## 1 Exam Prep Tab

<table>
<thead>
<tr>
<th>Tab</th>
<th>Section/Page #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table of Contents</td>
<td>Pg. vii</td>
</tr>
<tr>
<td>Piping Support</td>
<td>308</td>
</tr>
<tr>
<td>Minimum Plumbing Facilities</td>
<td>403</td>
</tr>
<tr>
<td>Materials, Joints &amp; Connections</td>
<td>605</td>
</tr>
<tr>
<td>Protection of Potable Water Supply</td>
<td>608</td>
</tr>
<tr>
<td>Joints</td>
<td>705</td>
</tr>
<tr>
<td>Cleanouts</td>
<td>708</td>
</tr>
<tr>
<td>Drainage System Sizing</td>
<td>710</td>
</tr>
<tr>
<td>Healthcare Plumbing</td>
<td>713</td>
</tr>
<tr>
<td>Permit Schedule Fee</td>
<td>Appendix A</td>
</tr>
<tr>
<td>Rates of Rainfall</td>
<td>Appendix B</td>
</tr>
<tr>
<td>Vacuum Drainage System</td>
<td>Appendix C</td>
</tr>
<tr>
<td>Degree Day &amp; Design Temp.</td>
<td>Appendix D</td>
</tr>
<tr>
<td>Sizing of Water Piping System</td>
<td>Appendix E</td>
</tr>
<tr>
<td>Turf, Irrigation &amp; Landscape</td>
<td>Appendix F</td>
</tr>
<tr>
<td>Structural Safety</td>
<td>Appendix G</td>
</tr>
</tbody>
</table>

***This concludes the tabs for this book. Please continue with the highlights on the following page.***
<table>
<thead>
<tr>
<th>Section #</th>
<th>Highlight</th>
</tr>
</thead>
<tbody>
<tr>
<td>202</td>
<td><strong>General Definitions</strong>&lt;br&gt;- Backflow&lt;br&gt;- Back pressure, low head&lt;br&gt;- Backflow connection&lt;br&gt;- Backsiphonage&lt;br&gt;- Bedpan steamer or boiler&lt;br&gt;- Developed length&lt;br&gt;- Offset&lt;br&gt;- Potable water</td>
</tr>
<tr>
<td>305</td>
<td><strong>Protection of Pipes and Plumbing System Components</strong></td>
</tr>
<tr>
<td>306</td>
<td><strong>Trenching, Excavation and Backfill</strong></td>
</tr>
<tr>
<td>307</td>
<td><strong>Structural Safety</strong></td>
</tr>
<tr>
<td>307.5</td>
<td><strong>Trench location:</strong> Trenches installed parallel to footings shall not extend below the 45-degree bearing plane of the footing or wall.</td>
</tr>
<tr>
<td>308</td>
<td><strong>Piping Support</strong></td>
</tr>
<tr>
<td>308.5</td>
<td><strong>Interval of support:</strong> Pipe shall be supported in accordance with Table 308.5.</td>
</tr>
<tr>
<td>Table 308.5</td>
<td><strong>Hanger Spacing</strong></td>
</tr>
<tr>
<td>308.8</td>
<td><strong>Expansion joint fittings</strong></td>
</tr>
<tr>
<td>Table 308.5</td>
<td><strong>Hanger Spacing</strong></td>
</tr>
<tr>
<td>310</td>
<td><strong>Washroom and Toilet Room Requirements</strong></td>
</tr>
<tr>
<td>310.1</td>
<td><strong>Light and Ventilation:</strong> Washrooms and toilet rooms shall be illuminated and ventilated in accordance with the Florida Building Code, Building and the Florida Building Code, Mechanical.</td>
</tr>
<tr>
<td>312</td>
<td><strong>Tests and Inspections</strong></td>
</tr>
<tr>
<td>312.2</td>
<td><strong>Drainage and vent water test:</strong> If the system is tested in sections, each opening shall be tightly plugged except the highest openings … This pressure shall be held for not less than 15 minutes.</td>
</tr>
<tr>
<td>312.6</td>
<td><strong>Gravity sewer test:</strong> Gravity sewer tests shall consist of plugging the end of the building sewer at the point of connection … with not less than a 10-foot head of water and maintaining such pressure for 15 minutes.</td>
</tr>
</tbody>
</table>
Section # | Highlight
--- | ---
312.7 | **Forced sewer test**: Forced sewer tests shall consist of plugging the end of the building sewer at the point of connection with the public sewer and applying a pressure of 5 psi greater than the pump rating, and maintaining such pressure for 15 minutes.

318 | **Irrigation**

318.1 | **General**: Irrigation/sprinkler systems and risers for spray heads shall not be installed within 1 foot of the building sidewall.

402 | **Fixture Materials**

402.3 | **Sheet copper**: Sheet copper for general applications shall conform to ASTM B 152 and shall not weigh less than 12 ounces per square foot.

403 | **Minimum Plumbing Facilities**

403.1 | **Minimum number of fixtures**: Plumbing fixtures shall be provided for the type of occupancy and in the minimum number shown in Table 403.1.

Table 403.1 | **Minimum Number of Required Plumbing Fixtures**

403.1.3 | **Potty parity**

403.3.3 | **Location of toilet facilities in occupancies other than covered malls**: shall be located not more than one story above … shall not exceed a distance of 500 feet.

403.6 | **Sanitary facilities for public swimming pools**: Swimming pools with a bathing load of 20 persons or less may utilize a unisex restroom. Pools with bathing loads of 40 persons or less may utilize two unisex restrooms or meet the requirements of Table 403.6.

403.6.1 | **Required fixtures**: Fixtures shall be provided as indicated on Table 403.6.

An additional set of fixtures shall be provided in the men’s restroom for every 7,500 square feet or major fraction thereof for pools greater than 10,000 square feet.

Table 403.6 | **Public Swimming Pool – Required Fixtures Count**

405 | **Installation of Fixtures**

405.3.1 | **Water closets, urinals, lavatories and bidets**: A water closet, urinal, lavatory or bidet shall not be set closer than 15 inches from its center to any side wall … Water closet compartments shall be less than 30 inches in width and not less than 60 inches in depth for floor-mounted water closets and not less than 30 inches in width and 56 inches in depth for wall hung water closets.
405.8  
**Highlight**  
**Slip joint connections:** Fixtures with concealed slip-joint connections shall be provided with an access panel or utility space not less than 12-inches in its smallest dimension or other approved arrangement so as to provide access to the slip joint connections for inspection and repair.

409  
**Dishwashing Machines**

409.1  
**Approval:** Commercial dishwashing machines shall conform to ASSE 1004 and NSF 3.

411  
**Emergency Showers and Eyewash Stations**

411.2  
**Waste connection:** Waste connections shall not be required for emergency showers and eyewash stations.

413  
**Food Waste Grinder Units**

413.3  
**Commercial food waste grinder waste outlets:** Commercial food waste grinders shall be connected to a drain not less than 1 ½ inches in diameter.

413.4  
**Water supply required:** All food waste grinders shall be provided with a supply of cold water. The water supply shall be protected against backflow by an air gap or backflow preventer in accordance with Section 608.

417  
**Showers**

417.4.1  
**Wall area:** The wall area above built-in tubs with installed shower heads and in shower compartments shall be constructed of smooth ... to a height not less than 6 feet above the room floor level, and not less than 70 inches where measured from the compartment floor at the drain.

417.5.2.1  
**PVC sheets:** Plasticized polyvinyl chloride (PVC) sheets shall meet the requirements of ASTM D 4551. Sheets can be joined in accordance with the Manufacturer’s instructions.

417.5.2.2  
**Chlorinated polyethylene (CPE) sheets:** Nonplasticized chlorinated polyethylene sheet shall meet the requirements of ASTM D 4068. The liner shall be joined in accordance with the manufacturer’s installation instructions.

419  
**Urinals**

419.2  
**Substitution for water closets:** In each bathroom or toilet room, urinals shall not be substituted for more than 67 percent of the required water closets in assembly and educational occupancies.

421  
**Whirlpool Bathtubs**

421.3  
**Drain:** The pump drain and circulation piping shall be sloped to drain the water in the volute and the circulation piping when the whirlpool bathtub is empty.
Section # | Highlight
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425 | Flushing Devices for Water Closets and Urinals
425.1.1 | Separate for each fixture: A flushing device shall not serve more than one fixture.
501.2 | Water heater as space heater: Where a combination potable water heating and space heating system requires water for space heating at temperatures higher than 140 F … the potable hot water distribution system of 140 F or less.
502 | Installation
502.1.1 | Elevation and protection: Elevation of water heater ignition sources and mechanical damage protection requirements for water heaters, shall be in accordance with the Florida Building Code, Mechanical and the Florida Building Code, Fuel Gas.
502.5 | Clearances for maintenance and replacement: A level working space not less than 30 inches in length and 30 inches in width shall be provided in front of the control side to service and appliance.
503 | Connections
503.1 | Cold water line valve: The cold water branch line from the main water supply line to each hot water storage tank or water heater shall be provided with a valve, located near the equipment and serving only the hot water storage tank or water heater.
504 | Safety Devices
504.4 | Relief valve: Storage water heaters operating above atmospheric pressure shall be provided with an approved, self-closing pressure relief valve and temperature relief valve or combination thereof.
504.7 | Required pan: Where a storage tank-type water heater or a hot water storage tank is installed in a location … galvanized steel pan having a material thickness of not less than 0.0236 inch (No. 24 gage), or other pans approved for such use.
504.7.1 | Pan size and drain: The pan shall be not less than 1 ½ inches in depth and shall be of sufficient size … having a diameter of not less than ¾ inch. Piping for safety pan drains shall be of those materials listed in Table 605.4.
504.7.2 | Pan drain termination: The pan drain shall extend full-size and terminate over a suitably located … and terminate not less than 6 inches and not more than 24 inches above the adjacent ground surface.
505 | Insulation
505.1 | Unfired vessel insulation: Unfired hot water storage tanks shall be insulated to R-12.5.
Section # | Highlight
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603 | Water Service
603.1 | **Size of water service pipe**: The water service pipe shall be not less than ¾ inch in diameter.
603.2 | **Separation of water service and building sewer**: Water service pipe and the building sewer shall be separated by not less than 5 feet of undisturbed or compacted earth.

Exceptions: 1 -3.

604 | Design of Building Water Distribution System
604.3 | **Water distribution system design criteria**: The water distribution system shall be designed, and pipe sizes shall be selected such that under conditions of peak demand, the capacities at the fixture supply pipe outlets shall not be less than shown in Table 604.3.

Table 604.3 | Water Distribution System Design Criteria Required Capacity at Fixture Supply Pipe Outlets

604.5 | **Size and fixture supply**: The minimum size of a fixture supply pipe shall be shown in Table 604.5.

604.7 | **Inadequate water pressure**: Wherever water pressure from the street main or other source of supply is insufficient to provide flow pressures at fixture outlets as required under table 604.3, a water pressure booster system conforming to Section 606.5 shall be installed on the building water supply system.

Table 604.5 | Minimum Sizes of Fixture Water Supply Pipes

605 | Materials, Joints and Connections
605.3 | **Water service pipe**: water service pipe or tubing, installed underground and outside the structure, shall have a working pressure rating of not less than 160 psi at 73.4 F.

605.4 | **Water distribution pipe**: water distribution pipe shall conform to NSF 61 and shall conform to one of the standards listed in Table 605.4. Hot water distribution pipe and tubing shall have a pressure rating of not less than 100 psi at 180 F.

Table 605.4 | Water Distribution Pipe

605.9 | **Prohibited joints and connections**: The following types of joints and connections shall be prohibited: 1-4.

606 | Installation of the Building Water Distribution System
**Section #** | **Highlight**
--- | ---
606.5.1 | **Water pressure booster system required:** Where the water pressure in the public water main or individual water supply system is insufficient … pressure booster pump installed in accordance with Section 606.5.5.

606.5.5 | **Potable water inlet control and location:** Potable water inlets to gravity tanks shall be controlled by a fill valve … The inlet shall be terminated so as to provide an air gap not less than 4 inches above the overflow.

608 | **Protection of Potable Water Supply**

608.8 | **Identification of non-potable water:** All non-potable water outlets such as hose connections … The letters of the words shall be not less than 0.5 inches in height and in colors in contrast to the background on which they are applied.

608.8.2 | **Color:** The color of pipe identification shall be discernible and consistent throughout the building. The color purple shall be used to identify reclaimed, rain and gray water distribution systems.

608.15.4 | **Protection by a vacuum breaker:** The critical level of the vacuum breaker shall be set not less than 6 inches above the flood level rim of the fixture or device.

Pipe applied vacuum breakers shall be installed not less than 6 inches above the flood level rim of the fixture, receptor or device served.

608.16.5 | **Connections to lawn irrigation systems:** Where systems are under continuous pressure contain chemical additives … backflow prevention assembly or a reduced pressure principle fire protection backflow prevention assembly.

Where systems are not under continuous pressure, the potable water supply shall be protected against backflow by an air gap or an atmospheric vacuum breaker conforming to ASSE 1001 or CSA B64.1.1.

610 | **Disinfection of Potable Water System**

702 | **Materials**

702.2 | **Underground building sanitary drainage and vent pipe:** Underground building sanitary damage and vent pipe shall conform to one of the standards listed in Table 702.2.

702.5 | **Chemical waste system:** A chemical waste system shall be completely separated from the sanitary drainage system.

Table 702.2 | **Underground Building Drainage and Vent Pipe**

704 | **Drainage Piping Installation**
Section # | Highlight
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704.1 | **Slope of horizontal drainage piping**: Horizontal drainage piping shall be installed in uniform alignment at uniform slopes. The minimum slope of a horizontal drainage pipe shall be in accordance with Table 704.1.

Table 704.1 | **Slope of Horizontal Drainage Piping**

705 | **Joints**

705.1 | **General**: The section contains provisions applicable to joints specific to sanitary drainage piping.

705.2 | **ABS plastic**: Joints between ABS plastic pipe or fittings shall comply with Sections 705.2.1 through 705.2.3.

705.3 | **Asbestos cement**: Joints between asbestos-cement pipe or fittings shall be made with a sleeve coupling of the same composition as the pipe, sealed with an elastomeric ring conforming to ASTM D 1869.

705.5 | **Cast iron**: Joints between cast iron pipe or fittings shall comply with sections 705.1 through 705.5.3.

705.5.2 | **Compression gasket joints**: Compression gaskets for hub and spigot pipe and fittings shall conform to ASTM C 564 and shall be tested to ASTM C 1563. Gaskets shall be compressed when the pipe is fully inserted.

705.5.3 | **Mechanical joint coupling**: Mechanical joint couplings for hubless pipe and fittings shall comply with … or ASTM C 1540.

705.13.2 | **Wiped**: Joints shall be fully wiped with an exposed surface on each side of the joint not less than ¾ inch. The joint shall be at least 0.325 inch thick at the thickest point.

705.14.2 | **Solvent cementing**: Joint surfaces shall be clean and free from moisture. A purple primer that conforms to ASTM F 656 shall be applied.

705.16 | **Polyethylene plastic pipe**: Joints between polyethylene plastic pipe and fittings shall be underground and shall comply with section 705.16.1 or 705.16.2.

705.16.1 | **Heat-fusion joints**: Joints shall be undisturbed until cool. Joints shall be made in accordance with ASTM D 2657 and the manufacturer’s instructions.

705.16.2 | **Mechanical joints**: Mechanical joints in drainage piping shall be made with an elastomeric seal conforming to ASTM C 1173 … or CSA B602.

705.17 | **Polyolefin plastic**: Joints between polyolefin plastic pipe and fittings shall comply with Sections 705.17.1 and 705.17.2.
### 705.17.1
**Heat-fusion joints:** Joint surfaces shall be clean and free from moisture … in accordance with ASTM F 412 or CSA B1813.

### 705.17.2
**Mechanical and compression sleeve joints:** Mechanical and compression sleeve joints shall be installed in accordance with the manufacturer’s instructions.

### 705.19
**Joints between different materials:** Joints between different piping materials shall be made with a mechanical joint of the compression or mechanical-sealing type conforming to ASTM C 1173, ASTM C 1460 or ASTM C 1461.

### 705.19.4
**Plastic pipe or tubing to other piping material:** Joints between different types of plastic pipe or between plastic pipe … shall be made by a caulked joint or a mechanical compression joint.

### 705.22
**Soldering bushings:** Soldering bushings shall be of red brass and shall be in accordance with Table 705.22.

**Table 705.22**
**Soldering Bushing Specifications**

### 706
**Connections between Drainage Piping and Fittings:**

### 706.2
**Obstructions:** The fittings shall not have ledges, shoulders, or reductions capable of retarding or obstructing flow in the piping. Threaded drainage pipe fittings shall be of the recessed drainage type.

### 706.3
**Installation of fittings:** Fittings shall be installed to guide sewage and waste in the direction of flow. Change in direction shall be made by fittings installed in accordance with Table 706.3.

**Table 706.3**
**Fittings for Change in Direction**

### 706.4
**Heel- or side- inlet quarter bends:** Heel-inlet quarter bends shall be an acceptable means of connection, except where the quarter bend serves a water closet.

### 707
**Prohibited Joints and Connections**

### 708
**Cleanouts**

### 708.3.1
**Horizontal drains within buildings:** All horizontal drains shall be provided with cleanouts located not more than 100 feet apart.

### 708.3.2
**Building sewers:** Building sewers shall be provided with cleanouts located not more than 100 feet apart … at intervals of not more than 400 feet apart.

### 708.7
**Minimum size:** Cleanouts shall be the same nominal size as the pipe they serve up to 4 inches. For pipes larger than 4 inches nominal size, the size of the cleanout shall be not less than 4 inches.
708.8  **Clearances**: Cleanouts on 6-inch and smaller pipes shall be provided with a clearance of not less than 18-inches for rodding. Cleanouts on 8-inch and larger pipes shall be provided with a clearance of not less than 36 inches for rodding.

709  **Fixture Units**

709.1  **Values for fixtures**: Drainage fixture unit values as given in Table 709.1 designate the relative load weight … in connection with Tables 710.1(1) and 710.1(2) of sizes for soil, waste and vent pipes for which the permissible load is given in terms of fixture units.

709.3  **Values for continuous and semicontinuous flow**: Drainage fixture unit values for continuous and semicontinuous flow into s drainage system shall be computed on the basis that 1 gpm of flow is equivalent to two fixture units.

710  **Drainage System Sizing**

710.1  **Maximum fixture unit load**: The maximum number of drainage fixture units connected to a given size of building sewer … The maximum number of drainage fixture units connected to a given size horizontal branch or vertical soil or waste stack shall be determined using Table 710.(2).

Table 710.1(1)  **Building Drains and Sewers**

Table 709.1  **Drainage Fixtures Units for Fixture Drains or Traps**

Table 710.1(2)  **Horizontal Fixture Branches and Stacks**

711  **Offsets in Drainage Piping in Buildings of Five Stories or More**

711.2  **Horizontal stack offsets**: A stack with a horizontal offset located more than four branch intervals below the stack shall be vented in accordance with Section 907 and sized as follows: 1-3.

712  **Sumps and Ejectors**

712.2  **Valves required**: A check valve and a full open valve located on the discharge side of the check valve shall be installed in the pump or ejector discharge piping between the pump or ejector and the gravity drainage system. Access shall be provided to such valves.

712.3.2  **Sump pit**

712.3.4  **Maximum effluent level**: The effluent level control shall be adjusted and maintained …from rising within 2 inches of the invert of the gravity drain inlet into the sump.

713  **Health Care Plumbing**
### Section #  
<table>
<thead>
<tr>
<th>Highlight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>713.7</strong> <strong>Central vacuums or disposals systems:</strong> Where the waste from a central vacuum (fluid suction) system of the barometric-lag, collection-tank or bottle-disposal type is connected to the drainage system, the waste shall be directly connected to the sanitary drainage system through a trapped waste.</td>
</tr>
<tr>
<td><strong>713.9</strong> <strong>Local vents and stacks for bedpan washers:</strong> The local vent for a bedpan washer shall not be less than a 2-inch diameter pipe.</td>
</tr>
<tr>
<td><strong>713.9.1</strong> <strong>Multiple installations:</strong> Not more than three bedpan washers shall be connected to a 2-inch local vent stack, not more than six to a 3-inch local vent stack and not more than 12 to a 4-inch local vent stack.</td>
</tr>
<tr>
<td><strong>713.11.2</strong> <strong>Boiling-type sterilizers:</strong> The size of a sterilizer vent stack shall not be less than 2 inches in diameter where serving a utensil sterilizer not less than 1 ½ inches in diameter where serving an instrument sterilizer.</td>
</tr>
<tr>
<td><strong>802</strong> <strong>Indirect Wastes</strong></td>
</tr>
<tr>
<td><strong>802.1</strong> <strong>Where required:</strong> All health-care related fixtures, devices and equipment shall discharge to the drainage system through an indirect waste pipe by means of an air gap in accordance with this chapter and Section 713.3.</td>
</tr>
<tr>
<td><strong>802.1.1</strong> <strong>Food handling:</strong> Equipment and fixtures utilized for the storage, preparation and handling of food shall discharge through an indirect water pipe by means of an air gap.</td>
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<td><strong>802.1.2</strong> <strong>Floor drains in food storage areas</strong></td>
</tr>
<tr>
<td><strong>802.1.4</strong> <strong>Swimming pools:</strong> Where wastewater from swimming pools, backwash from filters and water from pool deck drains … the discharge shall be through an indirect waste pipe by means of an air gap.</td>
</tr>
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<td><strong>802.1.5</strong> <strong>Non-potable clear-water waste:</strong> Where devices and equipment such as process tanks, filters, drips and boilers discharge nonpotable water to the building drainage system, the discharge shall be through an indirect waste pipe by means of an air break or an air gap.</td>
</tr>
<tr>
<td><strong>802.1.7</strong> <strong>Commercial dishwashing machines:</strong> The discharge from a commercial dishwashing machine shall be through an air gap or air break in to the standpipe or waste receptor in accordance with Section 802.2.</td>
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<tr>
<td><strong>802.3</strong> <strong>Waste receptors</strong></td>
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<td><strong>802.3.2</strong> <strong>Open hub waste receptors:</strong> Waste receptors shall be permitted in the form of a hub or pipe extending not less than 1 inch above a water-impervious floor and are not required to have a strainer.</td>
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<tr>
<td><strong>802.4</strong> <strong>Standpipes:</strong> Standpipes shall be individually trapped. Standpipes shall extend … Access shall be provided for all standpipes and drains for rodding.</td>
</tr>
<tr>
<td>Section #</td>
</tr>
<tr>
<td>-----------</td>
</tr>
<tr>
<td>804</td>
</tr>
<tr>
<td>902</td>
</tr>
<tr>
<td>902.2</td>
</tr>
<tr>
<td>902.3</td>
</tr>
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<td>903</td>
</tr>
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<td>903.1</td>
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<td>905</td>
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<tr>
<td>905.5</td>
</tr>
<tr>
<td>909</td>
</tr>
<tr>
<td>909.3</td>
</tr>
<tr>
<td>Table 909.1</td>
</tr>
<tr>
<td>912</td>
</tr>
<tr>
<td>912.1</td>
</tr>
<tr>
<td>913</td>
</tr>
</tbody>
</table>
Section # | Highlight
--- | ---
913.2 | **Stack installation:** The waste stack shall be vertical, and both horizontal and vertical offsets shall be prohibited between the lowest fixture drain connection and the highest fixture drain connection.

913.4 | **Waste stack size:** The waste stack shall be sized based on the total discharge to the stack and the discharge within branch interval in accordance with Table 913.4.

Table 913.4 | **Waste Stack Vent Size**

914 | **Circuit Venting**

914.1 | **Circuit vent permitted:** A maximum of eight fixtures connected to a horizontal branch drain shall be permitted to be circuit vented.

915 | **Combination Drain and Vent System**

915.1 | **Type of fixtures:** A combination drain and vent system shall not serve fixtures … combination drain and vent systems shall not receive the discharge from a food waste grinder or clinical sink.

1002 | **Trap Requirements**

1002.1 | **Fixture traps:** The vertical distance from the fixture outlet to the trap weir shall not exceed 24 inches, and the horizontal distance shall not exceed 30 inches measured from the centerline of the fixture outlet to the centerline of the inlet of the trap.

A fixture shall not be double trapped.

**Exceptions:** 1 - 4.

1002.2 | **Design of traps:** Slip joints shall be made with an approved elastomeric gasket and shall be installed only on the trap inlet, trap outlet and within the trap seal.

1002.4 | **Trap seals:** Each fixture trap shall have a liquid seal of not less than 2 inches and not more than 4 inches, or deeper for special designs relating to accessible fixtures.

1003 | **Interceptors and Separators**

1003.1 | **Where required:** Interceptors and separators shall be provided to prevent the discharge of oil, grease, sand and other substances harmful or hazardous to the public sewer, the private sewage system or the sewage treatment plant or processes.

1003.5 | **Grease interceptors for onsite sewage treatment and disposal systems:** Grease interceptors are not required for a residence.
Section # | Highlight
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1003.6 | Laundries: Laundry facilities not installed within an individual dwelling unit or intended for individual family use … into the drainage system of solids ½ inch or larger in size, string, rags, buttons or other materials detrimental to the public sewage system.

1003.11 | Sand interceptors in commercial establishments. Sand and similar interceptors for heavy solids … shall have a water seal of not less than 6 inches.

1004 | Materials, Joints and Connections

1102 | Materials

1104 | Conductors and Connections

1106 | Size of Conductors, Leaders and Storm Drains

1110 | Values for Continuous Flow

1110.1 | Equivalent roof area

1114 | Sumps and Pumping Systems

1301 | General

1301.2 | Installation: In addition to the provisions of 1301, systems for flushing of water closets and urinals shall comply with Section 1302. Except as provided for in this chapter, all systems shall comply with the other provisions of this code.

1302 | Systems for Flushing Water Closets and Urinals

1302.1 | Collection reservoir: The holding capacity of the reservoir shall be a minimum of twice the volume of water required … The reservoir shall be sized to limit the retention time of gray water to maximum of 72 hours.

Appendix B | Rates of Rainfall for Various Cities

Highlight: Florida, Miami and Pensacola

Appendix C | Vacuum Drainage System

Appendix D | Degree Day & Design Temperatures

Appendix E | Sizing of Water Piping System

E103 | Selection of Pipe Size

Table E103.3(2) | Load Values Assigned to Fixtures
<table>
<thead>
<tr>
<th>Section #</th>
<th>Highlight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table E103.3(4)</td>
<td>Loss of Pressure Through Taps and Tees in Pounds per Square Inch</td>
</tr>
<tr>
<td>Figure E103.3(2)</td>
<td>Friction Loss in Smooth Pipe (Type K)</td>
</tr>
<tr>
<td>Figure E103.3(3)</td>
<td>Friction Loss in Smooth Pipe (Type L)</td>
</tr>
<tr>
<td>Figure E103.3(7)</td>
<td>Friction Loss in Fairly Rough Pipe</td>
</tr>
<tr>
<td>E201</td>
<td>Selection of Pipe Size</td>
</tr>
<tr>
<td>E202</td>
<td>Determination of Pipe Volumes</td>
</tr>
<tr>
<td>Appendix F</td>
<td>Proposed Construction Building Codes for Turf &amp; Landscape Irrigation Systems</td>
</tr>
</tbody>
</table>

**Florida Building Code 2014, Building Chapter 1**

102 Applicability

102.2 Building, "The provisions of the Florida Building Code shall apply to the construction, erection, alteration, modification, repair, equipment, use and occupancy, location, maintenance, removal and demolition of every public and private building, structure or facility or floating residential structure, or any appurtenances connected or attached to such buildings, structures or facilities."

105 Permits
<table>
<thead>
<tr>
<th>Section</th>
<th>Highlight</th>
</tr>
</thead>
<tbody>
<tr>
<td>105.1</td>
<td>Required. Any owner or authorized agent who intends to construct, enlarge, alter, repair, move, demolish, or change the occupancy of a building or structure, or to erect, install, enlarge, alter, repair, remove, convert or replace any impact resistant coverings, electrical, gas, mechanical or plumbing system, the installation of which is regulated by this code, or to cause any such work to be done, shall first make application to the building official and obtain the required permit.”</td>
</tr>
<tr>
<td>107</td>
<td>Submittal Documents</td>
</tr>
<tr>
<td>107.3.5</td>
<td>Minimum plan review criteria for buildings</td>
</tr>
<tr>
<td></td>
<td>Commercial Buildings</td>
</tr>
<tr>
<td>108</td>
<td>Temporary Structures and Uses</td>
</tr>
</tbody>
</table>