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**RBC306.1 Short title.** This section will be known and cited as the Plumbing Code.

**RBC306.2 Scope.** The Plumbing Code shall apply to the erection, installation, alteration, repair, relocation, replacement, addition to or use of plumbing systems within the Jurisdiction. Regional Building Department waives jurisdiction over to the local purveyors for matters and inspections relating to water and sewer services at a point 30inches beyond the exterior walls of the structure, or the water meter, as well as interceptor and separator requirements. In the event no purveyor exists Regional Building Department will assume jurisdictional responsibilities as set out in this code. Additions, alterations, repairs and replacement of plumbing systems shall comply with the provisions for new systems.

**RBC306.2.1 Repairs and Alterations.**

**RBC306.2.1.1** In existing buildings or premises in which plumbing installations are to be altered, repaired or renovated; deviations from the provisions of the Plumbing Code are permitted, provided such deviations are found to be necessary and are first approved by the Building Official.

**RBC306.2.1.2** All openings into a drainage or vent system, excepting those openings to which plumbing fixtures are properly connected or which constitute vent terminals, shall be permanently plugged or capped in an approved manner, using the appropriate materials required by the Plumbing Code.

**RBC306.2.2 Existing Construction.** No provision of the Plumbing Code shall be deemed to require a change in any portion of a plumbing or drainage system or any other work regulated by the Plumbing Code in or on an existing building or lot when such work was installed and is maintained in accordance with the law in effect prior to the effective date of the Plumbing Code, except when any such plumbing or drainage system or other work regulated by the Plumbing Code is determined by the Building Official to be in fact dangerous, unsafe, unsanitary or a nuisance and menace to life, health or property.

**RBC306.2.3 Conflicts between codes.** When the requirements of the Plumbing Code conflict with the requirements of other codes in matters pertaining to plumbing, the Plumbing Code shall prevail. The Mechanical Code, the Plumbing Code shall prevail.

**RBC306.3 Code adopted by reference.** There is hereby adopted by reference the International Plumbing Code of the International Code Council, Inc, 4051 West Flossmoor Road, Country Club Hills, Il; 60478-5795, 2003 edition. Three copies of the Code are now filed in the office of the Clerk of the Jurisdiction and may be inspected during regular business hours. The Code is being adopted as if set out at length, to include appendices B, D, E and F, save and except the following which are declared to be non-applicable and therefore expressly deleted:

1. **Chapter 1, Administration except Section 107**
2. **Chapter 5, Water Heaters.**
3. **Chapter 12, Special Piping**
4. **Appendices A, C, D, and G.**
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**RBC306.4 Additions and modifications.** The adopted Code is subject to the following additions and modifications:

**RBC306.4.1 Section 201.3 Terms defined in other codes.** Delete ICC Electrical Code and replace with National Electrical Code.

**RBC306.4.2 Section 202 General definitions**

BACKFLOW. Delete the definition for Backwater-valve.

BUILDING DRAIN. Delete the definition for Combined.

BUILDING SEWER. Delete the definition for Combined.

COMBINED BUILDING DRAIN. Delete in its entirety.

COMBINED BUILDING SEWER. Delete in its entirety.

CONDUCTOR. Delete the words “or combined building” from the definition.

GREASE INTERCEPTOR. Delete the definition and replace with the following: An interceptor of at least 750 gallons capacity to serve one (1) or more fixtures and which shall be remotely located.

**RBC306.4.3 Section 301.6 Prohibited locations.** Delete the exception and replace with the following: Exception: Floor drains; sumps and sump pumps shall be permitted at the base of the shaft provided they are in accordance the ASME Elevator Code and shall discharge to the storm drain or exterior of the structure.
RBC306.4.4 Table 303.4 Delete table 303.4
and replace with the following:

<table>
<thead>
<tr>
<th>PRODUCT OR MATERIAL</th>
<th>THIRD-PARTY CERTIFIED</th>
<th>THIRD-PARTY TESTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potable water supply system components and potable water fixture fittings</td>
<td>Required</td>
<td></td>
</tr>
<tr>
<td>Sanitary drainage and vent system components</td>
<td>Plastic pipe, fittings and pipe related components</td>
<td>All others</td>
</tr>
<tr>
<td>Waste fixture fittings</td>
<td>Plastic pipe, fittings and pipe related components</td>
<td>All others</td>
</tr>
<tr>
<td>Storm drainage system components</td>
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<td>All other</td>
</tr>
<tr>
<td><strong>Plumbing fixtures</strong></td>
<td><strong>Required</strong></td>
<td></td>
</tr>
<tr>
<td>Plumbing appliances</td>
<td>Required</td>
<td></td>
</tr>
<tr>
<td>Backflow prevention devices</td>
<td>Required</td>
<td></td>
</tr>
<tr>
<td>Water Distribution system safety devices</td>
<td>Required</td>
<td></td>
</tr>
<tr>
<td>Special waste system components</td>
<td>Required</td>
<td></td>
</tr>
</tbody>
</table>
RBC306.4.5 Section 305.5 Pipes through or under footings or foundation walls. Delete the last sentence and replace with the following:

The minimum annular space between the pipe and the sleeve shall be 1/2 inch.

RBC306.4.6 Section 305.6 Freezing. Delete the last sentence and replace with the following:

Exterior water supply system piping shall be installed not less than 12 inches below the frost line and not less than 60 inches below grade.

RBC306.4.7 Section 305.6.1 Sewer depth. **Delete in its entirety.**

RBC306.4.8 Section 308.6 Sway bracing. **Delete in its entirety.**

RBC306.4.9 Table 308.5 Hanger spacing. Add footnote “c” reading: c. 4 inch and smaller cast iron pipe shall be supported at every joint, pipe larger than 4 inch, at every other joint.

RBC306.4.10 Section 308.9 Stacks. **Delete in its entirety.**

RBC306.4.11 Section 310.1 Light and ventilation. **Delete in its entirety.**

RBC306.4.12 Section 310.2 Location of fixtures and piping. **Delete in its entirety.**

RBC306.4.13 Section 310.3 Interior finish. **Delete in its entirety.**

RBC306.4.14 Add Section 310.5 and its exceptions to read:

**Urinal partitions.** Each urinal utilized by the public or employees shall occupy a separate area with walls or partitions to provide privacy. The construction of such walls or partitions shall incorporate waterproof, smooth, readily-cleanable and nonabsorbent finish surfaces. The walls or partitions shall begin at a height not more than 12 inches (305mm) from and extend not less than 60 inches (1524mm) above the finished floor surface. The walls or partitions shall extend from the wall surface at each side of the urinal a minimum 18 inches (457mm) or to a point not less than 6 inches (152mm) beyond the outermost lip of the urinal measured from the finished back wall, whichever is greater.

**Exceptions:**

1. Urinal partitions shall not be required in a single occupancy or unisex toilet room with a lockable door.

2. Toilet rooms in a daycare and childcare facilities containing two or more urinals shall be permitted to have one urinal without partitions.

RBC306.4.15 Section 311 Toilet facilities for workers. **Delete in its entirety.**

RBC306.4.16 Section 312.1 Required tests. Delete the words “for piping systems other than plastic” from the section.

RBC306.4.17 Section 312.1.1 Test gauges. Delete items 1, 2, and 3, replace with the following: Test pressure gauge scales shall be graduated over a range of not less than one and one-half times and not greater than four times the maximum test pressure. Gauge increments shall be no greater than one pound for tests of 10 pounds or less nor greater than 2 pounds for tests over 10 pounds.

RBC306.4.18 Section 312.2 Drainage and vent water test. Add an exception to read:
Exception: An underslab plumbing base inspection may be tested with no less than a 5-foot head of water.

RBC306.4.19 Section 312.4 Drainage and vent final test. Delete in its entirety.

RBC306.4.20 Section 312.5 Water supply test. Delete the words “for piping systems other than plastic” from the section.

RBC306.4.21 Section 312.6 Gravity sewer test. Delete in its entirety.

RBC306.4.22 Section 312.7 Forced sewer test. Delete in its entirety.

RBC306.4.23 Section 312.9 Inspection and testing of backflow prevention assemblies. Delete in its entirety.

RBC306.4.24 Section 314 Condensate disposal. Delete in its entirety.

RBC306.4.27 Table 403.1 Add the following exceptions after the footnotes:

Exception:
1. Bar sinks may be substituted for drinking fountains
2. A service sink and drinking fountain are not required if separate facilities are not required for each gender.
3. Building categories not shown on this table shall be considered separately by the Building Official.

RBC306.4.28 Section 403.2 Separate facilities. Delete Exception #4 and replace with: 4. In mercantile or storage occupancies with a total floor area of 3,000 square feet (278.7 m) or less, one toilet facility, designed for use by no more than one person at a time, shall satisfy the requirements for serving customers and employees of both genders.

RBC306.4.29 Section 405.3.2 Public lavatories. Add an exception to read

Exception: E I4occupancies.

RBC306.4.30 Section 405.5 Water-tight joints. Add an exception to read: Exception: Floor mounted water closets or bidets.

RBC306.4.31 Section 406.1 Approval. Delete in its entirety.

RBC306.4.32 Section 406.3 Waste connection. Delete the last sentence. Add an exception to read:

Exception: Gravity drain clothes washers may drain into an indirect waste receptor.

RBC306.4.33 Section 409.1 Approval. Delete in its entirety.
RBC306.4.34 Section 410.1 Approval. Delete the last sentence.

RBC306.4.35 Add new Section 412.5 to read:
Section 412.5 Floor drain locations. An emergency floor drain shall be provided in the same room within five (5) feet of a water meter and/or water service backflow prevention device.

RBC306.4.36 Section 413.1 Approval. Delete the first and second sentences.

RBC306.4.37 Section 416.2 Cultured marble lavatories. Delete in its entirety.

RBC306.4… Add new section to read:
Section 417.7 Receptor drains. An approved flanged drain shall be installed with the shower subpans or linings. The flange shall be placed flush with the subbase and equipped with a clamping ring or other device to make a water-tight connection between the lining and the drain. The flange shall have weep holes into the drain.

RBC306.4.38 Section 417.5.2.3 Sheet lead. Delete in its entirety.

RBC 306.4… Section 424.5 Bathtub and Whirlpool Bathtub Valves. Add an exception to read:
Exception: Bathtubs that do not have a fixed or personal shower.

RBC306.4.39 Chapter 5 Water Heaters. Delete in its entirety; see RBC305.4.103 Section 624 Water Heaters.

RBC306.4.40 Section 601.1 Scope. Add an exception to read:
Exception: Water supply systems owned and operated by municipalities, rural water districts, privately owned water purveyors and other such entities.

RBC306.4.41 Section 602.3.3 Water quality. Delete the words, ”prior to connection to the plumbing system” in the last sentence.

RBC306.4.42 Section 602.3.4 Disinfection of system. Delete in its entirety.

RBC306.4.43 Section 602.3.5 Pumps. Delete the last two sentences.

RBC306.4.44 Section 602.3.5.1 Pump enclosure. Delete the first sentence.

RBC306.4.45 Section 604.2 System interconnection. Delete in its entirety.

RBC306.4.46 Section 604.3 Add an exception to read:
Exception: For 3– and 4–plex residential occupancies, one- and two-family residential occupancies use Appendix E Section, E201.

RBC306.4.47 Section 604.9 Water hammer. Add exception:
Exception: Single family dwellings.

RBC306.4.48 Section 605.5 Fittings. Delete the sentence reading: The fittings shall not have ledges, shoulders or reductions capable of retarding or obstructing flow in the piping.

RBC306.4.49 Section 605.9 Prohibited joints and connections. Delete item #4. Saddle type fittings.

RBC306.4.50 Section 606.1 Location of full open valves. Change item # 4 to read:
4. On the base of every water pipe riser in occupancies other than 3– and 4-plex
residential occupancies that are two stories or less in height and in one- and two-family residential occupancies. On the floor branch of every water riser pipe in occupancies other than multiple-family residential occupancies that are two stories or less in height and in one and two family residential occupancies Add item #9 to read:

9. On the water supply pipe to each irrigation system.

RBC306.4.51 Section 606.2 Location of shutoff valves. Change item #1 to read:

1. On the fixture supply at each plumbing fixture other than bathtubs and showers in one- and two-family residential occupancies, and other than in guestrooms that are provided with individual shutoff valves in hotels, motels, boarding houses, and similar occupancies.

Delete item #2 in its entirety.

Add an exception to read:

Exception: Manifold systems with individual shutoff valves for each fixture at the manifold.

1. Add to the end of Item #2: in other than one and two family residential occupancies.

RBC306.4... Section 606.3 Access to valves. Delete the sentence and insert:

Access shall be provided to all required shutoff valves.

RBC306.4.52 Section 606.4 Valve identification. Delete in its entirety.

RBC306.4.53 Section 607.2.1 Piping insulation. Add exception.

Exception: Where the circulating hot water system pump is controlled by an integral timer.

RBC306.4.54 Section 607.2.3 Recirculating pump. Add to the end of the sentence: or install per manufacturer’s instructions.

RBC306.4.55 Section 607.4 Flow of hot water to fixtures. Add an exception to read:

Exception: Deck mounted tub faucets.

No longer needed due to new Sections 608.2, 608.8

RBC306.4... Section 608.8.1 Identification. Add to the end of the paragraph: Nonpotable water outlets that could be used for drinking or domestic purposes shall be permanently marked by signage reading: “Nonpotable water—Do Not Drink.”

RBC306.4... Section 608.8.2 Color. Delete the sentence and replace it with:

The color of the pipe and outlet identification shall be the color purple, and shall be discernable.

RBC306.4.56 Section 608.15 Add an exception to read:

Exception: This section shall not apply to kitchen sink and personal shower sprays in R occupancies.

Exception: Faucets with hose attached sprays in R occupancies shall be protected at the water supply entry with an approved backflow prevention device.

RBC306.4.57 Section 608.16.3 Heat exchangers. Add exception to read:

Exception: R-3 occupancies.

RBC306.4.58 Section 608.16.9 Dental pump equipment. Delete the words “in accordance with Sections 608.13.1, 608.13.2, 608.13.3, 608.13.7, or 608.13.8.”
**RBC306.4.59 Section 608.17. Protection of individual water supplies.** Add a period after the word “contamination”, delete the rest of the sentence and section.

**RBC306.4.60 Section 610 Disinfection of potable water system.** Delete in its entirety.

**RBC306.4.61 Section 701.2 Sewer required.** Delete the words “in accordance with the *International Private Sewage Disposal Code*”.

**RBC306.4.62 Section 701.5 Damage to drainage system or public sewer.** Delete the words “as directed by the code official”.

**RBC306.4.63 Section 702.3 Building sewer pipe.** Delete in its entirety.

**RBC306.4.64 Section 702.6 Lead bends and traps.** Delete in its entirety.

**RBC306.4.65 Section 703. Building Sewer.** Delete in its entirety.

**RBC306.4.66 Section 705.8.2 Solvent cementing.** Add the following exception:

*Exception: Clear primer is acceptable.*

**RBC306.4.67 Section 705.14.2 Solvent cementing.** Add the following exception:

*Exception: Clear primer is acceptable.*

**RBC306.4.68 Table 706.3 Fittings for change of direction.** Delete footnotes a and b.

**RBC306.4.69 Section 708.3.1 Horizontal drains within buildings.** Delete and replace with the following:

Each horizontal drainage pipe shall be provided with a clean out at its upper terminal and each run of piping, which is more than one hundred (100) feet in total developed length, shall be provided with a cleanout for each one hundred (100) feet, or fraction thereof in length of such piping.

*Exceptions:*

1. Cleanouts may be omitted on a horizontal drain line less than five feet in length unless such line is serving sinks or urinals.
2. Cleanouts may be omitted on any horizontal drainage pipe installed on a slope of seventy-two degrees (1.26 rad) or less from the vertical (one-fifth bend).
3. Excepting the building drain and its horizontal branches, a cleanout shall not be required on any pipe or piping which is above the floor level of the lowest floor of the building.
4. An approved type of two-way cleanout fitting, installed inside the building wall near the connection between the building drain and building sewer or installed outside of a building at the lower end of the building drain and extended to grade, may be substituted for an upper terminal cleanout.

**RBC306.4.70 Section 708.3.2 Building Sewers.** Delete in its entirety.

**RBC306.4.71 Section 708.3.3 Changes of direction.** Delete and replace with the following:

An additional cleanout shall be provided in a drainage line for each aggregate horizontal change of direction exceeding one hundred thirty-five (135) degrees (2.36 rad).

**RBC306.4.72 Section 708.3.4 Base of stack.** Delete in its entirety.
RBC 306.4…Section 708.3.3 Change of direction. Delete the section and insert: Where more than one change of direction greater than 45 degrees occurs in a run of piping by a single fitting within the building drain, only one cleanout shall be required for every 40 feet of developed length of the drainage piping.

RBC306.4.73 Section 708.3.6 Manholes. Delete in its entirety.

RBC306.4…Section 708.10 Cleanout equivalent. Add new section to read: Cleanout equivalent. A fixture trap or a fixture with integral trap, readily removable without disturbing concealed piping shall be acceptable as a cleanout equivalent.

RBC306.4.74 Table 709.1 Drainage fixture units for fixtures and groups. Add footnote h to “shower” and the following footnote to the table: h. Size shower drains by the total flow rate through showerheads and body sprays as follows:

<table>
<thead>
<tr>
<th>Flow rate:</th>
<th>Min. Trap Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.7 gpm and less</td>
<td>1-1/2</td>
</tr>
<tr>
<td>&lt;5.7 to 12.3 gpm</td>
<td>2</td>
</tr>
<tr>
<td>&lt;12.3 to 25.8 gpm</td>
<td>3</td>
</tr>
<tr>
<td>&lt;25.8 to 55.6 gpm</td>
<td>4</td>
</tr>
</tbody>
</table>

RBC306.4.74 Section 712.2. Valves required. Delete the Exception entirely.

RBC306.4.75 Section 712.4.1 Macerating toilet systems. Delete in its entirety.

RBC306.4.76 Section 712.4.2 Capacity. Delete exception #2.

RBC306.4.77 Section 715 Backwater Valves. Delete in its entirety.

RBC306.4.78 Section 802.1.7 Commercial dishwashing machines. Delete and replace with the following: The discharge from a commercial dishwashing machine shall be through an air gap or air break into a standpipe or the tailpiece of a waste receptor.

RBC306.4… Section 802.3.2 Open hub waste receptors. Delete the words: water-impervious from the sentence.

RBC306.4… Section 903.2 Vent termination. Delete the section and replace with: Every vent stack or stack vent shall terminate outdoors to the open air.

RBC306.4.79 Section 904.1 Roof extensions. Replace with the word “six” for [number] and change (mm) to read (152mm).

RBC306.4… Section 904.5 Location of vent terminals. Delete the section and replace with: An open vent terminal from a drainage system shall not be located less than 4 feet directly beneath any door, openable window, or other air intake opening of the building or of an adjacent building, and any such terminal shall not be within 10 feet horizontally of such an opening unless it is at least 3 feet above the top of such opening.

RBC306.4.80 Section 917.3 Where permitted. Delete the section and replace with: Automatic air admittance valves may be permitted for use on fixtures located on the same floor at the following locations: Islands, peninsulas, under windows, at bearing
walls, basement finish, renovations, tenant improvements and other applications where conventional venting methods are not possible due to existing construction and structural conditions.

**RBC306.4... Section 1002.1 Fixture traps.** Add a new exception #4 to read:

4. A three compartment commercial kitchen sink may be drained with a continues waste with the Ptrap located at the far end of the row of sinks.

**RBC306.4.81 Section 1002.4 Trap seals.** Delete the second sentence and replace with:
Where a trap seal is subject to loss by evaporation, a trap seal primer valve, or other approved method to prevent sewer gas from entering the space shall be installed.

*Add an exception to read:*

**Exception:** R-3 and the individual dwelling units of R-2 occupancies.

**RBC306.4.82 Section 1002.8 Recess for trap connection.** Delete the entire section.

**RBC306.4.83 Section 1002.10 Plumbing in mental health centers.** Delete the section and replace with:

**Plumbing in correctional and mental health centers.** In correctional and mental health centers, pipes and traps shall not be exposed.

**RBC306.4.84 Section 1003.3.4 Grease traps and grease interceptors.** Delete the words grease interceptor from the section heading and body.

**RBC306.4... Section 1003.4 Oil separators required.** Delete the exception and insert: **Exception:** An oil separator is not required in hydraulic elevator pits where an oil minder pump is installed.

**RBC306.4... Section 1003.6 Laundries Delete section and insert:** Laundry facilities not installed within an individual dwelling unit, intended for individual family use, or a single residential type clothes washer installed in other than a dwelling unit, shall be equipped with a wire basket, screen or similar device, removable for cleaning, that prevents the passage into the drainage system of solids 0.5 inch or larger in size, string, rags, buttons, or other materials detrimental to the public or private sewage system.

**RBC306.4.85 Section 1101.2 Where required.** Delete the first sentence and replace with:
All roofs shall drain into a storm sewer system, or to an approved place of disposal.

**RBC306.4.86 Section 1101.8 Cleanouts required.** Delete the exception.

**RBC306.4.87 Section 1101.9 Backwater valves.** Delete in its entirety.

**RBC306.4.88 Section 1102.5 Subsoil drain pipes.** Delete in its entirety.

**RBC306.4.89 Section 1103 Traps.** Delete in its entirety.

**RBC306.4.90 Section 1104.2 Combining storm with sanitary drainage.** Delete in its entirety.

**RBC306.4... Section 1106.6.1 Roof gutter locations.** Add a new Section 1106.6.1 to read: **Roof gutter locations.**

All roof gutter drainage systems shall be
installed to the exterior of the building structure only, beyond the furthest edge of a sloped roof. Roof gutters shall not be installed to the inside of parapet walls or similar construction.

**RBC306.4...Section 1106.6 Size of roof gutters.** Add an exception to read: **Exception:** One and two family dwellings shall comply with the International Residential Code.

**RBC306.4...Section 1107.3 Size of secondary drains.** Add two sentences to the end of the subsection reading: Scuppers shall be sized per table 1107.3. Secondary drain openings shall not be more than 2 inches above the inlet level of the primary drain.

**Table 1107.3**

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<thead>
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<th>4</th>
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</tr>
</tbody>
</table>

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 gallon per minute = 3.785 L/min.

Based on the Francis formula:

\[ Q = 3.33 (L - 0.2H)^{2/3} \]

where:

- \( Q \) = Flow rate (cubic feet per second).
- \( L \) = Length of scupper opening (feet).
- \( H \) = Head on scupper (foot (measured 6 feet back from opening)).

**RBC306.4.91 Section 1108 Combined sanitary and storm system.** Delete in its entirety.

**RBC306.4.92 Section 1111 Subsoil drains.** Delete in its entirety.

**RBC306.4.93 Section 1112 Building Subdrains.** Delete and replace with the following:
Building Storm Subdrains.

**RBC306.4.94 Section 1112.1 Building Subdrains.** Delete the section and replace with:

**Building storm subdrains.** Building storm subdrains located below the public storm sewer level shall discharge into a sump or receiving tank, the contents of which shall be automatically lifted and discharged into the storm drainage system as required for building sumps. The sump and pumping equipment shall comply with section 1113.1.

**Finished 5.20.08**