Group I-2 occupancies, an automatic sprinkler system installed in accordance with Section 903.3.1.1 of the <i>International Fire Code</i> shall be provided in the following:</p> <ol style="list-style-type: none"> 1. In Group I-2, Condition 1, throughout the <i>work area</i>. 2. In Group I-2, Condition 2, throughout the <i>work area</i> where the <i>work area</i> is 50 percent or less of the smoke compartment. 3. In Group I-2, Condition 2, throughout the smoke compartment in which the work occurs where the <i>work area</i> exceeds 50 percent of the smoke compartment. 		<p>New sprinkler requirements for I-2 healthcare facilities.</p>
	<p>8043.2.3 803.2.4 Windowless stories.</p>		<p>Base code renumbering.</p>
	<p>803.2.5 Other required automatic sprinkler systems. In buildings and areas listed in Table 903.2.11.6 of the <i>International Building Code</i>, <i>work areas</i> that have exits or corridors shared by more than one tenant or that have exits or corridors serving an occupant load greater than 30 shall be provided with an automatic sprinkler system under the following conditions:</p> <ol style="list-style-type: none"> 1. The <i>work area</i> is required to be provided with an automatic sprinkler system in accordance with the International Building Code applicable to new construction; and 2. The building has sufficient municipal water supply for design of an automatic sprinkler system available to the floor without installation of a new fire pump. 		<p>New sprinkler requirements for work areas shared by more than one tenant.</p>

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	<p>8043.2.54 803.2.6 Supervision. Fire sprinkler systems required by this section shall be supervised by one of the following methods:</p> <ol style="list-style-type: none"> 1. <i>Approved</i> central station system in accordance with NFPA 72. 2. <i>Approved</i> proprietary system in accordance with NFPA 72. 3. <i>Approved</i> remote station system of the jurisdiction in accordance with NFPA 72. 4. Where re approved by the <i>code official</i>, <i>approved</i> local alarm service that will cause the sounding of an alarm in accordance with NFPA 72. <p>Exception: Supervision is not required for the following:</p> <ol style="list-style-type: none"> 1. Underground gate valve key or hub gate valves in roadway boxes. 2. Halogenated extinguishing systems. 3. Carbon dioxide extinguishing systems. 4. Dry- and wet-chemical extinguishing systems. 5. Automatic sprinkler systems installed in accordance with NFPA 13R where a common supply main is used to supply both domestic and automatic sprinkler systems and a separate shutoff valve for the automatic sprinkler system is not provided. 		<p>Base code renumbering. Edits made to clarify code, no major change.</p>
	<p>8043.3 Standpipes. Where the work area includes exits or corridors shared by more than one tenant and is located more than 50 feet (15 240 mm) above or below the lowest level of fire department access, a standpipe system shall be provided. Standpipes shall have an approved fire department connection with hose connections at each floor level above or below the lowest level of fire department access. Standpipe systems shall be installed in accordance with the International Building Code.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. No A pump shall not be required provided that the standpipes are capable of accepting delivery by fire department apparatus of a minimum of not less than 250 gallons per minute (gpm) at 65 pounds per square inch (psi) (946 L/m at 448KPa) to the topmost floor in buildings equipped throughout with an automatic sprinkler system or a minimum of not less than 500 gpm at 65 psi (1892 L/m at 448KPa) to the topmost floor in all other buildings. Where the standpipe terminates below the topmost floor, the standpipe shall be designed to meet (gpm/psi) (L/m/KPa) requirements of this exception for 		<p>Base code renumbering. Edits made to clarify code, no major change to code</p>

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	<p>possible future extension of the standpipe.</p> <p>2. The interconnection of multiple standpipe risers shall be required.</p>		
	8043.4 Fire alarm and detection		Numbering
	8043.4.1 Occupancy requirements.		Numbering
	803.4.1.2 Group I-1. An automatic fire alarm system shall be installed in <i>work areas</i> of Group I-1 residential care/assisted living facilities as required by Chapter 11 of the International Fire Code for existing Group I-1 occupancies.		Edits made to clarify code, no major change.
	803.4.1.3 Group I-2. An automatic fire alarm system shall be installed throughout Group I-2 occupancies as required by Chapter 11 of the International Fire Code.		Edits made to clarify code, no major change.
	803.4.3 Smoke alarms. Individual sleeping units and individual dwelling units in any work area in Group R and I-1 occupancies shall be provided with smoke alarms in accordance with the International Fire Code. Exception: Interconnection of smoke alarms outside of the work area shall not be required.		
803.6 Fire-resistance rating. Where approved by the code building official, buildings where an automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2 of the International Building Code has been added, and the building is now sprinklered throughout, the required fire-resistance ratings of building elements and materials shall be permitted to meet the <u>automatic sprinkler system</u> requirements of the current building code. The building is required to meet the other applicable requirements of the International Building Code .			
Plans, investigation and evaluation reports, and other data shall be submitted indicating which building elements and materials the applicant is requesting the code building official to review and approve for determination of applying the current building code fire-resistance ratings. Any special construction features, including fire-resistance-rated assemblies and smoke-resistive assemblies, conditions of occupancy, means-of-egress conditions, fire code deficiencies, approved modifications or approved alternative materials, design and methods of construction, and equipment applying to the building that impact required fire-resistance ratings shall be identified in the evaluation reports submitted.			Previous Houston amendment removed as it's no longer needed.

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	804.4.1.7 Group R-4. A fire alarm system shall be installed in work areas of Group R-4 residential care/assisted living facilities as required by the International Fire Code for existing Group R-4 occupancies.		Base code section removed.
	SECTION 804 CARBON MONOXIDE DETECTION		Base code section removed and relocated to Chapter 3.
	804.1 Carbon monoxide alarms. Any work area in Group I-1, I-2, I-4 and R occupancies shall be equipped with carbon monoxide alarms in accordance with Section 1103.9 of the International Fire Code. Exceptions: 1. Work involving the exterior surfaces of buildings, such as the replacement of roofing or siding, the addition or replacement of windows or doors, or the addition of porches or decks. 2. Installation, alteration or repairs of plumbing or mechanical systems, other than fuel-burning appliances		Base code section removed and relocated to Chapter 3.
804.2.1.1 Supplemental automatic sprinkler system requirements. Where the <i>work area</i> on any floor exceeds 50 percent of that floor area, Section 804.2.1 shall apply to the entire floor on which the <i>work area</i> is located. Exception: Occupied tenant spaces that are entirely outside the work area.			Previous Houston amendment relocated to Section 803.2.1.1, no changes.
	SECTION 805 804 MEANS OF EGRESS	SECTION 804 MEANS OF EGRESS	Base code renumbering.
	805.1 804.1 Scope.		Base code renumbering.
	805.2 804.2 General. The means of egress shall comply with the requirements of this section. Exceptions: 1. Where the work area and the means of egress serving it complies with NFPA 101. 2. Means of egress conforming to complying with the requirements of the building code under which the building was constructed shall be considered to be compliant means of egress if, in the opinion of the code official, they do not constitute a distinct hazard to life.		Base code renumbering. Edits made to clarify code, no major change.

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	<p>804.3 Group I-2. In Group I-2 occupancies, in areas where corridors are used for movement of care recipients in beds, the clear width of ramps and corridors shall be not less than 48 inches (1219 mm).</p>		<p>New Group I-2 healthcare facility requirements.</p>
	<p>805-3-804.4 Number of exits.</p>		<p>Base code renumbering.</p>
	<p>805.3.1-804.4.1 Minimum number.</p>		<p>Base code renumbering.</p>
	<p>805.3.1.1 804.4.1.1 Single-exit buildings. Only one exit is required from buildings and spaces of the following occupancies. A single exit or access to a single exit shall be permitted from spaces, any story or any occupied roof where one of the following conditions exists:</p> <ol style="list-style-type: none"> 1. In Group A, B, E, F, M, U and S occupancies, a single exit is permitted in the story at the level of exit discharge when the occupant load of the story does not exceed 50 and the exit access travel distance does not exceed 75 feet (22 860 mm). The occupant load, number of dwelling units and exits access travel distance do not exceed the values in Table 804.4.1.1(1) or Table 804.4.1.1(2). 2. Group B, F-2, and S-2 occupancies not more than two stories in height that are not greater than 3,500 square feet per floor (326 m²), when the exit access travel distance does not exceed 75 feet (22 860 mm). The minimum fire resistance rating of the exit enclosure and of the opening protection shall be 1 hour. In Group R-1 or R-2, non-sprinklered buildings without an approved automatic sprinkler system, individual single-story or multiple-story dwelling or sleeping units shall be permitted to have a single exit or access to a single exit from the dwelling or sleeping unit provided one of the following criteria are met: <ol style="list-style-type: none"> 2.1 The occupant load is not greater than 10 and the exit access travel distance within the unit does not exceed 75 feet (22 860 mm). 2.2 The building is not more than three stories in height; all third-story space is part of dwelling with an exit access doorway on the second story; and the portion of the exit access travel distance from the door to any habitable room within any such unit to the unit entrance doors 		<p>Updated requirements for single-exit buildings undergoing Level 2 alterations.</p>

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	<p>does not exceed 50 feet (15 240 mm).</p> <p>3. Open parking structures where vehicles are mechanically parked. In buildings of Group R-2 occupancy of any number of stories with not more than four dwelling units per floor served by an interior exit stairway; with a smokeproof enclosure in accordance with Sections 909.20 and 1023.12 of the <i>International Building Code</i> for an exterior stairway as an exit; and where the portion of the exit access travel distance from the dwelling unit entrance door to the exit is not greater than 20 feet (6096 mm).</p> <p>4. In Group R-4 occupancies, the maximum occupant load excluding staff is 16.</p> <p>5. Groups R-1 and R-2 not more than two stories in height, when there are not more than four dwelling units per floor and the exit access travel distance does not exceed 50 feet (15 240 mm). The minimum fire resistance rating of the exit enclosure and of the opening protection shall be 1 hour.</p> <p>6. In multilevel dwelling units in buildings of occupancy Group R-1 or R-2, an exit shall not be required from every level of the dwelling unit provided that one of the following conditions is met:</p> <p>6.1. The travel distance within the dwelling unit does not exceed 75 feet (22 860 mm); or</p> <p>6.2. The building is not more than three stories in height and all third-floor space is part of one or more dwelling units located in part on the second floor; and no habitable room within any such dwelling unit shall have a travel distance that exceeds 50 feet (15 240 mm) from the outside of the habitable room entrance door to the inside of the entrance door to the dwelling unit.</p> <p>7. In Group R-2, H-4, H-5 and I occupancies and in rooming houses and child care centers, a single exit is permitted in a one-story building with a maximum occupant load of 10 and the exit access travel distance does not exceed 75 feet (22 860 mm).</p> <p>8. In buildings of Group R-2 occupancy that are equipped throughout with an automatic fire sprinkler system, a single exit shall be permitted from a basement or story below grade if every dwelling unit on that floor is equipped with an approved window providing a clear opening of at</p>		
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	<p>least 5 square feet (0.47 m2) in area, a minimum net clear opening of 24 inches (610 mm) in height and 20 inches (508 mm) in width, and a sill height of not more than 44 inches (1118 mm) above the finished floor.</p> <p>9. In buildings of Group R-2 occupancy of any height with not more than four dwelling units per floor; with a smokeproof enclosure or outside stairway as an exit; and with such exit located within 20 feet (6096 mm) of travel to the entrance doors to all dwelling units served thereby.</p> <p>10. In buildings of Group R-3 occupancy equipped throughout with an automatic fire sprinkler system, only one exit shall be required from basements or stories below grade</p>		
	<p>TABLE 805.3.1.1.1 TABLE 804.4.1.1(1) STORIES WITH ONE EXIT OR ACCESS TO ONE EXIT FOR R-2 OCCUPANCIES</p> <p>a. Group R-2, nonsprinklered <u>without an approved automatic sprinkler system</u> and provided with emergency escape and rescue openings in accordance with Section 1031 of the <i>International Building Code</i>.</p>		Base code renumbering. Edits made to clarify code, no major change.
	<p>TABLE 805.3.1.1(2) TABLE 804.4.1.1(2) STORIES WITH ONE EXIT OR ACCESS TO ONE EXIT FOR OTHER OCCUPANCIES</p>		Base code renumbering. Edits made to clarify code, no major change.
	<p>805.3.1.2 804.4.1.2 Fire escapes required.</p>		Base code renumbering.
	<p>805.3.1.2.1 804.4.1.2.1 Fire escape access and details.</p>		Base code renumbering.
	<p>805.3.1.2.2 804.4.1.2.2 Construction.</p>		Base code renumbering.
	<p>805.3.1.2.3 804.4.1.2.3 Dimensions. Stairways shall be at least not less than 22 inches (559 mm) wide with risers not more than, and treads not less than, 8 inches (203 mm). Landings at the foot of stairways shall be not less than 40 inches (1016 mm) wide by 36 inches (914 mm) long and located not more than 8 inches (203 mm) below the door</p>		Base code renumbering. Edits made to clarify code, no major change.
	<p>805.3.2 804.4.2 Mezzanines. Mezzanines in the work area and with an occupant load of more than 50 or in which the travel distance to an exit exceeds 75 feet (22 860 mm) shall have access to at least not fewer than two independent means of egress.</p> <p>Exception: Two independent means of egress are not required where the travel distance to an exit does not</p>		Base code renumbering. Edits made to clarify code, no major change.

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	<p>exceed 100 feet (30 480 mm) and the building is protected throughout with an automatic sprinkler system.</p>		
	<p>805.3.3 804.4.3 Main entrance – Group A. All buildings of Group A with an occupant load of 300 or more shall be provided with a main entrance capable of serving as the main exit with an egress capacity of at least not less than one-half of the total occupant load. The remaining exits shall be capable of providing one-half of the total required exit capacity.</p> <p>Exception: Where there is no well defined main exit a main is not well defined or where multiple main exits are provided, exits shall be permitted to be distributed around the perimeter of the building provided that the total width of egress is not less than 100 percent of the required width</p>		<p>Base code renumbering. Edits made to clarify code, no major change.</p>
	<p>805.4 804.5 Egress doorways.</p>		<p>Base code renumbering.</p>
	<p>805.4.1 804.5.1 Two egress doorways required.</p>		<p>Base code renumbering.</p>
	<p>805.4.1.1 804.5.1.1 Occupant load and travel distance. In any work area, all rooms and spaces having an occupant load greater than 50 or in which the travel distance to an exit exceeds 75 feet (22 860 mm) shall have a minimum of not fewer than two egress doorways.</p>		<p>Base code renumbering. Edits made to clarify code, no major change.</p>
	<p>805.4.1.2 804.5.1.2 Group I-2. In Group I-2, Condition 2 work areas that include altered care suites shall comply with Sections 407.4.4 through 407.4.4.6.2 of the International Building Code.</p>		<p>New requirements for I-2 healthcare facilities.</p>
	<p>805.4.2 804.5.2 Door swing.</p>		<p>Base code renumbering.</p>
	<p>805.4.2.1 804.5.2.1 Supplemental requirements for door swing.</p>		<p>Base code renumbering.</p>
	<p>805.4.3 804.5.3 Door Closing</p>		<p>Base code renumbering.</p>
	<p>805.4.3.1 804.5.3.1 Supplemental requirements for door closing.</p>		<p>Base code renumbering.</p>

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	<p>805.4.4 804.5.4 Panic and fire exit hardware. In any <i>work area</i>, and in the egress path from any <i>work area</i> to the exit discharge, in buildings or portions thereof of Group A assembly occupancies with an occupant load greater than 100, all required exit doors equipped with latching devices shall be equipped with <i>approved panic hardware or fire exit hardware in accordance with Section 1010.2.9 of the International Building Code.</i></p>		Base code renumbering. Edits made to clarify code, no major change.
	<p>805.4.4.1 804.5.4.1 Supplemental requirements for panic hardware.</p>		Base code renumbering.
	<p>805.4.5 804.5.5 Emergency power source in Group I-3.</p>		Base code renumbering.
	<p>805.5 804.6 Openings in corridor walls.</p>		Base code renumbering.
	<p>805.5.1 804.6.1 Corridor doors. Corridor doors in the work area shall not be constructed of hollow core wood and shall not contain louvers. All d Dwelling unit or sleeping unit corridor doors in work areas in buildings of Groups R-1, R-2, and I-1 shall be at least not less than 1 3/8-inch (35 mm) solid core wood or approved equivalent and shall not have any glass panels, other than approved wired glass or other approved glazing material in metal frames. All d Dwelling unit or sleeping unit corridor doors in work areas in buildings of Groups R-1, R-2, and I-1 shall be equipped with approved door closers. All R Replacement doors shall be 1 3/4-inch (44 mm) solid bonded wood core or approved equivalent, unless the existing frame will accommodate only a 1 3/8-inch(35 mm) door.</p> <p>Exceptions:</p> <p>4. In group homes with a maximum of not more than 15 occupants and that are protected with an approved automatic detection system, closing devices may be omitted are not required.</p> <p>5. Door assemblies having a fire protection rating of at least not less than 20 minutes.</p>		Base code renumbering. Edits made to clarify code, no major change.
	<p>805.5.2 804.6.2 Transoms.</p>		Base code renumbering.
	<p>805.5.3 804.6.3 Other corridor openings. In any <i>work area</i>, unless protected in accordance with Section 716 of the International Building Code, any other sash, grille or opening in a corridor, and any window in a corridor not opening to the outside air, shall be sealed with materials consistent with the corridor construction.</p>		Base code renumbering. Edits made to clarify code, no major change.

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	<p>805.5.3.1 804.6.3.1 Supplemental requirements for other corridor opening.</p>		<p>Base code renumbering.</p>
	<p>805.5.4 804.6.4 Supplemental requirements for corridor openings.</p>		<p>Base code renumbering.</p>
<p>805.6 Dead-end corridors. Dead-end corridors in any work area shall not exceed 35 20 feet (40 670 6096 mm).</p> <p>Exceptions:</p> <ol style="list-style-type: none"> Where dead-end corridors of greater length are permitted by the <i>International Building Code</i>. In other than Group A and H occupancies, the maximum length of an existing dead-end corridor shall be 50 feet (15 240 mm) in buildings equipped throughout with an automatic fire alarm system installed in accordance with the <i>International Building Code</i>. 2. In other than Group A and H occupancies, the maximum length of an existing dead-end corridor shall be 70 50 feet (21,356 15,240 mm) in buildings equipped throughout with an automatic sprinkler system installed in accordance with the <i>International Building Code</i>. 3. In other than Group A and H occupancies, the maximum length of an existing, newly constructed, or extended dead-end corridor shall not exceed 50 feet (15 240 mm) on floors equipped with an automatic sprinkler system installed in accordance with the <i>International Building Code</i>. 	<p>805.6 804.7 Dead-end corridors. Dead-end corridors in any work area shall not exceed 35 feet (10 670 mm). In Group I-2 occupancies, dead-end corridors shall not exceed 30 feet (9144 mm).</p> <p>Exceptions:</p> <ol style="list-style-type: none"> Where dead-end corridors of greater length are permitted by the <i>International Building Code</i>. In other than Group A, I-2 and H occupancies, the maximum length of an existing dead-end corridor shall be 50 feet (15 240 mm) in buildings equipped throughout with an automatic fire alarm system installed in accordance with the <i>International Building Code</i>. In other than Group A, I-2 and H occupancies, the maximum length of an existing dead-end corridor shall be 70 feet (21 356 mm) in buildings equipped throughout with an automatic sprinkler system installed in accordance with the <i>International Building Code</i>. In other than Group A, I-2 and H occupancies, the maximum length of an existing, newly constructed, or extended dead-end corridor shall not exceed 50 feet (15 240 mm) on floors equipped with an automatic sprinkler system installed in accordance with the <i>International Building Code</i>. 	<p>804.7 Dead-end corridors. Dead-end corridors in any work area shall not exceed 35 20 feet (40 670 6096 mm). In Group I-2 occupancies, dead-end corridors shall not exceed 30 feet (9144 mm).</p> <p>Exceptions:</p> <ol style="list-style-type: none"> Where dead-end corridors of greater length are permitted by the <i>International Building Code</i>. In other than Group A, I-2 and H occupancies, the maximum length of an existing dead-end corridor shall be 50 feet (15 240 mm) in buildings equipped throughout with an automatic fire alarm system installed in accordance with the <i>International Building Code</i>. 2. In other than Group A, I-2 and H occupancies, the maximum length of an existing dead-end corridor shall be 70 50 feet (21,356 15 240 mm) in buildings equipped throughout with an automatic sprinkler system installed in accordance with the <i>International Building Code</i>. 3. In other than Group A, I-2 and H occupancies, the maximum length of an existing, newly constructed, or extended dead-end corridor shall not exceed 50 feet (15 240 mm) on floors equipped with an automatic sprinkler system installed in accordance with the <i>International Building Code</i>. 	<p>Base code renumbering. Edits made to clarify code, no major change.</p> <p>No changes to Houston amendment, relocated from Section 805.6.</p>

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	805.7 804.8 Means-of-egress lighting.		Base code renumbering.
	805.7.1 804.8.1 Artificial lighting required.		Base code renumbering.
	805.7.2 804.8.2 Supplemental requirements for means-of-egress lighting.		Base code renumbering.
	805.8 804.9 Exit signs.		Base code renumbering.
	805.8.1 804.9.1 Work areas.		Base code renumbering.
	805.8.2 804.9.2 Supplemental requirements for exit signs.		Base code renumbering.
	805.9 804.10 Handrails.		Base code renumbering.
	805.9.1 804.10.1 Minimum requirement. Every required exit stairway that is part of the means of egress for any work area and that has three or more risers and is not provided with at least not fewer than one handrail, or in which the existing handrails are judged to be in danger of collapsing, shall be provided with handrails for the full length of the stairway on at least not fewer than one side. All exit stairways with a required egress width of more than 66 inches (1676 mm) shall have handrails on both sides		Base code renumbering. Edits made to clarify code, no major change.
	805.9.2 804.10.2 Design.		Base code renumbering.
	805.10 804.11 Refuge areas. Where alterations affect the configuration of an area utilized as a refuge area, the capacity of the refuge area shall not be reduced below the required capacity of the refuge area for horizontal exits in accordance with Section 1026.4 of the International Building Code. Where the horizontal exit also forms a smoke compartment, the capacity of the refuge area for Group I-1, I-2 and I-3 occupancies and Group B ambulatory care facilities shall not be reduced below that required in Section 804.10.1 and 804.10.2 Sections 407.5.3, 408.6.2, 420.6.1 and 422.3.2 of the <i>International Building Code</i> , as applicable.		Edits made to clarify code, changes to refuge areas.
	805.11 804.12 Guards.		Base code renumbering.

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	805.11.1 804.12.1 Minimum requirement.		Base code renumbering.
	805.11.2 804.12.2 Design.		Base code renumbering.
		804.13 Stair construction. All required stairs shall have a minimum run of 9 inches (229 mm) and a maximum rise of 8 inches (203 mm) and shall have a minimum width of 30 inches (762 mm) exclusive of handrails. Every stairway shall have at least one handrail. A landing having a minimum 30-inch (762 mm) run in the direction of travel shall be provided at each point of access to the stairway. <u>Exception:</u> Fire escapes as provided for in this section. <u>Exterior stairs shall be of noncombustible construction.</u> <u>Exception:</u> On buildings of Types III, IV and V construction, provided the exterior stairs are constructed of wood of not less than 2-inch (51 mm) nominal thickness.	No change to Houston amendment, relocated from Section 805.12.
	SECTION 806 ACCESSIBILITY 806.1 General. A building, facility, or element that is altered shall comply with this section and Section 705.		Base code sections removed.
806.2 Stairways and escalators in existing buildings. In alterations where an escalator or stairway is added where none existed previously, an accessible route shall be provided in accordance with Sections 1104.4 and 1104.5 of the <i>International Building Code</i> .	806.2 Stairways and escalators in existing buildings. In alterations where an escalator or stairway is added where none existed previously, an accessible route shall be provided in accordance with Sections 1104.4 and 1104.5 of the <i>International Building Code</i> .		Base code sections removed. Previous Houston amendment removed.
	SECTION 807 806 805 STRUCTURAL		
	[BS] 806.4 805.1 General.		Base code renumbering.
	[BS] 806.2 805.2 Existing structural elements carrying gravity loads. Any existing gravity load-carrying structural element for which an alteration causes an increase in design dead, live or snow load, including snow drift effects, of more than 5 percent shall be replaced or altered as needed to carry the gravity loads required by the International Building Code for new structures. Any existing gravity load-carrying structural element whose gravity load-carrying capacity is decreased as part of the alteration shall be shown to have the capacity to resist the applicable design dead, live and snow loads, including snow drift effects, required by the International Building Code for new structures. Exceptions:		Structural requirements relocated, includes new clarifying language and new exception.

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	<p>1. Buildings of Group R occupancy with not more than five dwelling or sleeping units used solely for residential purposes where the altered building complies with the conventional light-frame construction methods of the International Building Code or the provisions of the International Residential Code.</p> <p>2. Buildings in which the increased dead load is attributable to the addition of a second layer of roof covering weighing 3 pounds per square foot (0.1437 kN/m²) or less over an existing single layer of roof covering.</p>		
	<p>[BS] 806.3 805.3 Existing structural elements resisting lateral loads. Except as permitted by Section 806.4, where the alteration increases design lateral loads, or where the alteration results in prohibited structural irregularity as defined in ASCE 7, or where the alteration decreases the capacity of any existing lateral load-carrying structural element, the structure of the altered building or structure shall meet the requirements of Sections 1609 and 1613 of the International Building Code. Reduced seismic forces shall be permitted.</p> <p>Exception: Any existing lateral load-carrying structural element whose demand-capacity ratio with the alteration considered is not more than 10 percent greater than its demand-capacity ratio with the alteration ignored shall be permitted to remain unaltered. For purposes of calculating demand-capacity ratios, the demand shall consider applicable load combinations with design lateral loads or forces in accordance with Sections 1609 and 1613 of the International Building Code. Reduced seismic forces shall be permitted. 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.</p>		<p>New structural requirements</p>
	<p>[BS] 806.4 805.4 Voluntary lateral force-resisting system alterations. Structural alterations that are intended exclusively to improve the lateral force-resisting system and are not required by other sections of this code shall not be required to meet the requirements of Section 1609 or Section 1613 of the International Building Code, provided that the following conditions are met:</p> <p>1. The capacity of existing structural systems to resist forces is not reduced.</p> <p>2. New structural elements are detailed and connected to existing or new structural elements as required by the International Building Code for new construction.</p> <p>3. New or relocated nonstructural elements are detailed and connected to existing or new structural elements as</p>		<p>New structural requirements</p>

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	<u>required by the International Building Code for new construction.</u>		
	4. The alterations do not create a structural irregularity as defined in ASCE 7 or make an existing structural irregularity more severe.		
805.12 Stair construction. All required stairs shall have a minimum run of 9 inches (229 mm) and a maximum rise of 8 inches (203 mm) and shall have a minimum width of 30 inches (762 mm) exclusive of handrails. Every stairway shall have at least one handrail. A landing having a minimum 30-inch (762 mm) run in the direction of travel shall be provided at each point of access to the stairway. Exception: Fire escapes as provided for in this section. Exterior stairs shall be of noncombustible construction. Exception: On buildings of Types III, IV and V construction, provided the exterior stairs are constructed of wood of not less than 2-inch (51 mm) nominal thickness.			Previous Houston amendment relocated to Section 804.13, no changes.
	SECTION 806 ACCESSIBILITY		Base code sections removed.
	806.1 General. A building, facility, or element that is altered shall comply with this section and Section 705.		
806.2 Stairways and escalators in existing buildings. In alterations where an escalator or stairway is added where none existed previously, an accessible route shall be provided in accordance with Sections 1104.4 and 1104.5 of the <i>International Building Code</i> .	806.2 Stairways and escalators in existing buildings. In alterations where an escalator or stairway is added where none existed previously, an accessible route shall be provided in accordance with Sections 1104.4 and 1104.5 of the <i>International Building Code</i>.		Base code sections removed. Previous Houston amendment removed.
	SECTION 808 807 806 ELECTRICAL		Base code renumbering.
	807.4 806.1 New installations.		Base code renumbering.
	807.2 806.2 Existing installations.		Base code renumbering.
	806.3 Health care facilities. In Group I-2 facilities, ambulatory care facilities and outpatient clinics, any added portion of an existing electrical system shall be required to meet installation and equipment requirements in NFPA 99.		New I-2 healthcare facility electrical requirements to comply with NFPA 99.
	807.3 806.4 Residential occupancies.		Base code renumbering.
	807.3.1 806.4.1 Enclosed areas. All enclosed areas, other than closets, kitchens, basements, garages, hallways, laundry areas, utility areas, storage areas and		Base code renumbering and minor wordsmithing changes.

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	bathrooms shall have a minimum of not fewer than two duplex receptacle outlets or one duplex receptacle outlet and one ceiling or wall-type lighting outlet.		
	807.3.2 806.4.2 Kitchens. Kitchen areas shall have a minimum of not fewer than two duplex receptacle outlets.		Base code renumbering and minor wordsmithing changes.
	807.3.3 806.4.3 Laundry areas. Laundry areas shall have a minimum of not fewer than one duplex receptacle outlet located near the laundry equipment and installed on an independent circuit.		Base code renumbering and minor wordsmithing changes.
	807.3.4 806.4.4 Ground fault circuit interruption.		Base code renumbering.
	807.3.5 806.4.5 Minimum lighting outlets. At least Not fewer than one lighting outlet shall be provided in every bathroom, hallway, stairway, attached garage, and detached garage with electric power, and to illuminate outdoor entrances and exits		Base code renumbering and minor wordsmithing changes.
	807.3.6 806.4.6 Utility rooms and basements.		Base code renumbering.
	807.3.7 806.4.7 Clearance for equipment.		Base code renumbering.
	SECTION 809 808 807 MECHANICAL		Base code renumbering.
	808.1 807.1 Reconfigured or converted spaces.		Base code renumbering.
	808.2 807.2 Altered existing systems.		Base code renumbering.
	808.3 807.3 Local exhaust.		Base code renumbering.
	SECTION 840 809 808 PLUMBING		Base code renumbering.
	808.1 Health care facilities. <u>In Group I-2 facilities, ambulatory care facilities and outpatient clinics, any added portion of an existing medical gas system shall be required to meet installation and equipment requirements in NFPA 99.</u>		New I-2 healthcare facility plumbing requirements to comply with NFPA 99.
	SECTION 844 840 809 ENERGY CONSERVATION		Base code renumbering.
	840.1 809.1 Minimum requirements.		Base code renumbering.

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2015 Houston IEBC Amendments	2021 IEBC – Chapter 9 – Alterations—Level 3	2021 Houston IEBC Amendments	Code Change Summary
		SECTION 902 SPECIAL USE AND OCCUPANCY	
902.1.2 Elevators. Where there is an elevator or elevators for public use, at least one elevator serving the <i>work area</i> shall comply with this section. Existing elevators with a travel distance of 25 feet (7,620 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 elevators shall be provided with Phase I emergency recall operation and Phase II emergency in-car operation in accordance with ASME A17.1.		902.1.2 Elevators. Where there is an elevator or elevators for public use, not fewer than one elevator serving the <i>work area</i> 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 elevators shall be provided with Phase I emergency recall operation and Phase II emergency in-car operation in accordance with ASME A17.1.	No change to Houston amendment.
	SECTION 903 BUILDING ELEMENTS AND MATERIALS		
	903.4 Enhanced classroom acoustics. In Group E occupancies, where the <i>work area</i> is a Level 3 alteration, enhanced classroom acoustics shall be provided in all classrooms with a volume of 20,000 cubic feet (565 m³) or less. Enhanced classroom acoustics shall comply with the reverberation time in Section 808 of ICC A117.1.		New Group E acoustic requirements for Level 3 alterations.
	SECTION 904 FIRE PROTECTION		
	904.1.4 Groups A, B, E, F-1, H, I-1, I-3, I-4, M, R-1, R-2, R-4, S-1 AND S-2. In buildings with occupancies in Groups A, B, E, F-1, H, I-1, I-3, I-4, M, R-1, R-2, R-4, S-1 and S-2 work areas shall be provided with automatic sprinkler protection where all of the following conditions occur: <ol style="list-style-type: none"> 1. The <i>work area</i> is required to be provided with automatic sprinkler protection in accordance with the International Building Code as applicable to new construction. 2. The building site has sufficient municipal water supply for design and installation of an automatic sprinkler system. Exception: If the building site does not have sufficient municipal water supply for design of an automatic sprinkler system, work areas shall be protected by an automatic smoke detection system throughout all occupiable spaces other than sleeping units or individual dwelling units that activates the occupant notification system in accordance		New sprinkler requirements for I-2 healthcare facilities undergoing Level 3 alteration.

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	<u>with Sections 907.4, 907.5 and 907.6 of the <i>International Building Code</i>.</u>		
	<p>904.1.5 Group I-2. In Group I-2 occupancies, an automatic sprinkler system installed in accordance with Section 903.3.1.1 of the <i>International Fire Code</i> shall be provided in the following:</p> <ol style="list-style-type: none"> In Group I-2, Condition 1, throughout the <i>work area</i>. In Group I-2, Condition 2, throughout the <i>work area</i> where the <i>work area</i> is 50 percent or less of the smoke compartment. In Group I-2, Condition 2, throughout the smoke compartment in which the work occurs where the <i>work area</i> exceeds 50 percent of the smoke compartment. 		New sprinkler requirements for I-2 healthcare facilities undergoing Level 3 alteration.
	<p>904.1.6 Windowless stories. Work located in a windowless story, as determined in accordance with the <i>International Building Code</i>, shall be sprinklered where the <i>work area</i> is required to be sprinklered under the provisions of the <i>International Building Code</i> for newly constructed buildings and the building site has a sufficient municipal water supply for the design and installation of an automatic sprinkler system.</p>		New sprinkler requirements for Level 3 alterations located in a windowless story.
	<p>904.1.4 904.1.7 Other required automatic sprinkler systems. In buildings and areas listed in Table 903.2.11.6 of the <i>International Building Code</i>, work areas that have exits or corridors shared by more than one tenant or that have exits or corridors serving an occupant load greater than 30 shall be provided with an automatic sprinkler system under the following conditions:</p> <ol style="list-style-type: none"> The <i>work area</i> is required to be provided with an automatic sprinkler system in accordance with the <i>International Building Code</i> applicable to new construction. The building site has sufficient municipal water supply for design and installation of an automatic sprinkler system. 		Base code renumbering and minor wordsmithing.
	<p>SECTION 905 MEANS OF EGRESS</p>		
	<p>905.4 Two-way communications systems. In buildings with elevator service, a two-way communication system shall be provided where required by Section 1009.8 of the <i>International Building Code</i>.</p>		New two-way communication requirements for Level 3 alterations.

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		SECTION 1001 GENERAL	
1001.3 Certificate of occupancy required. A certificate of occupancy shall be issued where a <i>change of occupancy</i> occurs that results in a different occupancy classification as determined by <u>according to the International Building Code</u> .		1001.3 Certificate of occupancy required. A certificate of occupancy shall be issued where a <i>change of occupancy</i> occurs that results in a different occupancy classification as determined by <u>according to the International Building Code</u> .	No change to Houston amendment.
	SECTION 1002 SPECIAL USE AND OCCUPANCY		
	1002.1 Compliance with the building code. Where the character or use of <u>an existing building</u> or part of an existing building is changed undergoes a change of occupancy to one of the following special use or occupancy categories as defined described in Chapter 4 in the <i>International Building Code</i> , the building shall comply with all of the applicable requirements of Chapter 4 of the International Building Code applicable to the special use or occupancy. <ol style="list-style-type: none"> 1. Covered and open mall buildings. 2. Atriums. 3. Motor vehicle-related occupancies. 4. Aircraft-related occupancies. 5. Motion picture projection rooms. 6. Stages and platforms. 7. Special amusement buildings. 8. Incidental use areas. 9. Hazardous materials. 10. Ambulatory care facilities. 11. Group I-2 occupancies. 		Minor updates to code compliance for changes of occupancy.
	1002.2 Underground Buildings Incidental uses. An underground building in which there is a change of Where a portion of a building undergoes a change of occupancy to one of the incidental uses listed in Table 509.1 of the International Building Code, the incidental use shall comply with the requirements Section 509 of the <i>International Building Code</i> applicable to the incidental use. Underground structures		New requirements for incidental uses to comply with IBC when undergoing changes of occupancy.

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	<p>1002.3 Change of occupancy in health care. Where a <u>change of occupancy occurs to a Group I-2 or I-1 facility, the work area with the change of occupancy shall comply with the International Building Code.</u></p> <p>Exception: A change in use or occupancy in the following cases shall not be required to meet the International Building Code:</p> <ol style="list-style-type: none"> 1. <u>Group I-2, Condition 2 to Group I-2, Condition 1.</u> 2. <u>Group I-2 to ambulatory health care.</u> 3. <u>Group I-2 to Group I-1.</u> 4. <u>Group I-1, Condition 2 to Group I-1, Condition 1.</u> 		<p>New healthcare facility requirements when undergoing change of occupancy.</p>
	<p>1002.4 Storage. In Group I-2 occupancies, equipped throughout with an automatic sprinkler in accordance with Section 903.3.1.1 of the <i>International Building Code</i>, where a room 250 square feet (23.2 m²) or less undergoes a change in occupancy to a storage room, the room shall be separated from the remainder of the building by construction capable of resisting the passage of smoke in accordance with Section 509.4.2 of the <i>International Building Code</i>.</p>		<p>New I-2 healthcare facility requirements for storage.</p>
	<p>SECTION 1006 STRUCTURAL</p>		
	<p>[BS] 1006.3 Seismic loads. Where a <u>change of occupancy results in a building being assigned to a higher risk category, or where the change is from Group S or Group U occupancy to any occupancy other than Group S or Group U,</u> the building shall satisfy the requirements of Section 1613 of the <i>International Building Code</i> for the new risk category using full seismic forces.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. Where the <u>change of use results in a building being reclassified from Risk Category I or II to Risk Category III and the seismic coefficient, SDS, is less than 0.33, compliance with this section is not required.</u> 2. Where the area of the new occupancy is less than 10 percent of the building area, <u>the occupancy is not changing from a Group S or Group U occupancy,</u> and the new occupancy is not assigned to Risk Category IV, <u>compliance with this section is not required.</u> The cumulative effect of occupancy changes over time shall be considered. 3. Unreinforced masonry bearing wall buildings assigned to <i>Risk Category III</i> and to Seismic Design Category A or B shall be permitted to use 		<p>New seismic structural requirements. Minor updates to exceptions to clarify code.</p>

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	<p>Appendix Chapter A1 of this code.</p> <p>4. Where the change is from a Group S or Group U occupancy and there is no change of risk category, use of reduced seismic forces shall be permitted.</p>		
	<p>SECTION 1007 ELECTRICAL</p>		
	<p>1007.1 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 change of occupancy group is involved. Health care facilities, including Group I-2, ambulatory health care facilities and outpatient clinics, shall also comply with the applicable requirements of NFPA 99:</p> <ol style="list-style-type: none"> 1. Hazardous locations. 2. Commercial garages, repair and storage. 3. Aircraft hangars. 4. Gasoline dispensing and service stations. 5. Bulk storage plants. 6. Spray application, dipping and coating processes. 7. Health care facilities, including Group I-2, ambulatory health care facilities and outpatient clinics. 8. Places of assembly. 9. Theaters, audience areas of motion picture and television studios, and similar locations. 10. Motion picture and television studios and similar locations. 11. Motion picture projectors. <p>Agricultural buildings.</p>		<p>New requirements for healthcare facilities to comply with NFPA 99.</p>
	<p>SECTION 1009 PLUMBING</p>		

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	<p>1009.1 Increased demand. Where the occupancy of an <i>existing building</i> or part of an <i>existing building</i> 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 <i>International Plumbing Code</i>, the new occupancy shall comply with the intent of the respective <i>International Plumbing Code</i> provisions.</p> <p style="background-color: cyan;">Exception: Only where the occupant load of the story is increased by more than 20 percent, plumbing fixtures for the story shall be provided in quantities specified in the <i>International Plumbing Code</i> based on the increased occupant load.</p>		Exception added for plumbing count to comply with base code requirements.
	<p>1009.5 Group I-2. If the occupancy group is changed to Group I-2, the plumbing system and medical gas system shall comply with the applicable requirements of the <i>International Plumbing Code</i>.</p>		Updated to include medical gas systems to comply with base code in change of occupancies.
	<p>SECTION 1011 CHANGE OF OCCUPANCY CLASSIFICATION</p>		
	<p>1011.1 General. The provisions of this section shall apply to buildings or portions thereof undergoing a change of occupancy classification. This includes a change of occupancy classification within a group as well as a change of occupancy classification from one group to a different group or where there is a change of occupancy within a space where there is a different fire protection system threshold requirement in Chapter 9 of the <i>International Building Code</i>. Such buildings shall also comply with Sections 1002 through 1010 of this code.</p> <p style="background-color: cyan;">The application of requirements for the change of occupancy shall be as set forth in Sections 1011.1.1 through 1011.1.4. A change of occupancy, as defined in Section 202, without a corresponding change of occupancy classification shall comply with Section 1001.2.</p>		Base code language removed.
	<p style="background-color: cyan;">1011.1.1 Compliance with Chapter 9. The requirements of Chapter 9 shall be applicable throughout the building for the new occupancy classification based on the separation conditions set forth in Sections 1011.1.1.1 and 1011.1.1.2.</p>		Base code language removed.
	<p style="background-color: cyan;">1011.1.1.1 Change of occupancy classification without separation. Where a portion of an existing building is changed to a new occupancy classification or where there is a change of occupancy within a space where there is a different fire protection system threshold requirement in Chapter 9 of the <i>International Building Code</i>, and that portion is not separated from the</p>		Base code language removed.

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	<p>remainder of the building with fire barriers having a fire resistance rating as required in the International Building Code for the separate occupancy, the entire building shall comply with all of the requirements of Chapter 9 of this code applied throughout the building for the most restrictive occupancy classification in the building and with the requirements of this chapter.</p>		
	<p>1011.1.1.2 Change of occupancy classification with separation. Where a portion of an existing building is changed to a new occupancy classification or where there is a change of occupancy within a space where there is a different fire protection system threshold requirement in Chapter 9 of the International Building Code, and that portion is separated from the remainder of the building with fire barriers having a fire resistance rating as required in the International Building Code for the separate occupancy, that portion shall comply with all of the requirements of Chapter 9 of this code for the new occupancy classification and with the requirements of this chapter. 1011.1.2 Fire protection and interior finish. The provisions of Sections 1011.2 and 1011.3 for fire protection and interior finish, respectively, shall apply to all buildings undergoing a change of occupancy classification.</p>		<p>Base code language removed.</p>
	<p>1011.1.3 Change of occupancy classification based on hazard category. The relative degree of hazard between different occupancy classifications shall be determined in accordance with the categories specified in Table 1011.5, Table 1011.6 and Table 1011.7. Such a determination shall be the basis for the application of Sections 1011.5 through 1011.8</p>		<p>Base code language removed.</p>
	<p>1011.2.1 Fire sprinkler system. Where the change in occupancy classification occurs or where there is a <i>change of occupancy</i> within a space where there is a different fire protection system threshold requirement in Chapter 9 of the <i>International Building Code</i> that requires an automatic fire sprinkler system to be provided based on the new occupancy in accordance with Chapter 9 of the <i>International Building Code</i>, such. <u>The installation of the automatic sprinkler system shall be provided throughout the area where the change of occupancy occurs. required within the area of the change of occupancy and areas of the building not separated horizontally and vertically from the change of occupancy by one of the following:</u></p> <ol style="list-style-type: none"> 1. <u>Nonrated permanent partition and horizontal assemblies.</u> 2. <u>Fire partition.</u> 		<p>Updates to requirements for changes of occupancy where separate areas are not separated from the change of occupancy to provide sprinkler systems. New exceptions for residential occupancies.</p>

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	<p>3. Smoke partition.</p> <p>4. Smoke barrier.</p> <p>5. Fire barrier.</p> <p>6. Fire wall.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. An automatic sprinkler system shall not be required in a one- or two-family dwelling constructed in accordance with the International Residential Code. 2. Automatic sprinkler system shall not be required in a townhouse constructed in accordance with the International Residential Code. 3. The townhouse shall be separated from adjoining units in accordance with Section R302.2 of the International Residential Code. 		
	<p>1011.4 Enhanced classroom acoustics. In Group E occupancies, where the work area is a Level 3 alteration, enhanced classroom acoustics shall be provided in all classrooms with a volume of 20,000 cubic feet (565 m³) or less. Enhanced classroom acoustics shall comply with the reverberation time in Section 808 of ICC A117.1.</p>		<p>New requirements for classroom acoustics.</p>
	<p>4044.4 1011.5 Means of egress, general.</p>		<p>Base code renumbering.</p>
	<p>TABLE 1011.4 TABLE 1011.5 MEANS OF EGRESS HAZARD CATEGORIES</p>		<p>Base code renumbering.</p>
	<p>4044.4.1 1011.5.1 Means of egress for change to a higher-hazard category. Where a change of occupancy classification is made to a higher-hazard category (lower number) as shown in Table 1011.5, the means of egress shall comply with the requirements of Chapter 10 of the International Building Code.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. Stairways shall be enclosed in compliance with the applicable provisions of Section 903.1. 2. Existing stairways including handrails and guards complying with the requirements of Chapter 9 shall be permitted for continued use subject to approval of the code official. 3. Any stairway replacing an existing stairway within a space where the pitch or slope cannot be reduced because of existing construction shall not be required to comply with the maximum riser height and minimum tread depth requirements. 4. Existing corridor walls constructed on both sides of wood lath and plaster in good condition or ½-inch-thick (12.7 mm) gypsum wallboard shall be 		<p>Base code renumbering and minor edits made to clarify code.</p>

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	<p>permitted. Such walls shall either terminate at the underside of a ceiling of equivalent construction or extend to the underside of the floor or roof next above.</p> <ol style="list-style-type: none"> 5. Existing corridor doorways, transoms and other corridor openings shall comply with the requirements in Sections 804.6.1, 804.6.2 and 804.6.3. 6. Existing dead-end corridors shall comply with the requirements in Section 804.7. 7. An existing operable window with clear opening area not less than 4 square feet (0.38 m²) and minimum opening height and width of 22 inches (559 mm) and 20 inches (508 mm), respectively, operable window complying with Section 1011.5.6 shall be accepted as an emergency escape and rescue opening. 		
	<p>4011.4.2 1011.5.2 Means of egress for change of use to an equal or lower-hazard category.</p>		<p>Base code renumbering.</p>
	<p>4011.4.3 1011.5.3 Egress capacity.</p>		<p>Base code renumbering.</p>
	<p>4011.4.4 1011.5.4 Handrails.</p>		<p>Base code renumbering.</p>
	<p>4011.4.5 1011.5.5 Guards.</p>		<p>Base code renumbering.</p>
	<p>1011.5.6 Existing emergency escape and rescue openings. <i>Where a change of occupancy would require an emergency escape and rescue opening in accordance with Section 1031 of the International Building Code, operable windows serving as the emergency escape and rescue opening shall comply with the following:</i></p> <ol style="list-style-type: none"> 1. An existing operable window shall provide a minimum net clear opening of 4 square feet (0.38 m²) with a minimum net clear opening height of 22 inches (559 mm) and a minimum net clear opening width of 20 inches (508 mm). 2. A replacement window where such window complies with both of the following: <ol style="list-style-type: none"> 2.1 The replacement window meets the size requirements in Item 1. 2.2 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 		<p>New requirements for emergency escape and rescue openings when undergoing a change of occupancy.</p>

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	window or a style that provides for an equal or greater window opening area than the existing window.		
	4011.5 1011.6 Heights and areas.		Base code renumbering.
	TABLE 4011.5 TABLE 1011.6 HEIGHTS AND AREAS HAZARD CATEGORIES		Base code renumbering.
	4011.5.1 1011.6.1 Height and area for change to a higher-hazard category.		Base code renumbering.
	4011.5.1.1 1011.6.1.1 Fire wall alternative.		Base code renumbering.
	4011.5.2 1011.6.2 Height and area for change to an equal or lesser-hazard category.		Base code renumbering.
	4011.5.3 1011.6.3 Fire barriers.		Base code renumbering.
	4011.6 1011.7 Exterior wall fire-resistance ratings.		Base code renumbering.
	TABLE 4011.6 TABLE 1011.7 EXPOSURE OF EXTERIOR WALLS HAZARD CATEGORIES		Base code renumbering.
	4011.6.1 1011.7.1 Exterior wall rating for change of occupancy classification to a higher-hazard category.		Base code renumbering.
	4011.6.2 1011.7.2 Exterior wall rating for change of occupancy classification to an equal or lesser-hazard category.		Base code renumbering.
	4011.6.3 1011.7.3 Opening protectives.		Base code renumbering.
	4011.7 1011.8 Enclosure of vertical shafts.		Base code renumbering.

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	4041.7.1 1011.8.1 Minimum requirements.		Base code renumbering.
	4041.7.2 1011.8.2 Stairways		Base code renumbering.
	4041.7.3 1011.8.3 Other vertical shafts.		Base code renumbering.
	4041.7.4 1011.8.4 Openings.		Base code renumbering.
<p>1012.8 Accessibility. Existing buildings that undergo a change of group or occupancy classification shall comply with Chapter 11 of the <i>Building Code</i> this section.</p> <p>Exception: Type B dwelling or sleeping units required by Section 1107 of the <i>International Building Code</i> are not required to be provided in existing buildings and facilities undergoing a change of occupancy in conjunction with less than a Level 3 alteration.</p>			Previous Houston amendment removed, no longer needed.

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	SECTION 1101 GENERAL		
	<p><u>1101.4 Enhanced classroom acoustics.</u> In Group E occupancies, enhanced classroom acoustics shall be provided in all classrooms in the addition with a volume of 20,000 cubic feet (565 m³) or less. Enhanced classroom acoustics shall comply with the reverberation time in Section 808 of ICC A117.1.</p>		New requirements for classroom acoustics.
		SECTION 1103 STRUCTURAL	
		<p>[BS] 1103.3 Flood hazard areas. Additions and foundations in flood hazard areas shall comply with Chapter 19 of the <i>City Code</i>, the <i>Infrastructure Design Manual</i>, and with the following requirements, whichever is more restrictive:</p> <ol style="list-style-type: none"> For horizontal additions that are structurally interconnected to the existing building: 	No change to Houston amendment, relocated from Section 1103.5.

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		<ol style="list-style-type: none"> 1.1 If the addition and all other proposed work, when combined, constitute substantial improvement, the existing building and the addition shall comply with Section 1612 of the International Building Code, or Section R322 of the International Residential Code, as applicable. 1.2 If the addition constitutes substantial improvement, the existing building and the addition shall comply with Section 1612 of the International Building Code, or Section R322 of the International Residential Code, as applicable. 2. For horizontal additions that are not structurally interconnected to the existing building: <ol style="list-style-type: none"> 2.1 The addition shall comply with Section 1612 of the International Building Code, or Section R322 of the International Residential Code, as applicable. 2.2 If the addition and all other proposed work, when combined, constitute substantial improvement, the existing building and the addition shall comply with Section 1612 of the International Building Code, or Section R322 of the International Residential Code, as applicable. 3. For vertical additions and all other proposed work that, when combined, constitute substantial improvement, the existing building shall comply with Section 1612 of the International Building Code, or Section R322 of the International Residential Code, as applicable. 4. For a raised or extended foundation, if the foundation work and all other proposed work, when combined, constitute substantial improvement, the existing building shall comply with Section 1612 of the International Building Code, or Section R322 of the International Residential Code, as applicable. 5. For a new foundation or replacement foundation, the foundation shall comply with Section 1612 of the International Building Code or Section R322 of the International Residential Code, as applicable. 	
<p>[BS] 1103.5 Flood hazard areas. Additions and foundations in flood hazard areas shall comply with Chapter 19 of the <i>City Code</i> and the <i>Infrastructure Design Manual</i> and with the following requirements whichever is more restrictive:</p> <ol style="list-style-type: none"> 1. For horizontal additions that are structurally interconnected to the existing building: <ol style="list-style-type: none"> 1.1 If the addition and all other proposed work, when combined, constitute substantial improvement, the existing building and the 			<p>Previous Houston amendment relocated to Section 1103.3, no changes.</p>

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<p>addition shall comply with Section 1612 of the International Building Code, or Section R322 of the International Residential Code, as applicable.</p> <p>1.2 If the addition constitutes substantial improvement, the existing building and the addition shall comply with Section 1612 of the International Building Code, or Section R322 of the International Residential Code, as applicable.</p> <p>2. For horizontal additions that are not structurally interconnected to the existing building:</p> <p>2.1 The addition shall comply with Section 1612 of the International Building Code, or Section R322 of the International Residential Code, as applicable.</p> <p>2.2 If the addition and all other proposed work, when combined, constitute substantial improvement, the existing building and the addition shall comply with Section 1612 of the International Building Code, or Section R322 of the International Residential Code, as applicable.</p> <p>3. For vertical additions and all other proposed work that, when combined, constitute substantial improvement, the existing building shall comply with Section 1612 of the International Building Code, or Section R322 of the International Residential Code, as applicable.</p> <p>4. For a raised or extended foundation, if the foundation work and all other proposed work, when combined, constitute substantial improvement, the existing building shall comply with Section 1612 of the International Building Code, or Section R322 of the International Residential Code, as applicable.</p> <p>5. For a new foundation or replacement foundation, the foundation shall comply with Section 1612 of the International Building Code or Section R322 of the International Residential Code, as applicable.</p>			
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	SECTION 1104 SMOKE ALARMS IN OCCUPANCY GROUPS R AND I-1		Base code section removed.
	1104.1 Smoke alarms in existing portions of a building. Where an addition is made to a building or structure of a Group R or I-1 occupancy, the existing building shall be provided with smoke alarms as required by Section 1103.8 of the International Fire Code or Section R314 of the International Residential Code as applicable.		Base code section removed.
	SECTION 1107 1104 ENERGY CONSERVATION		Base code renumbering.
	1107.1 1104.1 1104.1 Minimum requirements. Additions to existing buildings shall conform to the energy requirements of the International Energy Conservation Code or International Residential Code as they relate to new construction.		Base code renumbering.
	SECTION 1105 CARBON MONOXIDE ALARMS IN GROUPS I-1, I-2, I-4 AND R		Base code section removed.
	1105.1 Carbon monoxide alarms in existing portions of a building. Where an addition is made to a building or structure of a Group I-1, I-2, I-4 or R occupancy, the existing building shall be equipped with carbon monoxide alarms in accordance with Section 1103.9 of the International Fire Code or Section R315 of the International Residential Code, as applicable.		Base code section removed.
	SECTION 1106 STORM SHELTERS		Base code section removed.
		SECTION 1105 AIRPORT SOUND ATTENUATION	
		<u>1105.1 Minimum requirements. Additions to existing buildings required to comply with airport sound attenuation requirements shall conform to Chapter 9, Article VI, of the City Code and the Building Code to achieve an interior sound level of not more than 45 dBA.</u>	No change to Houston amendment, relocated from Section 1107.1.
		SECTION 1106 LAKE HOUSTON STRUCTURES	
		<u>1106.1 Minimum requirements. Additions to existing buildings constructed in or on Lake Houston shall conform to the provisions of Chapter 62 of the Building Code and Chapter 23 of the City Code, whichever is more restrictive.</u>	No change to Houston amendment, relocated from Section 1108.1.
<u>1107.1 Minimum requirements. Additions to existing buildings required to comply with airport sound attenuation requirements shall conform to Chapter 9, Article VI, of the City Code and the Building Code to achieve an interior sound level of not more than 45 dBA.</u>			

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<u>1108.1 Minimum requirements. Additions to existing buildings constructed in or on Lake Houston shall conform to the provisions of Chapter 62 of the <i>Building Code</i> and Chapter 23 of the <i>City Code</i>, whichever is more restrictive.</u>			
2015 Houston IEBC Amendments	2021 IEBC – Chapter 12 – Historic Buildings	2021 Houston IEBC Amendments	Code Change Summary
	SECTION 1201 GENERAL	SECTION 1201 GENERAL	
<p>1201.1 Scope. It is the intent of this chapter to provide means for the preservation of <i>historic buildings</i>. Historical buildings shall comply with the provisions of this chapter relating to their <i>repair, alteration, relocation and change of occupancy. Repairs, alterations, and additions necessary for the preservation, restoration, rehabilitation or continued use of a building or structure may be made with conformance to all the requirements of this code when authorized by the building official, provided:</i></p> <ol style="list-style-type: none"> 1. <u>The building or structure has been designated as having special historical or architectural significance by the city council of this jurisdiction as a landmark or is a contributing structure within a historic district as designated by the city council of this jurisdiction. The foregoing designations shall be as provided in Chapter 33, Article VII, of the <i>City Code</i>.</u> 2. <u>Any unsafe conditions described in this code are corrected.</u> 3. <u>The restored building or structure will be no more hazardous based on life safety, fire safety, and sanitation than the existing building.</u> 		<p>1201.1 Scope. This chapter is intended to provide means for the preservation of <i>historic buildings</i>. <i>Historical buildings</i> shall comply with the provisions of this chapter relating to their <i>repair, alteration, relocation and change of occupancy. Repairs, alterations, and additions necessary for the preservation, restoration, rehabilitation or continued use of a building or structure may be made with conformance to all the requirements of this code when authorized by the building official, provided:</i></p> <ol style="list-style-type: none"> 1. <u>The building or structure has been designated as having special historical or architectural significance by the city council of this jurisdiction as a landmark or is a contributing structure within a historic district as designated by the city council of this jurisdiction. The foregoing designations shall be as provided in Chapter 33, Article VII, of the <i>City Code</i>.</u> 2. <u>Any unsafe conditions described in this code are corrected.</u> 3. <u>The restored building or structure will be no more hazardous based on life safety, fire safety, and sanitation than the existing building.</u> 	No change to Houston amendment.
	<p>1201.3 Special occupancy exceptions-museums. Where a building in Group R-3 is used for Group A, B, or M purposes such as museums tours, exhibits and other public assembly activities, or for museums less than 3,000 square feet (279 m²), the <i>code official may</i> is authorized to determine that the occupancy is Group B where life safety conditions can be demonstrated in accordance with Section 1201.2. Adequate means of egress in such buildings, which including, but are not limited to, may include a means of maintaining doors in an open position to permit egress, a limit on building occupancy to an occupant load permitted by the means of egress capacity, a limit on occupancy of certain areas or floors, or supervision by a person knowledgeable in the emergency exiting procedures, shall be provided.</p>		Minor wordsmithing changes to clarify code.

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<p>[BS] 1201.4 Flood hazard areas. See Chapter 19 of the City Code. In flood hazard areas, if all proposed work, including repairs, work required because of a change of occupancy, and alterations, constitutes substantial improvement, then the existing building shall comply with Section 1612 of the International Building Code, or Section R322 of the International Residential Code, as applicable.</p> <p>Exception: If an historic building will continue to be an historic building after the proposed work is completed, then the proposed work is not considered a substantial improvement. For the purposes of this exception, an historic building is:</p> <ol style="list-style-type: none"> 1. Listed or preliminarily determined to be eligible for listing in the National Register of Historic Places; 2. Determined by the Secretary of the U.S. Department of Interior to contribute to the historical significance of a registered historic district or a district preliminarily determined to qualify as an historic district; or 3. Designated as historic under a state or local historic preservation program that is approved by the Department of Interior. 		<p>[BS] 1201.4 Flood hazard areas. See Chapter 19 of the City Code. In flood hazard areas, if all proposed work, including repairs, work required because of a change of occupancy, and alterations, constitutes substantial improvement, then the existing building shall comply with Section 1612 of the International Building Code, or Section R322 of the International Residential Code, as applicable.</p> <p>Exception: If an historic building will continue to be an historic building after the proposed work is completed, then the proposed work is not considered a substantial improvement. For the purposes of this exception, an historic building is:</p> <ol style="list-style-type: none"> 1. Listed or preliminarily determined to be eligible for listing in the National Register of Historic Places; 2. Determined by the Secretary of the U.S. Department of Interior to contribute to the historical significance of a registered historic district or a district preliminarily determined to qualify as an historic district; or 3. Designated as historic under a state or local historic preservation program that is approved by the Department of Interior. 	<p>No change to Houston amendment.</p>
	<p>SECTION 1203 FIRE SAFETY</p>		
	<p>1203.4 Transoms. In fully sprinklered buildings with automatic sprinkler systems of Group R-1, R-2 or R-3 occupancy, existing transoms in corridors and other fire-resistance-rated walls may be maintained if fixed in the closed position. A sprinkler shall be installed on each side of the transom.</p>		<p>Minor wordsmithing changes to clarify code.</p>
	<p>SECTION 1204 CHANGE OF OCCUPANCY</p>		
	<p>1204.9 Finishes Interior finishes. Where interior finish materials are required to have a flame spread index of Class C or better, when tested in accordance with ASTM E84 or UL 723 comply with the fire test requirements of Section 803.1 of the International Building Code, existing nonconforming materials shall be permitted to be surfaced with an approved fire-retardant paint or finish coating to achieve the required classification. Compliance with this section shall be demonstrated by testing the fire-retardant coating on the same material and achieving the required fire classification. Where the same material is not available, it shall be permitted to test on a similar material.</p>		<p>New requirements for interior finishes to comply with fire test requirements of Building Code.</p>

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	<p>Exception: Existing nonconforming materials need not be surfaced with an <i>approved</i> fire-retardant paint or finish coating where the building is equipped throughout with an automatic sprinkler system installed in accordance with the <i>International Building Code</i> and the nonconforming materials can be substantiated as being historic in character.</p>		
		<p>SECTION 1204 CHANGE OF OCCUPANCY</p> <p>1204.2 Building area. The allowable floor area for <i>historic buildings</i> undergoing a <i>change of occupancy</i> shall be permitted to exceed by 20 percent the allowable areas specified in <u>comply with</u> Chapter 5 of the International <i>Building Code</i>.</p>	No change to Houston amendment, relocated from Section 1205.2.
<p>1205.2 Building area. The allowable floor area for <i>historic buildings</i> undergoing a <i>change of occupancy</i> shall be permitted to exceed by 20 percent the allowable areas specified in <u>comply with</u> Chapter 5 of the International <i>Building Code</i>.</p>			Previous Houston amendment relocated to Section 1204.2, no changes.
2015 Houston IEBC Amendments	2021 IEBC – Chapter 13 – Performance Compliance Methods	2021 Houston IEBC Amendments	Code Change Summary
		<p>EDITORIAL NOTE: THIS CHAPTER IS NOT ADOPTED BY THIS JURISDICTION AND REMAINS AS SET FORTH IN THE 2021 IEBC.</p>	No change to Houston amendment. Performance Compliance chapter has been relocated from Chapter 14 to Chapter 13.
	<p style="text-align: center;">SECTION 1301 GENERAL</p> <p>1301.1 Scope. The provisions of this chapter shall apply to the <i>alteration, addition and change of occupancy of existing structures</i>, including historic structures, as referenced in Section 301.3.3. 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> while permitting, <i>alteration, addition and change of occupancy</i> without requiring full compliance with Chapters 6 through 12, except where compliance with the prescriptive method of Chapter 5 or the work area method of other provisions of this code is specifically required in this chapter.</p>		Edits made to clarify code, no major change.

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<p>1301.2 Conformance. The building shall be safe for human occupancy as determined by the <i>International Fire Code</i> and the <i>International Property Maintenance Code</i>. Any repair, alteration, or change of occupancy undertaken within the moved structure shall comply with the requirements of this code applicable to the work being performed. Any field-fabricated elements shall comply with the requirements of the <i>International Building Code</i> or the <i>International Residential Code</i> as applicable. Relocated or moved housing shall comply with Chapter 10, Article III, of the <i>City Code</i> and be brought into compliance with all applicable <i>Construction Code</i> requirements as for new construction for the designated occupancy within 150 calendar days after the building was moved onto the property. The issuance of any permit by the jurisdiction shall not be construed to extend the time to bring the building into compliance with the <i>Construction Code</i> beyond 150 calendar days after the building was moved onto the property.</p> <p><u>Relocated or moved buildings and housing outside the scope of the <i>Houston Residential Code</i> shall comply with the <i>Building Code</i> for new construction.</u></p> <p><u>Exception: Relocated or moved buildings complying with Chapter 10, Article VI, of the <i>City Code</i> and constructed under the Texas Department of Licensing and Regulation (TDLR) Industrialized Housing and Buildings (IHB) Program.</u></p>	<p>1301.2 Applicability. Existing buildings in which there is work involving additions, alterations or changes of occupancy shall be made to conform to the requirements of this chapter or the provisions of Chapters 6 through 12. The provisions of Sections 1301.2.1 through 1301.2.6 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 also apply to Group U occupancies where such occupancies are undergoing a change of occupancy or a partial change in occupancy with separations in accordance with Section 1301.2.2. These provisions shall not apply to buildings with occupancies in Group H, or I-1, I-3 or I-4.</p>		<p>Edits made to clarify Group U requirements, no major change.</p> <p>Previous Houston amendment relocated to Section 1401.2, no changes.</p>
	<p>1301.2.2 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 <i>International Building Code</i> or Section R302 of the <i>International Residential Code</i> for the separate occupancies, or with approved compliance alternatives, the portion changed shall be made to conform to the provisions of this section. Only the portion separated shall be required to be evaluated for compliance.</p>		<p>New requirements for portions of occupancy changes to be evaluated.</p>
	<p>1301.2.6 Plumbing fixtures. Plumbing fixtures shall be provided in accordance with Section 1009 for a change of occupancy and Section 808 for alterations. Plumbing fixtures for additions shall be in accordance with the <i>International Plumbing Code</i>.</p>		<p>New section for plumbing fixture requirements.</p>
	<p>1301.2.3.1 Additions to Group E facilities. For additions to Group E occupancies, storm shelters shall be provided in accordance with Section 303.2.</p>		<p>Base code section removed.</p>

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	<p>1301.6.2 Building area. The value for building area shall be determined by the formula in Section 1301.6.2.2. Section 506 of the <i>International Building Code</i> and the formula in Section 1301.6.2.1 shall be used to determine the allowable area of the <u>building</u>. Subtract the actual building area from the allowable area and divide by 1,200 square feet (112 m²). Enter the area value and its sign (positive or negative) in Table 1301.7 under Safety Parameter 1301.6.2, Building Area, for fire safety, means of egress and general safety. In determining the area value, the maximum permitted positive value for area is 50 percent of the fire safety score as listed in Table 1301.8, Mandatory Safety Scores. Group I-2 occupancies shall be scored zero.</p>		<p>Edits made to clarify code, no major change.</p>
	<p>1301.6.2.2 Area formula. The following <u>formulas</u> shall be used in computing the area value. <u>Equation 13-4 shall be used for a single occupancy buildings and Equation 13-5 shall be used for multiple occupancy buildings.</u> Determine the area value for each occupancy floor area on a floor-by-floor basis. For <u>multiple</u> occupancy, <u>buildings with</u> the minimum area value of the set of values obtained for the particular <u>occupancy shall be used as the area value for that occupancy.</u></p> <p><u>For single occupancy buildings:</u></p> <p>Area value_j = (Allowable area – Actual area)/1200 square feet</p> <p><u>(Equation 13-4)</u></p> <p><u>For multiple occupancy buildings:</u></p> $\text{Area value}_i = \frac{\text{Allowable area}_i}{1200\text{square feet}} \left[1 - \left(\frac{\text{Actual area}_i}{\text{Allowable area}_i} + \dots + \frac{\text{Actual area}_n}{\text{Allowable area}_n} \right) \right]$ <p><u>(Equation 13-5)</u></p> <p>Area value_j =</p> <p>Where:</p> <p>i= value for an individual separated occupancy on a floor.</p> <p>n = Number of separated occupancies on a floor.</p>		<p>Edits made to clarify code, no major change.</p>

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TABLE 1301.6.3 COMPARTMENTATION VALUES

OCCUPANCY	CATEGORIES ^a				
	a Compartment size equal to or greater than 15,000 square feet	b Compartment size of 10,000 square feet	c Compartment size of 7,500 square feet	d Compartment size of 5,000 square feet	e Compartment size of 2,500 square feet or less
A-1, A-3	0	6	10	14	18
A-2	0	4	10	14	18
A-4, B, E, S-2	0	5	10	15	20
F, M, R, S-1	0	4	10	16	22
I-2	0	2	8	10	14

a. For compartment sizes between categories, the compartmentation value shall be obtained by linear interpolation.

Minor updates to base code table to clarify use.

1301.6.3.1 Categories. The categories for compartment separations are:

1. Category a – Compartment size of 15,000 square feet (1394 m²) or more.
2. Category b – Maximum compartment size of 10,000 square feet (929 m²).
3. Category c - Maximum compartment size of 7,500 square feet (697 m²).
4. Category d - Maximum compartment size of 5,000 square feet (464 m²).
5. Category e - Maximum compartment size of 2,500 square feet (232 m²).

New requirements for compartments to be categorized by size.

~~1301.6.3.1~~ **1301.6.3.2** Wall construction.

Base code renumbering.

~~1301.6.3.2~~ **1301.6.3.3** Floor/ceiling construction.

Base code renumbering.

1301.6.4 Tenant and dwelling unit separations. Evaluate the fire-resistance rating of floors and walls separating tenants, including dwelling units, and not evaluated under Sections 1301.6.3 and 1301.6.5. Group I-2 occupancies shall evaluate the rating of the separations between **care recipient** ~~patient~~ sleeping rooms.

Edits made to clarify code, no major change.

Under the categories and occupancies in Table 1301.6.4, determine the appropriate value and enter that value in Table 1301.7 under Safety Parameter 1301.6.4, Tenant and Dwelling Unit Separation, for fire safety, means of egress and general safety. **The value shall be zero for single tenant buildings and buildings without dwelling units.**

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	<p>1301.6.5.1 Categories. The categories for corridor walls are:</p> <ol style="list-style-type: none"> 1. Category a – No fire partitions; incomplete fire partitions; no doors; or doors not self-closing. 2. Category b – Less than 1-hour fire-resistance rating or not constructed in accordance with Section 708.4 of the <i>International Building Code</i>. 3. Category c – 1-hour to less than 2-hour fire-resistance rating, with doors conforming to Section 716 of the <i>International Building Code</i> or without corridors as permitted by Section 1020 of the <i>International Building Code</i> to be without a fire-resistance rating. 4. Category d – 2-hour or greater fire-resistance rating, with doors conforming to Section 716 of the <i>International Building Code</i>. 		<p>Edits made to clarify code, no major change.</p>
	<p>1301.6.7.1 Categories. The categories for HVAC systems are:</p> <ol style="list-style-type: none"> 1. Category a –Plenums not in accordance with Section 602 of the <i>International Mechanical Code</i>. -10 points 2. Category b –Air movement in egress elements not in accordance with Section 1020.6 of the <i>International Building Code</i> -5 points 3. Category c –Both Categories a and b are applicable. -15 points 4. Category d –Compliance of the HVAC system with Section 1020.6 of the <i>International Building Code</i> and Section 602 of the <i>International Mechanical Code</i>. 0 points 5. Category e – Systems serving one story; or a central boiler/chiller system without ductwork connecting two or more stories or where systems have no ductwork. +5 points. 		<p>Edits made to clarify code, no major change.</p>

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	<p>1301.6.17 Automatic sprinklers. Evaluate the ability to suppress or control a fire based on the installation of an automatic sprinkler system in accordance with Section 903.3.1 903-3-4-4 of the <i>International Building Code</i>. "Required sprinklers" shall be based on the requirements of the International Building Code this code. Under the categories and occupancies in Table 1301.6.17, determine the approach value and enter that value into Table 1301.7 under Safety Parameter 1301.6.17, Automatic Sprinklers, for fire safety, means of egress divided by 2, and general safety. High-rise buildings defined in Chapter 2 of the <i>International Building Code</i> that undergo a <i>change of occupancy</i> to Group R shall be equipped throughout with an automatic sprinkler system in accordance with Section 403 of the <i>International Building Code</i> and Chapter 9 of the <i>International Building Code</i>. <i>Facilities</i> in Group I-2 occupancies meeting Category a, b, c or f shall be considered to fail the evaluation.</p>		<p>Edits made to clarify code, no major change.</p>
	<p>1301.6.17.1 Categories. The categories for automatic sprinkler system protection are:</p> <ol style="list-style-type: none"> 1. Category a Sprinklers are An approved automatic sprinkler system is required throughout; an approved automatic sprinkler system is not provided sprinkler protection is not provided or the sprinkler system design is not adequate for the hazard protected in accordance with Section 903 of the International Building Code. 2. Category b Sprinklers are required in a portion of the building; sprinkler protection is not provided or An approved automatic sprinkler system is required in a portion of a building; an approved automatic sprinkler system is not provided; the sprinkler system design is not adequate for the hazard protected in accordance with Section 903 Chapter 9 of the International Building Code. 3. Category c Sprinklers are An approved automatic sprinkler system is not required; none are provided. 4. Category d Sprinklers are An approved automatic sprinkler system is required in a portion of the building; sprinklers are provided in such portion; the system is one that complied with the code at the time of installation and is maintained and supervised in accordance with Section 903 portion of a building; an approved automatic sprinkler system is provided in a portion of a building in accordance with 		<p>Edits made to clarify code, no major change.</p>

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	<p><u>Chapter 9</u> of the International Building Code.</p> <p>5. Category e—Sprinklers are <u>An approved automatic sprinkler system is</u> required throughout; sprinklers are an approved automatic sprinkler system is provided throughout in accordance with Chapter 9 of the International Building Code.</p> <p>6. Category f—Sprinklers are <u>An approved automatic sprinkler system is</u> not required throughout; sprinklers are an approved automatic sprinkler system is provided throughout in accordance with Chapter 9 of the International Building Code.</p>																	
	<p>TABLE 1301.6.20 SMOKE COMPARTMENTATION VALUES</p> <table border="1"> <thead> <tr> <th rowspan="2">OCCUPANCY</th> <th colspan="3">CATEGORIES*</th> </tr> <tr> <th>a</th> <th>b</th> <th>c</th> </tr> </thead> <tbody> <tr> <td>A, B, E, F, M, R and S</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>I-2</td> <td>0</td> <td>NP-10</td> <td>NP</td> </tr> </tbody> </table>	OCCUPANCY	CATEGORIES*			a	b	c	A, B, E, F, M, R and S	0	0	0	I-2	0	NP-10	NP		<p>Minor update to table for I-2 occupancy smoke compartmentation value.</p>
OCCUPANCY	CATEGORIES*																	
	a	b	c															
A, B, E, F, M, R and S	0	0	0															
I-2	0	NP-10	NP															
	<p>1301.6.20.1 Categories. Categories for smoke compartment size are:</p> <p>1. Category a – Smoke compartment <u>complies with Section 407.5 of the International Building Code.</u> size is equal to or less than 22,500 square feet (2092 m²)</p> <p>2. Category b – Smoke compartment <u>are provided but do not comply with Section 407.5 of the International Building Code.</u> size is greater than 22,500 square feet (2092 m²)</p> <p>3. Category c – Smoke compartments are not provided.</p>		<p>Edits made to clarify code, no major change.</p>															
	<p>1301.6.21 Care recipient patient ability, concentration, smoke compartment location and ratio to attendant. In I-2 occupancies, the ability of <u>care recipients patients,</u> patients, their concentration and ratio to attendants shall be evaluated and applies in accordance with this section. Evaluate each smoke compartment using the categories in Sections 1301.6.21.1, 1301.6.21.2 and 1301.6.21.3 and enter the value in Table 1301.7. To determine the safety factor, multiply the three values together; if the <u>sum product is less than 6</u> 9 or greater, compliance has failed.</p>		<p>Edits made to clarify code, no major change.</p>															

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	<p>1301.6.21.1 Care recipient patient ability for self-preservation. Evaluate the ability of the care recipients patients for self-preservation in each smoke compartment in an emergency. Under the categories and occupancies in Table 1301.6.21.1, determine the appropriate value and enter that value in Table 1301.7 under Safety Parameter 1301.6.21.1, Care Recipient Patient Ability for Self-preservation, for means of egress and general safety.</p>		<p>Edits made to clarify code, no major change.</p>											
	<p>TABLE 1301.6.21.1 CARE RECIPIENT PATIENT ABILITY VALUES</p> <table border="1"> <thead> <tr> <th rowspan="2">OCCUPANCY</th> <th colspan="3">CATEGORIES</th> </tr> <tr> <th>a</th> <th>b</th> <th>c</th> </tr> </thead> <tbody> <tr> <td>I-2</td> <td>+3</td> <td>2</td> <td>-1</td> </tr> </tbody> </table>	OCCUPANCY	CATEGORIES			a	b	c	I-2	+3	2	-1		<p>Minor updates to table for I-2 occupancies.</p>
OCCUPANCY	CATEGORIES													
	a	b	c											
I-2	+3	2	-1											
	<p>1301.6.21.1.1 Categories. The categories for care recipient patient ability for self-preservation are:</p> <ol style="list-style-type: none"> 1. Category a – (mobile) Care recipients patients are capable of self-preservation without assistance. 2. Category b – (not mobile) Care recipients patients rely on assistance for evacuation or relocation. 3. Category c – (not movable) Care recipients patients cannot be evacuated or relocated. 		<p>Edits made to clarify code, no major change.</p>											
	<p>1301.6.21.2 Care recipient patients concentration. Evaluate the concentration of care recipients patients in each smoke compartment under Section 1301.6.21.2. Under the categories and occupancies in Table 1301.6.21.2 determine the appropriate value and enter that value in Table 1301.7 under Safety Parameter 1301.6.21.2, Care Recipient Patients Concentration, for means of egress and general safety.</p>		<p>Edits made to clarify code, no major change.</p>											
	<p>TABLE 1301.6.21.2 CARE RECIPIENT PATIENT CONCENTRATION VALUES</p> <table border="1"> <thead> <tr> <th rowspan="2">OCCUPANCY</th> <th colspan="3">CATEGORIES</th> </tr> <tr> <th>a</th> <th>b</th> <th>c</th> </tr> </thead> <tbody> <tr> <td>I-2</td> <td>+3</td> <td>2</td> <td>-1</td> </tr> </tbody> </table>	OCCUPANCY	CATEGORIES			a	b	c	I-2	+3	2	-1		<p>Minor updates to table for I-2 occupancies.</p>
OCCUPANCY	CATEGORIES													
	a	b	c											
I-2	+3	2	-1											
	<p>1301.6.21.2.1 Categories. The categories for care recipient patient concentration are:</p> <ol style="list-style-type: none"> 1. Category a – smoke compartment has 1 to 10 care recipients patients. 2. Category b – smoke compartment has 		<p>Edits made to clarify code, no major change.</p>											

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	<p>more than 10 to 40 care recipients patients</p> <p>3. Category c – smoke compartment has more than 40 care recipients patients.</p>													
	<p>1301.6.21.3 Attendant-to-care recipients patient ratio. Evaluate the attendant-to-care recipients patients ratio for each compartment under Section 1301.6.21.3. Under the categories and occupancies in Table 1301.6.21.3 determine the appropriate value and enter that value in Table 1301.7 under Safety Parameter 1301.6.21.3, Attendant-to-Care Recipients patients Ratio, for means of egress and general safety.</p>		<p>Edits made to clarify code, no major change.</p>											
	<p>TABLE 1301.6.21.3 ATTENDANT-TO-CARE RECIPIENTS PATIENT RATIO VALUES</p> <table border="1"> <thead> <tr> <th rowspan="2">OCCUPANCY</th> <th colspan="3">CATEGORIES</th> </tr> <tr> <th>a</th> <th>b</th> <th>c</th> </tr> </thead> <tbody> <tr> <td>I-2</td> <td>1:3</td> <td>2</td> <td>3:1</td> </tr> </tbody> </table>	OCCUPANCY	CATEGORIES			a	b	c	I-2	1:3	2	3:1		<p>Minor updates to table for I-2 occupancies.</p>
OCCUPANCY	CATEGORIES													
	a	b	c											
I-2	1:3	2	3:1											
	<p>1301.6.21.3.1 Categories. The categories for attendant-to-care recipient patients concentrations are:</p> <ol style="list-style-type: none"> 1. Category a – attendant-to-care recipients patients concentration is 1:5 or no care recipients. 2. Category b – attendant-to-care recipients patients concentration is 1:6 to 1:10. 3. Category c – attendant-to-care recipients patients concentration is greater than 1:10. 		<p>Edits made to clarify code, no major change.</p>											
	<p>1301.9.1 Mixed occupancies. For mixed occupancies, the following provisions shall apply:</p> <ol style="list-style-type: none"> 1. Where the separation between mixed occupancies does not qualify for any category indicated in Section 1301.6.16, the mandatory safety scores for the occupancy with the lowest general safety score in Table 1301.8 shall be utilized (see Section 1301.6). 2. Where the separation between mixed occupancies qualifies for any category indicated in Section 1301.6.16, the mandatory safety scores for each occupancy shall be placed against the evaluation scores for the appropriate occupancy. An evaluation is not required for areas of the building with separated occupancies in accordance with Table 508.4 of the International Building Code in which there are no alterations or change of 		<p>Updates to mixed occupancy requirements when occupancies are separated.</p>											

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	occupancy.		
<p>[BS] 1302.6 Flood hazard areas. If relocated or moved into a flood hazard area, structures shall comply with Chapter 19 of the <i>City Code</i>, the <i>Infrastructure Design Manual</i>, and Section 1612 of the International Building Code, or Section R322 of the International Residential Code, as applicable, whichever is more restrictive.</p>			<p>Previous Houston amendment relocated to Section 1402.6, no changes.</p>
2015 Houston IEBC Amendments	2021 IEBC – Chapter 14 – Relocated or Moved Buildings	2021 Houston IEBC Amendments	Code Change Summary
<p>{Editorial Note: THIS CHAPTER IS NOT ADOPTED BY THIS JURISDICTION AND REMAINS AS SET FORTH IN THE 2015 IEBC.}</p>			<p>Previous Houston editorial note has been relocated to Chapter 13.</p>
	SECTION 1401 GENERAL	SECTION 1401 GENERAL	
	<p>1401.1 Bleachers, grandstands and folding and telescopic seating. Relocated or moved bleachers, grandstands and folding and telescopic seating shall comply with ICC 300.</p>		
		<p>1401.2 Conformance. The building shall be safe for human occupancy as determined by the <i>International Fire Code</i> and the <i>International Property Maintenance Code</i>. Any repair, alteration, or change of occupancy undertaken within the moved structure shall comply with the requirements of this code applicable to the work being performed. Any field-fabricated elements shall comply with the requirements of the <i>International Building Code</i> or the <i>International Residential Code</i> as applicable. Relocated or moved housing shall comply with Chapter 10, Article III and Chapter 33, Article VII of the <i>City Code</i>, and be brought into compliance with all applicable <i>Construction Code</i> requirements as for new construction for the designated occupancy within 150 calendar days after the building was moved onto the property. The issuance of any permit by the <i>jurisdiction</i> shall not be construed to extend the time to bring the building into compliance with the <i>Construction Code</i> beyond 150 calendar days after the building was moved onto the property.</p> <p>Relocated or moved buildings and housing outside the scope of the <i>Houston Residential Code</i> shall comply with the <i>Building Code</i> for new construction.</p> <p>Exception: Relocated or moved buildings complying with Chapter 10, Article VI, of the <i>City Code</i> and constructed under the Texas Department of Licensing and Regulation (TDLR) Industrialized Housing and Buildings (IHB) Program.</p>	<p>No change to Houston amendment, relocated from Section 1301.2.</p>

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		<p style="text-align: center;">SECTION 1402 REQUIREMENTS</p> <p>[BS] 1402.6 Flood hazard areas. If relocated or moved into a flood hazard area, structures shall comply with Chapter 19 of the City Code, the Infrastructure Design Manual, and Section 1612 of the International Building Code, or Section R322 of the International Residential Code, as applicable, whichever is more restrictive.</p>	No change to Houston amendment, relocated from Section 1302.6.
2015 Houston IEBC Amendments	2021 IEBC – Chapter 15 – Construction Safeguards	2021 Houston IEBC Amendments	Code Change Summary
<p>{EDITORIAL NOTE: THIS CHAPTER IS NOT ADOPTED BY THIS JURISDICTION. SAFETY DURING CONSTRUCTION SHALL BE GOVERNED BY SECTION 33 OF THE IBC.}</p>		<p>{EDITORIAL NOTE: THIS CHAPTER IS NOT ADOPTED BY THIS JURISDICTION AND REMAINS AS SET FORTH IN THE 2021 IEBC.}</p>	No change to Houston amendment.
	<p>User note: About this chapter: The building construction process involves a number of known and unanticipated hazards. Chapter 15 establishes specific regulations in order to minimize the risk to the public and adjacent property. Some construction failures have resulted during the initial stages of grading, excavation and demolition. During these early stages, poorly designed and installed sheeting and shoring have resulted in ditch and embankment cave-ins. Also, inadequate underpinning of adjoining existing structures or careless removal of existing structures has produced construction failures. Chapter 15 looks to the construction process. Parameters are provided for demolition and for protecting adjacent property during demolition and construction. Issues such as how to provide egress and adequate water supply while the building is growing, the timing of standpipe and sprinkler installation, and protection of pedestrians are addressed. Note that this chapter is consistent with Chapter 33 of the International Building Code and Chapter 33 of the International Fire Code.</p>		User note for chapter has been updated.
	SECTION 1501 GENERAL		
	<p>[BS] 705.2 1501.2.1 Structural and construction loads.</p>		Base code renumbering.
	SECTION 1502 PROTECTION OF ADJOINING PROPERTY		

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	<u>[BS] 1502.2 Excavation retention system. Where a retention system is used to provide support of an excavation for protection of adjacent structures, the system shall conform to the requirements in Section 1502.2.1 through 1502.2.3.</u>		New excavation requirements during construction.
	<u>[BS] 1502.2.1 Excavation retention system design. Excavation retention systems shall be designed by a registered design professional to provide vertical and lateral support.</u>		New excavation requirements during construction.
	<u>[BS] 1502.2.2 Excavation retention system monitoring. The retention system design shall include requirements for monitoring of the system and adjacent structures for horizontal and vertical movement.</u>		New excavation requirements during construction.
	<u>[BS] 1502.2.3 Retention system removal. Elements of the system shall only be removed or decommissioned where adequate replacement support is provided by backfill or by the new structure. Removal or decommissioning shall be performed in such a manner that protects the adjacent property.</u>		New excavation requirements during construction.
	SECTION 1509 WATER SUPPLY FOR FIRE PROTECTION		
	<u>[F] 1509.1 When required. An approved water supply for fire protection, either temporary or permanent, shall be made available as soon as combustible building material arrives on the site, upon commencement of vertical combustible construction, and on installation of a standpipe system in buildings under construction, in accordance with Sections 1509.1 through 1509.5.</u> <u>Exception: The fire code official is authorized to reduce the fire-flow requirements for isolated buildings or a group of buildings in rural areas or small communities where the development of full fire-flow requirements is impractical.</u>		New requirement for water supply for fire protection.
	<u>[F] 1509.2 Combustible building materials. When combustible building materials of the building under construction are delivered to a site, a minimum fire flow of 500 gallons per minute (1893 L/m) shall be provided. The fire hydrant used to provide this fire flow supply shall be within 500 feet (152 m) of the combustible building materials as measured along an approved fire apparatus access lane. Where the site configuration is such that one fire hydrant cannot be located within 500 feet (152 m) of all combustible building materials, additional fire hydrants shall be required to provide coverage in accordance with this section.</u>		New requirement for water supply for fire protection.

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	<p>[F] 1509.3 Vertical construction of Types III, IV and V construction. Prior to commencement of vertical construction of Type III, IV or V buildings that utilize any combustible building materials, the fire flow required by Sections 1509.3.1 through 1509.3.3 shall be provided, accompanied by fire hydrants in sufficient quantity to deliver the required fire flow and proper coverage.</p>		<p>New requirement for water supply for fire protection.</p>
	<p>[F] 1509.3.1 Fire separation up to 30 feet. Where a building of Type III, IV or V construction has a fire separation distance of less than 30 feet (9144 mm) from property lot lines, and an adjacent property has an <i>existing structure</i> or otherwise can be built on, the water supply shall provide either a minimum of 500 gallons per minute (1893 L/m), or the entire fire flow required for the building when constructed, whichever is greater.</p>		<p>New requirement for water supply for fire protection.</p>
	<p>[F] 1509.3.2 Fire separation of 30 feet up to 60 feet. Where a building of Type III, IV or V construction has a fire separation distance of 30 feet (9144 mm) up to 60 feet (18 288 mm) from property lot lines, and an adjacent property has an <i>existing structure</i> or otherwise can be constructed upon, the water supply shall provide a minimum of 500 gallons per minute (1893 L/m), or 50 percent of the fire flow required for the building when constructed, whichever is greater.</p>		<p>New requirement for water supply for fire protection.</p>
	<p>[F] 1509.3.3 Fire separation of 60 feet or greater. Where a building of Type III, IV or V construction has a fire separation of 60 feet (18 288 mm) or greater from a property lot line, a water supply of 500 gallons per minute (1893 L/m) shall be provided.</p>		<p>New requirement for water supply for fire protection.</p>
	<p>[F] 1509.4 Vertical construction, Types I and II construction. If combustible construction materials are delivered to the construction site, water supply in accordance with Section 1509.2 shall be provided. Additional water supply for fire flow is not required prior to commencing vertical construction of Type I and II buildings.</p>		<p>New requirement for water supply for fire protection.</p>
	<p>[F] 1509.5 Standpipe supply. Regardless of the presence of combustible building materials, the construction type or the fire separation distance, where a standpipe is required in accordance with Section 1506, a water supply providing a minimum flow of 500 gallons per minute (1893 L/m) shall be provided. The fire hydrant used for this water supply shall be located within 100 feet (30 480 mm) of the fire department connection supplying the standpipe.</p>		<p>New requirement for water supply for fire protection.</p>

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2015 Houston IEBC Amendments	2021 IEBC – Chapter 16 – Referenced Standards	2021 Houston IEBC Amendments	Code Change Summary				
<u>EDITORIAL NOTE: PORTIONS OF THIS CHAPTER NOT SHOWN SHALL REMAIN AS SET FORTH IN THE 2015 IEBC.]</u>		<u>EDITORIAL NOTE: PORTIONS OF THIS CHAPTER NOT SHOWN SHALL REMAIN AS SET FORTH IN THE 2021 IEBC.]</u>	No change to Houston amendment.				
<p>ASME American Society of Mechanical Engineers 3 Park Avenue New York, NY 10016</p> <hr/> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">Standard Reference number</td> <td style="width:70%;">Title</td> <td style="width:30%;"></td> <td style="width:70%;">Referenced in code section number</td> </tr> </table> <p>A17.3—2012<u>2008</u> Escalator Safety Code for Existing Elevators and 902.1.2</p>	Standard Reference number	Title		Referenced in code section number			
Standard Reference number	Title		Referenced in code section number				
<p>NFPA National Fire Protection Association 1 Batterymarch Park Quincy, MA 02169-7471</p> <hr/> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">Standard Reference number</td> <td style="width:70%;">Title</td> <td style="width:30%;"></td> <td style="width:70%;"></td> </tr> </table> <p>70—2011<u>2044</u> National Electrical Code 107.3, 119.6, 120.2, 120.4, 301.2, <u>202</u>, 607.1.1, 607.1.2, 607.1.3, 607.1.4, 607.1.5, 808.1, 808.3.4, 808.3.7, 1008.1, 1008.2, 1008.3, 1008.4, <u>Ch. 16</u></p>	Standard Reference number	Title				<p>NFPA</p> <p>70—2320<u>2320</u>: National Electrical Code 107.3, <u>202</u>, 302.2, 406.1.1, 406.1.2, 406.1.3, 406.1.4, 406.1.5, 808.1, 808.4, 1007.1, 1007.2, 1007.3, 1007.4</p>	<p>Previous National Fire Protection Association Batterymarch Park Quincy, MA 02169-7471 Houston amendment to update ASME A17.3 no longer needed and removed.</p> <p>Houston amendment to update NFPA 70 to most recent edition enforced by state.</p>
Standard Reference number	Title						
2015 Houston IEBC Amendments	2021 IEBC – Appendix A	2021 Houston IEBC Amendments	Code Change Summary				
	<p>SECTION A106 MATERIALS REQUIREMENTS</p>						

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	[BS]A106.2.2.3 A106.2.2.2 Lay-up patterns.		Base code renumbering.
	[BS]A106.2.2.2 A106.2.3.1 Concrete masonry units and structural clay load-bearing tile. Grouted or ungrouted hollow concrete masonry units shall be tested in accordance with ASTM C140. Grouted or ungrouted structural clay load-bearing tile shall be tested in accordance with ASTM C67 ASTM C34.		Base code renumbering and updated reference..
	[BS] A106.2.3.1 A106.2.3.2 In-place mortar joint shear tests. Mortar joint shear test values, vto, shall be obtained by one of the following: 1. <u>ASTM C1531</u> 2. <u>For masonry walls that have high shear strength mortar, or where in-place testing is not practical because of crushing or other failure mode of the masonry, alternative procedures for testing shall be used in accordance with Section A106.2.3.2.</u>		Base code renumbering.
	[BS]-A106.2.3.2 A106.2.3.3 Alternative procedures for testing masonry. The tensile splitting tensile strength of existing masonry, f_{sp} , or the prism strength of existing masonry, $f'm$, is permitted to be determined in accordance with ASTM C496 and calculated by the following equation: $f_{sp} = 0.494P/a_n$		Base code renumbering and minor wordsmithing.
	[BS]-A106.2.3.3 A106.2.3.4 Location of tests.		Base code renumbering.
	[BS]-A106.2.3.4 A106.2.3.5 Number of tests.		Base code renumbering.
	[BS]-A106.2.3.5 A106.2.3.6 Minimum quality of mortar.		Base code renumbering.
	[BS] A106.2.3.6 A106.2.3.7 Minimum quality of masonry. <u>Where the alternative procedures of Section A106.2.3.2 are used to determine masonry quality, the following minimums apply:</u> 1. The minimum average value of tensile splitting tensile strength, f_{sp} , as calculated by Equation A1-1 shall be 50 pounds per square inch (344.7 kPa). 2. Individual unreinforced masonry walls with average tensile splitting tensile strength of less than 50 pounds per square inch (344.7 kPa)		Base code renumbering and minor wordsmithing changes.

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	<p>shall be pointed and retested.</p> <p>3. <u>The lower-bound mortar strength</u> f_{spL} is defined as the mean minus one standard deviation P_{D+L} of the tensile splitting <u>tensile</u> test values f_{sp}.</p>		
	[BS]-A106.2.3.7 <u>A106.2.3.8</u> Collar joints.		Base code renumbering.
	[BS]-A106.2.3.8 <u>A106.2.3.9</u> unreinforced masonry classes.		Base code renumbering.
	[BS]-A106.2.3.9 <u>A106.2.3.10</u> Pointing.		Base code renumbering.
	SECTION A107 QUALITY CONTROL		
	[BS] A107.2 Masonry shear tests. In-place masonry shear tests shall comply with Section A106.2.3.1. Testing of masonry for determination of <u>splitting</u> tensile splitting strength shall comply with Section A106.2.3.3.		Minor wordsmithing changes.
	SECTION A202 SCOPE		
	[BS] A202.1 Scope. The provisions of this chapter shall apply to wall anchorage systems that resist out-of-plane forces and to collectors in existing reinforced concrete or reinforced masonry buildings with flexible diaphragms. Wall anchorage systems that were designed and constructed in accordance with the 1997 Uniform Building Code, 1999 BOCA National Building Code, 1999 Standard Building Code <u>or</u> the 2000 and <u>or</u> subsequent editions of the International Building Code shall be deemed to comply with these provisions		Minor wordsmithing changes.
	SECTION A203 DEFINITIONS		
	[BS] A203.1 Definitions. For purpose of this chapter, the applicable definitions listed <u>in</u> Chapters 16, 19, 21, 22, and 23 of the International Building Code and the following shall apply:		Minor wordsmithing changes.
	[BS] CONTINUITY CONNECTOR. A component, typically a plate, rod, strap or hold-down, that ensures load path continuity along the full length of a crosstie or strut. [BS] CROSSTIE. A member or group of members continuous across the main diaphragm that connects		New definitions added to appendix.

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	<p><u>opposite wall lines and transfers out-of-plane wall anchorage forces into the diaphragm.</u></p> <p>[BS] FLEXIBLE DIAPHRAGM DIAPHRAGMS. Roofs and floors including, but not limited to, those <u>A roof or floor</u> sheathed with plywood, wood decking (1-by or 2-by) or metal decks <u>deck</u> without <u>a</u> concrete topping <u>slabs slab</u>.</p> <p>[BS] STRUT. A member or group of members continuous across a subdiaphragm that transfers out-of-plane wall anchorage forces into the subdiaphragm.</p> <p>[BS] WALL ANCHORAGE SYSTEM. The components compromising a complete load path for out-of-plane wall forces from the wall to the main diaphragm, typically including anchors embedded in or fastened to the wall; rods, straps, plates, hold-downs or other hardware; subdiaphragms and their chords; crossties; struts; and continuity connectors.</p> <p>[BS] WALL SEGMENT. Any length of concrete wall with continuous horizontal reinforcing and not interrupted or intersected by a pilaster or vertical construction joint, or any length or reinforced masonry wall with continuous horizontal reinforcing and not interrupted or intersected by a pilaster or vertical control joint.</p>		
	<p>SECTION A205 GENERAL REQUIREMENTS</p>		
	<p>[BS] A205.1 General. The seismic-resisting elements specified in this chapter shall comply with <u>applicable</u> provisions of Section 1613 of the <i>International Building Code</i> <u>and Chapter 12 of</u> ASCE 7, except as modified herein.</p>		<p>Edits made to clarify code, no major change.</p>
	<p>[BS] A205.2 Alterations and repairs. Alterations and repairs required to meet the provisions of this chapter shall comply with applicable structural requirements of the building code unless specifically modified in this chapter.</p>		<p>Base code section removed.</p>
	<p>[BS] A205.3 A205.2 Requirements for plans. The plans shall accurately reflect the results of the engineering investigation and design and shall show all pertinent dimensions and sizes for plan review and construction. The following shall be provided:</p> <ol style="list-style-type: none"> 1. Floor plans and roof plans shall show existing framing construction, diaphragm construction, proposed wall anchors, cross-ties <u>crossties</u> and collectors. Existing nailing, anchors, cross-ties <u>crossties</u> and collectors shall be shown on the plans if they are considered part of the lateral force-resisting <u>systems</u>. 2. At elevations where there are alterations or damage, details shall show roof and floor heights, dimensions of 		<p>Edits made to clarify code, no major change.</p>

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	<p>openings, location and extent of existing damage and proposed repair.</p> <p>3 <u>2.</u> Typical wall panel details and sections with panel thickness, height, pilasters and location of anchors shall be provided.</p> <p>4 <u>3.</u> Details shall include existing and new anchors and the method of developing anchor forces into the diaphragm framing, existing and new cross-ties cross-ties, and existing and new or improved support of roof and floor girders at pilasters or walls.</p> <p>5 <u>4.</u> The basis for design and the building code used for the design shall be state on the plans.</p>		
	<p>[BS]A205.4 A205.3 Structural observation. Testing and inspection. Structural testing and inspection for new construction materials shall be in accordance with the building code, except as modified by this chapter. Structural observation, in accordance with Section 1704.6 of the <i>International Building Code</i>, shall be required for all structures in which seismic retrofit is being performed in accordance with this chapter is required, regardless of seismic design category, height or other conditions. Structural observation shall include visual observation of work for conformance to the <i>approved</i> construction documents and confirmation of existing conditions assumed during design.</p>		<p>New requirements for structural observations.</p>
	<p>A205.3.1 Additional special inspection. <u>In addition to the requirements of Section 1705.13 of the <i>International Building Code</i>, special inspection shall be required for:</u></p> <ol style="list-style-type: none"> 1. <u>Installation of anchors into existing concrete or masonry walls to form part of a wall anchorage system.</u> 2. <u>Fastening of new or existing steel deck forming part of a wall anchorage system.</u> 3. <u>Installation of continuity connectors along the length of crossties, to ensure compliance with Section A206.2. This inspection may be periodic special inspection.</u> 		<p>New requirements for additional special inspections for certain items.</p>

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	<p>A205.3.2 Testing to establish adequacy of existing wall anchors. Testing shall show that the existing anchors can sustain a test load of 1.5 times the design tension load without noticeable deformation or damage to the anchor, to the masonry or concrete element, or to any part of the existing load path between the anchor and new retrofit components. Three anchors of each existing detail type shall be tested, and all three shall satisfy the requirement. Prior to testing, the design professional shall submit a test plan for <i>code official</i> approval identifying the expected locations of the existing anchors in question, the locations of the proposed tests, and the test procedure and criteria. After testing, the professional shall submit a report of the satisfactory testing showing the test results, the design strengths derived from them, and the size and spacing as confirmed by investigation.</p>		<p>New requirements for testing of existing wall anchors.</p>
	<p>A205.4 Testing and Inspection. Structural testing and inspection for new construction materials, submittals, reports and certificates of compliance shall be in accordance with Sections 1704 and 1705 of the <i>International Building Code</i>. Work done to comply with this chapter shall not be eligible for Exception 1 to Section 1704.2 of the <i>International Building Code</i> or Exception 2 to Section 1705.13 of the <i>International Building Code</i>.</p>		<p>New requirements for structural testing and inspections.</p>
	<p>SECTION A206 ANALYSIS AND DESIGN</p>		
	<p>[BS] A206.1 Reinforced concrete and reinforced masonry wall anchorage. Concrete and masonry walls shall be anchored to all floors and roofs that provide lateral support for the wall in accordance with Section 12.11.2 of ASCE 7. The anchorage shall provide positive a direct connection between the wall and floor or roof construction capable of resisting 75 percent of the horizontal forces specified in Section 12.11.2.1 of Section 1613 of the <i>International Building Code</i> ASCE 7.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. Existing walls need not be evaluated or retrofitted for bending between anchors. 2. Work required by this chapter need not consider shrinkage, thermal changes or differential settlement. 		<p>New exceptions provided for reinforced concrete/masonry wall anchorage.</p>
	<p>A206.1.1 Seismicity parameters, site class and geologic hazards. For any site designated as Site Class E, the value of F_a shall be taken as 1.2. Site-specific procedures are not required for compliance with this chapter. Mitigation of existing geologic site hazards such as</p>		<p>New seismic requirements.</p>

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	<p>liquefiable soil, fault rupture or landslide is not required for compliance with this chapter.</p>		
	<p>[BS] A206.2 Special Additional requirements for wall anchorage systems. The steel elements of the wall anchorage system shall be designed in accordance with the International Building Code without the use of the 1.33 short duration allowable stress increase where using allowable stress design. The wall anchorage system shall comply with the requirements of this section and Section 12.11.2.2 of ASCE 7.</p> <p>The maximum spacing between wall anchors shall be 8 feet (2438 mm), and each wall segment shall have at least two wall anchors.</p> <p>The wall anchorage system, excluding subdiaphragms and existing roof or floor framing members, shall be designed and installed to limit the relative movement between the wall and the diaphragm to no more than 1/8 inch before engagement of the anchors. Wall anchors shall be provided to resist out-of-plane forces, independent of existing shear anchors.</p> <p>Where new members are added as crossties, they shall be spaced no more than 24 feet (7315 mm) apart. Where existing girders are used as crossties, their actual spacing shall be deemed adequate even where the spacing exceeds 24 feet (7315 mm), as long as the girders are provided with continuity connectors as required.</p> <p>Wall anchors shall be provided to resist out-of-plane forces, independent of existing shear anchors.</p> <p>Expansion anchors are only allowed with special inspection and approved testing for seismic loading.</p> <p>Attaching Wall anchorage shall not be provided by fastening the edge of plywood sheathing to steel ledgers. is not considered compliant with the positive anchoring requirements of this chapter. Attaching Wall anchorage shall not be provided solely by fastening the edge of steel decks decking to steel ledgers is not considered as providing the positive anchorage of this chapter unless testing or analysis is performed to establish shear values for the attachment perpendicular to the edge of the deck. Where steel decking is used as a wall anchor system, the unless analysis demonstrates acceptable capacity. The existing connections shall be subject to field verification and the new connections shall be subject to special inspection.</p> <p>New wall anchors shall be provided to resist the full wall anchorage design force independent of existing shear or tension anchors.</p> <p>Exception: Existing cast-in-place shear anchors are allowed to shall be used permitted as part of the wall anchors anchorage system if the tie element can be readily attached to the anchors, and if the engineer or architect can</p>		<p>New and updated requirements for wall anchorage.</p>

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	<p>establish tension values for the existing anchors through the use of approved as-built plans or testing and through analysis showing that the bolts are capable of resisting the total vertical and lateral shear load (including dead load) while being acted on by the maximum wall anchorage tension force caused by an earthquake. Criteria for analysis and testing Acceptable tension values for the existing anchors shall be determined by the building official established by testing in accordance with Section A205.4.</p>		
	<p>[BS] A206.3 Development of anchor loads forces into the diaphragm. Development of anchor loads the required anchorage forces into roof and floor diaphragms shall comply with the requirements of this section and Section 12.11.2.2 of ASCE 7. Section 1613 of the International Building Code using horizontal forces that are 75 percent of those used for new construction.</p> <p>In wood diaphragms, anchorage shall not be accomplished by use of toenails or nails subject to withdrawal. Wood ledgers, top plates or framing shall not be used in cross-grain bending or cross-grain tension. The continuous ties required in Section 1613 of the International Building Code shall be in addition to the diaphragm sheathing.</p> <p>Lengths of development of anchor loads in wood diaphragms shall be based on existing field nailing of the sheathing unless existing edge nailing is positively identified on the original construction plans or at the site.</p> <p>Exception: If continuously tied girders are present, the maximum spacing of the continuity ties is the greater of the girder spacing or 24 feet (7315 mm).</p>		<p>New and updated requirements for wall anchorage forces.</p>
	<p>[BS] A206.4 Anchorage at pilasters. Anchorage at pilasters shall be designed for the tributary wall anchoring load per Section A206.1, considering the wall as a two-way slab. The edges of the two-way slab shall be considered to be fixed where there is continuity at pilasters and shall be considered to be pinned at roof and floor. Where pilasters are present, the wall anchorage system shall comply with the requirements of this section and Section 12.11.2.2.7 of ASCE 7. The pilasters or the walls immediately adjacent to the pilasters shall be anchored directly to the roof framing such that the existing vertical anchor bolts at the top of the pilasters are bypassed without permission tension or shear failure at the top of the pilasters. The minimum anchorage force at a floor or roof between the pilaster shall be that specified in Section Section A206.1.</p>		<p>New and updated requirements for wall anchorage.</p>
	<p>[BS] A206.5 Symmetry. Symmetry of wall anchorage and continuity connectors about the minor axis of the framing member is required.</p>		<p>Base code section removed.</p>

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	Exception: Eccentricity shall be allowed where it can be shown that all components of forces are positively resisted. The resistance must be supported by calculations or tests		
	[BS]A206.6 A206.5 Combination of anchor types.		Base code renumbering.
	[BS]A206.7 A206.6 Anchorage at interior walls.		Base code renumbering.
	[BS]A206.8 A206.7 Collectors. If collectors are not present Collectors designed in accordance with this section shall be provided at reentrant corners and at interior shear walls, they shall be provided. Existing or new collectors shall have be designed for the capacity required to develop into the diaphragm a force equal to the lessor of the rocking or shear capacity of the reentrant wall or the tributary shear based on 75 percent of the diaphragm design horizontal forces specified in Section 12.10 of ASCE 7 Section 12.10 Chapter 16 of the International Building Code . The capacity of the collector need not exceed the capacity of the diaphragm to deliver loads to the collector. A connection shall be provided from the collector to the reentrant wall to transfer the full collector internal force (load). If a truss or beam other than a rafter or purlin is supported by the reentrant wall or by a column integral with the reentrant wall, then an independent secondary column is required to support the roof or floor members whenever rocking or shear capacity of the reentrant wall is less than the tributary shear.		Base code renumbering and minor updates to language.
	[BS]A206.9 A206.8 Mezzanines.		Base code renumbering.
	SECTION A401 GENERAL		
	[BS] A401.2 Scope. The provisions of this chapter shall apply to all existing Occupancy Group R-1 and R-2 buildings of wood construction or portions thereof that contain residential occupancies and are assigned to Risk Category II, and where the structure has a soft, weak or open-front wall line, and there exists one or more stories above.		
	SECTION A402 DEFINITIONS		

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	<p>[BS] ASPECT RATIO. The span-width ratio for horizontal diaphragms and the height-length ratio for shear walls.</p> <p>[BS] GROUND FLOOR. Any floor whose elevation is immediately accessible from an adjacent grade by vehicles or pedestrians. The ground floor portion of the structure does not include any floor that is completely below adjacent grades.</p> <p>[BS] STORY. A story as defined by the building code, including any basement or underfloor space of a building with cripple walls exceeding 4 feet (1219 mm) in height.</p> <p>[BS] STORY STRENGTH. The total strength of all seismic-resisting elements sharing the same story shear in the direction under consideration.</p>		<p>Minor changes to definitions.</p>
	<p style="text-align: center;">SECTION A403 ANALYSIS AND DESIGN</p>		
	<p>[BS] A403.2 Scope of analysis. This chapter requires the alteration, repair, replacement or addition of structural elements and their connections to meet the strength and stiffness requirements herein. The lateral load-path analysis shall include the resisting elements and connections from the wood diaphragm immediately above any soft, weak or open-front wall lines to the foundation soil interface or to the uppermost story of a podium structure comprised of steel, masonry, or concrete structural systems that supports the upper, wood-framed structure. Stories above the uppermost story with a soft, weak, or open-front wall line shall be considered in the analysis but need not be modified. The lateral load-path analysis for added structural elements shall include evaluation of the allowable soil-bearing and lateral pressures in accordance with the building code. Where any portion of a building within the scope of this chapter is constructed on or into a slope steeper than one unit vertical in three units horizontal (33-percent slope), the lateral force-resisting system at and below the base level diaphragm shall be analyzed for the effects of concentrated lateral forces at the base caused by this hillside condition.</p> <p>Exception: Where an open front, weak or soft wall line exists because of parking at the ground floor of a two-story building and the parking area is less than 20 percent of the ground floor area, then only the wall lines in the open, weak or soft directions of the enclosed parking area need comply with the provisions of this chapter.</p>		<p>Base code exception removed.</p>
	<p>[BS] A403.3 Design base shear and design parameters. The design base shear in a given direction shall be permitted to be 75 percent of the value required for similar new construction in accordance with the building code. The value of <i>R</i> used in the design of the strengthening of any story shall not exceed the lowest value of <i>R</i> used in the same direction at any story above. The system overstrength factor, Ω_o, and the deflection amplification factor, <i>C_d</i>, shall be not less than the largest</p>		<p>New language for seismic design in exceptions.</p>

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respective value corresponding to the *R* factor being used in the direction under consideration.

Exceptions:

1. For structures assigned to Seismic Design Category B, values of *R*, Ω_o , and C_d shall be permitted to be based on the seismic force-resisting system being used to achieve the required strengthening.
2. For structures assigned to Seismic Design Category C or D, values of *R*, Ω_o , and C_d shall be permitted to be based on the seismic force-resisting system being used to achieve the required strengthening, provided that when the strengthening is complete, the strengthened structure will not have an extreme weak story irregularity defined as Type 5b in ASCE 7 Table 12.3-2.
3. For structures assigned to Seismic Design Category E, values of *R*, Ω_o , and C_d shall be permitted to be based on the seismic force-resisting system being used to achieve the required strengthening, provided that when the strengthening is complete, the strengthened structure will not have an extreme soft story, a weak story, or an extreme weak story irregularity defined, respectively, as Types 1b, 5a, and 5b in ASCE 7 Table 12.3-2.
4. For retrofit systems involving different seismic force-resisting systems in the same direction within the same story, resisting elements are permitted to be designed using the least value of *R* for the different structural systems found in each independent line of resistance if all of the following conditions are met:
 - 4.1. The building is assigned to *Risk Category* I or II.
 - 4.2. The building height is no more than four stories above grade plane.
 - 4.3. The seismic force-resisting systems of the retrofitted building comprise only wood structural panel shear walls, steel moment-resisting frames, steel cantilever columns and steel-braced frames. Values for *C* and Ω_o shall be consistent with the *R* value used.
5. With reference to ASCE 7 Table 12.2-1, ordinary, intermediate and special steel systems, and all light-frame systems shall be permitted without limitation where those systems are used only for retrofit to comply with the requirements of this chapter.

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	<p>[BS] A403.3.1 Expected story strength. Despite any other requirements of Section A403.3 or A403.4, the total expected strength of retrofit elements added to any story need not exceed 1.7 times the expected strength of the story immediately above in a two-story building, or 1.3 times the expected strength of the story immediately above in a three-story or taller building, as long as the retrofit elements are located symmetrically about the center of mass of the story above, or so as to minimize torsion in the retrofitted story. Calculation of expected story strength and identification of irregularities in Section A403.3 shall be based on the expected strength of all wall lines, even if sheathed with nonconforming materials. The strength of a wall line above the retrofitted story shall be permitted to be reduced to account for inadequate load path or overturning resistance.</p>		<p>New story structural strength requirements.</p>
	<p>[BS] A403.3.2 Seismicity parameters, site class and geologic hazards. For any site designated as Site Class E, the value of F shall be taken as 1.2. Site-specific procedures are not required for compliance with this chapter. Mitigation of existing geologic site hazards such as liquefiable soil, fault rupture or landslide is not required for compliance with this chapter.</p>		<p>New seismic parameters.</p>
	<p>[BS] A403.7 Collector elements. Collector elements shall be provided that can transfer the seismic forces between originating in other portions of the building to the elements within the scope of Section A403.2 that provide resistance to those forces.</p>		
	<p>[BS] A403.8 Horizontal diaphragms. The strength of an existing horizontal diaphragm sheathed with wood structural panels or diagonal sheathing need not be investigated unless the diaphragm is required to transfer lateral forces from vertical elements of the seismic force-resisting system above the diaphragm to elements below the diaphragm because of an offset in placement of the elements. Rotational effects shall be accounted for where asymmetric wall stiffness increases shear demands.</p>		<p>Base code section removed.</p>
	<p>[BS] A403.8 Floor diaphragms. Floor diaphragms within the scope of Section A403.2 shall be shown to have adequate strength at the following locations:</p> <ol style="list-style-type: none"> 1. For straight lumber sheathed diaphragms without integral hardwood flooring throughout the diaphragm: The code official is authorized to waive the requirement where it is shown that the condition occurs in areas small enough not to affect overall building performance. 2. For all other diaphragms adequate strength shall be shown to be provided at locations where forces are transferred between the diaphragm and each new 		<p>New floor diagram requirements.</p>

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	<p style="color: cyan;">or strengthened vertical element of the seismic force-resisting system. Collector elements shall be provided where needed to distribute the transferred force over a greater length of diaphragm.</p> <p style="color: cyan;">Exception: Where the existing vertical elements of the seismic force-resisting system are shown to comply with this chapter, diaphragms need not be evaluated.</p>		
	<p>[BS] A403.9 Wood-framed shear walls. Wood-framed shear walls shall have strength and stiffness sufficient to resist the seismic loads and shall conform to the requirements of this section. Where new sheathing is applied to existing studs to create new wood-framed shear walls, the new wall elements shall be considered bearing wall systems for purposes of determining seismic design parameters.</p>		Updated wood-frame sheathing requirements.
	<p>[BS] A403.9.1 Gypsum or cement plaster products. Gypsum or cement plaster products shall not be used to provide the strength required by Section A403.3 or the stiffness required by Section A403.4. lateral resistance in a soft or weak story or in a story with an open front wall line, whether or not new elements are added to mitigate the soft, weak or open front condition.</p>		Updated gypsum/cement plaster strength requirements.
	<p>A403.10 Steel retrofit systems. Steel retrofit systems shall have strength and stiffness sufficient to resist the seismic loads and shall conform to the requirements of this section.</p>		New structural steel retrofit requirements.
	<p>A403.10.1 Special moment frames. Steel special moment frames shall comply with all applicable provisions of AISC 341, except that Section E3.4a addressing strong-column/weak-beams of AISC 341, is not required for columns that carry no gravity load.</p>		New structural steel retrofit requirements.
	<p>A403.10.2 Inverted moment frame systems. Cantilevered column systems shall be permitted to be designed as inverted special, intermediate or ordinary moment frames, with corresponding moment frame seismic design coefficients, where the system satisfies the following conditions:</p> <ol style="list-style-type: none"> 1. The columns carry no gravity load. 2. The columns are configured in pairs or larger groups connected by a continuous reinforced concrete foundation or grade beam. 3. The foundation or grade beam shall be designed to resist the expected plastic moment at the base of each column, computed as $R_p F_y Z$ in accordance with AISC 341. 4. The flexibility of the foundation or grade beam. 		New structural steel retrofit requirements.

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	<p><u>considering cracked section properties of the reinforced concrete, shall be included in computing the deformation of the steel frame system.</u></p> <p>5. The column height shall be taken as twice the actual height when checking lateral torsional buckling.</p>		
	<p>SECTION A404 PRESCRIPTIVE MEASURES FOR WEAK STORY</p>		
	<p>[BS] A404.1 Limitation. These prescriptive measures shall apply only to two-story buildings and only where deemed appropriate by the <i>code official</i>. These prescriptive measures rely on rotation of the second floor diaphragm to distribute the seismic load between the side and rear walls of the <u>around a ground floor open area</u>. In the absence of an existing floor diaphragm of wood structural panel or diagonal sheathing <u>at the top of the first story</u>, a new wood structural panel diaphragm of minimum thickness of 3/4 inch (19.1 mm) and with 10d common nails at 6 inches (152 mm) on center shall be applied.</p>		Base code renumbering, and minor edits made to clarify code.
	<p>SECTION A406 CONSTRUCTION DOCUMENTS INFORMATION REQUIRED TO BE ON THE PLANS</p>		
	<p>[BS] A406.1 General The plans shall show all information necessary for plan review and for construction and shall accurately <u>reflect</u> the results of the engineering investigation and design. The plans shall contain a note that states that this retrofit was designed in compliance with the criteria of this chapter.</p>		Minor wordsmithing changes.
	<p>[BS] A406.2 Existing construction. The plans shall show existing diaphragm and shear wall sheathing and framing materials; fastener type and spacing; diaphragm and shear wall connections; continuity ties; collector elements; and the portion of the existing materials that needs verification during construction. <u>If the cap allowed by Section A403.3.1 is used to limit the scope of retrofit, the foregoing information shall be shown for each retrofitted story and at least one story above the uppermost retrofitted story. If the cap allowed by Section A403.3.1 is not used, the foregoing information need only be shown for each retrofitted story and for the floor at the top of that story.</u></p>		New language providing for scope of existing construction retrofitting.
	<p>[BS] A406.3.2 Framing plan elements. The framing plan shall include the length, location and material of shear walls; the location and material of frames; references on <u>or</u> details for the column-to-beam connectors, beam-to-wall connections and shear transfers at floor and roof</p>		Minor wordsmithing changes.

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	diaphragms; and the required nailing and length for wall top plate splices.		
	<p>[BS] A406.3.3 Shear wall schedule, notes and details. Shear walls shall have a referenced schedule on the plans that includes the correct shear wall capacity in pounds per foot (N/m); the required fastener type, length, gage and head size; a complete specification for the sheathing material and its thickness. The schedule shall also show the required location of 3-inch (76 mm) nominal or two 2-inch (51 mm) nominal edge members; the spacing of shear transfer elements such as framing anchors or added sill plate nails; the required hold-down with its bolt, screw or nail sizes; and the dimensions, lumber grade and species of the attached framing member.</p> <p>Notes shall show required edge distance for fasteners on of structural wood panels and framing members; required flush nailing at the plywood surface; limits of mechanical penetrations; and the sill plate material assumed in the design. The limits of mechanical penetrations shall be detailed showing the maximum notching and drilled hole sizes.</p>		Minor wordsmithing changes.
	SECTION A407 QUALITY CONTROL		Edits made to clarify code, no major change to code
	<p>[BS] A407.1 Structural <u>observation, testing and inspection.</u> Structural observation, in accordance with <u>Section 1704.6</u> 1709 of the <i>International Building Code</i> shall be required for all structures in which seismic retrofit is being performed in accordance with this chapter <u>is required, regardless of seismic design category, height or other conditions.</u> Structural observation shall include visual observation of work for conformance to the <i>approved</i> construction documents and confirmation of existing conditions assumed during <u>design.</u> Structural testing and inspection for new construction materials shall be in accordance with the building code, except as modified by this chapter.</p>		Updates to structural observation requirements.
	<p><u>A407.2 Contractor responsibility.</u> Contractor responsibility shall be in accordance with Section 1704.4 of the <i>International Building Code.</i></p>		New requirements for contractor responsibility.
	<p><u>A407.3 Testing and inspection.</u> Structural testing and inspection for new construction materials, submittals, reports and certificates of compliance shall be in accordance with Sections 1704 and 1705 of the <i>International Building Code.</i> Work done to comply with this chapter shall not be eligible for Exceptions 1, 2, or 3 of Section 1704.2 of the <i>International</i></p>		New structural testing and inspection requirements.

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<u>APPENDIX D</u> <u>LIFE-SAFETY REQUIREMENTS</u> <u>FOR EXISTING BUILDINGS</u>	APPENDIX D BOARD OF APPEALS	<u>APPENDIX D</u> <u>LIFE-SAFETY REQUIREMENTS FOR</u> <u>EXISTING BUILDINGS</u>	New board of appeals requirements in base code. This appendix is not adopted nor used by Houston. Houston amendment for Appendix D continues to be Houston appendix for existing building life-safety requirements.
	<i>The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.</i> User notes: About this appendix: Appendix D provides criteria for Board of Appeals members. Also provided are procedures by which the Board of Appeals should conduct its business. Code development reminder: Code change proposals to this appendix will be considered by the Administrative Code Development Committee during the 2022 (Group B) Code Development Cycle.		New user note for board of appeals appendix.
	<u>SECTION D101</u> <u>GENERAL</u>	<u>SECTION D101</u> <u>GENERAL</u>	New scope for board of appeals
D101.1 Purpose. The purpose of this appendix is to provide a reasonable degree of safety to persons occupying existing buildings by providing for alterations to such existing buildings that do not conform with the minimum requirements of this code. This appendix shall apply to and the term "existing building" shall be construed to mean any building existing within the corporate limits of the jurisdiction on January 1, 1986, and any building annexed into the corporate limits after that date.	[A] D101.1 Scope. A board of appeals shall be established within the jurisdiction for the purpose of hearing applications for modification of the requirements of this code pursuant to the provisions of Section 112. The board shall be established and operated in accordance with this section, and shall be authorized to hear evidence from appellants and the code official pertaining to the application and intent of this code for the purpose or issuing orders pursuant to these provisions.	D101.1 Purpose. The purpose of this appendix is to provide the Occupancy Inspections department regulations to ensure a reasonable degree of life safety to persons occupying existing buildings, and to provide requirements for alterations to such existing buildings that do not conform with the minimum requirements of this code. This appendix shall apply to and the term "existing building" shall be construed to mean any building existing within the corporate limits of the <i>jurisdiction</i> on January 1, 1986, and any building annexed into the corporate limits after that date.	New board of appeals requirements. Minor wordsmithing to Houston amendment.
D101.2 Compliance program. The owner of any existing building found to be in noncompliance with the requirement for a certificate of occupancy may be cited under this code and required to secure a certificate of compliance within 90 days after the date of citation. The owner of an existing building annexed into the <i>jurisdiction</i> shall apply for inspection within one year from the date of annexation. The <i>building official</i> shall determine the relative hazard category of each application and shall schedule inspections starting with the highest hazard category associated with the buildings occupancy as identified by Table D101.2.	[A] D101.2 Application for appeal. Any person shall have the right to appeal a decision of the <i>code official</i> to the board. An application for appeal shall be based on a claim that the intent of this code or the rules legally adopted hereunder have been incorrectly interpreted, the provisions of this code do not fully apply or an equally good or better form of construction is proposed. The application shall be filed on a form obtained from the <i>code official</i> within 20 days after the notice was served.	D101.2 Compliance program. The owner of any existing building found to be in noncompliance with the requirement for a certificate of occupancy may be cited under this code and required to secure a certificate of compliance within 90 days after the date of citation. The owner of an existing building annexed into the <i>jurisdiction</i> shall apply for inspection within one year from the date of annexation. The <i>building official</i> shall determine the relative hazard category of each application and shall schedule inspections starting with the highest hazard category associated with the buildings occupancy as identified by Table D101.2. In situations where the <i>jurisdiction</i> or any other regulatory authority requires a valid certificate of occupancy prior to	New board of appeals requirements. No change to Houston amendment.

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In situations where the *jurisdiction* or any other regulatory authority requires a valid certificate of occupancy prior to licensing a use and no certificate of occupancy was issued at the time of construction, a Life-Safety Compliance Certificate shall satisfy the requirements for an existing building. Inspections that are required for permitting or licensing shall be given priority over other inspections provided that the applicant advises the *building official* of the need. An application for inspection under this appendix chapter shall be regarded as an application for a certificate of occupancy for purposes of Section 10-3.1 of the *City Code*, and each application must be accompanied by the affidavit specified therein.

**TABLE D101.2
HAZARD CATEGORIES**

RELATIVE HAZARD	OCCUPANCY CLASSIFICATIONS
1 (Highest Hazard)	Group A1, Group A2; Group E; Group I; Group H1, and Group H2.
2	Group A3 Group A4, Group A5.
3	Group R1, Group R2, Group R3; Group B, dining and drinking establishments; Group H3, Group H4, and Group H5.
4 (Lowest Hazard)	Group B other than dining and drinking establishments and Group F1, Group F2, Group M, Group S1, and Group S2.

The *building official* shall notify the building owner or the owner's agent of a scheduled inspection at least 30 days in advance. Within 15 days following notification of the inspection date, the owner or agent shall pay the applicable fees established in Section 118 of the *Building Code* and the *city fee schedule*. Following the inspection, the *building official* shall issue a Certificate of Occupancy if there are no deficiencies. Where deficiencies are found, the owner or agent shall be advised in writing of the nature of the observed deficiencies that require correction. Such written notice shall not be construed to excuse the existence of any defects that may not have been observed or noted by the inspector, and it shall be the duty of the owner to determine and correct all violations of this appendix . It shall be the duty of the owner or agent to bring the building into full compliance with this appendix chapter within six months from the date that notice is given of deficiencies noted in the inspection except to the extent that an extension of time has been granted as provided in Section D109.

Promptly after the *building official's* receipt of notice from the owner that the building is in full compliance with this appendix chapter, the *building official* shall inspect the building. Upon confirmation that the building is in full compliance with this appendix chapter, the *building official* shall issue a Certificate of Occupancy for the building.

licensing a use and no certificate of occupancy was issued at the time of construction, a Life-Safety Compliance Certificate shall satisfy the requirements for an existing building. Inspections that are required for permitting or licensing shall be given priority over other inspections provided that the applicant advises the *building official* of the need. An application for inspection under this appendix chapter shall be regarded as an application for a certificate of occupancy for purposes of Section 10-3.1 of the *City Code*, and each application must be accompanied by the affidavit specified therein.

**TABLE D101.2
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Promptly after the *building official's* receipt of notice from the owner that the building is in full compliance with this appendix chapter, the *building official* shall inspect the building. Upon confirmation that the building is in full compliance with this appendix chapter, the *building official* shall issue a Certificate of Occupancy for the building.

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	[A] D101.2.1 Limitation of authority. The board shall not have authority to waive requirements of this code or interpret the administration of this code.		New board of appeals requirements.
	[A] D101.2.2 Stays of enforcement. Appeals of notice and orders, other than Imminent Danger notices, shall stay the enforcement of the notice and order until the appeal is heard by the board.		New board of appeals requirements.
D101.3 Unsafe or hazardous conditions. Any condition in a building or building system, including, but not limited to, electrical, mechanical, and plumbing systems, that is found to be unsafe, unsanitary or hazardous during a life-safety compliance inspection shall be corrected as a part of the owner's compliance plan.	[A] D101.3 Membership of board. The board shall consist of five voting members appointed by the chief appointing authority of the jurisdiction. Each member shall serve for [INSERT NUMBER OF YEARS] years or until a successor has been appointed. The board member's terms shall be staggered at intervals, so as to provide continuity. The code official shall be an ex officio member of said board but shall not vote on any matter before the board.	D101.3 Unsafe or hazardous conditions. Any condition in a building or building system, including, but not limited to, electrical, mechanical, and plumbing systems, that is found to be unsafe, unsanitary or hazardous during a life-safety compliance inspection shall be corrected as a part of the owner's compliance plan.	New board of appeals requirements. No change to Houston amendment.
	[A] D101.3.1 Qualifications. The board shall consist of five individuals, who are qualified by experience and training to pass on matters pertaining to building construction and are not employees of the jurisdiction.		New board of appeals requirements.
	[A] D101.3.2 Alternate members. The chief appointing authority is authorized to appoint two alternate members who shall be called by the board chairperson to hear appeals during the absence or disqualification of a member. Alternate members shall possess the qualifications required for board membership, and shall be appointed for the same term or until a successor has been appointed.		New board of appeals requirements.
	[A] D101.3.3 Vacancies. Vacancies shall be filled for an unexpired term in the same manner in which original appointments are required to be made.		New board of appeals requirements.
	[A] D101.3.4 Chairperson. The board shall annually select one of its members to serve as chairperson.		New board of appeals requirements.
	[A] D101.3.5 Secretary. The chief appointing authority shall designate a qualified clerk to serve as secretary to the board. The secretary shall file a detailed record of all proceedings, which shall set forth the reasons for the board's decision, the vote of each member, the absence of a member and any failure of a member to vote.		New board of appeals requirements.

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	[A] D 101.3.6 Conflict of interest. A member with any personal, professional or financial interest in a matter before the board shall declare such interest and refrain from participating in discussions, deliberations and voting on such matters.		New board of appeals requirements.
	[A] D101.3.7 Compensation of members. Compensation of members shall be determined by law.		New board of appeals requirements.
	[A] D101.3.8 Removal from the board. A member shall be removed from the board prior to the end of their terms only for cause. Any member with continued absence from regular meeting of the board may be removed at the discretion of the chief appointing authority.		New board of appeals requirements.
D101.4 Alternate materials and methods. Alternate materials and methods may be used, provided such materials or methods are found by the <i>building official</i> to be, for the purpose intended, at least the equivalent of that prescribed in this chapter in suitability, strength, effectiveness, fire resistance, durability and safety. The <i>building official</i> may permit alternates in conformance with Section 104.11.	[A] D101.4 Rules and procedures. The board shall establish policies and procedures necessary to carry out its duties consistent with the provisions of this code and applicable state law. The procedures shall not require compliance with strict rules of evidence, but shall mandate that only relevant information be presented.	D101.4 Alternate materials and methods. Alternate materials and methods may be used, provided such materials or methods are found by the <i>building official</i> to be, for the purpose intended, at least the equivalent of that prescribed in this chapter in suitability, strength, effectiveness, fire resistance, durability and safety. The <i>building official</i> may permit alternates in conformance with Section 104.11.	New board of appeals requirements. No change to Houston amendment.
D101.5 Dangerous buildings. The provisions of this appendix chapter shall not be construed to authorize the maintenance, use, or keeping of any building in such condition that it constitutes a dangerous building under Chapter 10, Article IX, of the <i>City Code</i> (the <i>Houston Building Standards Code</i>), or to excuse or extend time given for compliance with any order issued thereunder by the hearing officer.	[A] D101.5 Notice of meeting. The board shall meet upon notice from the chairperson, within 10 days of the filing of an appeal or at stated periodic intervals.	D101.5 Dangerous buildings. The provisions of this appendix chapter shall not be construed to authorize the maintenance, use, or keeping of any building in such condition that it constitutes a dangerous building under Chapter 10, Article IX, of the <i>City Code</i> (the <i>Houston Building Standards Code</i>), or to excuse or extend time given for compliance with any order issued thereunder by the hearing officer.	New board of appeals requirements. No change to Houston amendment.
	[A] D101.5.1 Open hearing. All hearings before the board shall be open to the public. The appellant, the appellant's representative, the <i>code official</i> and any person whose interests are affected shall be given an opportunity to be heard.		New board of appeals requirements.
	[A] D101.5.2 Quorum. Three members of the board shall constitute a quorum.		New board of appeals requirements.
	[A] D101.5.3 Postponed hearing. When five members are not present to hear an appeal, either the appellant or the appellant's representative shall have the right to request a postponement of the hearing.		New board of appeals requirements.
	[A] D101.6 Legal counsel. The jurisdiction shall furnish legal counsel to the board to provide members with general legal advice concerning matters before them for consideration. Members shall be represented by legal counsel at the		New board of appeals requirements.

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	<u>jurisdiction's expense in all matters arising from service within the scope of their duties.</u>		
	[A] D101.7 Board decision. <u>The board shall only modify or reverse the decision of the code official by a concurring vote of three or more members.</u>		New board of appeals requirements.
	[A] D101.7.1 Resolution. <u>The decision of the board shall be by resolution. Every decision shall be promptly filed in writing in the office of the code official within three days and shall be open to the public for inspection. A certified copy shall be furnished to the appellant or the appellant's representative and to the code official.</u>		New board of appeals requirements.
	[A] D101.7.2 Administration. <u>The code official shall take immediate action in accordance with the decision of the board.</u>		New board of appeals requirements.
	[A] D101.8 Court review. <u>Any person, whether or not a previous party of the appeal, shall have the right to apply to the appropriate court for a writ of certiorari to correct errors of law. Application for review shall be made in the manner and time required by law following the filing of the decision in the chief administrative officer.</u>		New board of appeals requirements.
		<u>SECTION D102</u> <u>EXITS</u>	
D102.1 Number of means of egress. <u>Every floor above the first story used for human occupancy shall have at least two separate means of egress, one of which may be an exterior fire escape complying with Section D102.4. Subject to the approval of the building official, an approved exit ladder device may be used in lieu of a fire escape when the construction features or location of the building on the property makes the installation of a fire escape impracticable.</u> Exception: <u>In all occupancies, second stories with an occupant load of 10 or less may have one means of egress.</u> <u>An exit ladder device, when used in lieu of a fire escape, shall conform to the provisions in Section D102.7. The use of an exit ladder device shall be permitted where all the following conditions apply:</u> <ol style="list-style-type: none"><u>The device shall serve an occupant load of 10 or fewer, a single dwelling, or a guest room.</u><u>The building does not exceed three stories in height.</u>		D102.1 Number of means of egress. <u>Every floor above the first story used for human occupancy shall have at least two separate means of egress, one of which may be an exterior fire escape complying with Section D102.4. Subject to the approval of the building official, an approved exit ladder device may be used in lieu of a fire escape when the construction features or location of the building on the property makes the installation of a fire escape impracticable.</u> Exception: <u>In all occupancies, second stories with an occupant load of 10 or less may have one means of egress.</u> <u>An exit ladder device, when used in lieu of a fire escape, shall conform to the provisions in Section D102.7. The use of an exit ladder device shall be permitted where all the following conditions apply:</u> <ol style="list-style-type: none"><u>The device shall serve an occupant load of 10 or fewer, a single dwelling, or a guest room.</u><u>The building does not exceed three stories in height.</u>	No change to Houston amendment.

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<p>3. <u>Access to the device is adjacent to an opening as specified for emergency egress or rescue from a balcony.</u></p> <p>4. <u>The device, when operated, shall not pass in front of any building opening below the unit being served.</u></p> <p>5. <u>The means of activating the device for the ladder is accessible only from the opening or balcony served, and</u></p> <p>6. <u>The device shall be installed so that it will not cause a person using it to be within 6 feet (1829 mm) of exposed electrical wiring.</u></p>		<p>3. <u>Access to the device is adjacent to an opening as specified for emergency egress or rescue from a balcony.</u></p> <p>4. <u>The device, when operated, shall not pass in front of any building opening below the unit being served.</u></p> <p>5. <u>The means of activating the device for the ladder is accessible only from the opening or balcony served, and</u></p> <p>6. <u>The device shall be installed so that it will not cause a person using it to be within 6 feet (1829 mm) of exposed electrical wiring.</u></p>	
<p>D102.2 Stair construction. All required stairs shall have a minimum run of 9 inches (229 mm) and a maximum rise of 8 inches (203 mm) and shall have a minimum width of 30 inches (762 mm) exclusive of handrails. Every stairway shall have at least one handrail. A landing having a minimum 30-inch (762 mm) run in the direction of travel shall be provided at each point of access to the stairway.</p> <p>Exception: Fire escapes as provided for in this section.</p> <p>Exterior stairs shall be of noncombustible construction.</p> <p>Exception: On buildings of Type III, IV and V construction, provided the exterior stairs are constructed of wood not less than 2-inch (51 mm) nominal thickness.</p>		<p>D102.2 Stair construction. All required stairs shall have a minimum run of 9 inches (229 mm) and a maximum rise of 8 inches (203 mm) and shall have a minimum width of 30 inches (762 mm) exclusive of handrails. Every stairway shall have at least one handrail. A landing having a minimum 30-inch (762 mm) run in the direction of travel shall be provided at each point of access to the stairway.</p> <p>Exception: Fire escapes as provided for in this section.</p> <p>Exterior stairs shall be of noncombustible construction.</p> <p>Exception: On buildings of Type III, IV and V construction, provided the exterior stairs are constructed of wood not less than 2-inch (51 mm) nominal thickness.</p>	<p>No change to Houston amendment.</p>
<p>D102.3 Corridors. Corridors serving as an exit for an occupant load of 30 or more shall have walls and ceilings of not less than one-hour fire-resistive construction as required by this code. Existing walls surfaced with wood lath and plaster in good condition or 1/2-inch (12.7 mm) gypsum wallboard or openings with fixed wired glass set in metal frames are permitted for corridor walls and ceilings and occupancy separations when approved. Doors opening into such corridors shall be protected by 20-minute fire assemblies or solid wood doors not less than 1 3/4-inches (45 mm) thick. Where the existing frame will not accommodate a 1 3/4-inch thick (45 mm) door, a 1 3/8-inch thick (35 mm) solid bonded wood-core door or equivalent insulated steel door shall be permitted. Except for Group I occupancy patient rooms, treatment rooms, and emergency rooms, doors shall be self-closing or automatic closing by smoke detection. Transoms and openings other than doors from corridors to rooms shall comply with Section 714 of the <i>Building Code</i> or be covered with a minimum of 1/2-inch (12.7 mm) gypsum wallboard or equivalent material on the room side.</p> <p>Exception: Existing corridor walls, ceilings, and opening protection not in compliance with D102.3 above may be continued when such buildings are protected with an approved automatic sprinkler system throughout the floor or when such existing corridors are at least 10 feet (3048 mm)</p>		<p>D102.3 Corridors. Corridors serving as an exit for an occupant load of 30 or more shall have walls and ceilings of not less than one-hour fire-resistive construction as required by this code. Existing walls surfaced with wood lath and plaster in good condition or 1/2-inch (12.7 mm) gypsum wallboard or openings with fixed wired glass set in metal frames are permitted for corridor walls and ceilings and occupancy separations when approved. Doors opening into such corridors shall be protected by 20-minute fire assemblies or solid wood doors not less than 1 3/4-inches (45 mm) thick. Where the existing frame will not accommodate a 1 3/4-inch thick (45 mm) door, a 1 3/8-inch thick (35 mm) solid bonded wood-core door or equivalent insulated steel door shall be permitted. Except for Group I occupancy patient rooms, treatment rooms, and emergency rooms, doors shall be self-closing or automatic closing by smoke detection. Transoms and openings other than doors from corridors to rooms shall comply with Section 714 of the <i>Building Code</i> or be covered with a minimum of 1/2-inch (12.7 mm) gypsum wallboard or equivalent material on the room side.</p> <p>Exception: Existing corridor walls, ceilings, and opening protection not in compliance with D102.3 above may be continued when such buildings are protected with an approved automatic sprinkler system throughout the floor or</p>	<p>No change to Houston amendment.</p>

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<p>or more in width.</p>		<p><u>when such existing corridors are at least 10 feet (3048 mm) or more in width.</u></p>	
<p>D102.4 Fire escapes. D102.4.1 Use as required exit. Existing fire escapes that, in the opinion of the <i>building official</i>, comply with the intent of this section may be used as one of the required exits. The location and anchorage of fire escapes shall be of an approved design and construction acceptable to the <i>building official</i>.</p>		<p>D102.4 Fire escapes. D102.4.1 Use as required exit. Existing fire escapes that, in the opinion of the <i>building official</i>, comply with the intent of this section may be used as one of the required exits. The location and anchorage of fire escapes shall be of an approved design and construction acceptable to the <i>building official</i>.</p>	<p>No change to Houston amendment.</p>
<p>D102.4.2 General requirements. Fire escapes shall comply with all of the following:</p> <ol style="list-style-type: none"> 1. <u>Access from a corridor shall not be through an intervening room.</u> 2. <u>All openings within 10 feet (3,048 mm) of fire escape shall be protected by ¾-hour fire assemblies. When located within a recess or vestibule, adjacent enclosure walls shall be of not less than one-hour fire-resistive construction.</u> 3. <u>Egress from the building shall be by an unobstructed opening having a minimum dimension of not less than 29 inches (737 mm). Such openings shall be openable from the inside without the use of a key or special knowledge or effort. The sill of an opening giving access shall not be more than 30 inches (762 mm) above the floor of the building or balcony.</u> 4. <u>Fire escape stairways and balconies shall support the dead load plus a live load of not less than 100 pounds per square foot (4.79 kN/m²) and shall be provided with a top and intermediate handrail on each side. The pitch of the stairway shall not exceed 60 degrees with a minimum width of 18 inches (457 mm). Treads shall be not less than 4 inches (102 mm) in width and the rise between treads shall not exceed 10 inches (254 mm). All stair and balcony railings shall support a horizontal force of not less than 50 pounds per lineal foot (729.5 N/m) of railing.</u> 5. <u>Balconies shall be not less than 44 inches (1,118 mm) in width with no floor opening, other than the stairway opening, greater than ⅝ inch (16 mm) in width. Stairway openings in such balconies shall be not less than 22 inches by 44 inches (559 mm by 1118 mm). The balustrade of each balcony shall be not less than 36 inches (914 mm) high with not more than 9 inches (229 mm) between balusters.</u> 		<p>D102.4.2 General requirements. Fire escapes shall comply with all of the following:</p> <ol style="list-style-type: none"> 1. <u>Access from a corridor shall not be through an intervening room.</u> 2. <u>All openings within 10 feet (3,048 mm) of fire escape shall be protected by ¾-hour fire assemblies. When located within a recess or vestibule, adjacent enclosure walls shall be of not less than one-hour fire-resistive construction.</u> 3. <u>Egress from the building shall be by an unobstructed opening having a minimum dimension of not less than 29 inches (737 mm). Such openings shall be openable from the inside without the use of a key or special knowledge or effort. The sill of an opening giving access shall not be more than 30 inches (762 mm) above the floor of the building or balcony.</u> 4. <u>Fire escape stairways and balconies shall support the dead load plus a live load of not less than 100 pounds per square foot (4.79 kN/m²) and shall be provided with a top and intermediate handrail on each side. The pitch of the stairway shall not exceed 60 degrees with a minimum width of 18 inches (457 mm). Treads shall be not less than 4 inches (102 mm) in width and the rise between treads shall not exceed 10 inches (254 mm). All stair and balcony railings shall support a horizontal force of not less than 50 pounds per lineal foot (729.5 N/m) of railing.</u> 5. <u>Balconies shall be not less than 44 inches (1,118 mm) in width with no floor opening, other than the stairway opening, greater than ⅝ inch (16 mm) in width. Stairway openings in such balconies shall be not less than 22 inches by 44 inches (559 mm by 1118 mm). The balustrade of each balcony shall be not less than 36 inches (914 mm) high with not more than 9 inches (229 mm) between balusters.</u> 6. <u>Fire escapes shall extend to the roof or provide an approved gooseneck ladder between the top floor</u> 	<p>No change to Houston amendment.</p>

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<p>6. <u>Fire escapes shall extend to the roof or provide an approved gooseneck ladder between the top floor landing and the roof when serving buildings four or more stories in height having roofs with a slope of less than 4 units vertical in 12 units horizontal (33.3% slope). Fire escape ladders shall be designed and connected to the building to withstand a horizontal force of 100 pounds per lineal foot (1459 N/m); each rung shall support a concentrated load of 500 pounds (2,224 N) placed anywhere on the rung. All ladders shall be at least 15 inches (381 mm) wide, located within 12 inches (305 mm) of the building and shall be placed flatwise relative to the face of the building. Ladder rungs shall be ¾ inch (19 mm) in diameter and shall be located 12 inches (305 mm) on center. Openings for roof access ladders through cornices and similar projections shall have minimum dimensions of 30 inches by 33 inches (762 mm by 838 mm).</u></p> <p>7. <u>The lowest balcony shall be not more than 18 feet (5,486 mm) from the ground. Fire escapes shall extend to the ground or be provided with counterbalanced stairs reaching to the ground.</u></p> <p>8. <u>Fire escapes shall not take the place of stairways required by the codes under which the building was constructed, and</u></p> <p>9. <u>Fire escapes shall be kept unobstructed at all times and maintained in good working order.</u></p>		<p><u>landing and the roof when serving buildings four or more stories in height having roofs with a slope of less than 4 units vertical in 12 units horizontal (33.3% slope). Fire escape ladders shall be designed and connected to the building to withstand a horizontal force of 100 pounds per lineal foot (1459 N/m); each rung shall support a concentrated load of 500 pounds (2,224 N) placed anywhere on the rung. All ladders shall be at least 15 inches (381 mm) wide, located within 12 inches (305 mm) of the building and shall be placed flatwise relative to the face of the building. Ladder rungs shall be ¾ inch (19 mm) in diameter and shall be located 12 inches (305 mm) on center. Openings for roof access ladders through cornices and similar projections shall have minimum dimensions of 30 inches by 33 inches (762 mm by 838 mm).</u></p> <p>7. <u>The lowest balcony shall be not more than 18 feet (5,486 mm) from the ground. Fire escapes shall extend to the ground or be provided with counterbalanced stairs reaching to the ground.</u></p> <p>8. <u>Fire escapes shall not take the place of stairways required by the codes under which the building was constructed, and</u></p> <p>9. <u>Fire escapes shall be kept unobstructed at all times and maintained in good working order.</u></p>	
<p>D102.5 Exit and fire escape signs. Exit signs shall be provided as required by this code.</p> <p><u>Exception: The use of existing exit signs may be continued when found by the <i>building official</i> to provide adequate direction to the exits in emergency situations.</u></p> <p><u>All doors or windows providing access to a fire escape shall be provided with fire escape signs.</u></p>		<p>D102.5 Exit and fire escape signs. Exit signs shall be provided as required by this code.</p> <p><u>Exception: The use of existing exit signs may be continued when found by the <i>building official</i> to provide adequate direction to the exits in emergency situations.</u></p> <p><u>All doors or windows providing access to a fire escape shall be provided with fire escape signs.</u></p>	<p>No change to Houston amendment.</p>
<p>D102.6 Exit illumination. Exits shall be illuminated as required by Section 1008 of the <i>Building Code</i>.</p>		<p>D102.6 Exit illumination. Exits shall be illuminated as required by Section 1008 of the <i>Building Code</i>.</p>	<p>No change to Houston amendment.</p>
<p>D102.7 Exit ladder devices.</p> <p>D102.7.1 General. Where permitted by this appendix chapter, exit ladder devices shall be installed and maintained in accordance with the manufacturer's instructions and Section D102.1. Detailed plans with appropriate installation instructions shall be provided by a Texas professional engineer to address all structural</p>		<p>D102.7 Exit ladder devices.</p> <p>D102.7.1 General. Where permitted by this appendix chapter, exit ladder devices shall be installed and maintained in accordance with the manufacturer's instructions and Section D102.1. Detailed plans with appropriate installation instructions shall be provided by a Texas professional engineer to address all structural requirements of all</p>	<p>No change to Houston amendment.</p>

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<p>requirements of all applicable loads including, but not limited to, the loads identified in Section D102.7.2 Where exit ladder devices are intended for mounting on different support surfaces, specific instructions shall be provided for each surface.</p>		<p>applicable loads including, but not limited to, the loads identified in Section D102.7.2 Where exit ladder devices are intended for mounting on different support surfaces, specific instructions shall be provided for each surface.</p>	
<p>D102.7.2 Design. All load-bearing surfaces and supporting hardware shall be of non-combustible materials. Exit ladder devices shall have a minimum width of 12 inches (305 mm) when in the position intended for use. The design load shall not be less than 400 pounds (1,780 N) for ladders having 16-foot (4,877 mm) lengths and 600 pounds (2,669 N) for ladders having 25-foot (7,620 mm) lengths. Exit ladder devices shall be capable of withstanding an applied load of four times the design load when installed in the manner intended for use.</p>		<p>D102.7.2 Design. All load-bearing surfaces and supporting hardware shall be of non-combustible materials. Exit ladder devices shall have a minimum width of 12 inches (305 mm) when in the position intended for use. The design load shall not be less than 400 pounds (1,780 N) for ladders having 16-foot (4,877 mm) lengths and 600 pounds (2,669 N) for ladders having 25-foot (7,620 mm) lengths. Exit ladder devices shall be capable of withstanding an applied load of four times the design load when installed in the manner intended for use.</p>	<p>No change to Houston amendment.</p>
<p>D102.7.3 Testing. Exit ladder devices of the retractable type shall, in addition to the static load requirements of Section D102.7.2, be capable of withstanding all the following tests:</p> <ol style="list-style-type: none"> 1. Rung strength. 2. Rung-to-side-rail shear strength. 3. Release mechanism, and 4. Low temperature. <p>Test loads shall be applied for a period of one hour.</p>		<p>D102.7.3 Testing. Exit ladder devices of the retractable type shall, in addition to the static load requirements of Section D102.7.2, be capable of withstanding all the following tests:</p> <ol style="list-style-type: none"> 5. Rung strength. 6. Rung-to-side-rail shear strength. 7. Release mechanism, and 8. Low temperature. <p>Test loads shall be applied for a period of one hour.</p>	<p>No change to Houston amendment.</p>
<p>D102.7.3.1 Rung-strength test. Rungs of retractable exit ladder devices shall be capable of withstanding a load of 1,000 pounds (4,448 N) when applied to a 3½-inch (89 mm) wide block resting at the center of the rung. The test load shall be applied for a period of one hour. The ladder shall remain operational following this test.</p>		<p>D102.7.3.1 Rung-strength test. Rungs of retractable exit ladder devices shall be capable of withstanding a load of 1,000 pounds (4,448 N) when applied to a 3½-inch (89 mm) wide block resting at the center of the rung. The test load shall be applied for a period of one hour. The ladder shall remain operational following this test.</p>	<p>No change to Houston amendment.</p>
<p>D102.7.3.2 Rung-to-side-rail shear test. Rungs of retractable exit ladder devices shall be capable of withstanding a load of 1,000 pounds (4,448 N) when applied to a 3½-inch (89 mm) wide block resting on the center rung as near the side rail as possible. The test load shall be applied for a period of one hour. Acceptable test results shall show no evidence of attachment failure of the rungs to the side rails including, but not limited to, visual evidence of displacement, tears, bending, or stretching, upon removal of the test load. The ladder shall remain operational following this test.</p>		<p>D102.7.3.2 Rung-to-side-rail shear test. Rungs of retractable exit ladder devices shall be capable of withstanding a load of 1,000 pounds (4,448 N) when applied to a 3½-inch (89 mm) wide block resting on the center rung as near the side rail as possible. The test load shall be applied for a period of one hour. Acceptable test results shall show no evidence of attachment failure of the rungs to the side rails including, but not limited to, visual evidence of displacement, tears, bending, or stretching, upon removal of the test load. The ladder shall remain operational following this test.</p>	<p>No change to Houston amendment.</p>

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<p>D102.7.3.3 Release mechanism test. <u>The release mechanism for a retractable exit ladder device shall be tested to determine that it operates with an average applied force of not more than 5 pounds (22.2 N) for hand-operated releasing mechanisms and an average applied force of not more than 25 pounds (111 N) for foot-pedal types of releasing mechanisms. For these tests, a force gauge shall be applied to the release mechanism, and the average of three consecutive readings shall be computed.</u></p>		<p>D102.7.3.3 Release mechanism test. <u>The release mechanism for a retractable exit ladder device shall be tested to determine that it operates with an average applied force of not more than 5 pounds (22.2 N) for hand-operated releasing mechanisms and an average applied force of not more than 25 pounds (111 N) for foot-pedal types of releasing mechanisms. For these tests, a force gauge shall be applied to the release mechanism, and the average of three consecutive readings shall be computed.</u></p>	<p>No change to Houston amendment.</p>
<p>D102.7.3.4 Low temperature operation test. <u>Evidence of successful test results shall be provided to the code official of testing consisting of representative samples of the exit ladder device subjected to a temperature of -40°C in an environmental chamber for a period of 24 hours minimum by a city registered special inspector or a nationally recognized testing lab acceptable to the building official. For purposes of this section, a test is considered successful when the release mechanism operates immediately upon removal from the chamber and the ladder device functions as intended without any restriction of operation.</u></p>		<p>D102.7.3.4 Low temperature operation test. <u>Evidence of successful test results shall be provided to the code official of testing consisting of representative samples of the exit ladder device subjected to a temperature of -40°C in an environmental chamber for a period of 24 hours minimum by a city registered special inspector or a nationally recognized testing lab acceptable to the building official. For purposes of this section, a test is considered successful when the release mechanism operates immediately upon removal from the chamber and the ladder device functions as intended without any restriction of operation.</u></p>	<p>No change to Houston amendment.</p>
<p>D102.7.3.5 Test verification. <u>For the purpose of this section, evidence of successful test results shall be provided to the code official by the permit applicant from a city registered special inspector or a nationally recognized testing lab acceptable to the building official.</u></p>		<p>D102.7.3.5 Test verification. <u>For the purpose of this section, evidence of successful test results shall be provided to the code official by the permit applicant from a city registered special inspector or a nationally recognized testing lab acceptable to the building official.</u></p>	<p>No change to Houston amendment.</p>
		<p style="text-align: center;">SECTION D103 ENCLOSURE OF VERTICAL SHAFTS</p>	<p>No change to Houston amendment.</p>
<p>D103.1 Enclosure of vertical shafts. <u>Interior vertical shafts, including but not limited to stairways, elevator hoistways, and service and utility shafts, shall be enclosed by a minimum one-hour fire-resistive construction. All openings into such shafts shall be protected with one-hour fire assemblies that shall be maintained self-closing or be automatic closing by smoke detection. All other openings shall be fire protected in an approved manner acceptable to the building official. Existing fusible link-type automatic door closing devices may be permitted where the fusible link rating does not exceed 135°F (57.2°C).</u></p> <p>Exceptions:</p> <ol style="list-style-type: none"> <u>In other than Group I occupancies, an enclosure will not be required for openings serving only one</u> 		<p>D103.1 Enclosure of vertical shafts. <u>Interior vertical shafts, including but not limited to stairways, elevator hoistways, and service and utility shafts, shall be enclosed by a minimum one-hour fire-resistive construction. All openings into such shafts shall be protected with one-hour fire assemblies that shall be maintained self-closing or be automatic closing by smoke detection. All other openings shall be fire protected in an approved manner acceptable to the building official. Existing fusible link-type automatic door closing devices may be permitted where the fusible link rating does not exceed 135°F (57.2°C).</u></p> <p>Exceptions:</p> <ol style="list-style-type: none"> <u>In other than Group I occupancies, an enclosure will not be required for openings serving only one adjacent floor.</u> 	<p>No change to Houston amendment.</p>

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<p><u>adjacent floor.</u></p> <p>2. <u>Stairways need not be enclosed in a continuous vertical shaft if each story is separated from other stories by one-hour fire-resistive construction or approved wire-glass set in steel frames. In addition, all exit corridors shall be sprinklered, and each opening between the corridor and any occupant space shall have at least one sprinkler head above the opening on the tenant side. The sprinkler system may be supplied from the domestic water supply if the water flow is of adequate volume and pressure.</u></p> <p>3. <u>Vertical openings need not be protected if the building is protected by an approved automatic sprinkler system.</u></p>		<p>2. <u>Stairways need not be enclosed in a continuous vertical shaft if each story is separated from other stories by one-hour fire-resistive construction or approved wire-glass set in steel frames. In addition, all exit corridors shall be sprinklered, and each opening between the corridor and any occupant space shall have at least one sprinkler head above the opening on the tenant side. The sprinkler system may be supplied from the domestic water supply if the water flow is of adequate volume and pressure.</u></p> <p>3. <u>Vertical openings need not be protected if the building is protected by an approved automatic sprinkler system.</u></p>	
<p>SECTION D104 BUILDING ACCESS OR SPRINKLER PROTECTION</p>		<p>SECTION D104 BUILDING ACCESS OR SPRINKLER PROTECTION</p>	<p>No change to Houston amendment.</p>
<p>D104.1 Building access or sprinkler protection. <u>An approved automatic sprinkler system shall be provided throughout a basement or a story that:</u></p> <p>1. <u>Exceeds 1,500 square feet (139.3 m²) in area; and,</u></p> <p>2. <u>Does not have a minimum of 20 square feet (1.86 m²) of opening entirely above the adjoining ground level in each 50 lineal feet (15,240 mm), or fraction thereof, of exterior wall on at least one side of the building. Openings shall have a minimum clear dimension of 30 inches (762 mm).</u></p> <p><u>Additionally, and notwithstanding the application of the foregoing criteria, if any portion of a basement is located more than 75 feet (22,860 mm) from required openings, the basement shall be provided with an approved automatic sprinkler system throughout. The distance of 75 feet (22,860 mm) shall be measured in a straight line without regard to intervening walls or other objects.</u></p> <p>Exception: <u>Existing parking garages with no other occupancies may substitute an automatic fire alarm system utilizing "rate-of-rise" detectors when coupled with a smoke-removal system capable of six air changes per hour.</u></p>		<p>D104.1 Building access or sprinkler protection. <u>An approved automatic sprinkler system shall be provided throughout a basement or a story that:</u></p> <p>3. <u>Exceeds 1,500 square feet (139.3 m²) in area; and,</u></p> <p>4. <u>Does not have a minimum of 20 square feet (1.86 m²) of opening entirely above the adjoining ground level in each 50 lineal feet (15,240 mm), or fraction thereof, of exterior wall on at least one side of the building. Openings shall have a minimum clear dimension of 30 inches (762 mm).</u></p> <p><u>Additionally, and notwithstanding the application of the foregoing criteria, if any portion of a basement is located more than 75 feet (22,860 mm) from required openings, the basement shall be provided with an approved automatic sprinkler system throughout. The distance of 75 feet (22,860 mm) shall be measured in a straight line without regard to intervening walls or other objects.</u></p> <p>Exception: <u>Existing parking garages with no other occupancies may substitute an automatic fire alarm system utilizing "rate-of-rise" detectors when coupled with a smoke-removal system capable of six air changes per hour.</u></p>	<p>No change to Houston amendment.</p>
		<p>SECTION D105 STANDPIPES</p>	<p>No change to Houston amendment.</p>
<p>D105.1 Standpipes. <u>Any building over four stories in height shall be provided with an approved Class I or Class III standpipe system.</u></p>		<p>D105.1 Standpipes. <u>Any building over four stories in height shall be provided with an approved Class I or Class III standpipe system.</u></p>	<p>No change to Houston amendment.</p>

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		SECTION D106 SMOKE DETECTORS	No change to Houston amendment.
<u>D106.1 General. Day-care centers, dwelling units, and guest rooms in hotels or lodging houses that are used for sleeping purposes shall be equipped with smoke detectors installed in accordance with the requirements of the <i>Fire Code</i>.</u>		<u>D106.1 General. Day-care centers, dwelling units, and guest rooms in hotels or lodging houses that are used for sleeping purposes shall be equipped with smoke detectors installed in accordance with the requirements of the <i>Fire Code</i>.</u>	No change to Houston amendment.
<u>D106.2 Power source. Smoke detectors may be battery operated or may receive their primary power from the building wiring when such wiring is served from a commercial source. Wiring shall be permanent and without disconnecting switches other than those required for over current protection.</u>		<u>D106.2 Power source. Smoke detectors may be battery operated or may receive their primary power from the building wiring when such wiring is served from a commercial source. Wiring shall be permanent and without disconnecting switches other than those required for over current protection.</u>	No change to Houston amendment.
<u>D106.3 Location within dwelling units. In dwelling units, detectors shall be mounted on the ceiling or wall at a point centrally located in the corridor or area giving access to each separate sleeping area. Where sleeping units are on an upper level, the detector shall be placed at the center of the ceiling directly above the stairway. Detectors shall also be installed in the basements of dwelling units having stairways that open from the basement into the dwelling. Detectors shall sound an alarm audible in all sleeping areas of the dwelling unit in which they are located.</u>		<u>D106.3 Location within dwelling units. In dwelling units, detectors shall be mounted on the ceiling or wall at a point centrally located in the corridor or area giving access to each separate sleeping area. Where sleeping units are on an upper level, the detector shall be placed at the center of the ceiling directly above the stairway. Detectors shall also be installed in the basements of dwelling units having stairways that open from the basement into the dwelling. Detectors shall sound an alarm audible in all sleeping areas of the dwelling unit in which they are located.</u>	No change to Houston amendment.
<u>D106.4 Location in efficiency dwelling units and hotels. In efficiency dwelling units, hotel suites and hotel sleeping units, detectors shall be located on the ceiling or wall of the main room or hotel sleeping unit. When sleeping units within an efficiency dwelling unit or hotel suite are on an upper level, the detector shall be placed at the center of the ceiling directly above the stairway. When actuated, the detector shall sound an alarm audible within the sleeping area of the dwelling unit, hotel suite, or sleeping unit in which it is located.</u>		<u>D106.4 Location in efficiency dwelling units and hotels. In efficiency dwelling units, hotel suites and hotel sleeping units, detectors shall be located on the ceiling or wall of the main room or hotel sleeping unit. When sleeping units within an efficiency dwelling unit or hotel suite are on an upper level, the detector shall be placed at the center of the ceiling directly above the stairway. When actuated, the detector shall sound an alarm audible within the sleeping area of the dwelling unit, hotel suite, or sleeping unit in which it is located.</u>	No change to Houston amendment.
		SECTION D107 SEPARATION OF OCCUPANCIES	No change to Houston amendment.
<u>D107.1 General. Occupancy separations shall be provided as specified in Section 508 of the <i>Building Code</i>. When approved by the <i>building official</i>, existing wood lath and plaster in good condition or 1/2-inch (12.7 mm) gypsum wallboard may be acceptable where one-hour occupancy separations are required.</u>		<u>D107.1 General. Occupancy separations shall be provided as specified in Section 508 of the <i>Building Code</i>. When approved by the <i>building official</i>, existing wood lath and plaster in good condition or 1/2-inch (12.7 mm) gypsum wallboard may be acceptable where one-hour occupancy separations are required.</u>	No change to Houston amendment.
		SECTION D108 FIRE ALARMS	No change to Houston amendment.

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<p>D108.1 General. High-rise buildings as defined in the <i>Building Code</i> shall be equipped with an approved manual fire alarm system in accordance with the provisions of NFPA 72, Sections 403.4.2 and 907.2.13 of the <i>Building Code</i>. The initiation of the manual fire alarm shall activate an audible alarm at a constantly attended location within the building.</p> <p>Exception: A manual fire alarm system connected to a constantly attended central, proprietary, or remote station service.</p>		<p>D108.1 General. High-rise buildings as defined in the <i>Building Code</i> shall be equipped with an approved manual fire alarm system in accordance with the provisions of NFPA 72, Sections 403.4.2 and 907.2.13 of the <i>Building Code</i>. The initiation of the manual fire alarm shall activate an audible alarm at a constantly attended location within the building.</p> <p>Exception: A manual fire alarm system connected to a constantly attended central, proprietary, or remote station service.</p>	<p>No change to Houston amendment.</p>
		<p>SECTION D109 EXTENSION OF TIME</p>	<p>No change to Houston amendment.</p>
<p>D109.1 Application. The owner of a building may apply to the <i>building official</i> for an extension of time to comply with any requirement of this appendix chapter. The owner of the building shall set forth the following information on such an application:</p> <ol style="list-style-type: none"> 1. The specific requirements of this appendix chapter for which the owner is seeking an extension of time; 2. The period of time the owner believes is necessary to meet the requirements; and 3. The reason(s) why the owner believes such an extension of time is necessary. <p>The application shall be accompanied by documents (examples of which include affidavits, photographs, receipts, loan applications, and contracts with third parties) demonstrating that the owner has made substantial and timely attempts to bring the building into full compliance with this appendix chapter.</p> <p>The owner of the building shall sign the application, which shall be sworn before a notary public or conform to minimum state law requirements for unsworn declarations.</p>		<p>D109.1 Application. The owner of a building may apply to the <i>building official</i> for an extension of time to comply with any requirement of this appendix chapter. The owner of the building shall set forth the following information on such an application:</p> <ol style="list-style-type: none"> 4. The specific requirements of this appendix chapter for which the owner is seeking an extension of time; 5. The period of time the owner believes is necessary to meet the requirements; and 6. The reason(s) why the owner believes such an extension of time is necessary. <p>The application shall be accompanied by documents (examples of which include affidavits, photographs, receipts, loan applications, and contracts with third parties) demonstrating that the owner has made substantial and timely attempts to bring the building into full compliance with this appendix chapter.</p> <p>The owner of the building shall sign the application, which shall be sworn before a notary public or conform to minimum state law requirements for unsworn declarations.</p>	<p>No change to Houston amendment.</p>
<p>D109.2 Approval. No request for an extension of time shall be granted unless the <i>building official</i> finds that such an extension of time is reasonably necessary to perform the work and that granting such an extension of time will not result in an unreasonable risk to the safety of the occupants of the building or to others.</p>		<p>D109.2 Approval. No request for an extension of time shall be granted unless the <i>building official</i> finds that such an extension of time is reasonably necessary to perform the work and that granting such an extension of time will not result in an unreasonable risk to the safety of the occupants of the building or to others.</p>	<p>No change to Houston amendment.</p>
<p>D109.3 Denial. If the <i>building official</i> denies any request for an extension of time under this section, the owner of the building may appeal such a decision to the General Appeals Board. If the General Appeals Board upholds the decision of the <i>building official</i> on the matter, the board's decisions may be appealed to city council, if notice of appeal, addressed to city council, is delivered to the office of the city secretary within 10 days of the date of the board's decision. Appeals</p>		<p>D109.3 Denial. If the <i>building official</i> denies any request for an extension of time under this section, the owner of the building may appeal such a decision to the General Appeals Board. If the General Appeals Board upholds the decision of the <i>building official</i> on the matter, the board's decisions may be appealed to city council, if notice of appeal, addressed to city council, is delivered to the office of the city secretary within 10 days of the</p>	<p>No change to Houston amendment.</p>

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<p><u>shall be subject to city council Rule 12 (see Section 2-2 of the City Code).</u></p>		<p><u>date of the board's decision. Appeals shall be subject to city council Rule 12 (see Section 2-2 of the City Code).</u></p>	
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