

Proposed updates to 2021 International Mechanical Code (IMC) and Chapter 10 Amendments

No.	Section	Title	Recommendation	Summary of Change	Life/Safety	Potential Construction Cost Increase	Recommendation Approved
1	COSA Amendment 202	Definition	Keep Amendment	COSA Amendment. Defines NFPA 70	No	No	Yes
2	COSA Amendment 301.10	Electrical	Keep Amendment	COSA Amendment. Specifies that wiring exposed to weather shall be installed in a raceway approved for the environment	Yes	No	Yes
3	304.11	Guards	Adopt as written	Change to existing section. Guards are required where components or roof hatches are within 10' of a roof edge. The code states that guards should extend at least 30 inches beyond each component that requires service and now requires the guard to extend at each end of the roof hatch parallel to the roof edge.	Yes	Yes	Yes
4	COSA Amendment 304.13	Installation at Gas Valve	Keep Amendment	COSA Amendment. Minimum Schedule 40 metallic pipe shall be installed at the gas valve and extended a minimum of two inches outside the gas furnace and gas rooftop unit's casing	Yes	No	Yes
5	COSA Amendment 306.3.2	Access for cooling and heating appliance	Revise Amendment language to align with the intent of the amendment	COSA Amendment Revision. For one and two family residential occupancies and townhomes, with newly installed cooling or heating appliances in the attic space, a permanent ladder, fold-away ladder or a direct access door opening from the house on the same floor level shall be installed.	No	Yes	Yes
6	COSA Amendment 307.2.1	Condensate Disposal	Keep Amendment	COSA Amendment. References Chapter 34, Section 34-274 of the City Code for condensate disposal. Chapter 34 covers Water and Sewer requirements (SAWS)	No	No	Yes
7	307.2.1.1	Condensate Discharge	Adopt as written	New Subsection to Condensate Disposal. Condensate drains shall connect to a floor sink, floor drain, trench drain, mop sink, etc. Connection to a lavatory wye branch tailpiece or a bathtub overflow pipe is allowed. Discharge shall be to grade outdoors or located within the same occupancy, tenant space or dwelling unit as the condensate source. Previously code only stated "to an approved location"	No	No	Yes
8	COSA Amendment 307.2.2	Drain Pipe Materials and Sizes	Keep Amendment	COSA Amendment. Adds requirement that primary drain lines located in unconditioned spaces be insulated with foam plastic rubber based insulation or approved material	No	No	Yes
9	COSA Amendment 307.2.4.1	Ductless Mini-split System Traps	Keep Amendment	COSA Amendment. Removes requirement for the location of the in line check valve and refers to the manufacturer's recommendations	No	No	Yes
10	401.2 / 403.1	Mechanical Ventilation for Dwelling Units	Adopt as written	Clarification. The reference to the testing required by the Residential section of the IECC was removed to avoid confusion on if the testing requirements were only applicable to R-2 buildings 3 stories or less. The clarification now requires all R-2 dwelling units to be mechanically ventilated if they comply with the air leakage requirements of the applicable energy code. If the building is constructed to limit air leakage through the thermal envelope, then the building will have few air changes per hour and mechanical ventilation is necessary.	No	No	Yes
11	401.4 / 501.3.1	Intake Opening and Exhaust Outlet Locations	Adopt as written	Added option to existing section. Allows factory built dual purpose fittings to be used as an alternate to separation between intake air openings and living space exhaust air openings of an individual dwelling unit or sleeping unit. Text added to the Ventilation Chapter and Exhaust Chapter	No	No	Yes

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12	Table 403.3.1.1	Recirculation of Mechanical Exhaust Prohibited	Adopt as written	Clarification. The previous text allowed 10% of the entire HVAC supply airflow to any space to be air from bath and toilet rooms, shower rooms, locker rooms and certain classrooms, shops and labs. The intent was to prevent air from those designates spaces from being recirculated to other spaces except for the small volume of air that leaks across the heat exchanger in an energy recovery ventilation unit. New text makes the code intended language consistent with ASHRAE 62.1-2016	No	No	Yes
13	502.20.1	Manicure and Pedicure Station Exhaust System	Adopt as written	New Subsection to Manicure and pedicure stations. The exhaust system for station must run continuously when the space is occupied. Construction cost could increase due to coordination to interlock the power source with the lights or other automatic way of turning the system on.	Yes	Yes	Yes
14	504.4.1	Termination Location for Dryer Exhaust	Proposed Amendment: Add verbiage to end of section: ..."and any mechanical equipment."	New Subsection to Exhaust installation. Dryer exhaust ducts shall terminate per the installation instructions. Where a termination location is not specified, the exhaust duct shall terminate at least 3 feet from building openings.	No	No	Yes
15	COSA Amendment 505.6	Other than Group R	Recommend to remove the amendment	COSA Amendment. The amendment to this IMC section is in regards to Portable Fire Extinguishers (PFE) and is enforced by the fire code and inspectors per IFC 906.1. This section may have been added to require a PFE in Applied Learning Environment (ALE) classrooms in Group E or a warming kitchen in a church Group A. Section 906.1 would require a PFE in these instances.	No	No	Yes
16	COSA Amendment 606.2	Where Required	Keep Amendment	COSA Amendment. Section regarding smoke detectors references NFPA 90A for installation instructions	No	No	Yes
17	607.4	Access and Identification for fire and smoke dampers	Adopt as written	New Subsections to Access and identification. Section was broken up into multiple subsections. Access door dimensions added for dampers with fusible links and restricted access was added. Changes are consistent with code change FS66-18 for easier access for inspection and testing.	No	No	Yes
18	607.5.2	Duct Penetrations of Fire Barriers	Adopt as written	New Exception. For ducts that penetrate fire barriers, the new exceptions allow flexible air connectors in a fully ducted HVAC system. This more accurately reflects a typical installation.	No	No	Yes
19	607.5.5	Shaft Enclosures	Adopt as written	Change to existing section. Added requirements for fire dampers in Exception 1 to be consistent with smoke dampers in Exception 2 to include a minimum wall thickness for the subduct steel and reference to a continuously operating exhaust fan and standby power for the exhaust fan	No	Yes	Yes
20	801.21	Blocked Vent Switch	Adopt as written	New Section. Added as an additional safety device for oil-fire appliances to be consistent with what is required for some gas fired appliances.	Yes	Yes	Yes
21	929	Unvented Alcohol Fuel-Burning Decorative Appliances	Adopt as written	New Section and Definition. Added for a new type of decorative fuel-burning appliance. Appliance to be listed and labeled and installed per manufacturer's instructions	Yes	Yes	Yes
22	COSA Amendment 1101.10	Locking Access Port Cap	Keep Amendment	COSA Amendment. Adds an exception that a tamper resistant cap is not required were condensers are located in a yard fully enclosed with a permanent barrier no less than 6 feet in height	Yes	No	No. Committee revised amendment to not require locking caps
23	COSA Amendment 1102.3	Access Port Protection	Keep Amendment	COSA Amendment. Removes section that requires refrigerant access ports to be protected	Yes	No	Yes

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24	1101-1108	Ammonia Refrigeration Systems	Adopt as written	Change to existing section. Revisions to remove all regulations for ammonia refrigeration systems from the IMC and defer all regulation to the IIR standards already referenced in the IMC. (International Institute of Ammonia Refrigeration)	No	No	Yes
25	1105.9	Machinery Room Means of Egress	Adopt as written	New Section. Egress requirements for machinery rooms from the IBC were added to the IMC to prevent such requirements from being overlooked. Two exits are required for machinery rooms over 1,000 sf	Yes	Yes	Yes
26	COSA Amendment 1107.4.1	Air Conditioning and Refrigeration Pipe	Recommend to remove the amendment	COSA Amendment. Requires R-4 insulation for suction lines where condensation can occur. Residential requires R-4 but commercial references minimum pipe insulation size. Amendment was created to be consistent. Staff agrees amendment is not needed	No	No	Yes
27	1107-1110	Refrigerant Piping	Adopt as written	Changes to existing sections and additions. Rewritten to reorganize existing text and update provisions that have not been changed in many years. Includes expanded coverage of some topics and includes several new topics that were not previously covered at all. The new sections address piping for all refrigerants except ammonia	Yes	Yes	Yes
28	COSA Amendment M1305.1.2.2	Access for cooling or heating appliance	Revise Amendment language to align with the intent of the amendment	Revision to COSA Amendment. For one and two family residential occupancies and townhomes, with newly installed cooling or heating appliances in the attic space, a permanent ladder, fold-away ladder or a direct access door opening from the house on the same floor level shall be installed.	Yes	Yes	Yes
29	COSA Amendment M1411.3.2	Drain Pipe Materials and Sizes	Keep Amendment	COSA Amendment. Adds requirement that primary drain lines located in unconditioned spaces be insulated with foam plastic rubber based insulation or approved material	No	No	Yes
30	COSA Amendment M1411.8	Locking Access Port Caps	Keep Amendment	COSA Amendment. Adds an exception that a tamper resistant cap is not required were condensers are located in a yard fully enclosed with a permanent barrier no less than 6 feet in height	Yes	No	Yes
31	COSA Amendment M2005.2	Prohibited Locations	Keep Amendment	COSA Amendment. Prohibits storage type water heaters to be stored in attics unless there is a door opening from the house on the same level. Water heaters installed in a garage shall be elevated at least 18" off the floor.	Yes	No	To be reviewed by Plumbing Committee. Any changes will be mirrored in this section

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1	112.2 10-13 (b)	Temporary connection	Adopt as written - Update Ch. 10 amendments	Change to existing section. Sections added to be consistent with IBC. Ch 10 should be updated to include other temporary connections	No	No	Yes
2	COSA Amendment 202	Definitions	Keep Amendments	COSA Amendments.	No	No	Yes
3	202	Definition of Public and Private	Adopt as written	Change to existing section. Definitions simplified to make a clearer distinction as to which plumbing fixtures are intended to be configured for public use	No	No	Yes
4	202	Definition of Water Dispenser	Adopt as written	Change to existing section. Eliminates bottled water units or other self-contained potable water dispensing apparatus as an alternative. No issues due to current amendment that states "water in other containers" in COSA Amendments 410.4	No	No	Yes
5	COSA Amendment 301.8	Accessible Openings	Keep Amendment	COSA Amendment. Identifies the size of openings when accessible openings are required	No	No	Yes
6	COSA Amendment 301.9	Separation from Electrical Lines in a Ditch	Keep Amendment	COSA Amendment. Specifies that electrical lines shall not be in the same ditch with plumbing, gas, sewer, or water piping unless separated by 36". See CPS requirements 1002.2 (B) - modify	Yes	No	Yes
7	COSA Amendment 301.10	Support	Keep Amendment	COSA Amendment. Requires that exterior equipment shall be on level concrete not less than 3" above the adjoining level	No	No	Yes
8	COSA Amendment 305.4.1	Sewer Depth	Keep Amendment	COSA Amendment. Requires that sewers be installed at least 12" below finished grade	Yes	No	Yes
9	COSA Amendment 312.1.1	Test Gauges	Keep Amendment	COSA Amendment. Specifies test gauge requirements. See Pressure Gauge Accuracy Grades Table	No	No	Yes
10	COSA Amendment 312.2	Drainage and Vent Water Test	Keep Amendment	COSA Amendment. Reduces the water head test depth from 10' to 3.5' and specifies that an inspection is required. COSA Amendment since 1994 code. See proposed code change to IRC and proponents reason statement. Just under 6,000 new residential permits issued in 2021	No	No	Yes
11	COSA Amendment 312.6	Gravity Sewer Test	Keep Amendment	*COSA Amendment. Removes requirement to perform a gravity sewer test. Nearly 6,000 new residential permits issued in 2021	No	No	Yes
12	COSA Amendment 312.7	Forced Sewer Test	Keep Amendment	*COSA Amendment. Removes requirement to perform a forced sewer test	No	No	Yes
13	COSA Amendment 314.2.1	Condensate Disposal	Keep Amendment	COSA Amendment. References Chapter 34, Section 34-274 of the City Code for condensate disposal. Chapter 34 covers Water and Sewer requirements (SAWS). Review proposed language in Draft document	No	No	Yes
14	314.2.1.1	Condensate Disposal	Amend to remove "except where discharging to grade outdoors"	New Section. Proposed Amendment. Discharging to grade is not permitted. Last sentence to read "The point of discharge of condensate drains shall be located within the same occupancy, tenant space or dwelling unit as the source of condensate". Review proposed language in Draft document	Yes	No	Yes
15	COSA Amendment 314.2.4.1	Ductless mini-split system traps	Keep Amendment	COSA Amendment. References manufacturers' recommendations for condensate instead of an in line check valve or a trap	No	No	Yes

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16	COSA Amendment 401.3	Water Conservation	Keep Amendment	COSA Amendment. Identifies maximum discharge flow rates to comply with Ch. 15, Table 604.4 or TCEQ requirements	No	No	Yes
17	COSA Amendment Table 403.1	Minimum Number of Required Plumbing Fixtures; Note e	Keep Amendment	*COSA Amendment. Allows exception for service sinks to all occupancies and not just B & M uses.	No	No	Yes
18	COSA Amendment Table 403.1	Minimum Number of Required Plumbing Fixtures; Note f	Remove Amendment	COSA Amendment. Remove amendment since the ISPSC is now adopted	No	No	Yes
19	403.2	Multiple User Nonseparated Toilet Facilities	Proposed Amendment	*New exceptions. Allows multiple user facilities to serve all genders provided urinals are visually separated or located in a stall Recommendation is to remove the "urinals shall be located ...". Remove "provide in accordance with 405.3.4" and replace with "Water closet walls shall extend from the floor to ceiling" Urinals shall also be in an enclosure.	No	No	Yes
20	403.1.1	Fixture Quantity Calculations for Multiple User Facilities	Proposed Amendment	*New exceptions. Allows multiple user facilities to serve all genders. Remove stall and specify enclosure.	No	No	Yes
21	COSA Amendment 405.3.1	Water Closets, Urinals, Lavatories, and Bidets	Keep Amendment	*COSA Amendment. Allows lavatories to be closer than 15 inches from center to side wall, partition, vanity or other	No	No	Yes
22	COSA Amendment 410.2	Small Occupancies	Keep Amendment	*COSA Amendment. Allows occupancies to reach an occupant load over 30 before drinking fountains are required	No	No	Yes
23	COSA Amendment 410.4	Substitution	Keep Amendment	*COSA Amendment. Amendment allows occupancies other than just restaurants to provide drinking water in containers. New code states that substitution can occur when 3 or more drinking fountains are required	No	No	Yes
24	COSA Amendment 424.1.1	Non-water using urinals	Keep Amendment	COSA Amendment. Amendment references additional requirements due to sanitation issues with non-water urinals	Yes	No	Yes
25	COSA Amendment 502.3	Water heaters installed in attics	Keep Amendment	COSA Amendment. Amendment requires a door opening on the same level when a storage type water heater is installed in an attic.	No	No	Yes
26	COSA Amendment 502.6	Water Heaters Installed under Stairways and Landings	Keep Amendment	COSA Amendment. Specifies that only electric water heaters may be stored under stairways and landings	Yes	No	Yes
27	COSA Amendment 502.7	Electric Water heaters Installed in Garages	Remove Amendment	COSA Amendment. Specifies that electric water heaters shall be elevated at least 18 inches above the garage floor. This is stated in IFGC 305.3 which says appliances having an <i>ignition source</i> shall be elevated	Yes	No	No
28	COSA Amendment 504.1	Antisiphon Devices	Remove Amendment	*COSA Amendment. Most water heaters have a cold water "dip" tube and removing this strike through offers additional options	No	No	Yes
29	COSA Amendment 504.6	Requirements for Discharge Piping	Expand Amendment	COSA Amendment. Keep amendments to #5 and #7 and add a #15 to read "Union or flex connector on temperature pressure relief valve shall be placed within six inches (1522 mm) of the valve for removal and replacement"	No	Yes	Yes

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30	603.1	Size of Water Service Pipe	Proposed Amendment. Table until next meeting	New Amendment. Add sentence to state "The water service pipe shall be at least the same size as the largest water distribution pipe in the structure it serves". Staff does not recommend moving forward with this proposed amendment	Yes	Yes	No
31	COSA Amendment 604.4 and Table 604.4	Maximum Flow and Water Consumption	Keep Amendment	COSA Amendment. Blowout design w.c. aren't utilized and when they were, they were replaced within a couple of years. In the Table, maximum flow rates are specified for water conservation	No	No	Yes
32	COSA Amendment 604.9	Water Hammer	Keep Amendment	*COSA Amendment. Specifies what qualifies as a "quick closing valve". Helps clarify	No	No	Yes
33	COSA Amendment Table 605.3	Water Service Pipe	Remove Amendment	COSA Amendment. Eliminates Copper or copper alloy tubing Type M and WM from being used. In Ch 10, Standards for Copper or Copper alloy tubing were struck. They need to remain	Yes	No	Yes
34	COSA Amendment Table 605.3	Water Service Pipe	Keep Amendment	COSA Amendment. Correct table in Ch. 10 and add AWWA C900-07 to list of standards for PVC	No	No	Yes
35	COSA Amendment Table 605.4	Water Distribution Pipe	Remove Amendment	COSA Amendment. Eliminates Copper or copper alloy tubing Type M and WM from being used.	Yes	No	Yes
36	COSA Amendment 605.23.2	Plastic Pipe or Tubing to Other Piping Materials	Remove Amendment	COSA Amendment. Nobody is using this type of fitting	No	No	No
37	606.1	Individual tenant water shut off valve	Adopt as written	New Section. Modification requires a main shutoff valve for each tenant in a multi-tenant building. Most contractors are already installing this feature	No	Yes	Yes
38	COSA Amendment 606.2	Location of Shutoff Valves	Keep Amendment	*COSA Amendment. Eliminates the requirement for a shutoff valve on the water supply pipe to each sillcock which includes hose bibs.	No	No	Yes
39	COSA Amendment 607.3	Thermal Expansion Control	Keep Amendment	COSA Amendment. References City Ordinance for water conservation	No	No	Yes
40	COSA Amendment Table 608.1	Application of Backflow Preventers	Keep Amendment	COSA Amendment. Changed the standard that backflow preventers for carbonated beverage machines from ASSE 1022 to ASSE 1015. ASSE 1022 is not a testable device// coordinate with TCEQ standards/requirements. Motion to accept staff recommendation based on COSA and TCEQ confirmation.	No	No	Yes
41	COSA Amendment 608.14.10	Listing	Remove Amendment	COSA Amendment. Amendment is redundant. Items not covered in this code are allowed to be submitted as alternative methods to be reviewed by the code official	No	No	Yes
42	COSA Amendment 608.14.11	More Than One Assembly	Keep Amendment	COSA Amendment. When there are multiple backflows, requires that they are marked to identify the location served	No	No	Yes
43	COSA Amendment 608.15.3	Accessible Openings	Keep Amendment	COSA Amendment. Backflow preventer needs to be readily accessible	No	No	Yes

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44	COSA Amendment 608.17.1.1	Carbonated beverage dispensers	Keep Amendment	COSA Amendment. Changed the standard that backflow preventers for carbonated beverage machines from ASSE 1022 to ASSE 1015. ASSE 1022 is not a testable device. COSA / TCEQ to coordinate.	No	No	Yes
45	COSA Amendment 608.17.2	Connections to non-potable boiler	Keep Amendment	COSA Amendment. ASSE 1012 is a non-testable device. COSA / TCEQ to coordinate.	No	No	Yes
46	COSA Amendment 608.17.5	Connections to lawn irrigation systems	Keep Amendment	*COSA Amendment. Aligns with SAWS requirements. Atmospheric vacuum breaker is not testable and is not permitted by TCEQ and amendment reduces installation cost.	No	No	Yes
47	609.2	Water service for Group I-2, Condition 2 facilities	Adopt as written	Change. Removes "Hospitals" and requires I-2, Condition 2 facilities (those that could provide emergency care) to have 2 water service pipes sized such that either one can meet the demands of the entire facility and requires shutoff valves	Yes	Yes	Yes
48	609.2.1	Tracer wire	Adopt as written	New Section. Requires an insulated tracer wire for nonmetallic piping be installed adjacent to underground piping serving as a water service for a hospital	No	Yes	Yes
49	COSA Amendment 705.1.1	Joint Couplings	Keep amendment	COSA Amendment. Requires that all underground or under slab mechanical joint couplings be shielded and Wide-Bodied	No	No	Yes
50	705.2.4 / 705.10.4	Push-fit joints	Adopt as written	New Sections. Push-fit fittings are a new type of DWV fitting for ABS and PVC piping. New section to require compliance with standards when used	No	No	Yes
51	COSA Amendment 706.3	Installation of fittings	Remove amendment	COSA Amendment. Remove "or without" pumping action discharge.	No	No	Yes
52	COSA Amendment 708.1.2 / 708.1.4	Building Sewers / Changes of direction	Remove amendments	COSA Amendment. Current amendment requires a direction tee-wye. 708.1.9 already requires cleanout to enable cleaning of drainage pipe in the direction of flow. Change of direction for clean outs shall reference straight code	No	No	Yes
53	708.1.6	Cleanout Equivalent	Adopt as written	*New Section. Allows an accessible fixture trap to be acceptable as a cleanout equivalent	No	No	Yes
54	COSA Amendment 708.1.7 to 708.1.8	Manholes	Keep amendment and update section #	COSA Amendment. Added at the request of SAWS	No	No	Yes
55	COSA Amendment 708.1.12 to 708.1.13	Individual fixtures	Keep amendment and update section #	COSA Amendment. These drains stop up most frequently and they should have a clean out for service	No	No	Yes
56	717 and 718	Relining Building Sewers and Building Drains	Proposed Amendment	New sections. Recommend PE certification and approval	No	Yes	Yes
57	COSA Amendment 802.4	Waste Receptors	Keep amendment	*COSA Amendment. Allows apartments to have a condensate drain in mechanical closet	No	No	Yes
58	COSA Amendment 903.1	Roof Extension	Keep amendment and update section #	COSA Amendment. Requires AHJ to insert a number to specify the minimum number of inches open vent pipes shall extend through the roof	No	No	Yes

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59	COSA Amendment 905.4	Vertical Rise of Vent	Keep amendment and modify slightly	COSA Amendment. Can remove "a minimum" because it's redundant but keep the rest of the amendment	No	No	Yes
60	COSA Amendment 915.1	Type of Fixtures	Remove amendment	COSA Amendment. New code language matches our amendment	No	No	Yes
61	COSA Amendment 915.2.3	Connection	Keep amendment	COSA Amendment. Carry over from UPC	No	No	Yes
62	COSA Amendment 917.1.1	Single Stack vent system. Engineering Certification	Keep amendment	COSA Amendment. Requires certification letter from engineer	No	No	Yes
63	1002.4.1.5	Fixture drain connection for trap primer	Adopt as written	New Section. Allows indirect connection for hand sink to floor drain/trench drain	No	No	Yes
64	COSA Amendment 1003.2	Interceptors and Separators. Approval	Keep amendment	COSA Amendment. Requires interceptors to be stamped or labeled	No	No	Yes
65	COSA Amendment 1003.3.2	Food waste disposers restriction	Keep amendment	COSA Amendment. Amendment offers option for customers	No	No	Yes
66	COSA Amendment 1004.2	Sample Well	Keep amendment	COSA Amendment. SAWS requirement	No	No	Yes
67	1106.2 / 1106.2.1	Size of storm drain piping / Rainfall rate conversion method	Adopt as written	New Section. Provides a method to convert inches/hour of rainfall to gallons per minute. Requires the flow rate calculated be checked against the manufacturer's flow rate for the specific roof drain	No	No	Yes

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68	COSA Amendment 1202.2	Med gas not regulated by NFPA 99	Keep amendment	This topic should be discussed further with the board. NFPA 99 (national standard) excludes vet clinics Staff agrees it can be removed as it creates undue cost to customer to obtain contractor with med gas certification	No	No	Yes
69	1301.1	General	Adopt as written	Change to existing section. Specifies CSA B805/ICC 805 as an alternative to regulate rainwater harvesting	No	No	Yes
70	COSA Amendment 1301.5	Potable water connections	Remove amendment	COSA Amendment. Redundant and unnecessary	No	No	Yes
71	COSA Amendment 1301.9.4	Makeup Water	Keep amendment	COSA Amendment. SAWS requirement	No	No	Yes
72	COSA Amendment P2501.3 (301.8)	Accessible Openings	Keep Amendment	COSA Amendment. Identifies the size of openings when accessible openings are required	No	No	Yes
73	COSA Amendment P2501.4 (301.9)	Separation from Electrical Lines in a Ditch	Keep Amendment	COSA Amendment. Specifies that electrical lines shall not be in the same ditch with plumbing, gas, sewer, or water piping unless separated by 36". See CPS requirements 1002.2 (B)	No	No	Yes
74	COSA Amendment P2501.5 (301.10)	Support	Keep Amendment	COSA Amendment. Requires that exterior equipment shall be on level concrete not less than 3" above the adjoining level	No	No	Yes
75	COSA Amendment P2503.5.1 (312.2)	Rough Plumbing	Keep Amendment	COSA Amendment. Reduces the water head test depth from 10' to 3.5' and specifies that an inspection is required. COSA Amendment since 1994 code. See proposed code change to IRC and proponents reason statement. Just under 6,000 new residential permits issued in 2021	No	No	Yes
76	COSA Amendment P2503.4 (312.6)	Building sewer testing	Keep Amendment	*COSA Amendment. Removes requirement to perform a gravity sewer test. Nearly 6,000 new residential permits issued in 2021	No	No	Yes
77	COSA Amendment P2503.9 (312.1.1)	Test Gauges	Keep Amendment	COSA Amendment. Specifies test gauge requirements. See Pressure Gauge Accuracy Grades Table	No	No	Yes
78	COSA Amendment P2603.5.1 (305.4.1)	Sewer Depth	Keep Amendment	COSA Amendment. Requires that sewers be installed at least 12" below finished grade	Yes	No	Yes
79	COSA Amendment P2801.4 (502.3)	Location	Keep Amendment	COSA Amendment. Amendment requires a door opening on the same level when a storage type water heater is installed in an attic.	No	No	Yes
80	COSA Amendment P2801.5 (502.6)	Prohibited Locations	Keep Amendment	COSA Amendment. Specifies that only electric water heaters may be stored under stairways and landings	Yes	No	Yes

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81	COSA Amendment P2804.6.1 (504.6)	Requirements for Discharge Piping	Expand Amendment	COSA Amendment. Keep amendments to #5 and #7 and add a #15 to read "Union or flex connector on temperature pressure relief valve shall be placed within six inches (1522 mm) of the valve for removal and replacement"	No	Yes	Yes
82	COSA Amendment P2902.5.3 (608.17.5)	Connections to lawn irrigation systems	Keep Amendment	*COSA Amendment. Aligns with SAWS requirements. Atmospheric vacuum breaker is not testable and is not permitted by TCEQ and amendment reduces installation cost	No	No	Yes

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83	COSA Amendment P2903.5 (604.9)	Water Hammer	Keep Amendment	*COSA Amendment. Specifies what qualifies as a "quick closing valve". Helps clarify	No	No	Yes
84	COSA Amendment Table P2906.4 (605.3)	Water Service Pipe	Keep Amendment	COSA Amendment. Add AWWA C900-07 to list of standards for PVC	No	No	Yes
85	COSA Amendment P2906.18.3 (605.23.2)	Plastic Pipe or Tubing to Other Piping Materials	Keep Amendment	COSA Amendment. Nobody is using this type of fitting	No	No	Yes
86	COSA Amendment P2910.9.5 (1301.9.4)	Makeup Water	Keep Amendment	COSA Amendment. SAWS requirement	No	No	Yes
87	COSA Amendment P3002.2 (702.3)	Building Sewer	Keep Amendment	COSA Amendment. Specifies building sewer type materials	Yes	No	Yes
88	COSA Amendment P3005.2 (708.1.12 to 708.1.13)	Individual fixtures	Keep Amendment	COSA Amendment. These drains stop up most frequently and they should have a clean out for service	No	No	Yes
89	P3011 (717)	Relining Building Sewers and Building Drains	Proposed Amendment	New sections. Recommend PE certification and approval	No	Yes	Yes
90	COSA Amendment P3104.4 (903.1)	Roof Extension	Keep Amendment	COSA Amendment. Requires AHJ to insert a number to specify the minimum number of inches open vent pipes shall extend through the roof	No	No	Yes
91	COSA Amendment P3111.2.2 (905.4)	Vertical Rise of Vent	Keep amendment	COSA Amendment. Can remove "a minimum" because it's redundant but keep the rest of the amendment	No	No	Yes
92	312.5.1	Water Supply Pipe Test	Proposed Amendment	COSA Amendment. Proposed by SAWS to require test to pipe exposed for repair, replacement or inspection if constructed prior to 2014	No	Yes	No
93	P2503.7.1 (312.5.1)	Water Supply Pipe Test	Proposed Amendment	COSA Amendment. Proposed by SAWS to require test to pipe exposed for repair, replacement or inspection if constructed prior to 2014	No	Yes	No

Proposed updates to 2021 International Fuel Gas Code (IFGC) and Ch. 10 Amendments

No.	Section	Title	Recommendation	Summary of Change	Health/ Life/Safety	Potential Construction Cost Increase	Recommendation Approved
1	COSA Amendment 301.16	Separation from electrical lines in a ditch	Keep amendment	COSA Amendment. Specifies that electrical lines shall not be in the same ditch with plumbing, gas, sewer, or water piping unless separated by 36" // will mimic modification as made in IPC.	Yes	No	Yes
2	307.2	Fuel Burning Appliances	Adopt as written	Change. Requires the termination of concealed condensate piping to be marked to indicate whether the piping is connected to the primary or secondary drain	No	No	Yes
3	COSA Amendment 401.5	Identification	Keep amendment and update to 2021 language	COSA Amendment. Requires medium pressure gas piping to have a metallic tag stamped with "WARNING 1-5 psi gas pressure Do No Remove"	Yes	no	Yes
4	COSA Amendment 403.4.2 (403.3.2 in 2021 Code)	Steel	Keep amendment	COSA Amendment. Specifies CSST can't be used in the meter loop	Yes	No	Yes
5	COSA Amendment 403.5.5	Corrugated stainless steel tubing	Keep amendment	COSA Amendment. Specifies CSST can't be used in exterior walls	No	No	Yes
6	COSA Amendment 403.10.6 (403.9.6 in 2021)	Welded pipe	Keep amendment and update to to 2021 language	COSA Amendment. Requires welded joints to be completed by a certified pipe welder	No	No	Yes
7	COSA Amendment 404.2.1	Meter Loop	Remove amendment	COSA Amendment. Will need to remove amendment due to House Bill 2439	No	No	No
8	COSA Amendment 404.2.2	Exterior Walls	Remove amendment	COSA Amendment. Will need to remove amendment due to House Bill 2439	No	No	No
9	COSA Amendment 404.6	Underground penetrations prohibited	Keep amendment to allow alternative method	COSA Amendment. The added exception allows gas piping to penetrate a slab on grade foundation where the installation complies with 404.14.	No	No	Yes
10	COSA Amendment 406.4.1	Test Pressure	Keep amendment	COSA Amendment. Specifies test pressure and inspection requirements	No	No	Yes
11	COSA Amendment 406.4.2	Test Duration	Keep amendment	COSA Amendment. Specifies test duration	No	No	Yes
12	COSA Amendment 406.4.3	Test gauges	Keep amendment	COSA Amendment. Specifies the required test gauge	No	No	Yes
13	COSA Amendment 409.5	Appliance shutoff valve	Keep amendment	COSA Amendment. Eliminates the allowance to have the shutoff valve at a manifold. Appliance shutoff should be at appliance for safety reasons	Yes	No	Yes
14	503.8	Venting System Terminal Clearances	Adopt as written	Change. Through the wall vent terminal clearance distances have been placed in a new table and a figure added for ease of use	No	No	Yes

Proposed updates to 2021 International Fuel Gas Code (IFGC) and Ch. 10 Amendments

No.	Section	Title	Recommendation	Summary of Change	Health/ Life/Safety	Potential Construction Cost Increase	Recommendation Approved
15	COSA Amendment G2404.12 (301.16)	Separation from electrical lines in a ditch	Keep amendment	COSA Amendment. Specifies that electrical lines shall not be in the same ditch with plumbing, gas, sewer, or water piping unless separated by 36"	Yes	No	Yes
16	COSA Amendment G2412.5 (401.5)	Identification	Keep amendment and update to 2021 language	COSA Amendment. Requires medium pressure gas piping to have a metallic tag stamped with "WARNING 1-5 psi gas pressure Do No Remove"	Yes	no	Yes
17	COSA Amendment 2414.9.6 (403.9.6)	Welded pipe	Keep amendment and update to to 2021 language	COSA Amendment. Requires welded joints to be completed by a certified pipe welder	No	No	Yes
18	COSA Amendment G2415.2 (404.2.1)	Meter Loop	Keep amendment	COSA Amendment. Specifies CSST can't be used in the meter loop	No	No	Yes
19	COSA Amendment G2415.2.2 (404.2.2)	Exterior Walls	Keep amendment	COSA Amendment. Specifies CSST can't be used in exterior walls	No	No	Yes
20	COSA Amendment G2415.6 (404.6)	Underground penetrations prohibited	Keep amendment to allow alternative method	COSA Amendment. The added exception allows gas piping to penetrate a slab on grade foundation where the installation complies with 404.14.	No	No	Yes
21	COSA Amendment G2417.4.1 (406.4.1)	Test Pressure	Keep amendment	COSA Amendment. Specifies test pressure and inspection requirements	No	No	Yes
22	COSA Amendment G2417.4.2 (406.4.2)	Test Duration	Keep amendment	COSA Amendment. Specifies test duration	No	No	Yes
23	COSA Amendment G2417.4.3 (406.4.3)	Test gauges	Keep amendment	COSA Amendment. Specifies the required test gauge	No	No	Yes
24	COSA Amendment G2420.5 (409.5)	Appliance shutoff valve	Keep amendment	COSA Amendment. Eliminates the allowance to have the shutoff valve at a manifold. Appliance shutoff should be at appliance for safety reasons	Yes	No	Yes

Proposed updates to 2020 National Electrical Code (NEC) and Chapter 10 Amendments

No.	Section	Title	Recommendation	Summary of Change	Health/ Life/Safety	Potential Construction Cost Increase	Recommendation Approved
1	90.2(A)(5) & (6)	Covered	Adopt as written	New Section. Clarification that shore power and export power from electric vehicles is covered by NEC	No	No	Yes
2	100-Scope	Definitions	Adopt as written	Minor Change. Definitions may also be found in XXX.2 sections of other Articles. Part III contains definitions applicable to hazardous locations	No	No	Yes
3	Definitions	Dormitory Unit	Adopt as written	New Definition. New definition of Dormitory Unit. Group sleeping for more than 16 persons	No	No	Yes
4	Definitions	Dwelling unit	Proposed Amendment	Proposed Amendment. Add "to include free-standing habitable accessory structures at dwellings to enforce arc fault, circuiting, receptacle spacing, interior br. circuits, interior panel	Yes	Yes	Yes
5	Definitions	Habitable Room	Adopt as written	New definition. New Definition of Habitable Room to identify spaces subject to requirements of such rooms	No	No	Yes
6	Definitions	Interactive Inverter	Adopt as written	Change to Definition. Interactive Inverter definition modified to clarify that such can export to utility as well as utilization equipment. CPS Energy does not permit parallel operation. Only with CPS Approval	No	No	Yes
7	110.14	Electrical Connections	Adopt as written	*Deletion. Removes <i>copper & copper-clad aluminum</i> as dissimilar metals	No	No	Yes
8	110.26C(2)	Large Equipment	Adopt as written	Change. Revision requires 2 means of egress when there are 2 or more service disconnecting means installed per 230.71 that have combined rating of 1200 amps or more. Revision to indicate that open equipment doors shall not impede access	Yes	Yes	Yes
9	110.32	Work Space About Equipment	Adopt as written	Change. Revision to require both minimum width and height as conditions where energized parts are exposed. New provisions added for other equipment in workspace, prohibited storage, and guarding of live parts	Yes	Yes	Yes
10	COSA Amendment 200.6(A) & (B)	Means of Identifying Grounded Conductors	Keep Amendment	COSA Amendment. Changes 6 AWG or small to 10 AWG. Changes 4 AWG or Larger to 8 AWG.	No	No	Yes
11	COSA Amendment 210.5 (C)(1)	Identification of Ungrounded Conductors	Update Amendment	COSA Amendment. Revision to permit multiple systems having the same voltage class to employ the same ID system. New language to be added to current amendment. Current stricken language to remain stricken. Keep table as is and keep Informational Notes 1-3	No	No	Yes
12	COSA Amendment Table 210.5	Ungrounded Conductor Identification Colors for Electrical Systems	Revise Amendment	COSA Amendment. Proposal to change identification colors for Three Phase conductors. Purple to Brown and Brown to Orange. (RC) // Committee recommends to keep amendment as is	No	No	No
13	Chapter 10, 210.5(C)(2) & 215.12	Branch Circuits Supplied from Direct-Current Systems	Keep Amendment	COSA Amendment. Strike out NEC language: tagging or other approved means; maintain consistency with strike out in earlier portion of this section	No	No	Yes
14	210.8	Ground-Fault Circuit-Interrupter Protection for Personnel	Adopt as written	Change. GFCI protection extended. Revision expanding GFCI protection, locations and buildings and adding new location for GFCI protection. New Exception for locking & mounting support. GFCI protection of dishwashers moved to 422	Yes	Yes	Yes
15	210.8(F)	Outdoor Outlets	Amend to strike	Change. New requirement & exception on GfCI protection of outdoor outlets supplied by single-phase circuits rated 150 volts or less to ground, 50 amps or less. NOT ADOPTED BY TDLR. DO WE ADOPT OR FOLLOW STATE?	Yes	Yes	Yes
16	210.11C(4)	Garage Branch Circuits	Adopt as written	Minor Change. Revision to clarify which garage receptacle outlets are to be supplied by the garage receptacle branch circuit	No	No	Yes
17	210.12(A)	Arc-Fault Circuit-Interrupter Protection for Dwelling Units	Proposed Amendment	Proposed Amendment. AFCI protection required for all 15/20 amp, 120 volt, single phase branch circuits in habitable structures meeting the electrical definition of a dwelling unit	No	No	No

Proposed updates to 2020 National Electrical Code (NEC) and Chapter 10 Amendments

No.	Section	Title	Recommendation	Summary of Change	Health/ Life/Safety	Potential Construction Cost Increase	Recommendation Approved
18	210.12C & D	Arc-Fault Circuit-Interrupter Protection for Guest rooms, etc and Branch Circuit Extensions or Mods for Dwelling Units, etc	Adopt as written	Change. Revision to expand requirements of AFCI protection in certain areas of nursing homes & limited care facilities; added methods for extension of circuits; added exception for branch circuits not exceeding 6 ft	No	Yes	Yes
19	210.15	Reconditioned Equipment	Adopt as written	New Section. New section to identify types of equipment used in branch circuits that cannot be reconditioned	No	No	Yes
20	COSA Amendment 210.19(A)(1)(a)	Branch Circuits Not More Than 600 Volts. General	Adopt as written and update amendment	Minor change. Revision to clarify and consolidate redundant cross-reference. Update amendments to incorporate new verbiage	No	No	Yes
21	210.19(A)(1), Exc. #2 & (A)(3), Exc #1	Branch Circuits Not More Than 600 Volts. General	Adopt as written	Change. New permissive exception on sizing branch circuit conductors that supply continuous loads; expand applicability of lower rated branch circuits. Revision to expand applicability of lower rated branch circuits	No	No	Yes
22	COSA Amendment 210.52(B)(1), Ex #1	Required Outlets. Small Appliances	Adopt as written and update amendment	Minor Change. Revision to clarify permitted branch circuit ratings. Update amendments to incorporate new verbiage	No	No	Yes
23	210.52C	Countertops and Work Surface	Adopt as written	Minor Change. Revisions for countertop receptacles, expanding number for peninsulas & islands; providing dimensions for required number	No	Yes	Yes
24	210.52(E)(3)	Balconies, Decks and Porches	Adopt as written	Minor Change. Revision to state that balconies, decks and porches within 4in. of the dwelling shall have at least one receptacle	No	No	Yes
25	210.52G	Basements, Garages, and Accessory Buildings	Adopt as written	Change. Requirement and exception for receptacles in multifamily dwelling garages	No	Yes	Yes
26	210.63A&B	Equipment Requiring Servicing. HVAC and Refrigerations Equipment and Other Electrical Equipment	Adopt as written	Change. Revision to combine requirements for HVAC service receptacle and for receptacles at indoor service and other electrical equipment	No	No	Yes
27	210.65	Meeting Rooms	Adopt as written	Change. Revisions allow installer, designer or building owner to determine location of receptacles in fixed walls in meeting rooms. Updates to floor outlets	No	No	Yes
28	210.70 and COSA Amendment 210.70D	Lighting Outlets Required. Open Lamps	Keep amendment and update language	Minor Change and COSA Amendment. Language changed from "wall switch-controlled lighting outlet" to lighting outlet controlled by a listed wall-mounted control device". Amendment adds requirements for Open Lamps	No	No	Yes
29	215.10 Ex. #3	Ground-Fault Protection of Equipment	Adopt as written	New Exception. New exception to address temporary feeders from a generator for maintenance repair or emergencies for ground fault requirements	No	No	Yes
30	220.11	Floor Area	Adopt as written	New Section. Specifies how to calculate floor area	No	No	Yes
31	220.12(A) & Table 220.12	Lighting Load for Non-Dwelling Occupancies	Adopt as written	Change. Removed dwelling units from this section and added revisions for calculating lighting loads; accounting for energy code requirements	No	No	Yes
32	220.14(J)	Other Loads - Dwelling Units	Adopt as written and update amendment	Change. Revision to dwelling units, to apply unit value for general lighting and to include some small motors in general lighting load	No	No	Yes
33	220.14(M)	Other Loads - Hotel and Motel Occupancies	Adopt as written	New Section. Specifies calculations for guestroom/suite loads	No	No	Yes
34	220.53	Appliance Load - Dwelling Units	Adopt as written	Change. Revision to add cooking appliances similar to electric ranges, to exclude certain small appliance loads when determining number of appliances	No	Yes	Yes
35	220.60	Noncoincident Loads	Adopt as written	Change. Revision to clarify how motor loads are calc'ed when determining largest non-coincident load	No	No	Yes
36	220.87	Determining Existing Loads	Adopt as written	Change. New exception to cover services or feeders connected to a renewable energy system or that are capable of peak load shaving.	No	No	Yes

Proposed updates to 2020 National Electrical Code (NEC) and Chapter 10 Amendments

No.	Section	Title	Recommendation	Summary of Change	Health/ Life/Safety	Potential Construction Cost Increase	Recommendation Approved
37	225.10	Wiring on Buildings (or Other Structures)	Proposed Amendment	Change. Revision to include SE Cable to identify specific type of TC permitted. Add "restricted to dwelling use & multifamily use (Types III, IV, & V construction) after SE & USE in Chapter 10	No	No	No
38	225.30B	Common Supply Equipment	Proposed Amendment. Don't adopt	New Section. Revision to permit multiple feeders to separate structures where they originate in the same supply equipment and terminate in separate, grouped disconnecting means	No	No	Yes
39	230.43	Wiring Methods for 1000 Volts, Nominal, or Less	Remove Amendment	COSA Amendment. Revision to include additional wiring methods for service entrance conductor. Remove new method (20) Type TC-ER Cable. Reference 336.10(7)d; similar spec to MC which we don't allow. (RC). COSA is not permitted to eliminate types of materials used.	No	No	Yes
40	220.44	Cable Trays	Proposed Amendment. Don't adopt change	Change. Revision to include additional wiring methods for service entrance conductors in cable trays. Modify Chapter 10 to not permit SE Cable as service entrance in cable trays	No	No	Yes
41	230.46	Spliced and Tapped Conductors.	Adopt as written	Change. Revision to require certification of methods used to splice or tap service conductors	No	No	Yes
42	230.67	Surge Protection	Adopt as written	New Section. Services supplying dwellings to include surge protection	Yes	Yes	Yes
43	COSA Amendment 230.2	Number of Services	Keep Amendment	COSA Amendment. References required color coding for service entrance conductors	No	No	Yes
44	COSA Amendment 230.30	Installation	Remove Amendment	COSA Amendment. COSA is not permitted to eliminate types of materials used.	Yes	No	Yes
45	230.82 (5)	Equipment Connected to the Supply Side of Service Disconnect	Proposed Amendment	Proposed Amendment. Revision to clarify terminology associated with conductor connections on the supply side of the service disconnecting means. Add to Chapter 10 "such connections shall not be made within service equipment enclosures" in. CPS to weigh in on	Yes	Yes	Yes
46	230.82(6)	Equipment Connected to the Supply Side of Service Disconnect	Proposed Amendment	Proposed Amendment. Revision to clarify supply side interconnection of output conductors. Add to Chapter 10 "such connections shall not be made within service equipment enclosures" in. CPS to weigh in on	Yes	No	Yes
47	240.6C	Standard Ampere Ratings	Adopt as written	Change. Revisions to restricted access adjustable trip circuit breakers	Yes	No	Yes
48	240.24(D)	Not in the Vicinity of Easily Ignitable Material	Proposed Amendment	New Amendment. To codify CI 2015-04 which states storage is not permitted in electrical or mechanical rooms, modify this section to read " <u>Newly installed</u> overcurrent devices shall not be located in the vicinity of easily ignitable material, such as in clothes closets, storage rooms, janitor rooms, and similar."	Yes	No	Yes
49	240.87	Arc Energy Reduction	Adopt as written	Change. New requirements for documentation & performance testing of arc energy reduction	Yes	Yes	Yes
50	240.88	Reconditioned Equipment	Adopt as written	New Section. New requirements for reconditioned circuit breakers & components	Yes	Yes	Yes
51	250.25	Grounding Systems Permitted to be Connected on the Supply Side of the Disconnect	Adopt as written	New Section. New section to cover requirements for grounding and bonding of supply side disconnects	Yes	No	Yes
52	250.30	Grounding Separately Derived Alternation-Current Systems	Adopt as written	Change. Revision to clarify multiple separately derived systems of the same type connected in parallel are considered as 1 separately derived system	No	No	Yes
53	250.30A(1)(b), Exception	Grounding Separately Derived Alternation-Current Systems	Adopt as written	*New Exception. New exception to permit system bonding jumper to be installed at other than the disconnecting means located at each parallel source for parallel systems	No	No	Yes
54	250.30A(6), Exception	Grounding Separately Derived Alternation-Current Systems	Adopt as written	*New Exception. New exception to 250.30A6(a)(1) & (B) to permit reduced size grounding conductors under the stated conditions & to correlate with 250.66	Yes	No	Yes

Proposed updates to 2020 National Electrical Code (NEC) and Chapter 10 Amendments

No.	Section	Title	Recommendation	Summary of Change	Health/ Life/Safety	Potential Construction Cost Increase	Recommendation Approved
55	COSA Amendment 250.52	Grounding Electrodes	Keep Amendment	COSA Amendment. Add an Informational note to mirror CPS requirements	Yes	No	Yes
56	250.53C	Grounding Electrode System Installation. Bonding Jumper	Adopt as written	Change. Revision to prohibit utilizing rebar as a conductor to interconnect other electrodes	Yes	No	Yes
57	250.64E(3)	Grounding Electrode Conductor Installation	Adopt as written	Change. Revision to size requirements determined by the largest grounding electrode conductor installed.	Yes	Yes	Yes
58	250.68C(3)	Grounding Electrode Conductor and Bonding Jumper Connection to Grounding Electrodes	Adopt as written	Change. Revision to specify methods of connecting the rebar extension to the grounding electrode rebar and prohibit utilizing rebar as a conductor to interconnect other electrodes	No	No	Yes
59	250.98	Bonding Loosely Jointed Metal Raceways	Adopt as written	Change. Revision to add expansion deflection and deflection fittings to the list of fittings	Yes	Yes	Yes
60	250.104A(1)(4)	Bonding of Piping Systems and Exposed Structural Metal	Adopt as written	Change. Revision to prescribe a maximum size conductor	Yes	Yes	Yes
61	250.109	Metal Enclosures	Adopt as written	*New Section. New section to permit metal enclosures as a means to connect bonding jumpers or EGCs & metal covers & fittings connected thereto	Yes	No	Yes
62	COSA Amendment 250.118	Types of Equipment Grounding Conductors	Keep Amendment	COSA Amendment. Hard wired equipment grounding conductors required per Chapter 10	Yes	No	Yes
63	COSA Amendment 250.119	Identification of Equipment Grounding Conductors	Keep Amendment	Change. Revision to add a 60 volt dc threshold and delete the reference to 250.112(I) as this section is only applicable to circuits. Amendment expands the use of sizes. Follow requirements of Chapter 10 amendments to this section	No	No	Yes
64	250.122B	Size of Equipment Grounding Conductors. Increased in Size	Adopt as written	New Section. Revision to clarify that adjustment and/or correction factors do not require an increase in the size of the Equipment Grounding Conductor (EGC). New exception to allow the EGC to be sized by a qualified person	Yes	No	Yes
65	250.122C	Size of Equipment Grounding Conductors. Multiple Circuits	Adopt as written	*Change. Revision to add trench to the list of locations.	No	No	Yes
66	Table 250.122	Minimum Size Equipment Grounding Conductors for Grounding Raceway and Equipment	Adopt as written	Change. Revision to sizes for aluminum & copper-clad aluminum for overcurrent devices rated at 5000 & 6000 amps	No	No	Yes
67	250.184A(1), Exc #1	Solidly Grounded Neutral Systems. Neutral Conductor. Insulation Level	Adopt as written	*Change. Revision to only be applicable to multigrounded neutral system	Yes	No	Yes
68	250.184C, Exception	Solidly Grounded Neutral Systems. Neutral Conductor. Insulation Level	Adopt as written	*New Exception. New exception for bonding to a grounding electrode conductor for uninterrupted conductors exceeding 1300 ft.	Yes	No	Yes
69	280 & 285	Surge Arresters, Over 1000 Volts & Surge-Protective Devices, 1000 Volts or Less	Adopt as written	Deletion. Revision deletes both Articles which have been combined into new Article 242			Yes
70	Article 242	Overvoltage Protection	Adopt as written	New Article. Relocation of information in Articles 280 & 285. The requirements are more appropriately located after Article 240 for Overcurrent Protection	Yes	No	Yes
71	300.4G	Protection Against Physical Damage. Fittings	Adopt as written	*New Section. Added language requiring protection of conductors #4 and larger at connectors	Yes	No	Yes
72	COSA Amendment 300.5 (D)(3)	Underground Installations	Remove Amendment	COSA Amendment. Now require to have a warning ribbon in the trench for underground service conductors	Yes	Yes	Yes

Proposed updates to 2020 National Electrical Code (NEC) and Chapter 10 Amendments

No.	Section	Title	Recommendation	Summary of Change	Health/ Life/Safety	Potential Construction Cost Increase	Recommendation Approved
73	310.16 & Table 310.16	Ampacities of Insulated Conductors in Raceway, Cable, or Earth (Directly Buried)	Adopt as written	New Section. New section to add allowable ampacities of insulated conductors in raceway, cable, or earth & to renumber Table. New section to add additional conductor types	No	No	Yes
74	310.18, 19, 20, 21 & Tables	Ampacities	Adopt as written	New Sections. New sections to add allowable ampacities of various conductors raceway or cable and renumber Table to 310.18	No	No	Yes
75	Article 311	Medium Voltage Conductors and Cable	Adopt as written	New Article. New article to cover installation requirements and ampacities for conductors and cables rated 2001 to 35000 volts	Yes	No	Yes
76	312.8B	Switch and Overcurrent Device Enclosures. Power Monitoring or Energy Management Equipment	Adopt as written	New Section. Revision to add Emergency Management Equipment and requirements for conductors used for control & instrumentation circuits of power monitoring & Energy Management Equipment	No	Yes	Yes
77	314.16B(5)	Number of Conductors in Outlet, Device, and Junction Boxes, and Conduit Bodies	Adopt as written	Change. Revision to add 1/4 volume allowance for equip grounding conductors & equip bonding conductors where they exceed 4	Yes	Yes	Yes
78	314.17	Conductors Entering Boxes, Conduit Bodies or Fittings	Adopt as written	Change. Revision to require methods to close openings to be identified for use. Change to conductors entering enclosures	No	No	Yes
79	314.23H(2)	Supports. Pendant Boxes. Conduit	Adopt as written	Change. Revision to require listed swivel hangers for stems longer than 18"	No	Yes	Yes
80	314.25	Covers and Canopies	Adopt as written	Change. Revision to require machine screws to match thread gauge & size that's integral to box	No	Yes	Yes
81	314.27C	Outlet Boxes. Boxes at Ceiling-Suspended (Paddle) Fan Outlets	Adopt as written	Change. Revision to require boxes mounted in ceiling of habitable rooms in dwellings to be provided with a box listed for ceiling fan support or a box supported independently by structural framing for ceiling fans	Yes	Yes	Yes
82	314.28E(1)	Pull and Junction Boxes and Conduit Bodies. Installation	Adopt as written	Change. Revision to delete the requirement suitable for use on line side of svc. equipment to correlate with 230.82	No	No	Yes
83	COSA Amendment 314.19	Boxes Enclosing Flush Devices	Keep Amendment	COSA Amendment. Specifies minimum size for flush box	No	No	Yes
84	COSA Amendment Article 320	Armored Cable: Type AC	Remove Amendment	COSA Amendment. Will need to remove amendment due to House Bill	Yes	No	Yes
85	COSA Amendment 326.10	Integrated Gas Spacer Cable: Type IGS. Uses Permitted	Remove Amendment	COSA Amendment. Will need to remove amendment due to House Bill	Yes	No	Yes
86	COSA Amendment 330.6	Metal-Clad Cable: Type MC. Listings Requirements	Keep Amendment	COSA Amendment. Specifies that all fittings shall be equipped with an anti-shortening bushing	Yes	No	Yes
87	COSA Amendment 330.10	Metal-Clad Cable: Type MC. Uses Permitted	Remove Amendment	COSA Amendment. Will need to remove amendment due to House Bill	Yes	No	Yes
88	COSA Amendment 330.104	Metal-Clad Cable: Type MC. Conductors	Remove Amendment	COSA Amendment. Will need to remove amendment due to House Bill	Yes	No	Yes
89	COSA Amendment 330.112	Metal-Clad Cable: Type MC. Insulation	Keep Amendment	COSA Amendment. Specifies color coding	No	No	Yes

Proposed updates to 2020 National Electrical Code (NEC) and Chapter 10 Amendments

No.	Section	Title	Recommendation	Summary of Change	Health/ Life/Safety	Potential Construction Cost Increase	Recommendation Approved
90	COSA Amendment 330.116	Metal-Clad Cable: Type MC. Sheath	Keep Amendment	COSA Amendment. Specifies that cutting shall be with an approved rotary cutting tool	No	No	Yes
91	330 .130	Metal-Clad Cable: Type MC. Hazardous (Classified) Locations	Adopt as written	*New Section. New requirement for cables in hazardous locations	No	No	Yes
92	334, Title	Nonmetallic-Sheathed Cable: Types NM and NMC.	Adopt as written	Deletion. Deleted Type NMS from Article 334	No	No	Yes
93	334 .10	Nonmetallic-Sheathed Cable: Types NM and NMC. Uses Permitted	Remove Amendment	COSA Amendment. Will need to remove amendment due to House Bill	Yes	No	Yes
94	334 .30	Nonmetallic-Sheathed Cable: Types NM and NMC. Securing and Supporting	Adopt as written	Change. Revision to limit amount of looped cable between last point of securement & enclosure	No	Yes	Yes
95	334.104	Nonmetallic-Sheathed Cable: Types NM and NMC. Conductors	Adopt as written	Change. Revision to types of circuit conductors that can be included in NM & NMC	No	Yes	Yes
96	336.10(7),(8), (9) & Info note 1	Power and Control Tray Cable: Type TC. Uses Permitted	Adopt as written	Revision to use proper mandatory language, to allow for connection of any type of equipment, included "JP" in the language, instead of in the note and clarified the requirement	No	No	Yes
97	336.104	Power and Control Tray Cable: Type TC. Conductors	Adopt as written	Change. Revision to permit #14 as minimum sized copper-clad conductor for control and signaling circuits 50 VOLTS & BELOW	Yes	No	Yes
98	Article 337	Type P Cable	Adopt as written	New Article. New article to cover cable types in hazardous locations	Yes	No	Yes
99	COSA Amendment 338. 10	Service-Entrance Cable: Types SE and USE. Uses Permitted	Remove Amendment	COSA Amendment. Will need to remove amendment due to House Bill	No	No	Yes
100	338.10B(4)	Service-Entrance Cable: Types SE and USE. Installation Methods for Branch Circuits and Feeders	Adopt as written	Change. Revision to cover ampacity adjustments in direct contact with certain materials without spacing, clarifies the conditions under which thermal insulation affects cable ampacity, & update references in info note	Yes	No	Yes
101	338.100A	Service-Entrance Cable: Types SE and USE. Assemblies	Adopt as written	New Section. Allows multiple single conductor cables for direct burial. Proposed Amendment to strike this section	Yes	No	Yes
102	338.100B	Service-Entrance Cable: Types SE and USE. Uninsulated Conductor	Adopt as written	New Section. Permits 1 uninsulated conductor when SE or USE contains multiple conductors	No	No	Yes
103	342.10E	Intermediate Metal Conduit: Type IMC. Uses Permitted. Severe Physical Damage	Adopt as written	New Section. New section that specifies IMC is permitted to be installed where subject to severe physical damage.	No	No	Yes
104	342.14	Intermediate Metal Conduit: Type IMC. Dissimilar Metals	Adopt as written	Change. Revision to clarify permitted fittings & enclosures for use with galvanized or stainless steel IMC	No	No	Yes
105	344.10A(1)	Rigid Metal Conduit: Type RMC. Uses Permitted	Adopt as written	Change. Revision to permit red brass RMC to be installed for the same applications as galvanized & steel RMC	No	No	Yes
106	344.10E	Rigid Metal Conduit: Type RMC. Uses Permitted. Severe Physical Damage	Adopt as written	New Section. New section permitting RMC to be installed where subject to severe physical damage	No	No	Yes
107	344.14	Rigid Metal Conduit: Type RMC. Dissimilar Metals	Adopt as written	Change. Revision to clarify permitted fittings & enclosures for use with galvanized or stainless steel RMC	No	No	Yes
108	350.10(4)	Liquidtight Flexible Metal Conduit: Type LFMC. Uses Permitted	Adopt as written	New Section. New list item to permit higher temperature rated conductors or cables installed in LFMC	No	No	Yes

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No.	Section	Title	Recommendation	Summary of Change	Health/ Life/Safety	Potential Construction Cost Increase	Recommendation Approved
109	350.30A	Liquidtight Flexible Metal Conduit: Type LFMC. Securely Fastened	Adopt as written	Change. Revision to only apply the exceptions for the purpose of fittings being used as means of securing and supporting	No	No	Yes
110	356.10 (1 through 8)	Liquidtight Flexible Nonmetallic Conduit: Type LFNC. Uses Permitted	Adopt as written	New Section. New list item to permit higher temperature rated conductors/cables in LFNC	No	No	Yes
111	358.10E	Electrical Metallic Tubing: Type EMT. Uses Permitted. Severe Physical Damage	Adopt as written	New Section. New section that specifies EMT is permitted to be used where subject to physical damage	No	No	Yes
112	358.14	Electrical Metallic Tubing: Type EMT. Dissimilar Metals	Adopt as written	Change. Revision to clarify permitted fittings and enclosures for use with galvanized or stainless EMT	No	No	Yes
113	362.20B	Electrical Nonmetallic Tubing: Type ENT	Remove Amendment	COSA Amendment. Will need to remove amendment due to House Bill	No	No	Yes
114	366.23B	Nonmetallic Auxiliary Gutters	Adopt as written	Change. Revision to specify the adjustment factors apply up to and including the 20% fill and update reference section	No	No	Yes
115	380.12	Multioutlet Assembly. Uses Not Permitted	Adopt as written	New Section. New list item to prohibit cord & plug connected	No	Yes	Yes
116	392.10	Cable Trays. Uses Permitted	Adopt as written	Change. Revision to clarify the use of single conductors installed in cable trays	No	No	Yes
117	392.30B	Cable Trays. Securing and Supporting	Adopt as written	Change. Revision to add multiconductor cables to B(3) & to add new list item requiring cable ties to be listed and identified	No	No	Yes
118	392.44	Cable Trays. Expansion Splice Plates	Adopt as written	New Section. New section to require expansion splice plates for thermal expansion and contraction	No	Yes	Yes
119	392.46	Cable Trays. Bushed Conduit and Tubing	Adopt as written	Change. Revision to include transitions to a raceway wiring method & 2 new 1st level subdivisions	No	No	Yes
120	392.46A	Cable Trays. Bushed Conduit and Tubing	Adopt as written	New Section. New subdivision to address requirements where conductors or cables enter enclosures through bushed conduit or tubing or through openings associated with flanges	No	No	Yes
121	392.46B	Cable Trays. Bushed Conduit and Tubing	Adopt as written	New Section. New section to address requirements where conductors/cables enter through openings associated with flanges	No	No	Yes
122	393.14A	Low-Voltage Suspended Ceiling Power Distribution Systems. Installation	Adopt as written	Change. Revision to correlate requirement with those for other types of cables	No	No	Yes
123	Article 394	Concealed Knob-and-Tube Wiring	Remove Amendment	COSA Amendment. Will need to remove amendment due to House Bill	No	No	Yes
124	Table 400.4	Flexible Cords and Flexible Cables	Adopt as written	Change. Revision adding new outdoor type thermoset jacketed heater cord, increase elevator vehicle voltage threshold to correlate with product standards	No	No	Yes
125	COSA Amendment 400.10	Flexible Cords and Flexible Cables. Uses Permitted	Remove Amendment	COSA Amendment. Will need to remove amendment due to House Bill	No	No	Yes
126	400.12	Flexible Cords and Flexible Cables. Uses Not Permitted	Adopt as written	Change. Revision to add flexible cords, cables, and power supply cords; relocated info note	No	No	Yes
127	Table 402.3	Fixture Wires	Adopt as written	Change. Revision to add heat-resistant rubber-covered fixture wire-Type FFHH-2	No	No	Yes
128	404.7	Switches. Indicating	Adopt as written	Change. Revision to require the open or closed position indication to be visible when accessing the operating means	No	Yes	Yes
129	404.9, Title & 404.9 A and B, 404.10	General-Use Snap Switches, Dimmers and Control Switches	Adopt as written	Change. Revision to add dimmers and control switches under the section scope and requirement to bond the EGC	No	Yes	Yes

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No.	Section	Title	Recommendation	Summary of Change	Health/ Life/Safety	Potential Construction Cost Increase	Recommendation Approved
130	404.14	Rating and Use of Switches	Adopt as written	Change. Revision to clarify application & use of switches & to require switches to be listed	Yes	Yes	Yes
131	406.5G(2)	Receptacle Orientation	Adopt as written	New Section. New requirement to cover the orientation of the face of a receptacle	Yes	Yes	Yes
132	406.9C	Bathtub and Shower Space	Adopt as written	Change. Revision & new exception to cover the area in the bathrooms where receptacles cannot be installed.	Yes	Yes	Yes
133	406.12	Tamper-Resistant Receptacles	Proposed Amendment	Change. Revision to expand locations where tamper resistant receptacles are required. Propose adding "(9) public areas of assembly occupancies where children might be present" and "(10) all areas accessible to patients"	Yes	Yes	Yes
134	406.13	Single-Pole Separable-Connector Type	Adopt as written	New Section. New requirement to cover the construction, identification, connecting, & disconnecting of single-pole separable connectors	Yes	Yes	Yes
135	408.4A	Circuit Directory or Circuit Identification	Adopt as written	Change. Revision to permit circuit directory or id to be located in an approved location adjacent to panel door	No	Yes	Yes
136	408.6	Short Circuit Current Rating	Adopt as written	New Section. New requirement for documentation & availability of short-circuit calculation for other than 1 or 2 family dwellings	Yes	No	Yes
137	408.8	Reconditioning of Equipment	Adopt as written	New Section. New section to address requirements for reconditioning of equipment	No	Yes	Yes
138	408.18C	Connections	Adopt as written	New Section. New requirement for access for making field connections & location with respect to uninsulated ungrounded buss	No	Yes	Yes
139	COSA Amendment 408.30	General	Keep amendment	COSA Amendment. Keep Chapter 10 amendment with regards to interior branch circuits. Remove "New construction"	No	Yes	Yes
140	408.36	Overcurrent Protection	Adopt as written	Change. Revision to delete exception #1 to correlate and modify exception #2 by clarifying that it does not apply to service equipment to correlate with 230.71	No	No	Yes
141	408.43	Panelboard Orientation	Adopt as written	New Section. New section to prohibit panelboards from being installed in face-up position	No	No	Yes
142	410.7	Reconditioned Equipment	Adopt as written	New Section. New requirement to prohibit reconditioning of equipment covered in Article 410 & proper application of retrofit kits into existing fixtures	No	Yes	Yes
143	410.10D	Bathtub and Shower Areas	Adopt as written	New Section. Specifications to improve clarity of types of luminaires required	No	No	Yes
144	410.22	Outlet Boxes to Be Covered	Adopt as written	Change. Revision to recognize receptacles that do not require a faceplate as a means to cover a box at a lighting outlet	No	No	Yes
145	COSA Amendment 410.36	Means of Support	Keep amendment	COSA Amendment. Amendment for fixture support wires at opposite corners	No	No	Yes
146	410.36A	Luminaires Supported By Outlet Boxes	Adopt as written	Change. Revision to correlate with use of separable attachment fittings permitted by 314.27E & to specify where these fittings are installed at an outlet box, the outlet box is considered to be a lighting outlet	No	No	Yes
147	410.42 and 410.44	Luminaire(s) with Exposed Conductive Parts	Adopt as written	Change. Revision to clarify grounding requirements for luminaires & new exception to correlate with product certification standard for cord & plug connected portable luminaires	No	No	Yes
148	410.62 C(1)(a)	Electric-Discharge and LED Luminaires	Adopt as written	Change. Revision to permit polarized cord cap for cord & plug connected luminaires that comply w/410.42.	No	No	Yes
149	410.69	Identification of Control Conductor Insulation	Adopt as written	New Section. New requirement to prohibit the use of conductors with certain insulation colors to be used for luminaires control circuits that share the same wiring compartment as the branch circuit conductors except where field re-identification of field connected gray control conductors	No	Yes	Yes

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No.	Section	Title	Recommendation	Summary of Change	Health/ Life/Safety	Potential Construction Cost Increase	Recommendation Approved
150	410.116C	Installation in Fire-Resistant Construction	Adopt as written	Change. Revision to relocated requirement covering luminaires installed in fire rated ceilings	No	Yes	Yes
151	410.118	Access to Other Boxes	Adopt as written	New Section. New requirement in Part X covering use of recessed luminaires as access points	No	Yes	Yes
152	410.137C	Wired Luminaire Sections	Adopt as written	Change. Revision to include paired LED-type luminaires & to clarify condition where line voltage conductors supplying ballasts or drivers can be installed in the same raceway as light source supply conductors	No	No	Yes
153	Article 410, Part XVI	Special Provisions for Horticultural Lighting Equipment	Adopt as written	New Sections. New part XVI (410.170 thru 410.188) containing installation requirements for horticultural lighting equipment	No	No	Yes
154	411.4	Listing Required	Adopt as written	Change. Revision to add requirement prohibiting reconditioning of systems & equipment covered by Article 411	No	No	Yes
155	422.5A & new info note	Ground-Fault Circuit-Interrupter (GFCI) Protection for Personnel	Adopt as written	Change. Revision to expand the types of appliances and conditions of use under which GFCI protection is required, to specify the voltage to ground rating of such appliances, to specify Class A GFCI protection, & to correlate with 210.8 for branch circuit GFCI requirements	No	No	Yes
156	422.10	Branch Circuits	Adopt as written	Change. Revision to clarify requirement applicability of the requirement to multiple elements of the branch circuit	No	No	Yes
157	422.13	Storage-Type Water Heaters	Adopt as written	Change. Revision to clarify that only the branch circuit conductors and OCD are required to be sized based on 125% of heater load	No	No	Yes
158	422.22	Utilizing Separable Attachment Fittings	Adopt as written	New Section. New requirement for use of separable attachment fittings	No	No	Yes
159	424.4	Branch Circuits	Adopt as written	Change. Revision to clarify application of requirement and that conductor sizing requirement applies only to branch circuit conductors	No	No	Yes
160	424.19	Disconnecting Means	Adopt as written	Change. Revision to correlate with general requirement for lockable disconnecting means specified by 110.25	No	No	Yes
161	424.19B(1)	Heating Equipment Without Supplementary Overcurrent Protection	Adopt as written	Change. Revision to correlate with lockable disconnecting means specified by 110.25	No	No	Yes
162	424.20A	Thermostatically Controlled Switching Devices	Adopt as written	Change. Revision to clarify required location of device serving as controller and disconnecting means	No	No	Yes
163	424.22A	Overcurrent Protection. Branch-Circuit Devices	Adopt as written	Change. Revision to clarify overcurrent protection for motors	No	No	Yes
164	424.22C	Overcurrent Protection. Overcurrent Protective Devices	Adopt as written	Change. Revision to where supplementary OCD can be located and to permit a single disconnecting to disconnect multiple cartridge fuses protecting subdivided heating equipment loads	No	No	Yes
165	425.22B	Resistance Elements	Adopt as written	Change. Revision to allow larger subdivided loads & higher rated OCD protection under specific application conditions	No	No	Yes
166	425.22D	Supplying Supplementary Overcurrent Protective Devices	Adopt as written	Change. Revision to section title to align with type of OCD that is covered by requirement.	No	No	Yes
167	425.82	Branch-Circuit Requirements	Adopt as written	Change. Revision to exempt conductors forming an integral part of an approved boiler from the requirement on sizing branch circuit conductors	No	No	Yes

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No.	Section	Title	Recommendation	Summary of Change	Health/ Life/Safety	Potential Construction Cost Increase	Recommendation Approved
168	426.22(A-E)	Installation of Nonheating Leads for Embedded Equipment	Adopt as written	Change. Revision to include concrete and require that non-heating leads be protected by a grounded sheath, braid, or other grounded covering, or be installed in a metal raceway at other than where they are spliced to the elements heating. Relocation of requirements from 426.22A covering the minimum & maximum distances between the end of the grounded metal covering or metal conduit & the point where the nonheating lead is connected to the heating element. Revision to include concrete	No	No	Yes
169	426.51A &D	Controllers	Adopt as written	Change. Revision to correlate with general requirement for lockable disconnecting means specified by 110.25	No	No	Yes
170	430.32A(2) & (B)(2)	Continuous Duty Motors	Adopt as written	Change. Adding "electronically protected" as a method for providing overload protection.	No	No	Yes
171	430.122B	Output Conductors	Adopt as written	New Section. New section & exception addressing ampacity of output conductors from power conversion equipment that is listed & marked as "Suitable for use for Output Motor Conductor Protection"	No	No	Yes
172	445.6	Generators. Listing	Adopt as written	New Section. New requirement, exception, & info. Note to cover listing or field evaluation of stationary generators.	Yes	Yes	Yes
173	445.18C	Remote Emergency Shutdown	Adopt as written	New Section. Specifications to cover remote emergency shutdown for generators over 15 kw	Yes	Yes	Yes
174	445.18D	Emergency Shutdown in One-and Two-Family Dwellings	Adopt as written	Potential Amendment. Visit interpretation of what is considered an emergency stop switch for 1&2 family dwelling generators.	Yes	Yes	Yes
175	480.7(B-G)	Storage Batteries. DC Disconnect Methods. Emergency Disconnect	Adopt as written	New Sections. New requirement for battery system disconnecting means on the exterior of 1&2 family dwellings and for disconnection of series battery circuits over 240 volts nominal & methods for same. Revision to require labels for arc flash; exempting 1&2 family dwellings from Items 2,3,&4	Yes	Yes	Yes
176	480.12; 480.13	Battery Interconnections; Ground-Fault Detection	Adopt as written	New Sections. New section clarifying battery interconnection methods and requiring ground fault detection for battery circuits exceeding 100 volts between conductors or to ground	No	Yes	Yes
177	490.21A(5)	Equipment Over 1000 Volts, Nominal. Circuit-Interrupting Devices	Adopt as written	New Section. New requirement for listing of retrofit trip units to be listed for specific circuit breaker.	No	Yes	Yes
178	490.49	Reconditioned Switchgear	Adopt as written	New Section. New section listing requirements for reconditioned switchgear	Yes	Yes	Yes
179	500.7, (K)(1)-(4)	Protection techniques-Combustible gas detection systems	Adopt as written	Change. Revision to include new protection techniques, provide more detail on combustible gas detection systems; new information on areas with inadequate ventilation, for interior of buildings or enclosed spaces, & interior of control panels	Yes	Yes	Yes
180	500.7(L-O) 500.8G	Equipment involving Optical radiation	Adopt as written	New Sections. Protection techniques for Optical radiation (lasers & LED) and new requirement covering optical radiation equipment	Yes	Yes	Yes
181	501.105 B(6), Exception 2	Class I Locations. Meters, Instruments, and Relays. Connections	Adopt as written	Change. Revision to introduce additional product certification, limited alternative to using listed devices in industrial establishments.	Yes	No	Yes
182	502.150B(5)	Class II Locations. Signaling, Alarm, ect. Connections	Adopt as written	New Section. Adds new condition for use of cord & plug connections with instrumentation equipment in Div 2 locations	Yes	No	Yes
183	505.8(I)(1)	Protection Techniques	Adopt as written	New Section. Revisions and added sections to provide more detail on installation of combustible gas detection systems	Yes	No	Yes
184	505.9(G)	Equipment involving Optical radiation	Adopt as written	New Section. Addressing risk of ignition from sources of optical radiation	Yes	Yes	Yes

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No.	Section	Title	Recommendation	Summary of Change	Health/ Life/Safety	Potential Construction Cost Increase	Recommendation Approved
185	505.15B-C	Zone 0, 1, and 2 Locations. Wiring Methods	Adopt as written	Change. For industrial installations with restricted public access, Revision to remove size restriction on TC-ER-HL cable & add reference to Article 336; new requirement to cover use of Type P cable	Yes	No	Yes
186	506.8(J)-(N)	Protection techniques	Adopt as written	New section. New methods of protection for Zones 21, 22, & 23.	Yes	No	Yes
187	506.9(G)	Equipment involving Optical radiation	Adopt as written	New Section. Addressing risk of ignition from sources of optical radiation	Yes	No	Yes
188	513.12	Aircraft Hangars. Ground-Fault Circuit-Interrupter Protection for Personnel	Discuss	Change. Revision to reference 210.8B for GFCI requirements. For discussion-does not include areas where electric hand tools, diagnostic equipment, or portable lighting. Note: Change to 511 still can rely on "garages" listing in 210.8B(8)// amend Section 210.8 (B)to add aircraft hanger	Yes	Yes	Yes
189	514.11	Motor Fuel Dispensing Facilities. Circuit Disconnects	Adopt as written	Change. Revision to restore requirement to disconnect neutral conductor & to maintain connection of equipment grounding conductors	No	Yes	Yes
190	517.10(B)(3)d.	Health Care Facilities. Wiring and Protection	Proposed Amendment	Discussion: Optometry often involves patient contact with electrically connected equipment. For redundant grounding purposes. Proposed to strike 3(d) "Optometry"	Yes	Yes	Yes
191	517.26	Essential Electrical System. Application of Other Articles	Adopt as written	Change. New list of requirements exempt from Article 700 requirements for life safety branch	Yes	No	Yes
192	517.30B(3)	Type I Essential Electrical Systems. Types of Power Sources	Adopt as written	New Section. New subdivision permitting battery systems for essential electrical system	Yes	No	Yes
193	517.31C(1)	Requirements for the Essential Electrical Systems	Adopt as written	Change. Revisions to clarify separation of circuits used for critical and life safety branches, adds permitted wiring methods, adds identification requirements	Yes	No	Yes
194	520.68A(2)	Conductors for Portables. Protected Application	Adopt as written	New Section. Revised to permit listed hard usage cord or cable for supplying portable state equipment when meeting certain criteria	No	No	Yes
195	525.20(B)	Flexible Cords and Single Conductor Cables	Keep amendment	COSA Amendment. Identifies permitted sizes for flexible cords	No	No	Yes
196	545.1 & 545, Part II	Manufactured Buildings and Relocatable Structures	Adopt as written	Change and Addition. Added relocatable structures to Article; added requirements for relocatable structures	Yes	Yes	Yes
197	547.5G	Agricultural Buildings. Wiring Methods. Receptacles	Adopt as written	Change. Limiting GFCI protection for receptacles to 15/20 amp, 125 volt only instead of the requirements of 210.8B	Yes	No	Yes
198	590.8	Overcurrent protective devices	Adopt as written	New Section. Addressing reused OCDs in temporary installations; requirements for current limiting service OCDs.	Yes	No	Yes
199	600.6A(4)	Electric Signs and Outline Lighting. Branch Circuits. Disconnects	Adopt as written	New Section. New requirement for location of remote sign disconnecting means	Yes	Yes	Yes
200	600.30(4)	Field-Installed Skeleton Tubing, Outline Lighting and Secondary Wiring	Adopt as written	New item. Added field installed retrofit kits	No	Yes	Yes
201	600.35	Retrofit Kits	Adopt as written	New Section. Complete new section on retrofit kits	Yes	Yes	Yes
202	604.10	Manufactured Wiring Systems. Uses Permitted	Keep Amendment	COSA Amendment. Modification for concealed connections to manufactured wall systems only	No	No	Yes
203	604.100(A)(1)	Manufactured Wiring Systems. Construction	Remove Amendment	COSA Amendment. Restriction to MC cable only (no AC cable)	Yes	No	Yes
204	620.22A	Elevators, etc. Branch Circuits for Car Lighting, etc	Adopt as written	Change. Revised loads on elevator lighting circuit; & access to OCDs where no machinery room is present	No	No	Yes
205	Article 625 Title & Scope	Electric Vehicle Power Transfer System	Adopt as written	Change. Identifying <i>Electric Vehicle Power Transfer Systems</i> & indicating that Article now defines charging, power export, or bidirectional flow of current.	Yes	Yes	Yes

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No.	Section	Title	Recommendation	Summary of Change	Health/ Life/Safety	Potential Construction Cost Increase	Recommendation Approved
206	625.60	AC Receptacle outlets for EVPE	Adopt as written	New Section. Requirements for AC receptacles used for electrical vehicle power export	No	No	Yes
207	645.5E(2)(4) & (5) & 645.5E(3)(1)&(2)	Supply Circuits and Interconnecting Cables. Raised Floors	Adopt as written	Change. Revisions for newly permitted cable types under certain conditions (fire suppression system)	No	No	Yes
208	645.27	Selective Coordination	Adopt as written	Change. Revision to specify selective coordination by PE (or other qualified person) for critical operations ITE	No	Yes	Yes
209	680.11A, B, C	Swimming Pools, Fountains, and Similar Installations. Underground Wiring	Adopt as written	New Sections. Revision specifying wiring methods within specified proximity of the inside walls of the pool	Yes	Yes	Yes
210	680.21C & D	GFCI Protection; Pool Pump Motor Replacement	Adopt as written	Change. Revision to expand GFCI protection of pool pump motors & replacement motors	Yes	Yes	Yes
211	680.22A(5)	Pool equipment room receptacle	Adopt as written	New section. Requirement for receptacle in pool equipment room & circuiting for other receptacles	Yes	Yes	Yes
212	680.23A	Underwater Luminaires	Keep Amendment	COSA Amendment. Keep reduced lighting voltage	Yes	No	Yes
213	680.35 & 680.45	Immersion Pool requirements	Adopt as written	New Sections: Addressing requirements for portable & permanent immersion pools (ceremonial pools)	Yes	Yes	Yes
214	680.59	GFCI Protection for Permanently Installed Nonsubmersible Pumps	Adopt as written	New Section. New requirement for GFCI protection of non-submersible pumps	Yes	Yes	Yes
215	690.4F	Electronic Power Converters Mounted in Not Readily Accessible Location	Adopt as written	New Section. New requirement permitting power conversion equipment to be installed in locations not readily accessible	No	No	Yes
216	690.7	Circuit Requirements. Maximum Voltage	Adopt as written	Change. Revision clarifying determination of maximum PV system voltage	No	No	Yes
217	690.9	Overcurrent Protection	Adopt as written	New Sections. Multiple new sections regarding overcurrent protection	Yes	Yes	Yes
218	690.12	Rapid Shutdown of PV Systems on Buildings	Adopt as written	Changes. Multiple modifications for rapid shutdowns, controlled conductors; clarifying inside array boundary	Yes	Yes	Yes
219	690, Part III	PV Systems. Disconnecting Means	Adopt as written	Changes. Multiple revisions concerning disconnecting means, including restricting locations for unqualified personnel, type of disconnects, isolation, rating of disconnecting means	Yes	Yes	Yes
220	690, Part IV	PV Systems. Wiring Methods and Materials	Adopt as written	Changes. Multiple revisions for wiring methods, identification, types,	Yes	Yes	Yes
221	690, Part V	PV Systems. Grounding and Bonding	Adopt as written	Changes. Multiple revisions for grounding, bonding, ground fault detection, grounding electrode system/// CPS to provide feedback	Yes	Yes	Revisit with full Board
222	690, Part VI	PV Systems. Marking	Adopt as written	Changes. Multiple revisions for marking and identification	Yes	Yes	Yes
223	695.3C(3)	Power Source for Electric Motor-Driven Fire Pumps. Selective Coordination	Adopt as written	Change. New requirement for PE or qualified personnel for design of selective coordination	No	Yes	Yes
224	700.10D(1)	Occupancy types requiring additional protection	Adopt as written	Change. Medical facilities with persons incapable of self-preservation removed.	Yes	No	Yes
225	700.12H	DC Microgrid Systems	Adopt as written	New Section. New requirement for DC microgrids as emergency power source	No	No	Yes
226	702.5(A)-(E)	Transfer switches for optional standby	Adopt as written	New Section. Additional requirements for transfer switches for optional standby systems	Yes	No	Yes
227	702.7	Optional Standby Systems. Signs	Adopt as written	Changes. Required signage for commercial, industrial, and 1&2 family dwellings. For 1 & 2 family dwellings, location of each permanently installed standby power source shall be indicated	Yes	Yes	Yes

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No.	Section	Title	Recommendation	Summary of Change	Health/ Life/Safety	Potential Construction Cost Increase	Recommendation Approved
228	705.10, 11, 12, & 13	Interconnected Electric Power Production Sources	Adopt as written	New Sections. New requirement for identification of power sources; for supply side source connection, for load side connections and for power control systems	Yes	Yes	Yes
229	705.20, 25, 28	Disconnecting Means, Wiring Methods, Circuit Sizing and Current	Adopt as written	Changes. New requirements for disconnecting means, wiring methods and circuit sizing and conductor ampacity	Yes	Yes	Yes
230	705.45	Unbalanced interconnections	Adopt as written	New Sections. Specifications for unbalanced interconnections for single phase & 3-phase interconnected power production systems.	Yes	No	Yes
231	706.4	ESS. System Requirements	Adopt as written	Change. Required marking of ESS with nameplate	Yes	No	Yes
232	706, Part II	ESS. Disconnecting Means	Adopt as written	New Section. Requirements for energy storage system disconnecting means	Yes	Yes	Yes
233	706.20C	Spaces About ESS Components	Adopt as written	New Section. Required spaces around ESS to comply with 110.26	Yes	No	Yes
234	710.10	Stand-Alone Systems. Identification of Power Sources	Adopt as written	New Section. New requirement for identification of power sources;	Yes	No	Yes
235	712.10	Direct Current Microgrids. Directory	Adopt as written	New Section. New requirements for source directory & building directory for buildings supplied by microgrid	No	No	Yes
236	725.48B(1)	Class I Circuits with Power-Supply Circuits.	Adopt as written	Change. Revision to permit Class 1 circuits to be installed with other conductors	No	No	Yes
237	725.121C	Class 2 and Class 3 Circuits. Marking	Adopt as written	Change. Revision to labeling requirement	No	No	Yes
238	Article 800, Part III	Grounding Methods.	Adopt as written	New Sections. All new requirements for grounding methods of communication systems	Yes	No	Yes
239	Article 800, Part IV	Installation Methods Within Buildings	Adopt as written	New Sections. All new requirements for installation methods	Yes	No	Yes
240	COSA Amendment E3407 (200.6, 200.7, 210.5, 215.12, 250.119)	Conductor and Terminal Identification	Proposed Amendment	COSA Amendment. Proposed to duplicate NEC Amendments in IRC Electrical Code Chapters	Yes	No	No
241	COSA Amendment E3601.2 (230.2F)	Number of Services	Proposed Amendment	COSA Amendment. Proposed to duplicate NEC Amendments in IRC Electrical Code Chapters	Yes	No	No
242	COSA Amendment E3608 (250.52)	Grounding Electrode System	Proposed Amendment	COSA Amendment. Proposed to duplicate NEC Amendments in IRC Electrical Code Chapters	Yes	No	No
243	COSA Amendment E3702.1 (220.14)	Branch Circuit Voltage Limitations	Proposed Amendment	COSA Amendment. Proposed to duplicate NEC Amendments in IRC Electrical Code Chapters	Yes	No	No
244	COSA Amendment E3703.2 (210.52B)	Kitchen and Dining Area Receptacles	Proposed Amendment	COSA Amendment. Proposed to duplicate NEC Amendments in IRC Electrical Code Chapters	Yes	No	No
245	COSA Amendment E3706 (408.30)	Panelboards	Proposed Amendment	COSA Amendment. Proposed to duplicate NEC Amendments in IRC Electrical Code Chapters	Yes	No	No
246	COSA Amendment E3905.5 (314.19)	Boxes enclosing flush-mounted devices or flush equipment	Proposed Amendment	COSA Amendment. Proposed to duplicate NEC Amendments in IRC Electrical Code Chapters	Yes	No	No

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No.	Section	Title	Recommendation	Summary of Change	Health/ Life/Safety	Potential Construction Cost Increase	Recommendation Approved
247	COSA Amendment E3908.9 (250.118)	Types of Equipment Grounding Conductors	Proposed Amendment	COSA Amendment. Proposed to duplicate NEC Amendments in IRC Electrical Code Chapters	Yes	No	No
248	COSA Amendment E4003.12 (210.70)	Luminaires in Clothes-Closet Storage Areas	Proposed Amendment	COSA Amendment. Proposed to duplicate NEC Amendments in IRC Electrical Code Chapters	Yes	No	No
249	E3606.5	Surge Protection	Adopt as written	New Section. This item was tabled during NEC discussion and is repeated in the IRC	No	Yes	No

Proposed 2021 International Building Code (IBC) and Chapter 10 Amendments

No.	Section (pg #)	Title	Recommendation	Summary of Change	Life/Safety	Potential Construction Cost Increase	Recommendation Approved
1	COSA Amendment 10-8 (b)(1)	Construction Documents	Keep Amendment and update language	COSA Amendment. Update to include e-docs	No	No	Yes
2	110.3.5 (1-8)	Types IV-A, IV-B and IV-C Connection Protection Inspection	Update Ch. 10 to include this section as 10-11 (8)	New Section. New requirements for Type IV inspection requirements	No	Yes	Yes
3	116.5 (1-11)	Restoration or abatement	Update Ch. 10 to include updates to 10-17 (e)	Change. Added provisions that state when a structure or equipment is determined to be unsafe by the Building Official, the owner or operator shall abate or correct the unsafe conditions by repair, rehabilitation, demolition or other corrective method.	Yes	No	Yes
4	COSA Amendment 202	Ambulatory Care Definition	Keep Amendment	COSA Amendment. Adds dialysis under Ambulatory Care Facility	Yes	No	Yes
5	202 Definition (2-2)	Atrium	Adopt as written	Change. Modification to Atrium definition to state a vertical space that is closed at the top and connecting 2 or more stories for Group I-1/I-3 occupancies and 3 or more stories in all other occupancies. Definition previously stated "an opening connecting two or more stories"	No	No	Yes
6	202 Definition (2-24)	Puzzle Room	Adopt as written	New Definition. Defines Puzzle Room as a type of special amusement area in which occupants are encouraged to solve a challenge to escape from a room or series of rooms	No	No	Yes
7	404.10 (4-9)	Atrium	Adopt as written	Changes and New Section. New requirements for when an atrium contains an interior exit stairway. The Atrium is considered the enclosure for the stairs	No	No	Yes
8	406.6.4 (4-14)	Mechanical-access Enclosed Parking Garages	Adopt as written	New Section. New requirements for separation, smoke removal, fire control equipment room and fire department access doors for Mechanical-access enclosed parking garages (an enclosed parking garage that employs parking machines, lifts, elevators or other mechanical devices for vehicle moving from and to street level and in which public occupancy in the garage is prohibited...) / Request SAFD input	Yes	Yes	Revisit next meeting
9	407.3.1.1 (4-16)	Door Construction	Adopt as written	New Section. For Group I-2 occupancies, doors in corridors not required to have a fire protection rating shall comply with these provisions	No	No	Yes
10	407.4.4.3 (4-17)	Access to Corridor	Adopt as written	Change. For Group I-2 care suites, every care suite shall have a door leading directly to an exit access corridor or horizontal exit	Yes	Yes	Yes
11	407.6.1 (4-18)	Activation of Automatic-Closing Doors	Adopt as written	New Section. Automatic-closing doors on hold-open devices shall close upon activation of the alarm system, sprinkler system or both and shall release all doors within the same smoke compartment. Previously only closed on loss of power or detection of smoke	Yes	Yes	Yes
12	411 (4-23)	Special Amusement Areas	Adopt as written	Change and New Section. Changed "buildings" to "areas". Requires buildings with special amusement areas to have an automatic smoke detection system. Was previously alarm system. Adds a section for Puzzle Room Exiting that references compliance with Ch. 10, approved by the Building Official, or have exits that are open and readily available upon activation of the alarm, sprinkler and a manual control at at constantly attended location	Yes	Yes	Yes
13	415.6.1 - 415.6.3 (4-33)	Fire Separation Distance	Adopt as written	New Sections. For Groups H-2 and H-3, allows certain uses and sizes to not be located on the outer perimeter of the building. Allows Spray Paint Booths that comply with IFC to not be located on the perimeter wall	No	No	Yes
14	420.9 (4-43)	Domestic Cooking Appliances	Adopt as written	New Section. For I-1 occupancies, cooking appliances used in domestic cooking facilities shall comply with this section	No	No	Yes
15	422 (4-45)	Domestic Cooking Appliances	Adopt as written	New Section. For Ambulatory Care Facilities, cooking appliances used in domestic cooking facilities shall comply with this section.	No	No	Yes

Proposed 2021 International Building Code (IBC) and Chapter 10 Amendments

No.	Section (pg #)	Title	Recommendation	Summary of Change	Life/Safety	Potential Construction Cost Increase	Recommendation Approved
16	424 (4-46)	Play Structures	Adopt as written	New Section. Requires interior finishes for structures exceeding 600 sf or 10 feet in height to have a flame spread index not greater than Table 803.13 and designed per Ch. 16	No	Yes	Yes
17	COSA Amendment 502.1 (5-1)	Address Identification	Update Amendment	COSA Amendment. Identifies requirements for address identification numbers for buildings and suites. Duplicate IFC Amendment	No	No	Yes
18	503.1.4 (5-1)	Occupied Roofs	Discuss	Potential Amendment. Roof canopies shall not be more than 1/3 of the roof area in combination with the enclosed rooftop structures of the occupied roof area. Canopies shall comply with Section 3105. Enclosed rooftop structures shall not contain habitable spaces. (Egress is covered 1006.3). "Rooftop canopies complying with Section 3105 and enclosed rooftop structures shall not exceed 1/3 of the occupied rooftop area. Enclosed rooftop structures shall not contain habitable spaces."	Yes	No	Yes
19	COSA Amendment 503.1.5 (5-2)	Outdoor Covered Areas for Group A2 Occupancies	Modify Amendment	COSA Amendment. Added provisions for outdoor covered patios that are not calculated in the building area or require separation in it meets all of the 6 conditions. Update #4 to state "Outdoor covered areas shall not be built within 10 feet of the line used to determine Fire Separation Distance	No	No	Yes
20	506.3.2 - 506.3.3 (5-7)	Frontage Increase Factor	Adopt as written	Change. Frontage Increase Factor table.	No	No	Yes
21	506.3.3.1 (5-9)	Unlimited Area Buildings	Adopt as written	New Section. Table for frontage increase for 507 buildings (Unlimited Area Buildings) when they don't meet the 60 foot public way or yard requirement. Replaces exception to 506.3.2 in 2018. Frontage increase factor (I_f) is utilized in Equation 5-1 Allowable area determination	No	No	Yes
22	510.2 (5-15)	Horizontal Building separation allowance	Adopt as written	New Section. Allows interior exit stairs within the IA building are permitted to be combustibile when the conditions are met. Previously, stairways had to match TOC	No	No	Yes
23	510.5 (5-16)	Group R-1 /R-2 Type IIIA construction	Adopt as written	Change. Allows the allowable height to be increased by 10 feet and number of stories to be increased by one	No	Yes	Yes
24	601 (6-1)	Fire Resistance Rating Table	Adopt as written	New Items. New types of construction for Type IV	No	No	Yes
25	602.4 (6-2)	Type IV	Adopt as written	New Sections. Details of Type IV Construction	No	No	Yes
26	COSA Amendment 703.4 (7-2)	Automatic Sprinklers	Remove Amendment	COSA Amendment. This section has been deleted from the IBC	No	No	Yes
27	703.6, 703.7 (7-2)	Determination of Noncombustible Protection Time Contribution, Sealing of Adjacent Mass Timber Elements	Adopt as written	New Section. Identifies testing methods for mass timber building elements and where sealing or adhesives shall be provided	No	Yes	Yes
28	704.6.1 (7-3)	Secondary Attachments to Structural Members	Adopt as written	New Sections. States that when primary and secondary structural steel members require fire protection, the secondary steel attachments to those members shall have the same fire-resistive material and thickness and that protection shall extend at least 12 inches	No	Yes	Yes
29	705.2.3 (7-5)	Projection Protection	Adopt as written	New Section. Added option for non-combustible, heavy timber or fire rated projections to extend within 5 feet of the line used to determine fire separation	No	No	Yes
30	705.5 (7-5)	Fire-Resistance Rating Requirements for Exterior Walls Based on Fire Separation Distance	Adopt as written	Change and New Items. Table moved from Ch. 6 and added IV construction types	No	No	Yes

Proposed 2021 International Building Code (IBC) and Chapter 10 Amendments

No.	Section (pg #)	Title	Recommendation	Summary of Change	Life/Safety	Potential Construction Cost Increase	Recommendation Approved
31	COSA Amendment 706.1.1 (7-9)	Party Walls	Keep Amendment	COSA Amendment. Removes the exception that does not require fire walls to be installed along lot lines for a building that crosses lot lines	No	No	Yes
32	707.4/716 (7-12)	Exterior Walls	Adopt as written	New Exception. Exterior walls shall comply with 705 except for exterior walls required to be rated per IFC 1207 for enclosure of energy storage systems	No	Yes	Yes
33	707.5 (7-13)	Continuity	Adopt as written	New Exception. Added exception for exit passageways. Allows a rated ceiling	No	No	Yes
34	709.4.1 (7-15)	Smoke-barrier Assemblies Separating Smoke Compartments	Adopt as written	Change. Added more options to go to smoke barrier instead of exterior wall. Added horizontal assembly as well.	No	No	Yes
35	Table 716.1(2) (7-25)	Opening Fire Protection Assemblies, Ratings and Markings	Adopt as written	Change. Added double fire walls in table	Yes	Yes	Yes
36	716.2.5.4.1 (7-29)	Energy Storage System Separation	Adopt as written	New Section. Rated glazing is not permitted in fire door frames in fire barriers required by IFC 1207 that enclose energy storage systems	Yes	Yes	Yes
37	716.4 (7-31)	Fire Protective Curtain Assembly	Adopt as written	New Sections. Labeling and performance requirements for fabric fire-protective curtain assemblies	No	No	Yes
38	717.5.2 (7-34)	Fire Barriers	Adopt as written	Change. Allows nonmetal flexible air connectors at the duct connection to the air handling unit within the mechanical room and from an overhead metal duct to a ceiling diffuser within the same room	No	No	Yes
39	806.9 (8-6)	Combustible Lockers	Adopt as written	New Section. Specifies that when lockers are combustible, they are to be considered an interior finish in accordance with IBC 803. Includes an exception	No	No	Yes
40	903.3.1.2 (9-7)	NFPA 13R Sprinkler System	Adopt as written	Change. Identifies conditions that have to be met in order to use 13R in Group R occupancies. No longer allows number of stories to be measured from horizontal separation. Now measured from grade plane	Yes	Yes	Revisit during IFC meetings
41	903.3.1.2.2 (9-7)	Corridors and Balconies in the Means of Egress	Adopt as written	Change. Sprinklers must now be extended into corridors and balconies used in the means of egress, even though the location may be exempt based on NFPA 13R	Yes	Yes	Revisit during IFC meetings
42	905, 906, 907 and Amendments	Standpipes, Portable Fire Extinguishers, Fire Alarm, etc	Review with SAFD	FYI			Revisit during IFC meetings
43	907.2.10 (9-20)	Group S	Adopt as written	Addition. Added manual fire alarm requirements for Group S public and self storage occupancies 3 stories and greater.	Yes	Yes	Revisit during IFC meetings
44	911.1 (9-37)	Fire Command Center	Adopt as written	Change. Requires that F-1 and S-1 occupancies over 500,000 sf have a fire command center	Yes	Yes	Revisit during IFC meetings
45	COSA Amendment 1003.8 (10-2)	Special Provisions	Keep Amendment	COSA Amendment. Specifies that kindergarten or daycare rooms in E occupancies shall be on the first story per NFPA 101	Yes	No	Yes
46	COSA Amendment 1004.5 (10-3)	Areas without fixed seating	Keep Amendment	COSA Amendment. Requires occupant loads be rounded up to the next whole number	No	No	Yes
47	1006.2.2.2 (10-5)	Refrigeration Machinery Room	Adopt as written	Change. Added requirement for panic hardware in refrigeration machinery rooms greater than 1,000 sf	Yes	Yes	Yes
48	1008.2.1 (10-9)	Illumination Level Under Normal Power	Adopt as written	Change. Added requirement for exits to have at least 10 footcandles when the stairway is in use. Previously required not less than 1 footcandle	Yes	Yes	Yes
49	COSA Amendment 1008.3.6 (10-10)	Illumination in Group E Occupancies	Keep Amendment	COSA Amendment. Requires Group E occupancies to have emergency lighting in windowless areas	Yes	No	Yes

Proposed 2021 Interntional Building Code (IBC) and Chapter 10 Amendments

No.	Section (pg #)	Title	Recommendation	Summary of Change	Life/Safety	Potential Construction Cost Increase	Recommendation Approved
50	COSA Amendment 1009 (10-10)	Accessible Means of Egress	Keep Amendment	COSA Amendment. Requires compliance with accessibility standards adopted by the State and projects to be submitted to TDLR for review	No	No	Yes
51	1010.1.3 (10-13)	Forces to Unlatch and Open Doors	Adopt as written	Change. Sections rewritten and rotational force to unlatch not to exceed 28 in-pounds to coordinate requirements of A117.1	Yes	No	Yes
52	1010.2.9.2 (10-17)	Rooms with Electrical Equipment	Adopt as written	Change. Requires electrical rooms to have panic hardware when there is equipment rated at 800 amps or more. Duplicates requirements from NEC	Yes	No	Yes
53	1016.2 (10-31)	Egress Through Intervening Spaces	Adopt as written	Change. Egress through an enclosed elevator lobby area is now permitted for spaces requiring only one means of egress	No	No	Yes
54	1024.8 (10-38)	Exit Passageway Exterior Walls	Adopt as written	New Section. If exterior wall is part of the exit passageway, the building exterior walls close to the passageway shall be rated. Mimics requirements for exterior exit stairways and ramps	Yes	Yes	Yes
55	1025.1 (10-39)	Luminous Egress Path Markings	Proposed Amendment	Proposed Amendment. Add Exception #2 "Luminous egress path markings shall not be required where integral battery back up lighting is installed within an interior exit stairway and is capable of indicating a failure and relaying that notification to a supervised system. Duration shall be in accordance with 1008.3.4." Section 2702.1.5 addresses the 2 hour duration or 1008.3.4 addresses 90 minutes	Yes	No	Yes
56	COSA Amendment 1027.7 (10-42)	Exterior Fire Escape	Keep Amendment	COSA Amendment. Allows existing fire escapes to be utilized for emergency use	Yes	No	Yes
57	1030.6.3.1 (10-45)	Automatic Sprinklers	Adopt as written	New Section. Mimics requirements for Smoke-protected Assembly Seating and now requires sprinklers for Open Air Assembly Seating spaces	Yes	Yes	Yes
58	1030.16 (10-49)	Handrails	Adopt as written	Change. Addresses "Social Stairs" with seating and handrail requirements	Yes	Yes	Yes
59	COSA Amendment 1210.4 (12-7)	Baby Changing Station	Discuss	COSA Amendment. Add Baby Changing Station language from 10-32 here. Don't require for occupancies where occupants have to be 18 and over to enter// add language to specify exclusively 18 and over. Don't make a change.	No	No	Yes
60	1207 (12-5)	Classroom Acoustics	Amend to remove	New Sections. Requires acoustical finishes for classroom having a volume of 20,000 cu.ft. or less. Requirements align with A117 for Accessibility	No	Yes	Yes
61	1208.4 (12-6)	Efficiency Dwelling Units	Adopt as written	Change. Decreases minimum area of living space from 220 to 190 sqft.	No	No	Yes
62	1210.3 (12-6)	Privacy	Adopt as written	Change. Adds visual screening parameters at water closets and urinals	No	Yes	Yes
63	1403 (14-2)	Materials	Adopt as written	Change. Added options for materials as water resistive barriers. Checked at inspection phase.	No	No	Yes
64	1404.3 (14-3)	Vapor Retarders	Adopt as written	Change. Added options and clarifications for the different climate zones	No	No	Yes
65	COSA Amendment 1502.4.1 (15-1)	Zero lot line development	Keep amendment	COSA Amendment. Specifies adequate gutters shall be provided to direct runoff water away from adjacent property for zero lot line developments	No	No	Yes
66	COSA Amendment 1502.4.2 (15-1)	Projections	Keep amendment	COSA Amendments. Specifies that any group R or group U occupancy with roof edges less than three feet to any property line shall be provided with gutters to direct roof water away from adjacent property	No	No	Yes
67	1504.6.1 15-3)	Gutter securement for low sloped roofs	Adopt as written	New section. Requires gutters for low-slope roofs to be designed to resist wind loads and tested.	No	Yes	Yes
68	1504.9 and Table 1504.9 (15-3)	Wind Resistance / Parapet height of aggregate surfaced roofs	Adopt as written	Change. Table 1504.8 was deleted and replaced. New table provides new parameters	No	Yes	Yes
69	1509 and Table 1509.2 (15-16)	Roof coatings	Adopt as written	New Section. New section and table outlining materials and standards	No	Yes	Yes

Proposed 2021 International Building Code (IBC) and Chapter 10 Amendments

No.	Section (pg #)	Title	Recommendation	Summary of Change	Life/Safety	Potential Construction Cost Increase	Recommendation Approved
70	1512 (15-19)	Reroofing	Adopt as written	Deletion. Note 'Photovoltaic Panels and Modules' has been removed and dispersed throughout multiple sections (i.e.1606.4)	No	No	Yes
71	Table 1604.5 (16-5)	Risk Category	Adopt as written	Change. Added line item for assembly spaces with occupant load > 300 and cumulative OL of >2500 to Category III	No	Yes	Yes
72	1606.3 (16-6)	Weight of service equipment	Adopt as written	New section. Requires the weight of fixed service equipment to be included in determining dead loads	No	Yes	Yes
73	1606.4 (16-6)	Photovoltaic panel systems	Adopt as written	New Section. Requires the weight of PV panel systems to be considered as dead load	No	Yes	Yes
74	1606.5 (16-7)	Vegatative and landscaped roofs	Adopt as written	New Section. Requires landscaping and hardscaping materials on roofs to be considered dead load	No	Yes	Yes
75	1607.7 (16-7)	Passenger vehicle garages	Adopt as written	Change. Relocated requirements and new exceptions added (relocated from footnotes from Table 1607)	No	No	Yes
76	1607.11.4 (16-11)	Fall arrest, lifeline, and rope descent system	Adopt as written	New Section. Requires these items and their structural elements to be designed for the maximum tension that would develop from live loads. A specified live load of 3,100 pounds was previously required (1607.10.4)	Yes	Yes	Yes
77	1607.17-22 (16-14)	Fixed ladders, Library Stack Rooms, Seating for Assembly Ues, etc	Adopt as written	New Sections. New requirements for loads for these items	Yes	No	Yes
78	1610.2 (16-33)	Uplift loads on floor and foundations	Adopt as written	New Section. New section addresssing concrete slabs on grade must now be designed for uplift due to expansive soil	No	No	Yes
79	1611.1 (16-33)	Design rain loads	Adopt as written	Change. Increase in the design rainfall	No	Yes	Yes
80	COSA Amendments Section 1704 (17-2)	Special Inspections	Keep Amendments	COSA Amendments. Requirements for Special Inspectors, tests and reports	No	No	Yes
81	1705.5.3/Table 1705.5.3 (17-7)	Mass Timber Construction	Adopt as written	New Section. Added requirements for mass timber to address the anchorage and connection mass timber structural elements and table of special inspections	No	Yes	Yes
82	1705.18 (17-13)	Fire-Resistant Penetrations and Joints	Adopt as written	Change. Added fire areas of Group R with an occupant load of 250 or more	No	Yes	Yes
83	1705.20 (17-13)	Sealing of Mass Timber	Adopt as written	New Section. Requires periodic special inspection of sealants or adhesives for Mass Timber building elements	No	Yes	Yes
84	COSA Amendment 1804.1 (18-3)	Excavation Near Foundations	Remove Amendment	COSA Amendment. Language not needed or enforceable	No	No	Yes
85	2109 (21-3)	Empirical Design of Adobe Masonry	Proposed Amendment	COSA Amendment. Include language from CI2018-001. Update language with changes to 2021 language	No	No	Revisit w/ stakeholder
86	2304.10.1 (23-15)	Mass Timber Connection Protection	Adopt as written	New Section. Specifies methods to determine fire-resistance ratings for connections in Mass Timber	No	Yes	Yes
87	2902.1.1 (29-1)	Fixture Calculations	Proposed Amendment	New exceptions. Allows multiple user facilities to serve all genders provided urinals are visually separated or located in a stall Recommend to duplicate language approved by the IPC committee " Where multiple-user facilities are designed to serve all genders, the minimum fixture count shall be calculated 100 percent, based on total occupant load. In such multiple-user facilities, each fixture type shall be in accordance with ICC A117.1 and each urinal that is provided shall be provided with walls and a door enclosing the fixture."	No	No	Yes

Proposed 2021 International Building Code (IBC) and Chapter 10 Amendments

No.	Section (pg #)	Title	Recommendation	Summary of Change	Life/Safety	Potential Construction Cost Increase	Recommendation Approved
88	2902.2 (29-5)	Separate Facilities	Proposed Amendment	New exceptions. Allows multiple user facilities to serve all genders. Recommend to duplicate language approved by the IPC Committee. "Separate facilities shall not be required where rooms having both water closets and lavatory fixtures are designed for use by both sexes and privacy for water closets and urinals is provided with walls and a door enclosing the fixtures.	No	No	Yes
89	COSA Amendment 3109 (31-5)	Swimming Pool Enclosures and Safety Devices	Remove Amendment	COSA Amendment. Amendment language no longer needed due to adoption of ISPSC	No	No	Yes
90	3114 (31-6)	Public Use Restroom Buildings in Flood Hazard Area	Adopt as written	New Section. New requirements and size limitation // Move to strike	No	Yes	No
91	3115 (31-7)	Intermodal Shipping Containers	Proposed Amendment	Proposed Amendment. Amend out 3115.3 that requires information on existing data plate	No	No	Yes
92	COSA Amendment 3306.7 (33-3)	Covered Walkways	Keep Amendment	COSA Amendment. Permits an additional exception for covered walkways	No	No	Yes
93	3307.2 (33-3)	Excavation Retention Systems	Adopt as written	New Sections. Require retention systems to be designed by an engineer	No	Yes	Yes
94	3313 (33-4)	Fire Protection During Construction	Review with SAFD	New Sections. Address water supply requirements for when combustible materials are delivered to a site, Type IV Construction, vertical construction, standpipe supply. Previously code just specified "an approved water supply shall be made available"	Yes	Yes	Yes
95	3314 (33-5)	Fire Watch During Construction	Review with SAFD	Change. Requires a fire watch for all projects over 40 feet in height or 50,000 sf per story. Previously code specified "where required by the fire code official"	Yes	Yes	Yes
96	COSA Amendment Appendix H (H-1)	Signs	Keep Amendment	COSA Amendment. Amendment to Appendix addressing signs	No	No	Yes

Proposed updates to 2021 International Existing Building Code (IEBC) and Chapter 10 Amendments

No.	Section (pg #)	Title	Recommendation	Summary of Change	Life/Safety	Potential Construction Cost Increase	Recommendation Approved
1	301.1.1 (3-1) 401.1.1 (4-1) 1401.1.1 (14-1)	Bleachers, grandstands and folding and telescoping seating	Adopt as written	New Section. References ICC 300 which has a chapter on existing bleachers, etc	No	No	Yes
2	COSA Amendment 202 Definitions	Change of Occupancy	Keep Amendment	COSA Amendment. Adds requirements for previously open areas that are proposed to be enclosed	Yes	No	Yes
3	306 (3-3)	Accessibility for Existing Buildings	Proposed Amendment	Proposed Amendment. Accessibility requirements are amended out of IBC (Ch. 11)	No	No	Yes
4	307 (3-5)	Smoke Alarms	Adopt as written	Change. Moved requirements from other sections. Adds requirement to comply with IRC for alterations, additions, change of occupancy or relocation. Adds exception	Yes	Yes	Yes
5	308 (3-6)	Carbon Monoxide Detection	Adopt as written	Change. Moved requirements from other sections. Adds requirement to comply with IRC for alterations, additions, change of occupancy or relocation. IRC already addresses this for existing buildings. Adds exception	Yes	No	Yes
6	309 (3-6)	Additions and replacements of exterior wall coverings and exterior wall envelopes	Adopt as written	New Section. Requires exterior wall coverings or envelopes added or replaced shall comply with this section for two or more contiguous stories and comprises more than 15% of the total wall area	No	Yes	Yes
7	502.6 (5-2) 503.16 (5-4) 506.6 (5-6) 903.4 (9-2) 1011.4 (10-4) 1101.4 (11-1)	Enhanced Classroom Acoustics	Proposed Amendment	Proposed Amendment. Remove this requirement throughout	No	No	Yes
8	503.4 (5-2)	Existing structural elements carrying lateral load	Adopt as written	New Exception. Does not require structural elements to meet the requirements of the IBC when mechanical equipment not exceeding 400 lbs is placed on the roof	No	No	Yes
9	503.18 (5-4)	Two-way communications systems	Proposed Amendment	Proposed Amendment. Accessibility requirements are amended out of IBC (Ch. 10)	No	No	Yes
10	505.1 (5-4)	Replacement windows	Adopt as written	Change. Revised to require compliance when replacing the entire window instead of just the glass.	No	No	Yes
11	505.2 (5-5)	Window opening control devices on replacement windows	Adopt as written	Change. Now requires compliance when only the sash is replaced.	Yes	Yes	Yes
12	COSA Amendment 505.3 (5-5)	Replacement window emergency escape and rescue opening	Remove amendment	COSA Amendment. Strikes out the requirement to install the manufacturer's largest size window	No	No	Yes
13	506.4 (5-6)	Existing emergency escape and rescue openings	Adopt as written	New Section. Requires EERO to be provided with a change of use. Would not be an increase in cost because this would already be required by DSD	Yes	No	Yes
14	603.1 (6-1)	Alteration - Level 2; Scope	Adopt as written	New Exception. Aligns with IBC for when a permit is not required	No	No	Yes
15	801.3 (8-1)	System Installation	Adopt as written	New Section. Specifies alterations that don't require compliance with Level 2 requirements related to work area	No	No	Yes
16	802.4 (8-3)	Interior Finish	Adopt as written	Change. Proposed to remove the last 2 sentences. "Compliance with this section shall..."	No	No	Yes
17	803.2.2 (8-4)	Groups and Group I-1	Adopt as written	Change. I-2 occupancies can no longer apply the exception in 803.2.2 when the building does not have sufficient water supply	Yes	Yes	Yes
18	804.7 (8-8)	Dead-end Corridors	Adopt as written	Change. Limits the length of dead-end corridors to 30 feet for I-2 occupancies. Was previously 35 feet	No	Yes	Yes

Proposed updates to 2021 International Existing Building Code (IEBC) and Chapter 10 Amendments

19	1011.2.1 (10-3)	Fire Sprinkler System	Proposed Amendment	Change. Propose to amend out changes starting with "The installation of the automatic..." Conflicts with Amendments to IBC and IFC 903.6 that requires a 1-hr fire barrier between sprinklered and non-sprinklered areas.	Yes	Yes	Yes
20	1204.9 (12-3)	Interior Finish	Adopt as written	Change. Proposed to remove the last 2 sentences. "Compliance with this section shall..."	No	No	Yes
21	1502.2 (15-2)	Excavation retention systems	Adopt as written	New Section. Requires a retention system adjacent to other structures to be engineered	No	No	Yes
22	1509 (15-4)	Water supply for fire protection	Discuss with SAFD	New Sections. Several sections regarding water supply requirements during construction. IFC 3313 contains this language. Duplicate any amendments to IEBC.	Yes	Yes	Revisit

Proposed updates to 2021 International Residential Code (IRC) and Chapter 10 Amendments

No.	Section and Page #	Title	Recommendation	Summary of Change	Life / Safety	Potential Construction Cost Increase	Recommendation Approved
1	114.3 (p. 1-9)	Emergencies	Add to Ch. 10 Amendments	New Section. For emergencies, the building official does not need to give written notice before stopping work	Y	N	Yes
2	COSA Amendment Table R301.2	Climatic and Geographical Design Criteria - Table renumbered	Keep amendment and update	Current COSA Amendment. The table in COSA Chap. 10 Amendments needs the table number updated from Table R301.2(1) to Table R301.2. Change wind load to 108 mph	N	N	Yes
3	R301.3 (p. 3-31)	Story height	Adopt as written	Change. An exception was added to item #1 and the following verbiage was added to the last paragraph of the section. Maximum story height for wood wall framing is 13'-7" when the exception requirements are met.	N	N	Yes
4	R302.9.5 (p. 3-37)	High-density polyethylene and polypropylene (PP)	Adopt as written	New Section. Requirments for the use of HDPE as an interior finish. Testing must comply with NFPA 286.	N	N	Yes
5	R303.1 (p. 3-39)	Habitable rooms	Adopt as written	Change. The verbiage to exception 1 was changed to include the option of providing a whole house mechanical ventilation system or a mechanical ventilation system capable of producing .35 air changes per hour in the habitable rooms.	N	N	Yes
6	R303.1 (p. 3-39)	Habitable rooms	Adopt as written	Change. Exception was added for a local exhaust system in the kitchen in accordance with M1505	N	N	Yes
7	R303.4 (p. 3-40)	Mechanical ventilation	Adopt as written	Change. Added "or other approved means of ventilation" to compliance with M1505	N	N	Yes
8	R305.1 (p. 3-41)	Minimum height	Adopt as written	Change. Exception (#4) was added for beams and girders (spaced 36 in apart) not projecting more than 78 in (6'-6") from finished floor. Due to increased size of material	N	N	Yes
9	R308.6.5 (p. 3-45)	Screens not required	Adopt as written	Change. Added laminate glass complying with Item 1 of Section R308.6.2 used as single glazing or the inboard pane in multiple glazing	Y	N	Yes
10	R310.1 (p. 3-46)	Emergency escape and rescue opening required	Proposed Amendment	Change. Verbiage added that requires the yard or court opening to a public way to be a minimum width of 36 inches. Propose amendment to modify the last sentence to read "EERO shall open directly into a public way, or to a yard or court."	Y	N	Yes
11	R310.4 (p. 3-46)	Area wells	Adopt as written	Change. Window wells and area wells are merged into this section	Y	N	Yes
12	310.4.2.2 (p. 3-47)	Steps	Adopt as written	New Section. New section added further clarifying the step dimensions	Y	N	Yes
13	R310.6 (p. 3-47)	Dwelling Additions	Adopt as written	New Exception. Added new exception to comply with 310.7.1 allowing an escape and rescue opening with reduced dimensions.	Y	N	Yes
14	R310.7 (p. 3-47)	Alterations or repairs of existing basements	Adopt as written	New Exception. Added new exception to comply with 310.7.1 allowing an escape and rescue opening with reduced dimensions.	Y	N	Yes
15	R310.7.1 (p. 3-47)	Existing emergency escape and rescue openings	Adopt as written	New Section. New section for escape and rescue openings for a change of occupancy. Allows for an escape and rescue opening with reduced dimensions. (4 sf instead of 5.7 sf clear opening)	Y	N	Yes
16	R311.7 (p. 3-48) R311.8.8 (p. 3-51)	Stairways Ramps	Proposed Amendment	Change. Added language to try to clarify when the stairways have to comply with this section. New language actually makes this section too open for interpretation. Proposed amendment to modify Exception #1 to read "Stairways not within or not serving a building, porch or deck." For ramps exception: "Ramps not within or not serving a building, porch or deck."	N	N	Yes
17	R311.7.7 (p. 3-49)	Stairway walking surfaces	Adopt as written	New Exception. Added for landings required to drain surface water having a slope not steeper than 5 percent.	N	N	Yes
18	R311.7.8.4 (p. 3-50)	Continuity	Adopt as written	Change. Added option. Handrail end can now end toward guard, walking surface, or continuous to itself.	N	N	Yes
19	R314.3 (p. 3-52)	Location	Adopt as written	New Section. New section added for smoke alarm to be provided where change in ceiling height of room open to a hallway serving a bedroom is more than 24 inches	Y	Y	Yes

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No.	Section and Page #	Title	Recommendation	Summary of Change	Life / Safety	Potential Construction Cost Increase	Recommendation Approved
20	COSA Amendment R315.2.2 (p. 3-53)	Alterations, repairs and additions	Keep amendment and update Ch. 10 language	COSA Amendment. Clarifies when carbon monoxide alarms are required for alterations, repairs and additions. New section added #3 that triggers the requirement for carbon monoxide alarms for fuel fired mechanical systems which was previously included in Exception 2	Y	N	Yes
21	R316.3 (p. 3-54)	Surface burning characteristics	Adopt as written	Change. Exception requires spray foam plastic insulaton to have a flame spread index of 25 and requires a minimum 1/2" wallboard or material that meets NFPA 275	Y	Y	Yes
22	COSA Amendment R317.1.2	Ground Contact	Keep amendment as written	COSA Amendment. States that creosote-treated railroad ties are not permitted to be used in retaining walls that are greater than 4 feet or carry a surcharge and they have to be greater than 4 feet from the public ROW	N	N	Yes
23	R326 (p3-65)	Habitable attics	Adopt as written	Change. Habitable attics is a new section and no longer a subsection of Mezzanines.	N	N	Yes
24	R326.3 (p. 3-65)	Story above grade plane	Adopt as written	New Section. Exceptions for considering a habitable attic as a story above grade plane. New section provides potential for a 4 story home	N	N	Yes
25	R326.4 (p. 3-66)	Means of egress	Adopt as written	New section. Means of egress for habitable attics to comply with R311.	Y	N	Yes
26	R328 (p. 3-66)	Energy storage systems	Adopt as written	Change. Stationary storage battery systems changed to Energy storage systems	N	N	Yes
27	R328.3.1 (p. 3-66)	Spacing	Adopt as written	New Section. Added for minimum spacing. Smaller separation distances to provide fire testing documentation in compliance with 1207.1.5 of the IFC	Y	Y	Yes
28	R328.4 (p. 3-66)	Locations	Adopt as written	New section. Added providing specific areas where the ESS can be located.	Y	N	Yes
29	R328.5 (p. 3-66)	Energy Ratings	Adopt as written	Change. New section added.	N	N	Yes
30	R328.7 (p. 3-66)	Fire detection	Adopt as written	Change. In addition to smoke alarms, installation of heat detectors in areas where smoke alarms cannot be installed.	Y	Y	Yes
31	R328.10 (p. 3-66)	Electric vehicle use	Adopt as written	New section. Requires compliance with the manufacturers instructions or NFPA 70 for the temporary use of a vehicle to power a dwelling unit.	N	N	Yes
32	R328.11 (p.3-66)	Documentation and labeling	Adopt as written	New Section. Requires documentation be provided	N	N	Yes
33	R329 (p. 3-66)	Stationary engine generators	Adopt as written	New section. Added with subsections for general information and installation requirements	N	Y	Yes
34	R330 (p. 3-67)	Stationary fuel cell power systems	Adopt as written	New section. Added requiring stationary fuel cell power systems to comply with section 1206 of the IFC	Y	Y	Yes
35	R403.1.6 (p. 4-10)	Foundation anchorage	Adopt as written	Change. New verbiage added for anchor bolts to be located while concrete is still plastic	N	N	Yes
36	R406.2 (p. 4-43)	Concrete and masonry foundation waterproofing	Adopt as written	Change. Removal of two options for waterproofing. 1) Six-mil polyvinyl chloride and six-mil polyethylene.	N	Y	Yes
37	R408.8 (p. 4-45)	Under floor vapor retarder	Adopt as written	New section. Requires a Class I or II vapor retarder to be provided on the exposed face of air permeable insulation.	N	Y	Yes
38	COSA Amendment R408.8	Foundation Repair	Keep amendment and update number due to the new section added	COSA amendment. Requires an engineer's letter for foundation repairs	N	N	Yes
39	R506.2.3 (p. 5-25)	Vapor Retarder	Adopt as written	Change. A 6-mil polyethylene was removed and the minimum is 10 mil vapor retarder.	N	Y	Yes
40	R507.3 (p. 5-26)	Footings	Adopt as written	Change. New exception with subsections added for joists bearing directly on precast concrete pier blocks.	N	N	Yes
41	R507.3.2 (p. 5-26)	Minimum depth	Adopt as written	Change. Verbiage changed to deck footings shall be placed not less than 12 inches below the undisturbed ground surface. Exceptions were moved to R507.3.	Y	N	Yes
42	Table R507.3.1 (p. 5-27)	Minimum footing size for decks	Adopt as written	Change. The minimum size and thickness for the concrete footings updated. Subnotes A and B revised to add additional conditions. Subnotes c revised and Subnote f added.	Y	N	Yes

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No.	Section and Page #	Title	Recommendation	Summary of Change	Life / Safety	Potential Construction Cost Increase	Recommendation Approved
43	Table R507.4 (p. 5-28)	Deck post height	Adopt as written	Change. New columns added (Loads, Post Species, Tributary Area) with new subnotes.	Y	Y	Yes
44	Table R507.5(1) (p. 5-31)	Maximum deck beam span-40 psf live load	Adopt as written	Change. Table revised to add Tables R507.5(2), R507.5(3), R507.5(4) for ground snow loads of 50 psf, 60 psf, and 70 psf. Row revised to add column title Effective deck joist span length. The maximum deck beam span lengths have been revised. Subnotes a, i, and j added and other subnotes revised	Y	Y	Yes
45	Table R507.5(5) (p. 5-35)	Joist span factors for calculating effective deck joist span	Adopt as written	Change. New table added for use with subnote J of the tables listed.	Y	N	Yes
46	Table R507.6 (p. 5-38)	Maximum deck joist spans	Adopt as written	Change. Table revised to include new "Load" column for increased snow loads. Table also tries to clarify the maximum cantilever allowed. Subnotes revised.	Y	N	Yes
47	Table R507.7 (p. 5-39)	Maximum joist spacing for wood decking	Adopt as written	Change. Table revised specifically for wood decking, plastic composite removed. New row added for single span decking and multiple span decking. Subnotes b and c added.	Y	N	Yes
48	R507.9.1.2 (p. 5-30)	Band joist details	Adopt as written	Change. Removed optional band joist minimum 1-inch by 9 1/2-inch dimensional lumber to 1-inch nominal engineered wood rim boards.	Y	Y	Yes
49	Table R507.9.1.3(1) (p. 5-40)	Deck ledger connection to band joist	Adopt as written	Change. Table revised to include new "Load" column for increased show loads. Connection Details are now subcolumns under the column On-Center Spacing of Fasteners. Joist span is now its own column. Subnote A added.	Y	N	Yes
50	R507.10 (p. 5-43)	Exterior guards	Adopt as written	New section. Subsections added for exterior guards. Already required to comply with guards in R312	Y	N	Yes
51	R602.10.1.2 (p. 6-16)	Locations of braced wall lines and permitted offsets	Adopt as written	Change. Verbiage added that limits the placement of the braced wall line and the amount of bracing allowed on offsets.	N	N	Yes
52	R609.4.1 (p. 6-179)	Garage door labeling	Adopt as written	New section. Requires garage doors to have a permanent label with manufacturers information as well as wind pressures	N	Y	Yes
53	R703.4.1 (p. 7-11)	Flashing installation at exterior window and door openings	Adopt as written	New section. Created from previous section (R703.4 Flashing 1, 1.1, 1.2, 1.3) clarifying flashing at exterior windows.	N	N	Yes
54	R704 (p. 7-27)	Soffits	Adopt as written	New section. Expands the requirements for soffit material and installation	N	N	Yes
55	R704.2.1 (p. 7-27)	Vinyl soffit panels	Adopt as written	New section. Specifies the installation requirements for vinyl soffit panels	N	Y	Yes
56	R704.2.2 (p. 7-27)	Fiber-cement soffit panels	Adopt as written	New section. Specifies the installation requirements for fiber cement soffit panels	N	Y	Yes
57	R704.2.3 (p. 7-28)	Hardboard soffit panels	Adopt as written	New section. Specifies the installation requirements for fiber cement soffit panels	N	Y	Yes
58	R704.2.4 (p. 7-28)	Wood structural panel soffit	Adopt as written	New section. Specifies the installation requirements for wood structural panels	N	Y	Yes
59	Table R704.3.4 (p. 7-29)	Prescriptive alternative for wood structural panel soffit	Adopt as written	New Table. Added for the use of wood structural panels as a soffit	N	Y	Yes
60	R802.4.6 (p. 8-20)	Collar ties	Adopt as written	Change. Verbiage added providing information on the installation of ridge straps.	N	N	Yes
61	Table R802.5.2(1)	Rafter/Ceiling joist heel joint connections	Adopt as written	Change. Table revised to include 19.2 inches under the column rafter spacing, columns under roof span revised to only 3 columns for 12, 24 and 36 and the number of nails per heel has been updated.	N	N	Yes
62	Table R802.5.2(2)	Heel joint connection adjustment factors	Adopt as written	New table. Created from Table R802.5.2(1) subnote g. No change to the adjustment factors.	N	N	Yes
63	R802.6 (p. 8-25)	Bearing	Adopt as written	Change. Verbiage added for roofs with a pitch that is equal to or greater than 3 units vertical in 12 units horizontal	N	N	Yes

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No.	Section and Page #	Title	Recommendation	Summary of Change	Life / Safety	Potential Construction Cost Increase	Recommendation Approved
64	R902.3 (p. 9-1)	Building-integrated photovoltaic product	Adopt as written	Change. Verbiage added to indicated where the BIPV products can be installed	N	N	Yes
65	AQ104.2.1.4 (p. AQ-2)	Landings	Adopt as written	New Section. Landings for loft access and egress only has to be 24 in instead of 36 in	Y	N	Yes
66	AQ104.2.1.5 (p. AQ-2)	Landing platforms	Adopt as written	Change. Verbiage revised to clearly define the requirements for the landing platform	N	N	Yes
67	AQ104.2.2.1 (p. AQ-2)	Size and capacity	Adopt as written	Change. Verbiage revised change the max load for the ladders from 200 to 300 lbs.	Y	Y	Yes
68	AQ106 (p. AQ-2)	Energy Conservation	Adopt as written	New section. Added for energy compliance	N	N	Yes

Proposed updates to 2021 International Energy Conservation Code (IECC) and Chapter 10 Amendments

No.	Section (pg#)	Title	Recommendation	Summary of Change	Potential Cost Increase	Recommendation Approved
1	C303.1.2 (C3-36)	Insulation Mark Installation	Adopt as written	Change. Requires R-value to be observable or an insulation certificate be proved. <i>More new types of insulation (including blown-in with different densities), are manufactured with no R-Value. Hard to inspect without a document from the installer.</i>	N	Yes
2	C401.3 (C4-1)	Thermal Envelope Certificate	Adopt as written	New Section. Requires a thermal envelope certificate be completed by an approved party and left on site. <i>Simplified version of the successful Residential certificate. MEP has commissioning but there was nothing for building envelope to document the system.</i>	N	Yes
3	Table C402.1.4 (C4-4)	Table - U-Factor Method	Adopt as written	Change. Added Non-Swinging Doors with a U.31 & Swinging doors changed from U.61 to U.37; Increased Efficiency. <i>Cost Data from industry and research now allows more accurate performance for opaque swinging doors by using U-factors rather than R-Values.</i>	Y	Yes
4	Table C402.4 (C4-8)	Envelope Fenestration values	Adopt as written	Change. Increased Efficiency for fenestration to provide consistency with ASHRAE 90.1. <i>Based on comprehensive analysis and to make consistent with ASHRAE 90.1 that already had broad consensus from industry and energy conservation groups. Cost effective and practical.</i>	Y	Yes
5	COSA Amendment C402.3	Roof Solar Reflectance and Thermal Emittance	Keep Amendment and update to 2021 language	COSA Amendment. Identifies what a low sloped roof is and requirements for roofs that are not low sloped. Update the amendment language to capture 2021 language	N	Yes
6	COSA Amendment C402.4.2	Minimum Skylight Fenestration Area	Keep Amendment and update to 2021 language	COSA Amendment. Adds an exception and doesn't require skylights for warehouses with ESFR sprinkler systems. 2021 Code added Storm Shelter Exception. Update the amendment language to capture 2021 language	N	Yes
7	C402.5.1.2 (C4-10)	Air Barrier Compliance	Adopt as written	Change. Additional parameters for testing. Larger buildings to provide commissioning. <i>Research shows 40% of buildings using materials and installation path of the 2018 exceeded energy use requirements versus air leakage testing. Testing can be by portions of the building by sampling alternative in C402.5.3</i>	Y	Yes
8	C403.1.2 (C4-14)	Data Centers	Adopt as written	New Section. Provides guidance for data centers. Has to meet ASHRAE 90.4 which is Energy Standards for Data Centers. Section 6 - Heating Ventilating and Air Conditioning. Section 8 - Power. <i>Data Centers have always had difficulty meeting requirements and were discouraged from more efficient alternatives to use the waste heat - provides a AHSRAE performance standard to be used.</i>	N	Yes
9	C403.2.3 (C4-15)	Fault detection and diagnostics	Adopt as written	New Section. Requires diagnostics for HVAC systems in buildings over 100,000 sf. R-1 and R-2 exempt. <i>New HVAC degrades if not properly maintained - FDD will reduce degradation by notification of building operators.</i>	Y	Yes
10	C403.3.2.1 and Tables (C4-15)	Water cooled centrifugal chilling packages	Adopt as written	New Section and Tables. Tables based on federal manufacturing requirements. Added to match ASHRAE tables directly. <i>Makes Tables match ASHRAE.</i>	N	Yes
11	C403.4.2.3 (C4-37)	Automatic start and stop	Adopt as written	Change. Increase Efficiency. Previously only addressed start controls that start the HVAC system in order to bring each space to the desired occupied temperature. Now requires automatic stop controls as well which is already commonplace	N	Yes
12	C403.6.5 (C4-42)	Supply air temperature reset controls	Adopt as written	Change. Improves coordination with ASHRAE and in 2A, HVAC systems can dehumidify while providing supply air temperature reset for internal or external conditions. <i>May increase cost if a separate outside air cooling coil is added. < 10,000 cfm cost effective in 2A</i>	Y/N	Yes
13	C403.7.1 (C4-43)	Demand control ventilation	Adopt as written	Change. More practical application. Decreased OL from 25 down to 15. <i>Improves coordination with ASHRAE 90.1 and improves exceptions where the DCV controls works better. More units sold already have DCV. With a unit with high makeup air/transfer air, cost of construction will be reduced</i>	Y/N	Yes
14	C403.7.2 (C4-43)	Enclosed parking garage ventilation	Adopt as written	Change. Clarified the type of detectors required (nitrogen/carbon dioxide). Exception was reduced from 22,500 - 8,000 cfm. <i>Current threshold ignores substantial percentage of parking garages with ventilation running with no occupants.</i>	Y	Yes
15	C403.7.4 (C4-44)	Energy recovery systems	Adopt as written	Change. Increase Efficiency. Adds requirements for nontransient dwelling units. Exempts dwelling units from heating energy recovery requirements. <i>Aligns with ASHRAE 90.1.</i>	Y	Table
16	C403.8.3 (C4-48)	Fan efficiency	Adopt as written	Change. Re-written to provide more information on standards and provides additional exceptions to required Fan Energy Index (FEI). <i>Upgrades current efficiency metric (fan efficiency grade) to a more current Fan Energy Index (FEI) the DOE is trying to work through their rulemaking ability</i>	Y	Yes
17	C403.11 (C4-50)	Refrigeration equipment performance	Adopt as written	Change. Provides more clarity to the standards for equipment and requirements per the DOE. <i>Updated per the Federal requirements</i>	N	Yes

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No.	Section (pg#)	Title	Recommendation	Summary of Change	Potential Cost Increase	Recommendation Approved
18	C403.12.1 (C4-53)	Duct and plenum insulation	Adopt as written	Change. Addresses underground ducts. Duplicated requirements for ducts in unconditioned spaces (R-8). Provides an alternative method for compliance. <i>Adds a definition Thermal Distribution Efficiency in Chapter 2. Allows this testing option per the definition rather than using insulation.</i>	N	Yes
19	C403.14 (C4-55)	Operable opening interlocking controls	Adopt as written	New Section. Increased efficiency. Text should reference 402.5.11 (pg C4-13) for Operable openings interlocking. <i>Interlocks heating and cooling to allow continued operation when operable windows/roll up doors/sliding doors are left open and temp between 70 to 80, but shut off otherwise. Exempts food prep/cooking in separate zone, warehouses, and front doors as part of vestibules.</i>	Y	Yes
20	COSA Amendment C404.6.1	Circulation Systems	Keep Amendment and update to 2021 language	COSA Amendment. Adds another option for compliance for hot water system pumps. Update the amendment language to capture 2021 language	N	Yes
21	C405.2.4.4 (C4-64)	Atriums	Adopt as written	New Section. Identifies atriums daylight zones and new figure. <i>Previous code provides no guidance on how daylight zones are handles in multistory atriums.</i>	N	Yes
22	C405.2.7.3 (C4-65)	Lighting setback	Adopt as written	Change. Increased efficiency. Control lighting to automatically reduce by at least 50% by daylight sensors or motion. <i>Solid State Lighting now provides greater control than old legacy lighting. 50% lighting setback is sufficient outside business hours and consistent with other codes sections.</i>	Y	Yes
23	C405.2.8 (C4-66)	Parking garage light control	Adopt as written	New Section. Adds requirements for parking garages. <i>Reduces time switch and occupant sensors used together in garages, and putting garage in its own section provides clarification of the confusing Section C405.2.4 in the 2018. Does require more extensive use of controls per the reasoning statement.</i>	Y	Yes
24	C405.4 (C4-70)	Lighting for plant growth and maintenance	Adopt as written	New Section. Added requirements for plant growth and maintenance. <i>With LED, it is more feasible to grow close to point of consumption. Removes a loophole. 1.6 micromoles per joule is more appropriate for plant growth than the total exemption of the 2018.</i>	Y	Yes
25	COSA Amendment C405.5 now C405.6	Dwelling Electrical Meter	Keep Amendment	COSA Amendments. Specifies that the requirement is for R-2 <i>multi-family</i> buildings and not other R-2 occupancies like dormitories, boarding homes, monasteries, etc	N	Yes
26	C405.9.2.1 (C4-72)	Energy recovery	Adopt as written	New Section. Increased efficiency. Section updated to comply with ASME A17.1 which is the Safety Code for Elevators and Escalators	Y	Yes
27	C405.10 (C4-72)	Voltage drop	Adopt as written	Change. The current requirement does not include customer owned service conductors, often long runs with high voltage drops. <i>Adds clarity</i>	N	Yes
28	C405.11 (C4-72)	Automatic receptacle control	Adopt as written	New Section. New code for receptacle controls. At least 50% of the covered receptacles and 25% of branch circuit feeders must be automatically controlled receptacles by using either split wired receptacles that provide at least 1 controlled outlet or having at least 1 controlled outlet within 12 inches of an uncontrolled outlet. Includes 3 exceptions. <i>Well studied cost effective, enforceable</i>	Y	Yes
29	C405.12 - C405.12.5 (C4-75)	Energy monitoring	Adopt as written	New Section. Monitor, measure, record and report energy usage in buildings with conditioned floor area 25,000 sf or larger. <i>Lighting HVAC and other systems are expensive and systems do degrade with time so a monitoring system is required to maintain the system and increase payback period.</i>	Y	No. COSA to propose amendment
30	C406.1 and Tables (C4-76)	Additional energy efficiency credit requirements	Adopt as written	Change. When complying with the Prescriptive Compliance option, designers may select from 11 points-based additional energy efficiency options based on climate zone and occupancy type. <i>Makes it easier to implement; overall a clarification</i>	Options	Yes
31	C406.2 (C4-76)	More efficient HVAC equipment performance	Adopt as written	Change. The Five percent, Ten-percent and more than 10-percent in C406.2.1 through C406.2.5 are percents above the minimum efficiencies of Tables C403.3.2(1) through C403.3.2(9). Industry feedback was that it was difficult to add another 10% because both heating and cooling must comply. This allows either or both to comply.	Options	Yes
32	C406.3 (C4-78)	Reduce lighting power	Adopt as written	Change and New Section. <i>Keeps the 10% and adds a 15% option; adds option for dwelling units/sleeping units</i>	Options	Yes
33	C406.5.2 (C4-80)	On-Site renewable energy	Adopt as written	New Section. <i>Allows for additional credit by increasing the system size over the base level</i>	Options	Yes
34	C406.10 (C4-82)	Meters and energy monitoring	Adopt as written	New Section. Adds another option for Energy Monitoring where not already required	Options	Yes
35	C406.11 (C4-83)	Fault and diagnostics system	Adopt as written	New Section. Adds option where a FDD requirements is not already required.	Options	Yes

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No.	Section (pg#)	Title	Recommendation	Summary of Change	Potential Cost Increase	Recommendation Approved
36	C406.12 and Tables (C4-83)	Efficient Kitchen equipment	Adopt as written	New Section. For Group A2 or facilities that have commercial kitchen	Options	Yes
37	C407 (C4-84)	Total Building Performance	Adopt as written	Change. This was a change resulting in removing all Mandatory and Prescriptive from each previous code section and putting it all in one place.	N	Yes
38	R303.1.2 (R3-36)	Insulation Mark Installation	Adopt as written	Change. Materials w/out an R-value- insulation certificate to be provided by installer. <i>More new types of insulation (including blown-in with different densities), are manufactured with no R-Value. Hard to inspect without a document from the installer.</i>	N	Yes
39	R401.2 (R4-1)	Application	Adopt as written	Change and New Section. Baseline requirements to choose from and now requires an additional energy efficiency package	Y	Yes
40	Table R402.1.2 (R4-2)	Maximum Assembly...Requirements	Adopt as written	Change. Ceiling U-factor changed from .030 to .026. <i>Make homes more comfortable and reduces costs for homeowners. Insulation may be undisturbed for decades</i>	Y	Yes
41	Table R402.1.3 (R4-3)	Insulation Minimum...Component	Adopt as written	Change. Ceiling R-Value changed from 38 to 49 (inverse of U factor). Wall R-Value changed from 13 to 13 or 0 +10c.i; additional option. <i>The Ceiling is to save energy... The Wall change just provides an option for continuous insulation, improves usefulness of the prescriptive option.</i>	N for Wall	No. COSA to propose amendment to keep 2018 Ceiling R value
42	R402.2.12 (R4-6)	Sunroom and heated garage Insulation	Adopt as written	Change. Added heated garage to the section.	Y	Yes
43	R402.3.5 (R4-6)	Sunroom and heated garage Fenestration	Adopt as written	Change. Added heated garage to the section	Y	Yes
44	R402.4.1 (R4-6)	Building Thermal Envelope	Adopt as written	Change. Increases flexibility permitting trade-offs against other features of the home	N	Yes
45	R402.4.6 (R4-9)	Electrical and Communications Outlet Boxes	Adopt as written	New section. Limits air leakage when installed in the building thermal envelope	Y	No. COSA to propose amendment
46	COSA Amendment R402.6	Radiant Barrier	Keep amendment	COSA Amendment. Requires a radiant barrier above conditioned spaces.	N	Yes
47	R403.3.1	Insulation	Keep amendment	COSA Amendment. Trade off not cost efficient	N	No. Modified in meeting per committee recommendation
48	R403.3.2 (R4-10)	Ducts located in conditioned spaces	Adopt as written	New items. Items #3 and #4 added to address when ductwork in a floor cavity over unconditioned space or when ductwork located within an exterior wall is considered inside a conditioned space.	Y	Yes
49	COSA Amendment R403.5.1.1	Circulation Systems	Keep amendment	COSA Amendment. Provides additional options for circulation systems	N	Yes
50	COSA Amendment R404.1	Lighting equipment	Remove Amendment	COSA Amendment. No longer needed	N	Yes
51	R403.6.3 (R4-12)	Mechanical ventilation system testing	Adopt as written	New Section. Requires mechanical ventilation systems to be tested to ensure the systems are installed and operating as intended	Y	No
52	R404 (R4-13)	Electrical power and lighting systems	Adopt as written	New Sections. Requires exterior and interior lighting controls. Exterior lighting required to comply with Commercial requirements for select residential buildings. Interior lighting fixtures are required to have either a dimmer, occupant sensor or other control that is installed or built into the fixture	Y	No
53	COSA Amendment R406.4 now R406.5	Maximum Energy Rating Index	Modify Amendment	COSA Amendment. Slightly modify ERI proportionately between 2018 amendment and 2021 codes. Change from 63 to 59. Reference HB1736.	Y	Yes

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No.	Section (pg#)	Title	Recommendation	Summary of Change	Potential Cost Increase	Recommendation Approved
54	R408 (R4-21)	Additional efficiency package options	Adopt as written	New Sections. Residential projects are required to include additional energy efficiency measures as specified by the compliance path option selected	Y	Yes

Proposed Changes to the 2021 International Swimming Pool and Spa Code (ISPSC) and Ch 10 Amendments

No.	Section (pg #)	Title	Recommendation	Summary of Change	Life/Safety	Potential Construction Cost Increase	Recommendation Approved
1	COSA Amendment	Part 2 - Administration and Enforcement	Keep Amendment	COSA Amendment. Currently repeals 103-108. Need to modify Amendments to repeal 103-114 (Service utilities, inspections, means of appeal, board of appeals, violations, stop work order)	N	N	Yes
	COSA Amendment 302.4	Concealed Piping	New Amendment	COSA Amendment. Change "inspected" to "tested" and include the hydrostatic testing requirements from the IPC of 25 psi for 15 minutes			Committee proposed, Yes
1	COSA Amendment 305.1	General / Barrier Requirements	Keep Amendment	COSA Amendment. Specifies that this section applies to one and two family dwellings and townhouses	Y	N	Yes
2	305.1.1 (3-2)	Construction fencing required	Adopt as written	New Section. Added requirement for construction fencing at least 4 feet high	Y	N	Yes with added language
3	COSA Amendment 305.2	Outdoor swimming pools and spas	Keep Amendment	COSA Amendment. Includes a reference to the Texas Administrative Code, Texas Health and Safety Code 757 for public pools for barriers	Y	N	Yes
4	305.2.4.1 (3-3)	Setback for mesh fences	Adopt as written	New Section. Adds requirements for mesh fencing	Y	N	Yes
5	COSA Amendment 305.2.7.1	Chain link fencing prohibited	Keep Amendment	COSA Amendment. States that chain link fencing is not permitted as a barrier in public pools built after January 1, 1994.	Y	N	Yes but confirm there is not needed language per state law
6	305.3.3 (3-3)	Latch release	Adopt as written	Change. Expanded and added requirements for locks for public pools and residential pools	Y	N	Yes with added language
7	305.4 (3-4)	Structure wall as a barrier	Adopt as written	New Item. Added #4 requirements for location of the alarm device for non-dwellings	Y	N	Yes
8	COSA Amendment 305.4	Structure wall as a barrier	Keep Amendment	COSA Amendment. Eliminates "dwelling or structure" and specifies "a one- and two-family dwelling or townhouse or its accessory structure". Also identifies that walls with windows for EERO in an R-2 shall not be used as part of the enclosure. Other windows should be fixed. Amendment reference needs to be updated to 1031	Y	N	Yes
9	COSA Amendment 305.6	Natural barriers	Keep Amendment	COSA Amendment. Title changed to specify this section is in referenc to Natural barriers "used in a one- and two-family dwelling or townhouse"	Y	N	Yes
10	305.8 (3-4)	Means of egress	Adopt as written	New Section. Added section for means of egress. Already required at plan review/inspections	Y	N	Yes
11	307.1.2.1 (3-5)	Munsell color value	Adopt as written	New Section. Specifies finishes on the Munsell color value scale	Y	Y	Yes
12	COSA Amendment 307.1.4	Accessibility	Keep Amendment	COSA Amendment. Adds an exception "Components of projects regulated by and registered with Architectural Barriers Division of Texas Department of Licensing and Regulation shall be deemed to be in compliance with the requirements of this chapter"	N	N	Yes
13	307.2.5 (3-6)	Plaster	Adopt as written	New Section. Required standard for plaster	N	Y	Yes
14	COSA Amendment 310.1	General / Suction Entrapment Avoidance	Keep Amendment	COSA Amendment. Adds a reference "or for public swimming pools in accordance with State of Texas Rules for Public Swimming Pools and Spas, Title 25 TAC Chapter 265 Subchapter L, Rule §265.190"	Y	N	Yes
15	311.3 (3-7)	Water velocity	Adopt as written	New Sections. Identifies requirements for suction piping water velocity	Y	Y	Yes
16	Table 316.2(2) (3-10)	Water heating systems and components	Adopt as written	New Table. Added a table for solar water heaters and standard by which to comply with	N	Y	Yes

Proposed Changes to the 2021 International Swimming Pool and Spa Code (ISPSC) and Ch 10 Amendments

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17	COSA Amendment 320.1	Backwash water or draining water	Keep Amendment	COSA Amendment. Specifies that public pools are only permitted to drain to the sanitary sewer and not the storm sewer	N	N	Yes with added language
18	321.2.3 (3-11)	Underwater lighting	Adopt as written	Change. Simplified requirements for underwater lighting	N	N	Yes
19	322.3.1 (3-12)	Wall clearance	Adopt as written	Change. Clearance changed from 3-6 inches, now 3-4 inches for clearance between the pool wall and the ladder	Y	Y	Yes
20	324 (3-13)	Equipment Rooms	Adopt as written	New Section. Complete new section for public pools and spas. Equipment clearances, lighting, ventilation, door and openings, etc	Y	Y	Yes
21	325 (3-16)	Indoor air quality	Adopt as written	New Section. Requirements for indoor air quality to comply with IMC	Y	N	Yes
22	COSA Amendment 402.12	Water envelopes	Keep Amendment	COSA Amendment. References Texas Department of State Health Services, Administrative Code Title 25, Chapter 265, Section 186 (e) and Figure: 25 TAC § 256.186 (e) (6) for compliance. Deletes the table and figure in this section and provides a table and figure from the Texas Administrative Code	Y	N	Yes
23	COSA Amendment 402.13	Ladders for diving equipment	Keep Amendment	COSA Amendment. Adds requirements "Supports, platforms, steps, and ladders for diving equipment shall be designed to carry the anticipated loads. Steps and ladders shall be of corrosion-resistant material, easily cleanable and with slip-resistant tread." Removes the exception	Y	N	Yes
24	407.3 (4-4)	Continuous water removal	Adopt as written	New Section. Added requirements for water removal, pool circulation, standards	N	Y	Yes
25	COSA Amendment 411.2.1	Tread dimensions and area	Keep Amendment	COSA Amendment. Removes current language and replaces with "Treads shall have a minimum unobstructed horizontal depth (i.e., horizontal run) of 12 inches and a minimum width of 20 inches. "	N	N	Yes
26	COSA Amendment 411.2.2	Risers	Keep Amendment	COSA Amendment. Removes current language and replaces with "Risers for steps shall have a maximum uniform height of 10 inches, with the bottom riser height allowed to taper to zero"	N	N	Yes
27	411.2.5 (4-6)	Outlined edges	Adopt as written	New Section. New requirements for edges of stairs to have contrasting tile or other permanent marking	Y	Y	Yes
28	411.3.3 (4-6)	Surfaces	Adopt as written	Change. Requirements for beach entry up to 36 inches to be slip resistant. Added the 36 inch requirement	Y	Y	Yes
29	COSA Amendment 411.5.1	Swimouts	Keep Amendment	COSA Amendment. Added requirements to Item #4 "and provided with a horizontal solid or broken stripe at least 1 inch wide on the top surface along the front leading edge of each step. This stripe shall be plainly visible to persons on the pool deck. The stripe shall be a contrasting color to the background on which it is applied, and the color shall be permanent in nature and shall be a slip-resistant surface."	Y	N	Yes
30	COSA Amendment 411.5.2	Underwater seats and benches	Keep Amendment	COSA Amendment. Added requirements to Item #5 "and provided with a horizontal solid or broken stripe at least 1 inch wide on the top surface along the front leading edge of each step. This stripe shall be plainly visible to persons on the pool deck. The stripe shall be a contrasting color to the background on which it is applied, and the color shall be permanent in nature and shall be a slip-resistant surface."	Y	N	Yes
	COSA Amendment 412.1	Signage	Add Amendment	COSA Amendment. Repeal section and replace with Texas Department of Health Rules		N	Committee proposed, Yes
1	COSA Amendment 603.2	Markings and Indicators	Keep Amendment	COSA Amendment. Removed requirements for D-2 pools and added requirements for Class A & B pools.	Y	N	Yes

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2	609 (6-3)	Dressing and Sanitary Facilities	Adopt as written	Change. Took out requirements for water closets, urinal, lavatory and drinking fountains and referenced IBC and IPC. Added requirement for rinse shower	N	Y	Yes
3	609.9 (6-3)	Infant care	Proposed Amendment	Proposed Amendment. To be consistent with requirements in the IBC. "Baby-changing tables shall be provided in toilet facilities having two or more water closets. "	N	Y	Yes
4	COSA Amendment 610.5.1	Uniform height of 9 inches	Keep Amendment	COSA Amendment. Changes 9 to 10 inches for uniform height of risers for aquatic recreation facilities	N	N	Yes
5	612 (6-5)	Interactive water play features	Adopt as written	New Section. Interactive water play features are known as splash pads, spray pads and wet decks	Y	Y	Yes
6	COSA Amendment 804.1	General / Diving Water Envelopes	Keep Amendment	COSA Amendment. Adds in "or the manufacturer's specifications, whichever is greater" for minimum water envelopes	Y	N	Yes