2024 International Existing Building Code Significant Changes Report						
			Cost	Amend Needed		
2024 Code Section	Title or Subject	Reviewer Comments	Yes/No	Yes/No	TAG Comments/Recommendations	
		01 Scope and	Administration			
		No Signific	ant Changes			
		02 De	finitions			
			ant Changes			
		03 Provisions for al	compliance methods			
306.2.1	Prohibited reduction in	Model code changes in Section 306.2.1 add	Increase	No		
	accessibility	"additions" to the criteria for work that is				
		prohibited to decrease the accessibility of the				
		building, facility, or element, and therefore may				
decreasing accessibili	ity of a building, facility or el	increase design/construction costs. In alteration or addition that decreases or has the element thereof, below the requirements for new goal in the common of accessible elements need not be a solution.	onstruc-			
decreasing accessibili	ity of a building, facility or el	n alteration or addition that decreases or has the element thereof, below the requirements for new gobited. The number of accessible elements need not	onstruc- exceed	No		
decreasing accessibili tion at the time of the that required for new	ity of a building, facility or el alteration or addition is prohi construction at the time of al	n alteration or addition that decreases or has the element thereof, below the requirements for new graphited. The number of accessible elements need not teration or addition.	onstruc- exceed	No		
decreasing accessibilition at the time of the that required for new 306.7.15 306.7.15 Adult chang stations are required toilet room with an ad	ity of a building, facility or el alteration or addition is prohiconstruction at the time of all Adult changing stations ging stations. Where addition by Section 1110.4.1 of the Interval Language station shall be pation shall be permitted to be	n alteration or addition that decreases or has the element thereof, below the requirements for new gubited. The number of accessible elements need not teration or addition. Addition to model code may increase design and	Increase es where adult changing ble family or assisted-use ternational Building Code.			
decreasing accessibilition at the time of the that required for new 306.7.15 306.7.15 Adult chang stations are required toilet room with an ad The adult changing st	ity of a building, facility or el alteration or addition is prohiconstruction at the time of all Adult changing stations ging stations. Where addition by Section 1110.4.1 of the Interval Language station shall be pation shall be permitted to be	alteration or addition that decreases or has the element thereof, below the requirements for new go bited. The number of accessible elements need not teration or addition. Addition to model code may increase design and construction costs anal toilet facilities are being added, in occupancional Building Code, not fewer than one accession or or other than one accession or or other than one accession or or other than one accession or other than one accession of the Inc.	Increase es where adult changing ble family or assisted-use ternational Building Code.			
decreasing accessibilition at the time of the that required for new 306.7.15 306.7.15 Adult chang stations are required toilet room with an ad The adult changing st Section 306.7.12, 306.	aty of a building, facility or el alteration or addition is prohiconstruction at the time of all Adult changing stations Adult changing stations ging stations. Where addition y Section 1110.4.1 of the Intellult changing station shall be pation shall be permitted to be 7.13 or 306.7.14.	Addition to model code may increase design and construction costs and toilet facilities are being added, in occupanci control accordance with Section 1110.4 of the Interpretation or Interpretation or Interpretation of Section 1110.4 of the Interpretation or Interpretation or Interpretation or Interpretation or Interpretation of Inter	Increase es where adult changing ble family or assisted-use ternational Building Code. pathing room required by			
decreasing accessibilition at the time of the that required for new 306.7.15 306.7.15 Adult chang stations are required toilet room with an ad The adult changing st Section 306.7.12, 306.	aty of a building, facility or el alteration or addition is prohiconstruction at the time of all Adult changing stations Adult changing stations ging stations. Where addition y Section 1110.4.1 of the Intellult changing station shall be pation shall be permitted to be 7.13 or 306.7.14.	Addition to model code may increase design and construction costs and bited facilities are being added, in occupanci construction accordance with Section 1110.4 of the Interval of the Inter	Increase es where adult changing ble family or assisted-use ternational Building Code. pathing room required by			

308.1 Carbon monoxide detection. Where an *addition*, *alteration*, *change of occupancy* or relocation of a building is made to an *existing building*, the *existing building* shall be provided with carbon monoxide detection in accordance with the *International Fire Code* or Section R311 of the *International Residential Code*.

Exceptions:

- 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.
- 3. Work classified as Level 1 Alterations in accordance with Chapter 7.
- In Group I-2 occupancies, carbon monoxide detection is not required in each sleeping unit where carbon monoxide
 detection, which transmits an alarm signal to an approved location, is provided in each space containing a carbon
 monoxide source.

		04 Re	epairs		
damage or wh	nere the intended method		vely demolished by		
	nal Building Code.	ion, on an earnpry man requirements in			
		in and be reused where approved by the code official.			
406.1	General	Model code language change causes increase in cost of construction for repair of electrical systems. The 2021 model code explicitly allowed for electrical systems to be repaired in like-kind. New model code language proposed here requires electrical system repairs to comply with NFPA 70 which does not have provisions for repair of existing electrical systems.	Increase	No	
406.1 Ceneral Re	epairs to existing electrical wiring a	and equipment shall be in accordance with NFPA 70.		•	•
40011 Ochcrati	, ,	-,-,-			

502.1.1	Risk category assignment	New model code language added here in Section	Increase	No	
		502.1.1 Risk category assignment, may require an			
		existing building, to which an addition is being			
		added, to change occupancy and risk category,			
		and to comply with change of occupancy			
		provisions in Section 506. These could result in			
		increased cost of construction.			
each existing and a Where application of existing building be of this code. Where the addition by itse	dded occupancy shall be determine of that section results in a higher ris fore the addition, such a change sha application of that section results in lf, the addition and any systems in	n and the existing building have different occupant ed in accordance with Section 1604.5.1 of the Inter- ik category for the existing building compared with all be considered a change of occupancy and shall of the analysis action of the addition compared the existing building required to serve the addition of construction for the higher risk category.	rnational Building Code. the risk category for the comply with Section 506 with the risk category for		
503.13			Increase	No	See Existing Amendments Report. Incorporate New
505.15	system alterations	force-resisting system alterations from complying	increase	1 -	Model Language into WA amendment.
	system attendions	from IBC Section 1609 (Wind) and Section 1613			and the state of t
		(Seismic), instead of the model code language			
		which exempts compliance from Section 503. The			
		listed requirements 1-4 are the generally the			
		same for both. It appears that the model code			
		allows a voluntary alteration to enjoy more			
		exemptions from requirements than does the			
		WAC amendment. In other words, a voluntary			
		lateral force-resisting system alteration must			
		meet a greater number of requirements under			
		the WAC amendment compared to the model			
		code language, therefore this change could have			
		increased cost for construction.			
[Be] E02 12 Value	stanu latoral force recicting syste	em alterations. Structural alterations that are in			

[BS] 503.13 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 1613 of the International Building Code subject to the structural require ments of Section 503, provided that all of the following apply:

- 1. With the alteration complete, the capacity of existing structural systems to resist forces is not reduced.
- New structural elements are detailed and connected to existing or new structural elements as required by the selected design criteria.

Exception: New lateral force-resisting systems designed in accordance with the *International Building Code* are permitted to be of a type designated as "Ordinary" or "Intermediate" where ASCE 7 Table 12.2-1 states these types of systems are not permitted.

- Supports and attachments for nonstructural elements removed and reinstalled to facilitate the work comply with the International Building Code for new construction.
- The alterations do not create a structural irregularity as defined in ASCE 7 or make an existing structural irregularity more severe.

Exception: Condition 4 need not be satisfied where the work complies with Section 304.3.2, Item 3.

[BS] 506.5.3 Seismic loads (seismic force-resisting system). Where a change of occupancy results in a building being assigned to a higher risk category, or where the change is from a Group S or Group U occupancy to any occupancy other than Group S or Group U, the lateral force-resisting system of the building shall comply with Section 304.3.1 for the new risk category. Where a change of occupancy results in a building being assigned to Risk Category IV and Seismic Design Category D or F, nonstructural components serving any portion of the building changed to Risk Category IV shall comply with the requirements of Section 1613 of the International Building Code or shall comply with ASCE 41 using an objective of Operational nonstructural performance with the BSE-1N earthquake hazard level.

Exceptions:

- Where the area of the new occupancy is less than 10 percent of the building area, the occupancy is not changing from a Group S or Group U occupancy, 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 change of use results in a building being reclassified from Risk Category I or II to Risk Category III and the seismic coefficient, S_{ps}, is less than 0.33, compliance with this section is not required.
- 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.
- Where the change is from a Group S or Group U occupancy and there is no change of risk category, compliance with Section 304.3.2 shall be permitted.

06 Classification of Work							
No Significant Changes	o Significant Changes						
	07 AlterationsLevel 1						
700.5	Replacement window for emergency escape and rescue						
702.5	openings	opening area than the existing window."	No	No			

702.5 Replacement window for emergency escape and rescue openings. Where windows are required to provide *emergency escape and rescue openings* in Group R-2 and R-3 occupancies and one- and two-family dwellings and townhouses regulated by the *International Residential Code*, replacement windows shall be exempt from the requirements of Section 1031.3 of the *International*

Building Code and Section R310.2 of the International Residential Code, provided that the replacement window meets the following conditions:

- 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.
- 2. Where the replacement window is part of a change of occupancy it shall comply with Section 1011.5.6.

		Align with 2024 IBC new code section 1608.3			
705.1	General	Ponding instability and 1611.2 Ponding instability	No	No	

[BS] 705.1 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*.

Exceptions:

- Roof replacement or roof recover of existing low-slope roof coverings shall not be required to meet
 the minimum design slope requirement of ¹/₄ unit vertical in 12 units horizontal (2-percent slope) in
 Section 1507 of the International Building Code for roofs that provide positive roof drainage and
 meet the requirements of Sections 1608.3 and 1611.2 of the International Building Code.
- 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

ALTERATIONS-LEVEL 1

Code for roofs that provide for positive roof drainage and meet the requirements of Sections 1608.3 and 1611.2 of the International Building Code. 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.

705.2	Roof replacement	New language added, clarify roof replacement			
		requirements when existing self-adhered			
		underlayment is involved	No	No	

[BS] 705.2 Roof replacement. Roof replacement shall include the removal of all existing layers of roof coverings down to the roof deck.

Exceptions:

- Where the existing roof assembly includes an ice barrier membrane that is adhered to the roof deck and the existing sheathing is not water-soaked or deteriorated to the point that it is not adequate as a base for additional roofing, 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* where permitted by the roof-covering manufacturer and new ice-barrier underlayment manufacturer.
- Where the existing roof includes a self-adhered underlayment and the existing sheathing is not water-soaked or deteriorated to the point that it is not adequate as a base for additional roofing, the existing self-adhered underlayment shall be permitted to remain in place and covered with an underlayment complying with Tables 1507.1.1(1), 1507.1.1(2) and 1507.1.1(3) of the International Building Code.
- 3. Where the existing roof includes one layer of self-adhered underlayment and the existing layer cannot be removed without damaging the roof deck, a second layer of self-adhered underlayment is permitted to be installed over the existing self-adhered underlayment provided all of the following conditions are met:
 - 3.1 It is permitted by the roof-covering manufacturer and self-adhered underlayment manufacturer.
 - 3.2 The existing sheathing is not water-soaked or deteriorated to the point that it is not adequate as a base for additional roofing.
 - 3.3 The second layer of self-adhered underlayment is installed such that buildup of material at walls, valleys, roof edges, end laps and side laps does not exceed two layers.

		08 Alterati	onsLevel 2		
803.2.2	Automatic sprinkler systems	Editorial change, clarification.	No	No	
1, I-3, I-4, M, R-1, R-2, F corridors serving and following conditions of 1. The work are ing Code as a 2. The work are Exception: If the b pressure and flow a protected by an au	R-4, S-1 and S-2, work areas that has occupant load greater than 30 shades or is required to be provided with a pplicable to new construction. a exceeds 50 percent of the floor are uilding does not have an existing was for the design of a fire sprinkler system to to the to such that the sprinkler system to activates the occupant notification	R-4, S-1 and S-2. In buildings with occupancies in Growe exits or corridors shared by more than one tenant all be provided with automatic sprinkler protection utomatic sprinkler protection in accordance with the ea. ater supply present at the floor of the proposed work tem and without installation of a new fire pump, the hroughout all occupiable spaces other than sleepin a system in accordance with Sections 907.4, 907.5 ar	or that have exits or a where both of the enternational Build- a area with sufficient enternational be gunits or individual		
		New language: 803.4.3Installation. Where a fire alarm system is required to be installed in accordance with Sections 803.4.1 or 803.4.2, the fire alarm system shall be installed in accordance with the provisions of this code, Section 907 of the International Building Code and NFPA 72.	Yes	No g fire	
alarm system, autom	atic heat detection shall not be r	equired.	:		
805.3	Existing structural elements resisting lateral loads	New language added in the section	Yes	No	

[BS] 805.3 Existing structural elements resisting lateral loads. Except as permitted by Section 805.4, 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 lateral force-resisting system of the altered building or structure shall meet the requirements of Section 1609 of the International Building Code and Section 304.3.2 of this code.

Exceptions:

- 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 Section 1609 of the International Building Code and Section 304.3.1 or 304.3.2 of this code. The same methodology shall be used for the altered and unaltered structures. 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. When calculating demand-capacity ratios for wind, the date of original construction shall be permitted to be taken as the date of completion of a prior addition, alteration or repair in compliance with Section 1609 of the International Building Code or the code wind forces in effect at the time. When calculating demand-capacity ratios for earthquake, the date of original construction shall be permitted to be taken as the date of completion of a prior addition, alteration or repair in compliance with Section 304.3.1 or 304.3.2 Item 1 or 3 or the full or reduced seismic forces in effect at the time.
- 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.
 - 3. Increases in the demand-capacity ratio due to lateral loads from seismic forces need not be evaluated for the installation of rooftop photovoltaic panel systems where the additional roof dead load due to the system, including ballast where applicable, does not exceed 5 pounds per square foot (psf) (0.2394 kN/m²) and does not exceed 10 percent of the dead load of the existing roof.

09 AlterationsLevel 3								
902.2	Conditions for I-1 occupancies	New section	Yes	No				
902.2 Conditions for I-1 occupancies. Group I-1 occupancies shall be classified as Condition 1 or Condition 2 in accordance with Section 308.2 of the International Building Code.								
902.3	2.3 Ambulatory care facilities New section Yes No							

902.3 Ambulatory care facilities. Where a Level 3 work area includes an existing ambulatory care facility, the following shall be provided:

- 1. A smoke compartment in accordance with Section 422.3 of the International Building Code, where the alteration results in an ambulatory care facility greater than 10,000 square feet on one story.
- 2. Separation from adjacent spaces in accordance with Section 422.2 of the International Building Code, where any such facility has the potential for four or more care recipients incapable of self-preservation at any time.

904.1.3	Upholstered Furniture or	Correlation between IFC Needed	No	Yes	IBC and IFC contain identical language, IEBC needs to be
	Mattresses				updated to avoid conflict.

904.1.3 Upholstered furniture or mattresses. Work areas shall be provided with an automatic sprinkler system in accordance with the International Building Code where any of the following conditions exist:

- 1. A Group F-1 occupancy used for the manufacture of upholstered furniture or mattresses exceeds 2,500 square feet (232 m²).
- A Group M occupancy used for the display and sale of upholstered furniture or mattresses exceeds 5,000 square feet (464 m²).

30 0 50	3. A Group S-1 occupancy used for the storage of upholstered furniture or mattresses exceeds 2,500 square feet (232 m²).				
904.1.8 Supervision	Supervision and alarms New section Yes No				

		ic sprinkler system is required by Sections 904.1 in accordance with Section 903.4 of the <i>Internatio</i>		1	
908	EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM COVERAGE	New section	Yes	No	
SECTION 908—	EMERGENCY RESPONDER COMMUNI	CATIONS ENHANCEMENT SYSTEM COVERAGE			
undergo an entire build	evaluation of the emergency responde ing in accordance with Sections 908.1.		area within the		
	on: Where it is determined by the fire ment system (ERCES) is not needed.	e code official that the emergency responder c	ommunication		
		rmine the current signal strength and coverage	capabilities of		
		ed by the jurisdiction, measured at the exterior o			
		nall be submitted for approval by the fire code of area, signal strength or DAQ does not comply wi			
of the Int	ternational Fire Code, the existing build	ding shall be provided with ERCES coverage. The	e fire code offi-		
Stat is au	thorized to establish the differrance for	such installation of mounication.			
		10 Change	of Occupancy		
1002.3	Change of occupancy in health care	New exception for I-1 occupancy	No	No	
		nge of occupancy occurs to a Group I-2 or I-1 facility,		•	
The Internationa under chapter 38	th the <i>change of occupancy</i> shall comply wi I Building Code shall apply to Group I-1, C 8-78A WAC or residential treatment facility	condition 2, for licensure as an assisted living facility			
Exceptions: 1. A cho	unge in use or occupancy in the following ca	ses shall not be required to meet the International Buil	ding Code:		
1.1	. Group I-2, Condition 2 to Group I-2, Cor				
	 Group I-2 to ambulatory health care. Group I-2 to Group I-1. 				
1.4	l. Group I-1, Condition 2 to Group I-1, Cor				
	Group I-1 occupancy, where a change of use the with Section 420.6 of the International Bu	e is not in conjunction with a Level 3 alteration, a smok wilding Code is not required to be added.	e barrier in accor-		
1011.2	Fire protection systems	New section 1011.2.1.1 Nonrequired automatic	No	No	
		sprinkler systems. Clarify requirements for non-			
		required automatic sprinkler systems; option to remove with approval of code official.			
		Temple with approval of code official.			
1011.2 Fire prot and 1011.2.2.	ection systems. Fire protection systems	shall be provided in accordance with Sections 1011.2.	1		
1011.5	Means of egress, general	New exception for I occupancy	No	No	

1011.5 Means of egress, general. Hazard categories in regard to life safety and means of egress shall be in accordance with Table 1011.5.

TABLE 1011.5—MEANS OF EGRESS HAZARD CATEGORIES					
RELATIVE HAZARD	OCCUPANCY CLASSIFICATIONS				
1 (Highest Hazard)	н				
2	1-2; 1-3; 1-4				
3	A; E; I-1; M; R-1; R-2; R-4, Condition 2				
4	B; F-1; R-3; R-4, Condition 1; S-1				
5 (Lowest Hazard)	F-2; S-2; U				

1011.6.1	Height and area for change to a	New exception	Decrease	No	
	higher-hazard category				

1011.6 Heights and areas. Hazard categories in regard to height and area shall be in accordance with Table 1011.6.

TABLE 1011.6—HEIGHTS AND AREAS HAZARD CATEGORIES				
RELATIVE HAZARD	OCCUPANCY CLASSIFICATIONS			
1 (Highest Hazard)	Н			
2	A-1; A-2; A-3; A-4; I; R-1; R-2; R-4, Condition 2			
3	E; F-1; S-1; M			
4 (Lowest Hazard)	B; F-2; S-2; A-5; R-3; R-4, Condition 1; U			

11 Additions					
				No	
		New section 1101.3 Risk category assignment and			
1101	GENERAL	1101.6 Smoke barriers in Group I-1, Condition 2	No		

[BS] 1101.3 Risk category assignment. Where the addition and the existing building have different occupancies, the risk category of each existing and added occupancy shall be determined in accordance with Section 1604.5.1 of the International Building Code. Where application of that section results in a higher risk category for the existing building compared with the risk category for the existing building before the addition, such a change shall be considered a change of occupancy and shall comply with Chapter 10 of this code. Where application of that section results in a higher risk category for the addition compared with the risk category for the addition by itself, the addition and any systems in the existing building required to serve the addition shall comply with the requirements of the International Building Code for new construction for the higher risk category.

1101.6 Enhanced classroom acoustics. 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 m²) or less. Enhanced classroom acoustics shall comply with the reverberation time in Section 808 of ICC A117.1.

		Added exception: Nonoccupiable appendages,		No	
		such as elevator and exit stairway shafts, shall be			
		permitted beyond that permitted by the			
1102.3	Fire protection systems	International Building Code.	Decrease		

1102.3 Fire protection systems. Existing fire areas increased by the addition shall comply with Chapter 9 of the International Building Code.

Exception: Nonoccupiable appendages, such as elevator and exit stairway shafts, shall be permitted beyond that permitted by the *International Building Code*.

1103.2 Lateral force-resisting system	New language added in the section	No	No			
[BS] 1103.2 Lateral force-resisting system. 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 lateral force-resisting system of the existing structure and its addition acting together as a single structure shall						
Exceptions: 1. 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 comply with the conventional light-frame construction methods of the International Building Code or the provisions of the International Residential Code. 2. 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 Section 1609 of the International Building Code and Section 304.3.1 of this code. For purposes of this exception, comparisons of demand-capacity ratios and alculations since original construction. When calculating demand-capacity ratios for wind, the date of original construction shall be permitted to be taken as the date of completion of a prior addition, alteration or repair in compliance with Section 1609 of the International Building Code or the code wind forces in effect at the time. When calculating demand-capacity ratios for earthquake, the date of original construction shall be permitted to be taken as the date of completion of a prior addition, alteration or repair in compliance with Section 304.3.1 or the full seismic forces in effect at the time.						
		12 Historic Buildings				
No Significant Changes						
	13 Perfor	mance Complaince Method	ls			
No Significant Changes						
	44 Dall	and a second Database				
14 Relocated or Moved Buildings No Significant Changes						
15 Construction Safeguards						
No Significant Changes						
16 Referenced Standards						
No Significant Changes in I-Codes. Correlation of UPC Standards would be a helpful addition to the WA I-Code amendments.						