<table>
<thead>
<tr>
<th>Sub Code: Fuel Gas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Mods for Plumbing: 8</td>
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</tbody>
</table>
The definition of Utility Gas was left out of the supplement, because there is no Florida Specific reason for it to remain in the code. This glitch represents unintended consequences from the integration and should be removed. The definition of Utility Gas was left out of the BOAF supplement, because there is no Florida Specific reason for it to remain in the code. In the 2001 FFGC the definition was added along with adding Utility Gas to the titles for the pipe sizing tables in chapter 4. In the 2004 FFGC Utility Gas was removed from the titles of the pipe sizing charts but the definition was not removed from the code.

**Fiscal Impact Statement**

- **Impact to local entity relative to enforcement of code**
  - Simplifies enforcement of code, reduces non Florida specific amendments to code.

- **Impact to building and property owners relative to cost of compliance with code**
  - None, intent of code remains the same

- **Impact to industry relative to the cost of compliance with code**
  - None, intent of code remains the same

**Requirements**

- **Has a reasonable and substantial connection with the health, safety, and welfare of the general public**
  - Promotes uniform enforcement to an International level.

- **Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction**
  - Increases effectiveness, thru uniformity with the code, that enforcement utilizes for license testing.

- **Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities**
  - No materials or products will be affected

- **Does not degrade the effectiveness of the code**
  - To correct wording and correlate the section with the International Fuel Gas Code, the base code, based on the original intent of the initial code changes that was proposed.
  - Increases effectiveness, thru uniformity with the code, that enforcement utilizes for license testing.
UTILITY GASES. Natural gas, manufactured gas, liquefied petroleum gas-air mixture or mixtures of any of these gases:
### Summary of Modification

Add identification of code volume to be consistent with Florida Code.

### Rationale

The specific volume of the Florida Building Code should be identified to be consistent with other section of the code. The proposed code change will have no impact on small business.

### Fiscal Impact Statement

**Impact to local entity relative to enforcement of code**

No impact

**Impact to building and property owners relative to cost of compliance with code**

No impact

**Impact to industry relative to the cost of compliance with code**

No impact

### Requirements

**Has a reasonable and substantial connection with the health, safety, and welfare of the general public**

Not applicable. Corrects a conflict within the updated code.

**Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction**

Not applicable. Corrects a conflict within the updated code.

**Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities**

Not applicable. Corrects a conflict within the updated code.

**Does not degrade the effectiveness of the code**

Not applicable. Corrects a conflict within the updated code.
301.11 Flood hazard. For structures located in flood hazard areas, the appliance, equipment and system installations regulated by this code shall be located at or above the elevation required by Section 1612.4 of the Florida Building Code, Building for utilities and attendant equipment design flood elevation and shall comply with the flood-resistant construction requirements of the Florida Building Code.

Exception: The appliance, equipment and system installations regulated by this code are permitted to be located below the elevation required by Section 1612.4 of the Florida Building Code, Building for utilities and attendant equipment provided that they are designed and installed to prevent water from entering or accumulating within the components and to resist hydrostatic and hydrodynamic loads and stresses, including the effects of buoyancy, during the occurrence of flooding to such elevation.
**Summary of Modification**

The specific volume of the Florida Building Code should be identified to be consistent with other section of the code.

**Rationale**

The specific volume of the Florida Building Code should be identified to be consistent with other section of the code. The proposed code change will have no impact on small business.

**Fiscal Impact Statement**

- **Impact to local entity relative to enforcement of code**
  - No impact

- **Impact to building and property owners relative to cost of compliance with code**
  - No impact

- **Impact to industry relative to the cost of compliance with code**
  - No impact

**Requirements**

- **Has a reasonable and substantial connection with the health, safety, and welfare of the general public**
  - Not applicable. Corrects a conflict within the updated code.

- **Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction**
  - Not applicable. Corrects a conflict within the updated code.

- **Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities**
  - Not applicable. Corrects a conflict within the updated code.

- **Does not degrade the effectiveness of the code**
  - Not applicable. Corrects a conflict within the updated code.
301.11 Flood hazard. For structures located in flood hazard areas, the appliance, equipment and system installations regulated by this code shall be located at or above the elevation required by Section 1612.4 of the Florida Building Code, Building for utilities and attendant equipment design flood elevation and shall comply with the flood-resistant construction requirements of the Florida Building Code.

Exception: The appliance, equipment and system installations regulated by this code are permitted to be located below the design flood elevation required by Section 1612.4 of the Florida Building Code, Building for utilities and attendant equipment provided that they are designed and installed to prevent water from entering or accumulating within the components and to resist hydrostatic and hydrodynamic loads and stresses, including the effects of buoyancy, during the occurrence of flooding to such elevation the design flood elevation shall comply with the flood-resistant construction requirements of the Florida Building Code, Building.
The specific volume of the Florida Building Code should be identified to be consistent with other section of the code.

**Rationale**

The specific volume of the Florida Building Code should be identified to be consistent with other section of the code. The proposed code change will have no impact on small business.

**Fiscal Impact Statement**

- **Impact to local entity relative to enforcement of code**
  - No impact

- **Impact to building and property owners relative to cost of compliance with code**
  - No impact

- **Impact to industry relative to the cost of compliance with code**
  - No impact

**Requirements**

- **Has a reasonable and substantial connection with the health, safety, and welfare of the general public**
  - Not applicable. Corrects a conflict within the updated code.

- **Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction**
  - Not applicable. Corrects a conflict within the updated code.

- **Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities**
  - Not applicable. Corrects a conflict within the updated code.

- **Does not degrade the effectiveness of the code**
  - Not applicable. Corrects a conflict within the updated code.
309.2 Flood hazard. For structures located in flood hazard areas, the following systems and equipment shall be located and installed as required by Section 1612.4 of the Florida Building Code, *Building*.

Exception: The following systems are permitted to be located below the elevation required by Section 1612.4 of the Florida Building Code, *Building* for utilities and attendant equipment provided that the systems are designed and installed to prevent water from entering or accumulating within their components and the systems are constructed to resist hydrostatic and hydrodynamic loads and stresses, including the effects of buoyancy, during the occurrence of flooding up to the design flood elevation.
<table>
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<th>Date Submitted</th>
<th>Proponent</th>
<th>TAC Recommendation</th>
<th>Commission Action</th>
<th>Affects HVHZ</th>
<th>Section</th>
<th>Comments</th>
<th>General Comments</th>
<th>Alternate Language</th>
<th>Fiscal Impact Statement</th>
<th>Requirements</th>
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<tr>
<td>3/1/2011</td>
<td>T Stafford</td>
<td>Pending Review</td>
<td>Pending Review</td>
<td>No</td>
<td>403.6.1</td>
<td></td>
<td>No</td>
<td>No</td>
<td>No impact</td>
<td>Has a reasonable and substantial connection with the health, safety, and welfare of the general public</td>
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</table>

**Summary of Modification**
Glitch change to correct table reference

**Rationale**
Change is needed to correct an incorrect reference in the code. The proposed code change will have no impact on small business.

**Fiscal Impact Statement**
- **Impact to local entity relative to enforcement of code**
  - No impact.
- **Impact to building and property owners relative to cost of compliance with code**
  - No impact.
- **Impact to industry relative to the cost of compliance with code**
  - No impact.

**Requirements**
- **Has a reasonable and substantial connection with the health, safety, and welfare of the general public**
  - Not applicable. Corrects a conflict within the updated code.
- **Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction**
  - Not applicable. Corrects a conflict within the updated code.
- **Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities**
  - Not applicable. Corrects a conflict within the updated code.
- **Does not degrade the effectiveness of the code**
  - Not applicable. Corrects a conflict within the updated code.
**403.6.1 Required fixtures.** Fixtures shall be provided as indicated on Table 403-8 403.6. The fixture count of Table 403-8 403.6 is deemed to be adequate for the pool and pool deck area that is up to three times the area of the pool surface provided. 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. Women's restrooms shall have a ratio of three to two water closets provided for women as the combined total of water closets and urinals provided for men. Lavatory counts shall be equal.
This modification deletes all sections and references in Chapter 4 of the Plumbing Code relating to accessibility and retains the base code language.

**Rationale**

The accessibility requirements that are currently in the proposed 2010 FBC, Plumbing Code are not consistent with the proposed 2010 Standards for Accessible Design (ADA) with Florida specific requirements. To eliminate future conflicts between the two codes, the proposed amendment will remove all Florida specific accessibility requirements from Chapter 4 of the FBC, Plumbing and retain the base code language. This proposal falls within glitch criteria - Conflict within the updated code.

The proposed code change has Florida specific need necessary to resolve conflicts within the updated codes. The proposed code change has no impact on small businesses.

**Fiscal Impact Statement**

- **Impact to local entity relative to enforcement of code**
  
  This language provides clarification, reduces conflict in codes, and thus improves enforcement of the code.

- **Impact to building and property owners relative to cost of compliance with code**
  
  This language provides clarification, reduces conflict in codes, and there is no additional cost impact to building and property owners relative to cost of compliance with code.

- **Impact to industry relative to the cost of compliance with code**
  
  This language provides clarification, reduces conflict in codes, and there is no additional cost impact to industry relative to the cost of compliance with code.

**Requirements**

- **Has a reasonable and substantial connection with the health, safety, and welfare of the general public**
  
  This language provides clarification, prevents conflict with other codes, and adheres to ADAAG which explains considerations for accessible design.

- **Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction**
  
  This language improves the code and prevents conflict with other codes and does not affect products, methods or systems of construction.

- **Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities**
  
  This code does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities.

- **Does not degrade the effectiveness of the code**
  
  This language does not degrade the code, rather provides clarity and prevents conflict with other codes.
2010 Florida Building Code, Plumbing

Section 404 ACCESSIBLE PLUMBING FACILITIES

Section 404 Accessible Plumbing Facilities.

404.1 General. Change to read as shown.

404.1 General. 404.1 Where required. Accessible plumbing facilities and fixtures shall be provided in accordance with the International Florida Building Code, Accessibility.

404.1.1 Accessibility. Add to read as shown.

404.1.1 Accessibility. The sections contained herein are plumbing fixture accessibility requirements only. For complete accessibility requirements, and associated figures, refer to Florida Building Code, Building, Chapter 11.

404.2 (Florida Building Code, Building, 11-4.15) Drinking fountains and water coolers. Add to read as shown.

404.2 (Florida Building Code, Building, 11-4.15) Drinking fountains and water coolers:

404.2.1 (Florida Building Code, Building, 11-4.15.1) Minimum number. Add to read as shown.

404.2.1 (Florida Building Code, Building, 11-4.15.1) Minimum number. Drinking fountains or water coolers required to be accessible by Florida Building Code, Building, Section 11-4.1 shall comply with Section 404.2.

404.2.2 (Florida Building Code, Building, 11-4.15.2) Spout height. Add to read as shown.

404.2.2 (Florida Building Code, Building, 11-4.15.2) Spout height. Spouts shall be no higher than 36 inches (915 mm), measured from the floor or ground surfaces to the spout outlet [see Figure 404.2.2(a)].

404.2.3 (Florida Building Code, Building, 11-4.15.3) Spout location. Add to read as shown.
404.2.3 *(Florida Building Code, Building, 11-4.15.3)* **Spout location.** The spouts of drinking fountains and water coolers shall be at the front of the unit and shall direct the water flow in a trajectory that is parallel or nearly parallel to the front of the unit. The spout shall provide a flow of water at least 4 inches (100 mm) high so as to allow the insertion of a cup or glass under the flow of water. On an accessible drinking fountain with a round or oval bowl, the spout must be positioned so the flow of water is within 3 inches (75 mm) of the front edge of the fountain.

404.2.4 *(Florida Building Code, Building, 11-4.15.4)* **Controls.** Add to read as shown.

404.2.4 *(Florida Building Code, Building, 11-4.15.4)* **Controls.** Controls shall comply with Section 404.13. Unit controls shall be front mounted or side mounted near the front edge.

404.2.5 *(Florida Building Code, Building, 11-4.15.5)* **Clearances.** Add to read as shown.

404.2.5 *(Florida Building Code, Building, 11-4.15.5)* **Clearances.**

404.2.5.1 *(Florida Building Code, Building, 11-4.15.5(1)) Add to read as shown.

404.2.5.1 *(Florida Building Code, Building, 11-4.15.5(1)) Wall-and-post-mounted cantilevered units shall have a clear knee space between the bottom of the apron and the floor or ground at least 27 inches (685 mm) high, 30 inches (760 mm) wide, and 17 inches to 19 inches (430 mm to 485 mm) deep [see Figure 404.2.2(a) and Figure 404.2.2(b)]. Such units shall also have a minimum clear floor space 30 inches by 48 inches (760 mm by 1220 mm) to allow a person in a wheelchair to approach the unit facing forward.

404.2.5.2 *(Florida Building Code, Building, 11-4.15.5(2)) Add to read as shown.

404.2.5.2 *(Florida Building Code, Building, 11-4.15.5(2)) Free-standing or built-in units not having a clear space under them shall have a clear floor space at least 30 inches by 48 inches (760 mm by 1220 mm) that allows a person in a wheelchair to make a parallel approach to the unit [see Figure 404.2.2(c) and Figure 404.2.2(d)]. This clear floor space shall comply with *Florida Building Code, Building*, §11-4.2.4.

**FIGURE 404.2.2 DRINKING FOUNTAINS AND WATER-COOLERS.** Add to read as shown.

**FIGURE 404.2.2 DRINKING FOUNTAINS AND WATER-COOLERS**
404.3— *(Florida Building Code, Building, 11-4.16)*

**Water closets.** Add to read as shown.

---

404.1— *(Florida Building Code, Building, 11-4.16.1)*

**General.** Accessible water closets shall comply with Section 404.3.

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404.3.2— *(Florida Building Code, Building, 11-4.16.2)*

Clear floor space. Clear floor space for water closets not in stalls shall comply with Figure 404.3.2. Clear...
floor space may be arranged to allow either a left-handed or right-handed approach.

404.3.3 (Florida Building Code, Building, 11-4.16.3) Height. Add to read as shown.

404.3.3 (Florida Building Code, Building, 11-4.16.3) Height. The height of water closets shall be 17 inches to 19 inches (430 mm to 485 mm) measured to the top of the toilet seat [see Figure 404.3.3(b)]. Seats shall not be sprung to return to a lifted position.

404.3.4 (Florida Building Code, Building, 11-4.16.4) Grab bars. Add to read as shown.

404.3.4 (Florida Building Code, Building, 11-4.16.4) Grab bars. Grab bars for water closets not located in stalls shall comply with Section 404.12 and Figure 404.3.3. The grab bar behind the water closet shall be 36 inches (915 mm) minimum.

404.3.5 (Florida Building Code, Building, 11-4.16.5) Flush controls. Add to read as shown.

404.3.5 (Florida Building Code, Building, 11-4.16.5) Flush controls. Flush controls shall be hand operated or automatic and shall comply with Section 404.13. Controls for flush valves shall be mounted on the wide side of toilet areas no more than 44 inches (1120 mm) above the floor.

404.3.6 (Florida Building Code, Building, 11-4.16.6) Dispensers. Add to read as shown.

404.3.6 (Florida Building Code, Building, 11-4.16.6) Dispensers. Toilet paper dispensers shall be installed within reach, as shown in Figure 404.3.3(b). Dispensers that control delivery, or that do not permit continuous paper flow, shall not be used.

404.4 (Florida Building Code, Building, 11-4.17) Toilet Stalls. Add to read as shown.

404.4 (Florida Building Code, Building, 11-4.17) Toilet Stalls.

404.4.1 (Florida Building Code, Building, 11-4.17.1) Location. Add to read as shown.

404.4.1 (Florida Building Code, Building, 11-4.17.1) Location. Accessible toilet stalls shall be on an accessible route and shall meet the requirements of 404.4.

404.4.2 (Florida Building Code, Building, 11-4.17.2) Water Closets. Add to read as shown.

404.4.2 (Florida Building Code, Building, 11-4.17.2) Water Closets. Water closets in accessible stalls shall comply with 404.3.

404.4.3 (Florida Building Code, Building, 11-4.17.3) Size and Arrangement. Add to read as shown.

404.4.3 (Florida Building Code, Building, 11-4.17.3) Size and Arrangement. The size and arrangement of the standard toilet stall shall comply with Figure 404.4.3(a). Standard Stall. Standard toilet stalls with a minimum depth of 56 inches (1420 mm) (See Figure 404.4.3(a)) shall have wall-mounted water closets. If the depth of a standard
toilet stall is increased at least 3 inches (75 mm), then a floor-mounted water closet may be used. Arrangements shown for standard toilet stalls may be reversed to allow either a left- or right-hand approach. Additional stalls shall be provided in conformance with 404.9.4

Exception: In instances of alteration work where provision of a standard stall (see Figure 404.4.3(a)) is technically infeasible or where plumbing code requirements prevent combining existing stalls to provide space, either alternate stall (see Figure 404.4.3(b)) may be provided in lieu of the standard stall.

New Construction:

1. The standard accessible restroom stall shall contain an accessible lavatory within it, the size of such lavatory to be not less than 19 inches wide by 17 inches deep, nominal size, and wall mounted. The lavatory shall be mounted so as not to overlap the clear floor space areas required by 404.4 (see Fig. 404.4.3(e)) and to comply with 404.6 of the code. Such lavatories shall be counted as part of the required fixture count for the building.

2. The accessible water closet shall be located in the corner, diagonal to the door.

404.4.4 (Florida Building Code, Building, 11-4.17.4) Toe Clearances. Add to read as shown.

404.4.4 (Florida Building Code, Building, 11-4.17.4) Toe Clearances. In standard stalls, the front partition and at least one side partition shall provide a toe clearance of at least 9 inches (230 mm) above the floor. If the depth of the stall is greater than 60 inches (1525 mm), then the toe clearance is not required.

404.4.5 (Florida Building Code, Building, 11-4.17.5) Doors. Add to read as shown.

404.4.5 (Florida Building Code, Building, 11-4.17.5) Doors. Toilet stall doors, including door hardware, shall comply with Florida Building Code, Building, 11-4.13. The doors shall be self-closing. If toilet stall approach is from latch side of the stall door, clearance between the door side of the stall and any obstruction may be reduced to a minimum of 42 inches (1065 mm) (see Fig. 404.4.3). Doors shall not swing into the clear floor space of any fixture.

404.4.6 (Florida Building Code, Building, 11-4.17.6) Grab Bars. Add to read as shown.

404.4.6 (Florida Building Code, Building, 11-4.17.6) Grab Bars. Grab bars complying with the length and positioning shown in Figure 404.4.3(a), Figure 404.4.3(b), Figure 404.4.3(c), and Figure 404.4.3(d) shall be provided. Grab bars may be mounted with any desired method as long as they have a gripping surface at the locations shown and do not obstruct the required clear floor area. Grab bars shall comply with 404.12.

FIGURE 404.4.3 TOILET STALLS Add to read as shown.

FIGURE 404.4.3 TOILET STALLS

Florida Building Code, Building, Chapter 11, Figure 30
FIGURE 404.4.3(e) Toilet-Stall New Construction
—Florida Building Code, Building, Chapter 11, Figure 30(e)

In new construction a lavatory shall be provided within the accessible toilet stall.

The lavatory shall not encroach into the required clear floor space for the water closet.

See figure 404.4.3(a) for the required clear floor space for the water closet.

The location shown for the lavatory is only one of many possible locations within the accessible toilet stall.

The water closet shall be located in the corner diagonal to the door.

The toilet stall door shall not swing into the required clear floor space for any fixture.

Flush control shall comply with section 404.3.5

404.5 {Florida Building Code, Building, 11-4.18] Urinals. Add to read as shown.

404.5 {Florida Building Code, Building, 11-4.18] Urinals.

404.5.1 {Florida Building Code, Building, 11-4.18.1] General. Add to read as shown.

404.5.1 {Florida Building Code, Building, 11-4.18.1] General. Accessible urinals shall comply with 404.5.

404.5.2 {Florida Building Code, Building, 11-4.18.2] Height. Add to read as shown.

404.5.2 {Florida Building Code, Building, 11-4.18.2] Height. Urinals shall be stall-type or wall-hung with an elongated rim at a maximum of 17 inches (430 mm) above the finish floor.

404.5.3 {Florida Building Code, Building, 11-4.18.3] Clear Floor Space. Add to read as shown.

404.5.3 {Florida Building Code, Building, 11-4.18.3] Clear Floor Space. A clear floor space 30 inches by 48 inches (760 mm by 1220 mm) shall be provided in front of urinals to allow forward approach. This clear space shall adjoin or overlap an accessible route and shall comply with Florida Building Code, Building, 11-4.2.4. Urinal shields that do not extend beyond the front edge of the urinal rim may be provided with 29 inches (735 mm) clearance between them.

404.5.4 {Florida Building Code, Building, 11-4.18.4] Flush Controls. Add to read as shown.

404.5.4 {Florida Building Code, Building, 11-4.18.4] Flush Controls. Flush controls shall be hand-operated or automatic, and shall comply with 404.13, and shall be mounted no more than 44 inches (1120 mm) above the finish floor.
404.6—(Florida Building Code, Building, 11–4.19)
Lavatories and mirrors. Add to read as shown.

404.6—(Florida Building Code, Building, 11–4.19)
Lavatories and mirrors.

404.6.1—(Florida Building Code, Building, 11–4.19.1) General. Add to read as shown.

404.6.1—(Florida Building Code, Building, 11–4.19.1)
General. The requirements of Section 404.6 shall apply
to lavatory fixtures, vanities and built-in lavatories.

404.6.2—(Florida Building Code, Building, 11–4.19.2) Height and clearances. Add to read as shown.

404.6.2—(Florida Building Code, Building, 11–4.19.2)
Height and clearances. Lavatories shall be mounted
with the rim or counter surface no higher than 34
inches (865 mm) above the finish floor. Provide a
clearance of at least 29 inches (735 mm) above the
finish floor to the bottom of the apron. Knee and toe
clearance shall comply with Figure 404.6.2.

404.6.3—(Florida Building Code, Building, 11–4.19.3) Clear floor space. Add to read as shown.

404.6.3—(Florida Building Code, Building, 11–4.19.3) Clear floor space. A clear floor space 30 inches by 48 inches
(760 mm by 1220 mm) complying with Florida Building Code, Building, §11–4.2.4 shall be provided in front of a
lavatory to allow forward approach. Such clear floor space shall adjoin or overlap an accessible route and shall
extend a maximum of 19 inches (485 mm) underneath the lavatory (see Figure 404.6.3).

404.6.4—(Florida Building Code, Building, 11–4.19.4) Exposed pipes and surfaces. Add to read as shown.

404.6.4—(Florida Building Code, Building, 11–4.19.4) Exposed pipes and surfaces. Hot water and drain pipes under
lavatories shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive
surfaces under lavatories.

404.6.5—(Florida Building Code, Building, 11–4.19.5) Faucets. Add to read as shown.

404.6.5—(Florida Building Code, Building, 11–4.19.5) Faucets. Faucets shall comply with Section 404.13. Lever-
operated, push-type and electronically controlled mechanisms are examples of acceptable designs. If self-closing
valves are used, the faucet shall remain open for at least 10 seconds.
404.6.6—[Florida Building Code, Building, 11-4.19.6(1)] Mirrors. Add to read as shown.

404.6.6—[Florida Building Code, Building, 11-4.19.6(1)] Mirrors. Mirrors shall be mounted with the bottom edge of the reflecting surface no higher than 40 inches (1015 mm) above the finish floor (see Figure 404.6.2).

**FIGURE 404.6.2—LAVATORY CLEARANCES.**
Add to read as shown.

**FIGURE 404.6.2—LAVATORY CLEARANCES**
(Florida Building Code, Building Chapter 11, Figure 31)

**FIGURE 404.6.3—CLEAR FLOOR-SPACE AT LAVATORIES.**
Add to read as shown.

**FIGURE 404.6.3—CLEAR FLOOR-SPACE AT LAVATORIES**
(Florida Building Code, Building Chapter 11, Figure 32)

404.7—[Florida Building Code, Building, 11-4.20] Bathtubs. Add to read as shown.


404.7.1—[Florida Building Code, Building, 11-4.20.1] General. Add to read as shown.

404.7.1—[Florida Building Code, Building, 11-4.20.1] General. Accessible bathtubs shall comply with Section 404.7.

404.7.2—[Florida Building Code, Building, 11-4.20.2] Floor Space. Add to read as shown.

404.7.2—[Florida Building Code, Building, 11-4.20.2] Floor Space. Clear floor space in front of bathtubs shall be as shown in Figure 404.7.2.

404.7.3—[Florida Building Code, Building, 11-4.20.3] Seat. Add to read as shown.

404.7.3—[Florida Building Code, Building, 11-4.20.3] Seat. An in-tub seat or a seat at the head end of the tub shall be provided as shown in Figure 404.7.2 and Figure 404.7.3. The structural strength of seats and their attachments shall comply with Section 404.12.3. Seats shall be mounted securely and shall not slip during use.

404.7.4—[Florida Building Code, Building, 11-4.20.4] Grab bars. Add to read as shown.
404.7.4 (Florida Building Code, Building, 11-4.20.4) **Grab bars.** Grab bars complying with Section 404.12 shall be provided as shown in Figure 404.7.2 and Figure 404.7.3.

404.7.5 (Florida Building Code, Building, 11-4.20.5) **Controls.** Add to read as shown.

404.7.5 (Florida Building Code, Building, 11-4.20.5) **Controls.** Faucets and other controls complying with Florida Building Code, Building, Section 404.13 shall be located as shown in Figure 404.7.3.

404.7.6 (Florida Building Code, Building, 11-4.20.6) **Shower unit.** Add to read as shown.

404.7.6 (Florida Building Code, Building, 11-4.20.6) **Shower unit.** A shower spray unit with a hose at least 60 inches (1525 mm) long that can be used both as a fixed shower head and as a hand-held shower shall be provided.

404.7.7 (Florida Building Code, Building, 11-4.20.7) **Bathtub enclosures.** Add to read as shown.

404.7.7 (Florida Building Code, Building, 11-4.20.7) **Bathtub enclosures.** If provided, enclosures for bathtubs shall not obstruct controls or transfer from wheelchairs onto bathtub seats or into tubs. Enclosures on bathtubs shall not have tracks mounted on their rims.

**FIGURE 404.7.2 CLEAR FLOOR-SPACE AT BATHTUBS**

**FIGURE 404.7.2 CLEAR FLOOR-SPACE AT BATHTUBS**

(Florida Building Code, Building, Chapter 11, Figure 33)

**FIGURE 404.7.3 GRAB-BARS AT BATHTUBS**

**FIGURE 404.7.3 GRAB-BARS AT BATHTUBS**

(Florida Building Code, Building, Chapter 11, Figure 34)

404.8 (Florida Building Code, Building, 11-4.21) **Shower Stalls.** Add to read as shown.

404.8 (Florida Building Code, Building, 11-4.21) **Shower Stalls.**

404.8.1 (Florida Building Code, Building, 11-4.21.1) **General.** Add to read as shown.

404.8.1 (Florida Building Code, Building, 11-4.21.1) **General.** Accessible shower stalls shall comply with 404.8.
404.8.2 (Florida Building Code, Building, 11-4.21.2) Size and Clearances. Add to read as shown.

404.8.2 (Florida Building Code, Building, 11-4.21.2) Size and Clearances. Except as specified in 11-9.1.2, shower stall size and clear floor space shall comply with Figure 404.8.2(1)(a) or Figure 404.8.2(1)(b). The shower stall in Figure 404.8.2(1)(a) shall be 36 inches by 36 inches (915 mm by 915 mm). Shower stalls required by Florida Building Code, Building, 11-9.1.2 shall comply with Figure 404.8.2(2)(a) or Figure 404.8.2(2)(b). The shower stall in Figure 404.8.2(1)(b) will fit into the space required for a bathtub.

404.8.3 (Florida Building Code, Building, 11-4.21.3) Seat. Add to read as shown.

404.8.3 (Florida Building Code, Building, 11-4.21.3) Seat. A seat shall be provided in shower stalls 36 inches by 36 inches (915 mm by 915 mm) and shall be as shown in Figure 404.8.3. The seat shall be mounted 17 inches to 19 inches (430 mm to 485 mm) from the bathroom floor and shall extend the full depth of the stall. In a 36-inch by 36-inch (915-mm by 915-mm) shower stall, the seat shall be on the wall opposite the controls. Where a fixed seat is provided in a 30-inch by 60-inch minimum (760-mm by 1525-mm) shower stall, it shall be a folding type and shall be mounted on the wall adjacent to the controls as shown in Figure 404.8.2(2). The structural strength of seats and their attachments shall comply with Section 404.12.3.

404.8.4 (Florida Building Code, Building, 11-4.21.4) Grab Bars. Add to read as shown.

404.8.4 (Florida Building Code, Building, 11-4.21.4) Grab Bars. Grab bars complying with Section 404.12 shall be provided as shown in Figure 404.8.4.

404.8.5 (Florida Building Code, Building, 11-4.21.5) Controls. Add to read as shown.

404.8.5 (Florida Building Code, Building, 11-4.21.5) Controls. Faucets and other controls complying with Section 404.13 shall be located as shown in Figure 404.8.4. In shower stalls 36 inches by 36 inches (915 mm by 915 mm), all controls, faucets and the shower unit shall be mounted on the side wall opposite the seat.

404.8.6 (Florida Building Code, Building, 11-4.21.6) Shower unit. Add to read as shown.

404.8.6 (Florida Building Code, Building, 11-4.21.6) Shower unit. A shower spray unit with a hose at least 60 inches (1525 mm) long that can be used both as a fixed shower head and as a hand-held shower shall be provided.

Exception: In unmonitored facilities where vandalism is a consideration, a fixed shower head mounted at 48 inches (1220 mm) above the shower floor may be used in lieu of a hand-held shower head.

404.8.7 (Florida Building Code, Building, 11-4.21.7) Curbs. Add to read as shown.

404.8.7 (Florida Building Code, Building, 11-4.21.7) Curbs. If provided, curbs in shower stalls 36 inches by 36 inches (915 mm by 915 mm) shall be no higher than ¼ inch (13 mm). Shower stalls that are 30 inches by 60 inches (760 mm by 1525 mm) minimum shall not have curbs.

404.8.8 (Florida Building Code, Building, 11-4.21.8) Shower enclosures. Add to read as shown.
404.8.8 (Florida Building Code, Building, 11-4.21.8) **Shower enclosures.** If provided, enclosures for shower stalls shall not obstruct controls or obstruct transfer from wheelchairs onto shower seats.

**FIGURE 404.8.2(1) SHOWER SIZE AND CLEARANCES**"Add to read as shown."

(Florida Building Code, Building, Chapter 11, Figure 35)

Figure 404.8.2(2) Roll-In Shower With Folding Seat Add To Read As Shown.

**FIGURE 404.8.2(2) ROLL-IN SHOWER WITH FOLDING SEAT**

(Florida Building Code, Building, Chapter 11, Figure 57)

**FIGURE 404.8.3 SHOWER SEAT DESIGN** "Add to read as shown."

(Florida Building Code, Building, Chapter 11, Figure 36)

**FIGURE 404.8.4 GRAB BARS AT SHOWER STALLS** "Add to read as shown."

(Florida Building Code, Building, Chapter 11, Figure 37)
404.9 (Florida Building Code, Building, 11-4.22) Toilet Rooms

404.9 (Florida Building Code, Building, 11-4.22) Toilet Rooms

404.9.1 (Florida Building Code, Building, 11-4.22.1) Minimum Number. Add to read as shown.

404.9.1 (Florida Building Code, Building, 11-4.22.1) Minimum Number. Toilet facilities required to be accessible by Florida Building Code, Building, 11-4.1 shall comply with Florida Building Code, Building, 11-4.22. Accessible toilet rooms shall be on an accessible route.

404.9.2 (Florida Building Code, Building, 11-4.22.2) Doors. Add to read as shown.

404.9.2 (Florida Building Code, Building, 11-4.22.2) Doors. All doors to accessible toilet rooms shall comply with Florida Building Code, Building, 11-4.13. Doors shall not swing into the clear floor space required for any fixture.

Exception: All new single-family houses, duplexes, tripless, condominiums, and townhouses shall provide at least one bathroom, located with maximum possible privacy, where bathrooms are provided on habitable grade levels, with a door that has a 29-inch clear opening. However, if only a toilet room is provided at grade level, such toilet room shall have a clear opening of not less than 29 inches.

404.9.3 (Florida Building Code, Building, 11-4.22.3) Clear Floor Space.

404.9.3 (Florida Building Code, Building, 11-4.22.3) Clear Floor Space. The accessible fixtures and controls required in 404.9.4, 404.9.5, 404.9.6 and 404.9.7 shall be on an accessible route. An unobstructed turning space complying with Florida Building Code, Building, 11-4.2.3 shall be provided within an accessible toilet room. The clear floor space at fixtures and controls, the accessible route, and the turning space may overlap.

404.9.4 (Florida Building Code, Building, 11-4.22.4) Water closets.

404.9.4 (Florida Building Code, Building, 11-4.22.4) Water closets. If toilet stalls are provided, then at least one shall be a standard toilet stall complying with Section 404.4; where six or more stalls are provided, in addition to the stall complying with Section 404.4.3, at least one stall 36 inches (915 mm) wide with an outward-swinging, self-closing door and parallel grab bars complying with Figures 404.4.3(d) and 404.12.2 shall be provided. Water closets in such stalls shall comply with Section 404.3. If water closets are not in stalls, then at least one shall comply with Section 404.3.
404.9.5 *(Florida Building Code, Building, 11-4.22.5)* Urinals.

404.9.5 *(Florida Building Code, Building, 11-4.22.5)* Urinals. If urinals are provided, then at least one shall comply with 404.5.

404.9.6 *(Florida Building Code, Building, 11-4.22.6)* Lavatories and Mirrors.

404.9.6 *(Florida Building Code, Building, 11-4.22.6)* Lavatories and Mirrors. If lavatories and mirrors are provided, then at least one of each shall comply with 404.6.

404.9.7 *(Florida Building Code, Building, 11-4.22.7)* Controls and Dispensers. Add to read as shown.

404.9.7 *(Florida Building Code, Building, 11-4.22.7)* Controls and Dispensers. If controls, dispensers, receptacles, or other equipment are provided, then at least one of each shall be on an accessible route and shall comply with Florida Building Code, Building, 11-4.27.

404.10 *(Florida Building Code, Building, 11-4.23)* Bathrooms, Bathing Facilities, and Shower Rooms. Add to read as shown.

404.10 *(Florida Building Code, Building, 11-4.23)* Bathrooms, Bathing Facilities, and Shower Rooms.

404.10.1 *(Florida Building Code, Building, 11-4.23.1)* Minimum Number. Add to read as shown.

404.10.1 *(Florida Building Code, Building, 11-4.23.1)* Minimum Number. Bathrooms, bathing facilities, or shower rooms required to be accessible by Florida Building Code, Building, 11-4.1 shall comply with 404.10 and shall be on an accessible route.

404.10.2 *(Florida Building Code, Building, 11-4.23.2)* Doors. Add to read as shown.

404.10.2 *(Florida Building Code, Building, 11-4.23.2)* Doors. Doors to accessible bathrooms shall comply with Florida Building Code, Building, §11-4.13. Doors shall not swing into the floor space required for any fixture.
Exception: All new single-family houses, duplexes, triplexes, condominiums and townhouses shall provide at least one bathroom, located with maximum possible privacy, where bathrooms are provided on habitable grade levels, with a door that has a 29-inch (737-mm) clear opening. However, if only a toilet room is provided at grade level, such toilet room shall have a clear opening of not less than 29 inches (737-mm).

404.10.3 (Florida Building Code, Building, 11-4.23.3) Clear floor space. Add to read as shown.

404.10.3 (Florida Building Code, Building, 11-4.23.3) Clear floor space. The accessible fixtures and controls required in Sections 404.10.4, 404.10.5, 404.10.6, 404.10.7, 404.10.8 and 404.10.9 shall be on an accessible route. An unobstructed turning space complying with Florida Building Code, Building, §11-4.2.3 shall be provided within an accessible bathroom. The clear floor spaces at fixtures and controls, the accessible route and the turning space may overlap.

404.10.4 (Florida Building Code, Building, 11-4.23.4) Water closets. Add to read as shown.

404.10.4 (Florida Building Code, Building, 11-4.23.4) Water closets. If toilet stalls are provided, then at least one shall be a standard toilet stall complying with Section 404.4; where six or more stalls are provided, in addition to the stall complying with Section 404.4, at least one stall 36 inches (915 mm) wide with an outward-swinging, self-closing door and parallel grab bars complying with Section 404.12 and Figure 404.4.3(d) shall be provided. Water closets in such stalls shall comply with Section 404.3. If water closets are not in stalls, then at least one shall comply with Section 404.3.

404.10.5 (Florida Building Code, Building, 11-4.23.5) Urinals. Add to read as shown.

404.10.5 (Florida Building Code, Building, 11-4.23.5) Urinals. If urinals are provided, then at least one shall comply with Section 404.5.

404.10.6 (Florida Building Code, Building, 11-4.23.6) Lavatories and mirrors. Add to read as shown.

404.10.6 (Florida Building Code, Building, 11-4.23.6) Lavatories and mirrors. If lavatories and mirrors are provided, then at least one of each shall comply with Section 404.6.

404.10.7 (Florida Building Code, Building, 11-4.23.7) Controls and dispensers. Add to read as shown.
404.10.7 (Florida Building Code, Building, 11-4.23.7) Controls and dispensers. If controls, dispensers, receptacles or other equipment are provided, then at least one of each shall be on an accessible route and shall comply with Florida Building Code, Building, Section 11-4.27.

404.10.8 (Florida Building Code, Building, 11-4.23.8) Bathing and shower facilities. Add to read as shown.

404.10.8 (Florida Building Code, Building, 11-4.23.8) Bathing and shower facilities. If tubs or showers are provided, then at least one accessible tub that complies with Section 404.7 or at least one accessible shower that complies with Section 404.8 shall be provided.

404.10.9 (Florida Building Code, Building, 11-4.23.9) Medicine Cabinets. Add to read as shown.

404.10.9 (Florida Building Code, Building, 11-4.23.9) Medicine Cabinets. If medicine cabinets are provided, at least one shall be located with a usable shelf no higher than 44 in (1120 mm) above the floor space. The floor space shall comply with Florida Building Code, Building, 11-4.2.4.

404.11 (Florida Building Code, Building, 11-4.24) Sinks. Add to read as shown.

404.11 (Florida Building Code, Building, 11-4.24) Sinks.

404.11.1 (Florida Building Code, Building, 11-4.24.1) General. Add to read as shown.

404.11.1 (Florida Building Code, Building, 11-4.24.1) General. Sinks required to be accessible by Florida Building Code, Building, Section 11-4.1 shall comply with Section 404.11.

404.11.2 (Florida Building Code, Building, 11-4.24.2) Height. Add to read as shown.

404.11.2 (Florida Building Code, Building, 11-4.24.2) Height. Sinks shall be mounted with the counter or rim no higher than 34 inches (865 mm) above the finish floor.
404.11.3 (Florida Building Code, Building, 11-4.24.3) Knee clearance. Add to read as shown.

404.11.3 (Florida Building Code, Building, 11-4.24.3) Knee clearance. Knee clearance that is at least 27 inches (685 mm) high, 30 inches (760 mm) wide and 19 inches (485 mm) deep shall be provided underneath sinks.

404.11.4 (Florida Building Code, Building, 11-4.24.4) Depth. Add to read as shown.

404.11.4 (Florida Building Code, Building, 11-4.24.4) Depth. Each sink shall be a maximum of 6½ inches (165 mm) deep.

404.11.5 (Florida Building Code, Building, 11-4.24.5) Clear floor space. Add to read as shown.

404.11.5 (Florida Building Code, Building, 11-4.24.5) Clear floor space. A clear floor space at least 30 inches by 48 inches (760 mm by 1220 mm) complying with Florida Building Code, Building, Section 11-4.2.4 shall be provided in front of a sink to allow forward approach. The clear floor space shall be on an accessible route and shall extend a maximum of 19 inches (485 mm) underneath the sink (see Figure 404.6.3).

404.11.6 (Florida Building Code, Building, 11-4.24.6) Exposed pipes and surfaces. Add to read as shown.

404.11.6 (Florida Building Code, Building, 11-4.24.6) Exposed pipes and surfaces. Hot water and drain pipes exposed under sinks shall be insulated or otherwise configured so as to protect against contact. There shall be no sharp or abrasive surfaces under sinks.

404.11.7 (Florida Building Code, Building, 11-4.24.7) Faucets. Add to read as shown.

404.11.7 (Florida Building Code, Building, 11-4.24.7) Faucets. Faucets shall comply with Section 404.13. Lever-operated, push-type, touch type or electronically controlled mechanisms are acceptable designs.

404.12 (Florida Building Code, Building, 11-4.26) Handrails, grab bars, and tub and shower seats. Add to read as shown.
404.12 (Florida Building Code, Building, 11-4.26) Handrails, grab bars, and tub and shower seats.

404.12.1 (Florida Building Code, Building, 11-4.26.1) General. Add to read as shown.

404.12.1 (Florida Building Code, Building, 11-4.26.1) General. All handrails, grab bars and tub and shower seats required to be accessible by Florida Building Code, Building, Section 11-4.1, Florida Building Code, Building, Section 11-4.8, Florida Building Code, Building, Section 11-4.9, Section 404.3, 404.4, 404.7 or 404.8 shall comply with Section 404.12.

404.12.2 (Florida Building Code, Building, 11-4.26.2) Size and Spacing of grab bars and handrails. Add to read as shown.

404.12.2 (Florida Building Code, Building, 11-4.26.2) Size and Spacing of grab bars and handrails. The diameter or width of the gripping surfaces of a handrail or grab bar shall be 1⅛ inches to 1¾ inches (32 mm to 38 mm), or the shape shall provide an equivalent gripping surface. If handrails or grab bars are mounted adjacent to a wall, the space between the wall and the grab bar shall be 1⅛ inches (38 mm) [see Figure 404.12.2(a), Figure 404.12.2(b), Figure 404.12.2(c), and Figure 404.12.2(d)]. Handrails may be located in a recess if the recess is a maximum of 3 inches (75 mm) deep and extends at least 18 inches (455 mm) above the top of the rail [see Figure 404.12.2(d)].

404.12.3 (Florida Building Code, Building, 11-4.26.3) Structural strength. Add to read as shown.

404.12.3 (Florida Building Code, Building, 11-4.26.3) Structural strength. The structural strength of grab bars, tub and shower seats, fasteners and mounting devices shall meet the following specification:

1. Bending stress in a grab bar or seat induced by the maximum bending moment from the application of 250 pound-foot (1112 N) shall be less than the allowable stress for the material of the grab bar or seat.

2. Shear stress induced in a grab bar or seat by the application of 250 pound-foot (1112 N) shall be less than the allowable shear stress for the material of the grab bar or seat. If the connection between the grab bar or seat and its mounting bracket or other support is considered to be fully restrained, then direct and torsional shear stresses shall be totaled for the combined shear stress, which shall not exceed the allowable shear stress.

3. Shear force induced in a fastener or mounting device from the application of 250 pound-foot (1112 N) shall be less than the allowable lateral load of either the fastener or mounting device or the supporting structure, whichever is the smaller allowable load.
4.—Tensile force induced in a fastener by a direct tension force of 250 pound-foot (1112 N) plus the maximum moment from the application of 250 pound-foot (1112 N) shall be less than the allowable withdrawal load between the fastener and the supporting structure.

5. Grab bars shall not rotate within their fittings.

404.12.4 (Florida Building Code, Building, 11-4.26.4) Eliminating hazards. Add to read as shown.

404.12.4 (Florida Building Code, Building, 11-4.26.4) Eliminating hazards. A handrail or grab bar and any wall or other surface adjacent to it shall be free of any sharp or abrasive elements. Edges shall have a minimum radius of 1/8-inch (3.2 mm).

**FIGURE 404.12.2 SIZE AND SPACING OF HANDRAILS AND GRAB BARS:** Add to read as shown.

**FIGURE 404.12.2 SIZE AND SPACING OF HANDRAILS AND GRAB BARS:**

(Florida Building Code, Building, Chapter 11, Figure 39)

404.13 (Florida Building Code, Building, 11-4.27.4) Operation. Add to read as shown.

404.13 (Florida Building Code, Building, 11-4.27.4) Operation. Controls and operating mechanisms shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate controls shall be no greater than 5 lbf (22.2 N).
### Summary of Modification

The specific volume of the Florida Building Code should be identified to be consistent with other section of the code.

### Rationale

The proposed code change corrects a conflict within the updated code. The proposed code change will have no impact on small business.

### Fiscal Impact Statement

- **Impact to local entity relative to enforcement of code**
  - No impact.

- **Impact to building and property owners relative to cost of compliance with code**
  - No impact.

- **Impact to industry relative to the cost of compliance with code**
  - No impact.

### Requirements

- **Has a reasonable and substantial connection with the health, safety, and welfare of the general public**
  - Not applicable. Corrects a conflict within the updated code.

- **Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction**
  - Not applicable. Corrects a conflict within the updated code.

- **Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities**
  - Not applicable. Corrects a conflict within the updated code.

- **Does not degrade the effectiveness of the code**
  - Not applicable. Corrects a conflict within the updated code.
Table 607.2.1 footnote a.

a **Section 403.4.1 Chapter 4** of the *Florida Building Code, Energy Conservation*, requires piping insulation for

1) recirculating system piping, including the supply and return piping of a circulating tank type water heater,

2) the first 8’ of outlet piping for a constant temperature nonrecirculating storage system,

3) the inlet pipe between the storage tank and a heat trap in a nonrecirculating storage system and

4) pipes that are externally heated for commercial nonrecirculating systems. For residential greater than two-family and less than 4 stories **Section 403.4.1 Chapter 4** of the *Florida Building Code, Energy Conservation*, requires at least ½ inch insulation for circulating hot water system pipes.
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**Summary of Modification**
Add metric dimension to be consistent with other sections of the code where measurements are used.

**Rationale**
Add metric dimension to be consistent with other sections of the code where measurements are used. The proposed code change will have no impact on small business.

**Fiscal Impact Statement**
- **Impact to local entity relative to enforcement of code**
  - No impact
- **Impact to building and property owners relative to cost of compliance with code**
  - No impact
- **Impact to industry relative to the cost of compliance with code**
  - No impact

**Requirements**
- **Has a reasonable and substantial connection with the health, safety, and welfare of the general public**
  - Not applicable. Corrects a conflict within the updated code.
- **Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction**
  - Not applicable. Corrects a conflict within the updated code.
- **Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities**
  - Not applicable. Corrects a conflict within the updated code.
- **Does not degrade the effectiveness of the code**
  - Not applicable. Corrects a conflict within the updated code.
318.2 Penetration. Protective sleeves around piping penetrating concrete slab-on-grade floors shall not be of cellulose-containing materials. If soil treatment is used for subterranean termite protection, the sleeve shall have a maximum wall thickness of 0.010 inch (0.25 mm), and be sealed within the slab using a non-corrosive clamping device to eliminate the annular space between the pipe and the sleeve. No termiticides shall be applied inside the sleeve.