

# ***Analysis of Changes for the 8<sup>th</sup> Edition (2023) Florida Codes***

## ***Changes to the Florida Building Code, Plumbing***

This *Analysis of Changes for the 8<sup>th</sup> Edition (2023) of the Florida Building Code* is intended to provide a comprehensive comparison of the provisions in the *7<sup>th</sup> Edition (2020) Florida Building Code, Plumbing* (FBCP) and the *8<sup>th</sup> Edition (2023) Florida Building Code, Plumbing*. The 7<sup>th</sup> Edition (2020) FBCP is the base code for the 8<sup>th</sup> Edition (2023) FBCP. The model code used to update the 8<sup>th</sup> Edition (2023) FBCP is the *2021 International Plumbing Code* (IPC). However, not all changes in the 2021 IPC are included in the 8<sup>th</sup> Edition (2023) FBCP. As a result of changes from the 2021 IPC and Florida-specific amendments, certain provisions and criteria of the code have changed. This *Analysis* will serve as a useful tool to facilitate the transition to the new code.

This *Analysis* is arranged so that comparable provisions in the two codes can be easily located. The left two columns contain section numbers and a brief overview of the corresponding requirements from the *7<sup>th</sup> Edition (2020) FBCP*. The next two columns contain section numbers and a brief overview of the corresponding requirements in the *8<sup>th</sup> Edition (2023) FBCP*. The far-right column contains a brief analysis or comment on the differences between the provisions.

This *Analysis* is not intended to replace or interpret the provisions contained in either the *7<sup>th</sup> Edition (2020)* or the *8<sup>th</sup> Edition (2023) FBCP*. This information simply points out the differences. The *Analysis* is not designed to be used without the aid of the representative code books, as all the details pertaining to a specific section may or may not be provided. However, this *Analysis* will provide an easy means for identifying differences in the two codes, as well as enabling the user to locate issue specific provisions in the *8<sup>th</sup> Edition (2023) FBCP* by means of a numbered section cross reference.

This *Analysis* provides a cross-reference for most of the sections that changed in the *8<sup>th</sup> Edition (2023) FBCP*. In some cases, sections were grouped together due to substantial differences. This grouping enables the extent of the differences to be more readily identified.

Notable changes deemed to be the most significant or to have the greatest impact have been highlighted in **yellow**.

7 <sup>th</sup> Edition (2020) FBCP		8 <sup>th</sup> Edition (2023) FBCP		Analysis
Section	Requirement	Section	Requirement	
<b>Chapter 1: Scope and Administration</b>				
<i>No changes.</i>				
<b>Chapter 2: Definitions</b>				
-	-	202	Definitions: Copper alloy	New definition added for copper alloy metals as this term is used throughout the FBCP.
-	-	202	Definitions: Dual flushing device	A new definition has been added for dual flushing devices that allow the user to flush a water closet with either a reduced or full volume of water depending upon the bowl contents.
-	-	202	Definitions: Group wash fixture	A new definition for group wash fixture has been added. A group wash fixture is defined as a type of lavatory that allows more than one person to utilize the fixture at the same time.
-	-	202	Definitions: Push-fit fitting	A new definition for push-fit fitting has been added that is defined as a mechanical fitting that joins pipes or tubes and achieves a seal by mating the pipe or tube into the fitting.
202	Definitions: Public or public utilization	202	Definitions: Public or public utilization	The list of sites that public utilization applies to has been deleted. The revised language simply defines public or public utilization as fixtures with unrestricted exposure to walk-in traffic.
202	Private	202	Private	The list of sites that private applies has been deleted. The revised language simply defines private as fixtures that are not public.
-	-	202	Definitions: Service sink	A new definition of service sink has been added and is defined as a sink exclusively intended to be used for facilitating the cleaning of a building or tenant space.
202	Water dispenser	202	Water dispenser	The language that included a freestanding apparatus for the same purpose that is not connected to the potable water distribution

				system, has been deleted from the definition of water dispenser.
<b>Chapter 3: General Regulations</b>				
308.2	Piping seismic supports	-	-	Section deleted and shown as Reserved.
308.9	Parallel water distribution systems	308.9	Parallel water distribution systems	Section revised to refer to Section 607.5 for insulation requirements for hot water piping where hot water piping is bundled with cold water piping.
312.6	Gravity sewer test	312.6	Gravity sewer test	The requirement that the gravity sewer test be conducted by filling the building sewer with not less than a 5-foot head of water has been deleted. Building sewers are now required to be tested by completely filling the building sewer with water from the lowest to the highest point.
312.10.2	Testing (backflow prevention)	312.10.2	Testing (backflow prevention)	New language has been added requiring test gauges to comply with ASSE 1064.
-	-	314.1.1	Identification (condensate disposal, fuel-burning appliance)	New section added requiring the termination of concealed condensate piping to be marked to indicate whether the piping is connected to the primary or secondary drain.
-	-	314.2.1.1	Condensate discharge	New section added specifying the appropriate locations for receiving condensate waste and prohibits discharge to any plumbing drain, waste or vent pipe and into any plumbing fixture other than a floor sink, floor drain, trench drain, mop sink, hub drain, standpipe, utility sink or laundry sink.
314.2.2	Drain pipe materials and sizes	314.2.2	Drain pipe materials and sizes	Section revised to permit the use of PE-RT and PVDF pipe materials.
-	-	314.2.3.3	Identification (auxiliary and secondary drain systems)	New section added requiring the termination of concealed condensate piping to be marked to indicate whether the piping is connected to the primary or secondary drain.
<b>Chapter 4: Fixtures, Faucets and Fixture Fittings</b>				
Table 403.1	Minimum Number of Required Plumbing Fixtures	Table 403.1	Minimum Number of Required Plumbing Fixtures	Pools have been removed from the assembly classification and Note f has

				been revised to apply to both indoor and outdoor public swimming pools.
403.1.1	Fixture calculations	403.1.1	Fixture calculations	<p>New Exception 2 has been added permitting the minimum fixture count to be calculated 100 percent based on total occupant load where multiple-user facilities are designed to serve all genders. In such multiple-user user facilities, each fixture type is required to be in accordance with ICC A117.1 and each urinal that is provided is required to be located in a stall.</p> <p>New Exception 3 provides exemption to distribution of the sexes where single-user water closets and bathing room fixtures are provided in accordance with Section 403.1.2</p>
403.1.2	Single-user toilet facility and bathing room fixture	403.1.2	Single-user toilet and bathing room fixture	New language added permitting the total number of fixtures to be based on the required number of separate facilities or based on the aggregate of any combination of single-user or separate facilities
403.2	Separate facilities	403.2	Separate facilities	<p>A new exception (Exception 5) has been added to providing separate facilities for single-user toilet rooms provided in accordance with Section 403.1.2.</p> <p>A new exception (Exception 6) has been added to providing separate facilities where rooms having both water closets and lavatory fixtures are designed for use by both sexes and privacy for water closets is provided in accordance with Section 405.3.4. Urinals are required to be located in an area visually separated from the remainder of the facility or each urinal that is provided is required to be located in a stall.</p>
403.3.1	Access (public toilet facilities)	403.3.1	Access (public toilet facilities)	The requirement that routes comply with the FBC Accessibility has been deleted.

403.3.3	Location of toilet facilities in occupancies other than malls	403.3.3	Location of toilet facilities in occupancies other than malls	New Exception 2 permits the location and maximum distances of travel to required public and employee facilities in Group S occupancies to exceed that required by this section, provided that the location and maximum distance of travel are approved.
403.5	Drinking fountain location	403.5	Drinking fountain location	The requirement that drinking fountains be located on an accessible route has been deleted.
403.6	Sanitary facilities for public swimming pools	403.6	Sanitary facilities for public swimming pools	The reference to unisex restrooms and associated requirements have been deleted. New language simply requires restrooms to include a water closet, a diaper change table, and a lavatory. Diaper changing tables are not required at restrooms where all pools served are restricted to adult use only.
403.6.1	Required fixtures	403.6.1	Required fixtures	The requirement that an additional set of fixtures be provided in the men's restroom for every 7,500 square feet for pools greater than 10,000 square feet has been deleted. The requirement that women's restrooms have a ratio of three to two water closets provided for women as the combined total of water closets and urinals provided for men has been deleted. The requirement that lavatory counts be equal has been deleted.
Table 403.6	Public Swimming Pool-Required Fixture Count	Table 403.6	Public Swimming Pool-Required Fixture Count Per Square Foot of Pool Surface	The required fixture square footage thresholds have been revised. The required number of fixtures has been revised to require one additional fixture for each additional square footage threshold specified. The new table will require slightly more water closets for men and slightly fewer water closets for women. Urinals are no longer required by the table. Note a has been deleted.
-	-	403.8	Service sink location	New section added exempting service sinks from being required to be located in

				individual tenant spaces in a covered mall provided that service sinks are located within a distance of travel of 300 feet of the most remote location in the tenant space and not more than one story above or below the tenant space
404	Accessible Plumbing Facilities	-	-	Section deleted and shown as Reserved.
405.3.1	Water closets, urinals, lavatories and bidets (installation of fixtures)	405.3.1	Water closets, urinals, lavatories and bidets (installation of fixtures)	Section revised to clarify that lavatories must be installed to meet the 15-inch separation from the center of the fixture to any obstruction.  The exception for accessible children's water closets has been deleted.
405.4.3	Securing wall-hung water closet bowls	405.4.3	Securing wall-hung water closet bowls	Concealed metal carriers for wall-hung water closet bowls are now permitted to comply with ASME A112.6M.
407.2	Bathtub waste outlets and overflows	407.2	Bathtub waste outlets and overflows	Overflow outlets are no longer required on bathtubs. New language has been added requiring overflows to be not less than 1 ½ inches in diameter if installed.
408.1	Approval (bidets)	408.1	Approval (bidets)	Section revised to permit bidets conforming to ASME A112.19.3/CSA B45.4.
408.3	Bidet water temperature	408.3	Bidet water temperature	The reference to CSA B125.3 for water temperature limiting devices has been deleted.
410.1	Approval (drinking fountains)	410.1	Approval (drinking fountains)	Section revised to permit drinking fountains conforming to ASME A112.19.3/CSA B45.4.
410.4	Substitution (drinking fountains)	410.4	Substitution (drinking fountains)	Where water dispensers are permitted to be substituted for not more than 50 percent of the required number of drinking fountains in occupancies other than restaurants is now limited to where three or more drinking fountains are required.
411.3	Water supply (emergency showers and eyewash stations)	411.3	Water supply (emergency showers and eyewash stations)	New language has been added requiring water heaters to comply with ASSE 1085 where water is supplied directly to an emergency shower or eyewash station from a water heater.

412.3	Individual shower valves	412.3	Individual shower valves	<p>New language has been added requiring shower control valves to be rated for the flow rate of the installed showerhead.</p> <p>New language has been added regarding field adjustment to specifically require the field adjustment of the temperature limiting devices to not exceed 120 °F.</p>
412.4	Multiple (gang) showers	412.4	Multiple (gang) showers	<p>New language has been added requiring shower control valves for individually controlled showerheads to be rated for the flow rate of the installed showerhead.</p> <p>New language has been added regarding field adjustment to specifically require the field adjustment of the temperature limiting devices to not exceed 120 °F.</p> <p>Access now required to be provided to a ASSE 1069 or CSA B125.3 valve.</p>
412.5	Bathtub and whirlpool bathtub valves	412.5	Bathtub and whirlpool bathtub valves	<p>Section revised to add specific language requiring field adjustment of temperature limiting devices to not-to-exceed temperature. New language requires access be provided for temperature limiting devices in accordance with ASSE 10705/ASME A112.1070/ CSA B125.70. An exception to the new access requirements has been added for valves that have integral water temperature limiting devices that comply with ASSE 10705/ASME A112.1070/ CSA B125.70.</p>
412.10	Head shampoo sink faucets	412.10	Head shampoo sink faucets	<p>Water heaters conforming to ASSE 1082 and temperature actuated flow reduction devices conforming to ASSE 1062 are now permitted as means for regulating the maximum temperature of hot water at head shampoo sink faucets.</p>

-	-	412.11	Pre-rinse spray valve	A new section has been added requiring spray valves for commercial food service to conform to ASME A112.18.1/CSA B125.1.
416.1	Approval (food waste disposer units)	416.1	Approval (food waste disposer units)	New language has been added requiring commercial food waste disposers to be listed and labeled in accordance with UL 430.
419.1	Approval (lavatories)	419.1	Approval (lavatories)	Section revised to clarify the 20 inches of rim space is only used for determining number of lavatories that are specified in Table 403.1.
419.3	Lavatory waste outlet	419.3	Lavatory waste outlet	Section revised to include group wash fixtures within its scope.
419.5	Water for public hand-washing facilities	419.5	Water for public hand-washing facilities	The reference to CSA B125.3 for water-temperature limiting devices has been deleted.
421.1	Approval (showers)	421.1	Approval (showers)	Section revised to permit the use of prefabricated showers and shower compartments complying with ASME A112.19.2/CSA B45.2 and ASME A112.19.3/CSA B45.4.
-	-	421.3.1	Waste fittings (shower waste outlet)	A new section has been added requiring waste fittings for shower waste outlets to conform to ASME A112.18.2/CSA B125.2.
423.3	Footbeds and pedicure baths	423.3	Footbeds and pedicure baths	The reference to CSA B125.3 for water-temperature limiting devices has been deleted.  New language has been added permitting the use of water heaters complying with ASSE 1082 as a means to limit the temperature of water supplied to specialty fixtures such as pedicure chairs having an integral foot bathtub and footbath.
-	-	423.5	Secondary waterproofing	New section added requiring specific waterproofing requirements for ornamental basins, spas and swimming pools installed over a building.



425.1	Approval (water closets)	425.1	Approval (water closets)	The reference to electro-hydraulic water closets complying with ASME A112.19.2/CSA B45.1 has been deleted.
-	-	425.1.3	Dual flush water closets	A new section has been added requiring water closets that are equipped with a dual flushing device to comply with ASME A112.19.14.
<b>Chapter 5: Water Heaters</b>				
501.2	Water heater as space heater	501.2	Water heater as space heater	New language has been added referencing the FBCM for requirements for combination potable water heating and space heating systems.
502.4	Seismic supports	-	-	Section deleted and shown as Reserved.
<b>Chapter 6: Water Supply and Distribution</b>				
602.3.5	Pumps	602.3.5	Pumps	Section revised to require pumps intended to supply drinking water to conform to NSF 61.
Table 605.3	Water Service Pipe	Table 605.3	Water Service Pipe	ASTM B43 has been added as a reference standard for copper and copper-alloy pipe.  ASTM A269 has been added as a reference standard for stainless steel pipe.
Table 605.5	Pipe Fittings	Table 605.5	Pipe Fittings	ASTM F3226 has been added as a reference standard for copper and copper-alloy pipe.  ASTM F3226 has been added as a reference standard for stainless steel pipe.
605.12.3	Solder joint (copper pipe)	605.12.3	Solder joint (copper pipe)	New language has been added requiring solder and flux joined pipe or fittings intended to supply drinking water to conform to NSF 61.
605.13.6	Solder joint (copper tubing)	605.13.6	Solder joint (copper tubing)	New language has been added requiring solder and flux joined pipe or fittings intended to supply drinking water to conform to NSF 61.
606.1	Location of full-open valves (water distribution system)	606.1	Location of full-open valves (water distribution system)	Section revised to require the installation of a main shutoff valve for each tenant in multiple-tenant buildings, where a common water supply piping system is installed to

				supply other than one- and two-family dwellings.
606.7	Labeling of water distribution pipes in bundles	-	-	Section deleted and shown as Reserved.
607.1.1	Temperature limiting means (hot water supply system)	607.1.1	Temperature limiting means (hot water supply system)	The restriction on the use of the water heater thermostat for regulating water temperature has been removed. Water heater thermostats are now permitted to regulate water temperature on water heaters complying with ASSE 1082 or ASSE 1085.
607.1.2	Tempered water temperature control	607.1.2	Tempered water temperature control	Three new options have been added for controlling the temperature of tempered water: <ul style="list-style-type: none"> <li>• Thermostatic mixing valve conforming to ASSE 1017</li> <li>• Water heater conforming to ASSE 1082</li> <li>• Water heater conforming to ASSE 1084</li> </ul>
Table 608.1	Application of Backflow Preventers	Table 608.1	Application of Backflow Preventers	Backflow preventers with intermediate atmospheric vent and pressure-reducing valves have been added to the table. They are required to conform to ASSE 1081 and are considered low hazard.
608.14.3	Backflow preventer with intermediate atmospheric vent	608.14.3	Backflow preventer with intermediate atmospheric vent	ASSE 1081 has been added as a reference standard for backflow preventers with intermediate atmospheric vents.
608.15.2.1	Relief port piping (location of backflow preventers)	608.15.2.1	Relief port piping (location of backflow preventers)	New language has been added requiring the indirect waste receptor and drainage piping to be sized to drain the maximum discharge flow rate from the relief port as published by the backflow preventer manufacturer.
608.17.2	Connections to boilers (potable water system)	608.17.2	Connections to boilers (potable water system)	ASSE 1081 has been added as a reference standard for backflow preventers with intermediate atmospheric vents.
608.18	Protection of individual water supplies	-	-	Section deleted and shown as Reserved.

609.2	Water service (hospitals)	609.2	Water service for Group I-2, Condition 2	Section revised to set specific requirements for the service lines into Group I-2, Condition 2 buildings, with directions for capacity redundancy
-	-	609.2.1	Tracer wire for nonmetallic piping	A new section has been added requiring the installation of an insulated tracer wire or other approved conductor adjacent to underground nonmetallic piping serving as a water service for a hospital to facilitate the ability to locate nonmetallic water service piping when installed underground.
<b>Chapter 7: Sanitary Drainage</b>				
Table 702.3	Building Sewer Pipe	Table 702.3	Building Sewer Pipe	ASTM D2680 has been added as a reference standard for ABS plastic pipe.
Table 702.4	Pipe Fittings	Table 702.4	Pipe Fittings	ASME A112.4.4 has been added as a reference standard for ABS plastic pipe in IPS diameters.  ASME A112.4.4 has been added as a reference standard for PVC plastic pipe in IPS diameters.
705.2.1	Mechanical joints	705.2.1	Mechanical joints	Section revised for clarity.
-	-	705.2.4	Push-fit joints (ABS)	A new section has been added requiring push-fit DWV fittings to be listed and labeled to ASME A112.4.4 and be installed in accordance with the manufacturer's instructions.
-	-	705.2.4	Push-fit joints (PVC)	A new section has been added requiring push-fit joints to conform to ASME A112.4.4 and be installed in accordance with the manufacturer's instructions.
-	-	708.1.12	Cleanout equivalent	New section added permitting a fixture trap of a fixture with an integral trap that is removable without altering concealed piping as a cleanout equivalent.
-	-	717	Relining Building Sewers and Building Drains	New section added providing installation and acceptance criteria for relining of existing building sewers and building drainage piping. This method is limited to

				gravity drainage piping 4 inches in diameter and larger.
-	-	718	Rehabilitation of Building Sewers and Building Drains	New section added permitting sectional cure-in-place rehabilitation of building sewer piping and sewer service lateral piping in accordance with ASTM F2599.
<b>Chapter 8: Indirect/Special Waste</b>				
<i>No changes.</i>				
<b>Chapter 9: Vents</b>				
903.1	Roof extension (vent terminal)	903.1	Vent terminal required	Vent terminal requirements have been reorganized for clarity.  A new vent terminal option has been added allowing the vent to terminate 2 inches above a sloped roof when protected by a covering. Protected vent terminals include those covered by photovoltaic solar collectors or other architectural features that hide the vent for aesthetic purposes.
		903.1.1	Roof extension unprotected	
		903.1.2	Roof used for recreational or assembly purposes	
		903.1.3	Protected vent terminal	
903.6	Extension through the wall	903.1.4	Sidewall vent terminal	
915.1	Type of fixtures (combination waste and vent system)	915.1	Type of fixtures (combination waste and vent system)	The prohibition of combination waste and vent systems receiving discharge from a food waste disposer has been deleted.
<b>Chapter 10: Traps, Interceptors and Separators</b>				
1002.1	Fixture traps	1002.1	Fixture traps	Exception 3, applicable to grease interceptors intended to serve as a fixture trap, has been deleted.  A new exception has been added for hydromechanical grease interceptors serving food utensil, dishes, pots and pans sinks. An emergency floor drain is required to be provided to relieve the pressure on the fixture drain to prevent backup into sink should the drain system back up.
-	-	1002.4.1.5	Fixture drain connection for trap priming (trap seals)	A new section has been added permitting a fixture drain from a lavatory or hand sink to serve as a method of providing trap seal protection for an emergency floor drain, a trench drain or a floor sink where such fixtures are located in the same room. A

				fixture drain from a drinking fountain is permitted to serve as a method of providing trap seal protection for an emergency floor drain, a trench drain or a floor sink where such fixtures are in the same room or in a room adjacent to the room having the drinking fountain.
<b>Chapter 11: Storm Drainage</b>				
1102.6	Roof drains (materials)	1102.6	Roof drains (materials)	New language has been added requiring roof drains, other than siphonic roof drains, to be tested and rated in accordance with ASME A112.6.4 or ASPE/IAPMO Z1034.
1106.2	Size of storm drain piping	1106.2	Size of storm drain piping	Section revised to require the flow rate, as calculated in new Section 1106.2.1, to be checked against the roof drain manufacturer's published flow rate for the specific roof drain model and size to verify that the selected roof drain will handle the anticipated flow.  A new section has been added providing a methodology for converting rainfall rates from inches per hour to gallons per minute to correlate with the storm drain pipe sizing tables.
-	-	1106.2.1	Rainfall rate conversion method	
<b>Chapter 12: Special Piping and Storage Systems</b>				
1202.1	Nonflammable medical gas	1202.1	Nonflammable medical gas	Section revised to require nonflammable medical gas systems, inhalation anesthetic systems and vacuum piping systems to be tested and labeled in accordance with NFPA 99.
<b>Chapter 13: Nonpotable Water Systems</b>				
1301.1	Scope	1301.1	General	Section revised to permit the use of CSA B805/ICC 805 as an alternative to Chapter 13 for regulating the materials, design, construction and installation of systems for rainwater collection, storage, treatment and distribution of nonpotable water.
-	-	1301.1.1	Alternate compliance path	A new section has been added permitting compliance with CSA B805/ICC 805 for

				nonpotable uses as an alternative to Chapter 13.
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