

## **2024 IPC Proposed Amendments**

***The amendments listed here are for discussion and don't include all of the amendments listed by the City and County.***

*County Amendment – Is this still required?*

**301.4.1 Individual metering in new multi-family residential units.** The water supply to all new multi-family residential buildings shall be individually metered for each dwelling unit. The metering may be private or utility installed.

*The original amendment should be modified as follows since the 2024 lists acceptable discharge locations.*

**Section 314.2.1.1 Condensate discharge.** REVISE Section by ADDING the following at the end of the paragraph:

Condensate discharged to the exterior of the building shall be as follows:

1. At or below grade outside the building in an area capable of absorbing the condensate flow without surface drainage.
2. Over roof drains or guts or downspouts that connect to drainage pipes provided they terminate at or above grade in an area capable of absorbing the condensate flow without surface drainage.

*This is a City amendment, should this be included for the County? This will also need to be in the IBC Amendments.*

**Section 405.3.2 Public lavatories.** REVISE Section by ADDING an exception as follows:

Gender neutral restroom configurations that consist of a continuous bank of single user rooms may share lavatories provided the quantity of lavatories is not reduced and the lavatories are located directly outside the single user rooms.

*Although Section 410.1 mentions water coolers and dispensers, this section still needs to be added for clarification.*

**Section 410.4 Substitution.** REVISE section by ADDING a second sentence to read: When a single drinking fountain is required, it may be substituted with a point of use water cooler or dispenser.

*This should be in 419*

**ADD new Section 412.1.1.1 or 419.7 to read:**

**412.1.1.1 or 419.7 Automatic faucets.** New or replacement faucets serving lavatories in all buildings other than R3 occupancies, individual units in R2 occupancies, or International Residential Code structures shall be provided with automatic faucets in accordance with 419.6.

*This needs to be added to the City amendments since the table has the flow pressure removed.*

**Section 604.3 Water distribution system design criteria.** REVISE section by DELETING the last sentence and REPLACING it with the following:

The minimum flow rate for fixtures and appliances not listed in Table 604.3 shall be in accordance with the manufacturer's installation instructions. The minimum flow pressure at the fixture or appliance shall be 15 psi or the flow pressured prescribed by the fixture or appliance manufacturer.

*This needs to remain in both the City and County since it hasn't changed.*

**Table 604.3 Water distribution system design criteria required capacity at fixture supply pipe outlets.** REVISE able by DELETING the column titled "Flow Pressure psi" in its entirety.

*This is being adopted by the City, does the County also want to adopt this? Note that the lavatories and showerheads don't change. If not, the County needs to at least change to the waterless urinal in this section.*

**SECTION 604.4 Maximum flow and water consumption.** DELETE Section 604.4 and REPLACE with the following:

The maximum water consumption flow rates and quantities for all plumbing fixtures and fixture fittings shall be in accordance with Table 604.4 and such fixtures and fixture fittings shall be Environmental Protection Agency (EPA) WaterSense Certified fixtures or within the maximum flow or quantity required of WaterSense Certified fixtures, excluding fixture types that are not included under the WaterSense Program.

**Exceptions:**

1. Blowout design water closets having a water consumption not greater than 3 ½ gallons (13L) per flushing cycle.
2. Vegetable sprays.
3. Clinical sinks having a water consumption not greater than 4 ½ gallons (17L) per flushing cycle.
4. Service sinks.
5. Emergency showers.
6. Replacement of existing fixtures that do not require a permit.

**Table 604.4 Maximum Flow Rates and Consumption for Plumbing Fixtures and Fixture Fittings.** REVISE Table as follows:

Plumbing Fixture or Fixture Fitting	Maximum Flow Rate or Quantity (b)
Lavatory, private	1.5 gpm at 60 psi
Lavatory, public	0.25 gallon per metering cycle
Lavatory, public (other than metering)	0.5 gpm at 60 psi
Showerheads a, c	2.0 gpm at 80 psi
Sink faucet	1.8 gpm at 80 psi
Flushing Urinals	0.5 gallons/flush
Water Closet	1.28 gallons/flush

*Is this 12" requirement really necessary? If not, still need to change language to allow a backwater valve to be installed if an ejector pump is provided.*

**Section 714.1 Sewage backflow.** REVISE section by DELETING the paragraph and ADDING new text to read:

Where the finish floor elevation is less than 12 inches above the elevation of the next upstream manhole cover in the sewer, a backwater valve shall be installed in the building drain or branch of the building drain serving that floor. Floors discharging from above that reference point shall not discharge through the same back water valve.

*This needs to be added to allow floor sinks serving condensate drains and hand sinks to discharge through the interceptor.*

**Section 1003.2 Approval.** DELETE and Replace the last sentence as follows:

Wastes from drains serving the kitchen, such as condensate and hand sinks, shall discharge through the interceptor. Water closets and urinals and wastes that do not require treatment or separation and are not in the kitchen shall not be discharged into any interceptor or separator.

*This section needs to have the hydromechanical section modified to allow non-PDI type grease interceptors to be accepted. These manufacturers also wanted us to consider requiring the interceptors to be sized for 90 day pump out schedule instead of 30 day. Also, require them to have a material that is compatible with a fluid pH of 3.0. This would eliminate most manufacturers.*

**Section 1003.3 Grease interceptors.** DELETE Section and Table 1003.3.5.1 and REPLACE with the following:

#### **1. Fixtures**

Fixtures to be connected to a grease interceptor located within the kitchen area or subject to grease waste a

- Pre-rinse and or pre-wash sinks
- Two or three compartment sinks
- Meat prep sink
- Wok stoves
- Self-cleaning stove ventilation/exhaust hood
- Kitchen floor drains
- Floor sinks
- Mop sinks
- Food prep sinks
- Hand sinks b
- Dishwasher
- Food waste disposal units c

a. Depending on use and context, the requirement for above listed fixtures to drain through an interceptor may be appealed to RWRD.

- b. A hand wash sink located in the kitchen area shall either discharge through a grease interceptor or have a sign posted above it stating: "HANDWASH SINK ONLY! NO FOOD PREPARATION OR DISHWASHING ALLOWED."
- c. Discharges from food waste disposal units must drain through a maximum 3/8 inch screen.

**2.A. Hydromechanical grease interceptors meeting PDI G101.**

Hydromechanical grease interceptors (HGI) manufactured and designed per PDI G101, which are generally installed inside, may be used when there are four (4) or fewer fixtures. The minimum size HGI to be installed shall be rated no smaller than 25 gallon per minute with a 50 pound grease capacity. Flow Control devices shall be designed and installed so that the total flow through such devices shall at no time be greater than the rated flow.

*Exception: If a dishwasher or food waste disposal unit is used in the facility, an HGI cannot be used and an appropriately sized GGI or alternative pretreatment device, capable of accepting these wastes, must be installed.*

**2.B. Hydromechanical grease interceptors meeting ASME A112.14.3.**

Hydromechanical grease interceptors (HGI) manufactured, designed, and certified to ASME A112.14.3 for grease production sizing and flow rate shall be installed per manufacturer's requirements.

**3. Grease interceptor sizing criteria**

Gravity grease interceptor (GGI) shall be sized in accordance with table or formula below

<b>Gravity Grease Interceptors Table</b>	<b>Minimum Size (gallons)</b>
Drainage Fixture Units per table defined in Pima County Industrial Wastewater Ordinance 13.36.420 (C)	
Up to 10 DFU	300
11-16 DFU	500
17-25 DFU	750
26-33 DFU	1,000
34-44 DFU	1250
45-66 DFU	1500
67-111 DFU	2000
Greater than 112 DFU	Contact Industrial Wastewater Control

Gravity grease interceptors shall be designed and tested in accordance with IAPMO/ANSI Z1001. GGIs shall be installed per manufacturer's instructions. Where manufacturer's instructions are not provided, GGIs shall be installed in compliance with ASME A112.14.6 and IAPMO/ANSI Z1001.

Grease interceptors shall have a minimum of two compartments and two man-ways. All man-ways shall have a minimum 20" inside diameter.

Grease interceptor discharge shall be vented in accordance with chapter 9, provided with cleanout in accordance with section 708, and directly connected to the sanitary drainage system.

*This section needs to be clarified to allow exterior fixtures.*

**Section 1101.3 Prohibited drainage.** REVISE section by ADDING the following at the end of the paragraph:

Exception: Exterior fixtures, installed to prevent drainage outside of the fixture or pan, are acceptable.