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Tony Evers, Governor
Dan Hereth, Secretary

HYBRID (IN-PERSON/VIRTUAL)
PLUMBING CODE ADVISORY COMMITTEE MEETING
N208, 4822 Madison Yards Way, Madison
Contact: Brad Wojciechowski (608) 266-2112
July 18, 2025

The following agenda describes the issues that the Committee plans to consider at the meeting. At the time of the meeting, items may be removed from the agenda. Please consult the meeting minutes for a record of the actions of the Committee.

AGENDA

9:00 A.M.

OPEN SESSION – CALL TO ORDER – ROLL CALL

A. Adoption of Agenda (1-2)

B. Approval of Minutes for June 20, 2025 (3-8)

C. Reminders: Scheduling Concerns

D. Introductions, Announcements and Recognition

E. Administrative Matters – Discussion and Consideration
1) Department, Staff and Committee Updates
2) Committee Members
   a. Kiedrowski, Joseph T.
   b. Kressin, Justin T.
   c. Lorge, Randy R.
   d. Musolff, Roger M.
   e. Sheahan, Thomas J.
   f. Statz, Spencer M.
   g. Wanger, Andy A.

F. Administrative Rule Matters – Discussion and Consideration (9-45)
1) Proposed updates to SPS Rules relating to Plumbing Code **(10-31)**
2) Department presentation on Water Demand Calculator **(32-45)**
3) Pending or possible rulemaking items

G. Legislative and Policy Matters – Discussion and Consideration

H. Discussion and Consideration of Items Added After Preparation of Agenda
1) Introductions, Announcements and Recognition
2) Administrative Matters
3) Election of Officers
4) Appointment of Liaisons and Alternates
5) Delegation of Authorities

6) Education and Examination Matters
7) Credentialing Matters
8) Legislative and Policy Matters
9) Administrative Rule Matters
10) Council Liaison Training and Appointment of Mentors
11) Informational Items
12) Division of Legal Services and Compliance (DLSC) Matters
13) Motions
14) Petitions
15) Appearances from Requests Received or Renewed

I. Public Comments

ADJOURNMENT

NEXT MEETING: AUGUST 22, 2025

****

MEETINGS AND HEARINGS ARE OPEN TO THE PUBLIC, AND MAY BE CANCELLED WITHOUT NOTICE.

Times listed for meeting items are approximate and depend on the length of discussion and voting. All meetings are held virtually unless otherwise indicated. In-person meetings are typically conducted at 4822 Madison Yards Way, Madison, Wisconsin, unless an alternative location is listed on the meeting notice. In order to confirm a meeting or to request a complete copy of the board's agenda, please visit the Department website at https:\\dsps.wi.gov. The board may also consider materials or items filed after the transmission of this notice. Times listed for the commencement of any agenda item may be changed by the board for the convenience of the parties. The person credentialed by the board has the right to demand that the meeting at which final action may be taken against the credential be held in open session. Requests for interpreters for the hard of hearing, or other accommodations, are considered upon request by contacting the Affirmative Action Officer or reach the Meeting Staff by calling 608-267-7213.

HYBRID (IN-PERSON/VIRTUAL)
PLUMBING CODE ADVISORY COMMITTEE MEETING
MEETING MINUTES
JUNE 20, 2025

PRESENT: Joseph Kiedrowski, Justin Kressin *(virtual)*, Randy Lorge *(virtual)*, Roger Musolff, Thomas Sheahan *(virtual)*, Spencer Statz, Andy Wagner *(virtual)*

STAFF: Brad Wojciechowski, Executive Director; Joseph Ricker, Legal Counsel; Jake Pelegrin, Administrative Rule Coordinator; Ashley Sarnosky, Board Administrative Specialist; Garry Krause, Bureau Director; Michael McNally, Chief, Integrated Services Section; Ryan Boebel, Plumbing Plan Reviewer; and other Department Staff

CALL TO ORDER

Joseph Kiedrowski, Secretary, called the meeting to order at 9:03 a.m. A quorum was confirmed with seven (7) members present.

ADOPTION OF AGENDA

MOTION: Roger Musolff moved, seconded by Spencer Statz, to adopt the Agenda as published. Motion carried unanimously.

APPROVAL OF MINUTES MAY 16, 2025

MOTION: Spencer Statz moved, seconded by Justin Kressin, to approve the Minutes from May 16, 2025, as amended. Motion carried unanimously.

ADMINISTRATIVE RULE MATTERS

Proposed updates to SPS Rules relating to Plumbing Code

MOTION: Roger Musolff moved, seconded by Justin Kressin, to approve item number 13a on SPS 382.40 (6) (c) with the following amended language:

382.40 Water supply systems.

...

(6) LOAD FACTORS FOR WATER SUPPLY SYSTEMS.

...

(c) *Water heating sizing alternate approval.* The load factor for an individual water heater serving an individual residence, apartment, living unit of a hotel or motel, and similar places where plumbing fixtures are intended for use by an individual or family, to the exclusion of all others, may be calculated as follows:

1. The minimum flow rate of a water heater may be obtained by multiplying 0.65 by the calculated hot water gallons per minute demand calculated in accordance with ~~Table~~ Tables 382.40-1b ~~by a factor of 0.65~~ and 382.40-3.

2. The flow rate for a storage tank type water heater may be calculated based on a 70% usable storage plus the recovery rate and a 10 minute minimum draw time.

3. The flow rate for ~~tankless type~~ instantaneous water heaters shall be based on a temperature increase that will provide 110°F at the most remote ~~terminus~~ terminal fixture or

faucet.

4. This alternate sizing method may not be applied to any of the following:

a. Water heaters serving high flow fixtures, hose ~~bibs~~ bibbs, hydrants or fixtures requiring 1/2 inch or larger supply piping. High flow fixtures are fixtures with flow rates greater than 4 gpm at 80 psig and a water velocity less than or equal to 8 feet per second.

b. Sizing hot water distribution piping.

Motion carried unanimously.

MOTION: Spencer Statz moved, seconded by Roger Musolff, to approve item number 53b on SPS 382.34 (15) (g) with the following amended language:

382.34(15)(g) ~~*Vacuum relief.* A vacuum relief valve shall be installed in each water treatment appliance and installed more than 20 feet above any faucet or outlet served by the appliance when measured from the bottom of the tank.~~

Motion carried unanimously.

MOTION: Spencer Statz moved, seconded by Thomas Shehan, to approve item number 54 on Table 382.36-3 with the following amended language:

Table 382.36-3
Maximum Capacity of Stormwater Conveyance Piping for Cast Iron, ASTM A74 and ASTM A888

Nominal Pipe Size (in inches)	Maximum Capacities in Gallons Per Minute (gpm)					
	Pitch of Piping Per Foot					
	1/32 inch (0.16% slope)	1/16 inch (0.52% slope)	1/8 inch (1.04% slope)	1/4 inch (2.08% slope)	1/2 inch (2.08% slope)	Vertical
2	N/A	~~N/A~~ 10	~~N/A~~ 14	~~N/A~~ 20	~~N/A~~ 28	26[a]

Table 382.36-3
Maximum Capacity of Stormwater Conveyance Piping for Cast Iron, ASTM A74 and ASTM A888

Nominal Pipe Size (in inches)	Maximum Capacities in Gallons Per Minute (gpm)					
	Pitch of Piping Per Foot					
	1/32 inch (0.16% slope)	1/16 inch (0.52% slope)	1/8 inch (1.04% slope)	1/4 inch (2.08% slope)	1/2 inch (2.08% slope)	Vertical
2	N/A	10	14	20	28	26[a]

Motion carried unanimously.

MOTION: Andy Wagner moved, seconded by Thomas Sheahan, to approve item number 56 on SPS 382.39 with the following amended language:

382.30 (15) Elevator threshold drains. Elevator emergency threshold drains provided to meet the requirements of International Building Code s. 3007.3 or 3008.3, as adopted and modified by

chs. SPS 361 to 366, may be used only to minimize infiltration of water from fire sprinklers into elevator hoistways. Such drains may not receive other water including wastewater. Elevator threshold drains shall comply with all of the following:

(a) In lieu of individual traps, a single trap may serve multiple threshold drains on a single floor serving a single hoistway.

Note: Per SPS 318.1004(12s) "Hoistway" means a shaft or opening through a building or structure for the travel of elevators, dumbwaiters, or material lifts, extending from the pit floor to a ceiling above.

(b) Where multiple elevator threshold drains are served by one trap, an untrapped threshold drain may serve the cleanout requirements under s. SPS 382.35 (3) (a) and is exempt from s. SPS 382.35 (3) (g).

(c) Discharge shall be as specified in Table 382.38-1, line 4m.

(d) A drain stack serving only threshold drains serving elevator door areas may utilize a combination drain and vent system under s. SPS 382.31 (17) (d).

(e) Elevator threshold drains are exempt from safing requirements under s. SPS 384.20 (4) (b) 9.

(f) The elevator threshold drain stack utilizing a combination drain and vent as permitted by s. SPS 382.31 (17) (d) may not be combined with other plumbing prior to discharging to the building drain or other discharge points.

(g) Elevator threshold drain traps shall comply with s. SPS 382.32 (3) (c) 1.

(h) The drain stack shall be sized to accommodate the anticipated design discharge loads of the automatic fire sprinkler system.

Note: See ch. SPS 382 Appendix for further explanatory material.

382.39 Elevator threshold drains. Elevator emergency threshold drains provided to meet the requirements of International Building Code s. 3007.3 or 3008.3, as adopted and modified by chs. SPS 361 to 366, may be used only to minimize infiltration of water from fire sprinklers into elevator hoistways. Such drains may not receive other water including wastewater. Elevator threshold drains shall comply with all of the following:

(1) In lieu of individual traps, a single trap may serve multiple threshold drains on a single floor serving a single hoistway.

Note: Per SPS 318.1004(12s) "Hoistway" means a shaft or opening through a building or structure for the travel of elevators, dumbwaiters, or material lifts, extending from the pit floor to a ceiling above.

(2) Where multiple elevator threshold drains are served by one trap, an untrapped threshold drain may serve the cleanout requirements under s. SPS 382.35 (3) (a) and is exempt from s. SPS 382.35 (3) (g).

(3) Discharge shall be as specified in Table 382.38-1, line 4m.

(4) A drain stack serving only threshold drains serving elevator door areas may utilize a combination drain and vent system under s. SPS 382.31 (17) (d).

(5) Elevator threshold drains are exempt from safing requirements under s. SPS 384.20 (4) (b) 9.

(6) The elevator threshold drain stack utilizing a combination drain and vent as permitted by s. SPS 382.31 (17) (d) may not be combined with other plumbing prior to discharging to the building drain or other discharge points.

(7) Elevator threshold drain traps shall comply with s. SPS 382.32 (3) (c) 1.

(8) The drain stack shall be sized to accommodate the anticipated design discharge loads of the automatic fire sprinkler system.

Note: See ch. SPS 382 Appendix for further explanatory material.

Motion carried unanimously.

MOTION: Roger Musolff moved, seconded by Spencer Statz, to approve item number

57a on SPS 382.40 (3) (c) 4. with the following amended language:

382.40(3)(c)4. As used in this section, "closed water system" means a system provided with a check valve, backflow preventer, or other normally closed device that prevents dissipation of building pressure back into the water supply system. The water supply system shall be protected from thermal expansion when a closed water system is created. Any water heater, except for an instantaneous non-storage water heater, serving a closed water system shall be provided with an expansion tank or other approved device having a similar function to control thermal expansion.

Motion carried unanimously.

MOTION: Spencer Statz moved, seconded by Andy Wagner, to approve item number 60 SPS 382.40 (8) (L) with the following amended language:

382.40 Water Supply Systems

...

(8) INSTALLATION.

...

(L) *Vacuum relief.* A vacuum relief valve shall be installed in each water treatment appliance which, when measured from the bottom of the appliance, is located more than 20 feet above any faucet or outlet served by the appliance.

382.40 Water Supply Systems

...

(8) INSTALLATION.

...

(L) *Vacuum relief.* A vacuum relief valve shall be installed in each water treatment appliance which, when measured from the bottom of the heater or tank, is located more than 20 feet above any faucet or outlet served by the appliance.

Motion carried unanimously.

MOTION: Spencer Statz moved, seconded by Randy Lorge, to approve item number 61b SPS 382.41 (3) (c) 3. with the following amended language:

382.41(3)(c)3. The installation of a cross connection control ~~device~~ assembly in the water supply system for a building or structure shall not alleviate the requirement to provide cross connection control for the connection of each plumbing fixture, piece of equipment, appliance or other piping system.

382.41(3)(c)3. The installation of a cross connection control device or assembly in the water supply system for a building or structure shall not alleviate the requirement to provide cross connection control for the connection of each plumbing fixture, piece of equipment, appliance or other piping system.

Motion carried unanimously.

MOTION: Roger Musolff moved, seconded by Spencer Statz, to reject the previously approved item number 48 presented at the February 28, 2025 council meeting and to approve the following proposed language in item 66a:

384.40(12) PE PLASTIC PIPE AND TUBING. Joints between polyethylene plastic pipe, tubing or fittings shall be in accordance with pars. ~~(a) to~~ (b) and (c).

~~**(a)** *Flared joints.* Flared joints shall be made by use of a tool designed for that operation. Flared joints shall be made in accordance with ASTM D3140.~~

Motion carried unanimously.

MOTION: Roger Musolff moved, seconded by Randy Lorge, to approve item numbers
7d on SPS 382.32 (4) (b) 1. d.
8c on SPS 382.33 (9) (g) 1.
15a on SPS 382.40 (8) (b) 10.
23 on SPS 382.20 (1) (c)
24 on Table SPS 382.20-1
25 on SPS 382.20 (13) (e)
26 on Table SPS 382.22-1
27 on SPS 382.40 (3) (d) 4.
34b on SPS 382.40 (7) (g) 4.
51e on SPS 384.30 (1) (e)
53a on SPS 382.34 (5) (d) 4.
55 on SPS 382.36 (7) (d) 1m.
57b on SPS 382.40 (3) (f)
58 on SPS 382.40 (4) (c) 1. d.
59 on SPS 382.40 (6) (a)
61a on SPS 382.41 (3) (b) 6. b.
62a on SPS 382.41 (4) (a)
62b on SPS 382.41 (4) (k) 2m.
62c on SPS 382.41 (4) (m)
62d on SPS 382.41 (4) (n) 2.
63 on SPS 382.41 (5) (g)
64a on SPS 382.50 (3) (b) 11. b.
64b on SPS 382.50 (3) (b) 14.
65a on SPS 384.20 (5) (L) 4.
65b on SPS 384.20 (5) (L) 5.
66b on SPS 384.40 (12) (b)
66c on SPS 384.40 (12m)
67a on SPS 325.01 (1)
67b on SPS 325.01 (2) (a)
67c on SPS 325.01 (2) (b)
67d on SPS 325.01 (2) (c)
67e on SPS 325.01 (3)
67f on SPS 325.01 (4)
67g on SPS 325.01 (4) (a)
67h on SPS 325.01 (4) (b)
67i on SPS 325.01 (4) (c)
67j on SPS 325.01
68a SPS 382.32 (3) (a)
68b SPS 382.32 (3) (a) 3.
68c SPS 382.32 (3) (a) 4.
68d SPS 382.32 (3) (a) 5.

69 SPS 382.33 (5) (b)
70 SPS 382.34 (4) (c) as presented in the June 20, 2025 meeting agenda materials. Motion carried unanimously.

MOTION: Spencer Statz moved, seconded by Justin Kressin, to reject item numbers 13b on SPS 382.40 (6) (d)
52c on SPS 384.40 (16) (b) as presented in the June 20, 2025 meeting agenda materials. Motion carried unanimously.

ADJOURNMENT

MOTION: Spencer Statz moved, seconded by Roger Musolff, to adjourn the meeting. Motion carried unanimously.

The meeting adjourned at 11:08 a.m.

State of Wisconsin
Department of Safety & Professional Services

AGENDA REQUEST FORM

1) Name and title of person submitting the request:	2) Date when request submitted:
Jake Pelegrin **Administrative Rules Coordinator**	**7/10/25** **Items will be considered late if submitted after 12:00 p.m. on the deadline date which is 8 business days before the meeting**

3) Name of Board, Committee, Council, Sections:

Plumbing Code Advisory Council

4) Meeting Date:	5) Attachments:	6) How should the item be titled on the agenda page?
7/18/25	☒ Yes ☐ No	**Administrative Rule Matters – Discussion and Consideration** 1. Proposed updates to SPS Rules relating to Plumbing Code 2. Department presentation on Water Demand Calculator 3. Pending or possible rulemaking items

7) Place Item in:	8) Is an appearance before the Board being scheduled? *(If yes, please complete Appearance Request for Non-DSPS Staff)*	9) Name of Case Advisor(s), if required:
☒ Open Session ☐ Closed Session	☐ Yes ☒ No	**N/A**

10) Describe the issue and action that should be addressed:

Attachments:
-Proposed updates to SPS Rules relating to Plumbing Code
-Department presentation on Water Demand Calculator

11) Authorization

Jake Pelegrin 7/10/25

Signature of person making this request **Date**

Supervisor (if required) **Date**

Executive Director signature (indicates approval to add post agenda deadline item to agenda) **Date**

Directions for including supporting documents:
1. This form should be attached to any documents submitted to the agenda.
2. Post Agenda Deadline items must be authorized by a Supervisor and the Policy Development Executive Director.
3. If necessary, provide original documents needing Board Chairperson signature to the Bureau Assistant prior to the start of a meeting.

ITEM NO.	WI ADMIN CODE SPS SECTION AFFECTED	EXISTING LANGUAGE AND PROPOSED CHANGES TO SPS	PROPOSED CODE LANGUAGE	Table 384.11 No.	COMMENTS & STATUS
17	SPS 384.11	**OCTOBER 7, 2024 - PROPOSED** **SPS 384.11 Appurtenance, device, fixture, material, and method listings.** Appurtenances, devices, fixtures, materials and methods shall conform to the referenced standard in ~~Table 384.11~~ s. 381.20(3). Appurtenances, devices, fixtures, materials, and methods shall be listed by a nationally recognized, ANSI accredited, third party agency acceptable to the department. Appurtenances, devices, fixtures, materials, and methods that do not conform to the listed standards ~~may~~ in s. 381.20(3), or achieve code compliance ~~via Alternate or Experimental approvals in accordance~~ with s. SPS 384.50 or s. 381.20(2). **JULY 18, 2025 - PROPOSAL** **Code language to be determined.**	**OCTOBER 7, 2024 - PROPOSED** **SPS 384.11 Appurtenance, device, fixture, material, and method listings.** Appurtenances, devices, fixtures, materials and methods shall conform to the referenced standard in s. 381.20(3), or achieve code compliance with s. 384.50 or s. 381.20(2). **JULY 18, 2025 - PROPOSAL** **Code language to be determined.**	**N/A**	**OCTOBER 7, 2024 - COMMENT** Table 384.11 is a listing of all standards already adopted under SPS 381.20 (3). The Department recommends deleting Table 384.11 entirely since the standards are already listed in the tables under SPS 381.20 (3). **Presented by: Mike McNally** **JULY 18, 2025 - COMMENT** The department recommends removing SPS 384.11 since the items in Table 384.11 has been dispersed into various parts of SPS 382 and 384. **Presented by: Tony Martin**
REMOVAL OF TABLE 384.11 AFFECTED CODE SECTIONS					
71	Table 381.20-1	~~**TABLE 382.20-1**~~ ~~**AHAM**~~ — ~~**Association of Home Appliance Manufacturers, 1111 19th Street, NW Suite 402, Washington, DC 20036, Phone: 202-872-5955, Web page: www.aham.org**~~ ~~**Standard Reference Number**~~ / ~~**Title**~~ ~~DW-2-2020~~ — ~~Household Electric Dishwashers~~	*N/A (Code Language Removed)*	**6**	Recommend removal of this standard, it does not appear to address plumbing, it's more of a method for evaluating the performance of a dishwasher. Item 32c was approved by PCAC in February that addresses the cross connection control requirement. **Presenter: Ryan Boebel**
72	Table 381.20-3e	**Table 381.20-3e (Partial)** **ASME** — **American Society of Mechanical Engineers, Two Park Avenue, New York, New York 10016-5990, Phone: 800-843-2763, Website: www.asme.org** **Standard Reference Number** / **Title** ~~22. A112.19.4M-1994 (R2009)~~ — ~~Porcelain Enameled Formed Steel Plumbing Fixtures~~	*N/A (Code Language Removed)*	**4, 16, and 24**	ASME A112.19.1/CSA B45.2, Enameled Cast Iron and Steel Plumbing Fixtures is a consolidation and revision of ASME A112.19.1M-1994 and ASME A112.19.4M-1994. https://www.asme.org/codes-standards/find-codes-standards/a112-19-4m-porcelain-enameled-formed-steel-plumbing-fixtures/1994/pdf **Presented by: Ryan Boebel**
73	SPS 382.30	**382.30 Sanitary drain systems.** **(10)** SUMPS, EJECTORS AND PUMPS. **(c)** *Prefabricated pump and sump systems.* Macerating toilet systems and waste pumping systems for plumbing fixtures shall conform to ASME ~~A112.3.4-2018/CSA B45.9-18~~ A112.3.4/CSA B45.9. If unspecified by the manufacturer, the minimum capacity of a pump and sump system shall be determined in accordance with all of the following: ... **(11)** BUILDING DRAINS AND BUILDING SEWERS. ... **(e)** *Installation of building drains and building sewers.* ... **6**. Polyethylene piping for pressurized building sewers or pressurized private interceptor main sewers 3" or larger conforming to ASTM F714 may be installed through directional drilling adhering to ASTM F1962. **Note:** Directional drilling under navigable waters shall be in accordance with the department of natural resources under ch. 30, Stats. ... **(14)** VACUUM WASTE COLLECTION SYSTEMS. **(a)** Vacuum waste collection systems shall do all of the following: **1.** Conform to CSA ~~b45.13:19/IAPMO z1700-2019~~ B45.13/IAPMO Z1700.	**382.30 Sanitary drain systems.** **(10)** SUMPS, EJECTORS AND PUMPS. **(c)** *Prefabricated pump and sump systems.* Macerating toilet systems and waste pumping systems for plumbing fixtures shall conform to ASME A112.3.4/CSA B45.9. If unspecified by the manufacturer, the minimum capacity of a pump and sump system shall be determined in accordance with all of the following: ... **(11)** BUILDING DRAINS AND BUILDING SEWERS. ... **(e)** *Installation of building drains and building sewers.* ... **6**. Polyethylene piping for pressurized building sewers or pressurized private interceptor main sewers 3" or larger conforming to ASTM F714 may be installed through directional drilling adhering to ASTM F1962. **Note:** Directional drilling under navigable waters shall be in accordance with the department of natural resources under ch. 30, Stats. ... **(14)** VACUUM WASTE COLLECTION SYSTEMS. **(a)** Vacuum waste collection systems shall do all of the following: **1.** Conform to CSA B45.13/IAPMO Z1700.		
73a	SPS 382.30 (10) (c)	**382.30(10)(c)** *Prefabricated pump and sump systems.* Macerating toilet systems and waste pumping systems for plumbing fixtures shall conform to ASME ~~A112.3.4-2018/CSA B45.9-18~~ A112.3.4/CSA B45.9. If unspecified by the manufacturer, the minimum capacity of a pump and sump system shall be determined in accordance with all of the following:	**382.30(10)(c)** *Prefabricated pump and sump systems.* Macerating toilet systems and waste pumping systems for plumbing fixtures shall conform to ASME A112.3.4/CSA B45.9. If unspecified by the manufacturer, the minimum capacity of a pump and sump system shall be determined in accordance with all of the following:	**19**	Removed the year reference from the standard from SPS 382.30 (10) (c). **Presented by: Ryan Boebel**
73b	SPS 382.30 (11) (e) 6.	**382.30(11)(e)6.** Polyethylene piping for pressurized building sewers or pressurized private interceptor main sewers 3" or larger conforming to ASTM F714 may be installed through directional drilling adhering to ASTM F1962. **Note:** Directional drilling under navigable waters shall be in accordance with the department of natural resources under ch. 30, Stats.	**382.30(11)(e)6.** Polyethylene piping for pressurized building sewers or pressurized private interceptor main sewers 3" or larger conforming to ASTM F714 may be installed through directional drilling adhering to ASTM F1962. **Note:** Directional drilling under navigable waters shall be in accordance with the department of natural resources under ch. 30, Stats.	**149**	The Department recommends allowing only PE pipe conforming to ASTM F714 to be directional drilled per ASTM F1962 standard. **Presented by: Tony Martin**
73c	SPS 382.30 (14) (a) 1.	**382.31(14)(a)1.** Conform to CSA ~~b45.13:19/IAPMO z1700-2019~~ B45.13/IAPMO Z1700.	**382.31(14)(a)1.** Conform to CSA B45.13/IAPMO Z1700.	**128**	Removed the year reference from the standard for SPS 382.30 (14) (a) 1. **Presented by: Ryan Boebel**
74	SPS 382.40 (8) (b) 11.	**382.40 Water supply systems.** ... **(8)** INSTALLATION. ... **(b)** *Location.* ... **11.** Water service or private water main polyethylene piping conforming to ASTM D3035 may be installed through directional drilling adhering to ASTM F1962. **Note:** Directional drilling under navigable waters shall be in accordance with the department of natural resources under ch. 30, Stats.	**382.40 Water supply systems.** ... **(8)** INSTALLATION. ... **(b)** *Location.* ... **11.** Water service or private water main polyethylene piping conforming to ASTM D3035 may be installed through directional drilling adhering to ASTM F1962. **Note:** Directional drilling under navigable waters shall be in accordance with the department of natural resources under ch. 30, Stats.	**149**	The Department recommends allowing only PE pipe conforming to ASTM D3035 to be directional drilled per ASTM F1962 standard. **Presented by: Tony Martin**
29	SPS Table 382.41-1	**JANUARY 31, 2025 - APPROVED ITEM** ***See Exhibit C Item No. 29*** **JULY 18, 2025 - PROPOSAL** **Reject the proposal from January 31, 2025 and approve the following Exhibit.** ***See Exhibit C Item No. 29 - REVISED***	**JANUARY 31, 2025 - APPROVED ITEM** ***See Exhibit C Item No. 29*** **JULY 18, 2025 - PROPOSAL** **Reject the proposal from January 31, 2025 and approve the following Exhibit.** ***See Exhibit C Item No. 29 - REVISED***	**101, 102, 103, 104, 105, 106, 108, 109, 111, 113, 114, 115, 116, 117, 118, 119, 120, and 122**	**JANUARY 31, 2025 COMMENT** Table 382.41-2 has been removed from the plumbing code. The Department recommends removing references to Table 382.41-2. In addition, SPS 382.41 93) (a) 1. only references 'methods or devices' listed in Table 382.41-1. The reference shall include 'assemblies' as well. The Department recommends adding 'assemblies' to 'methods or devices' when referring to Table 382.41-1. **Presented by: Ryan Boebel** **JULY 18, 2025 COMMENT** Revised Table 382.41-1 to encompass CSA backflow preventers. **Presented by: Ryan Boebel**
75	SPS 382.41 (4) (i)	**382.41 Cross connection control.** ... **(4)** LIMITATIONS. ... **(i)** A vacuum breaker wall hydrant, freeze resistant automatic draining type, a dual check backflow preventer wall hydrant-freeze resistant type, or a freeze resistant sanitary yard hydrant, may not be employed in backpressure situations of more than 10 feet of water column.	**382.41 Cross connection control.** ... **(4)** LIMITATIONS. ... **(i)** A vacuum breaker wall hydrant, freeze resistant automatic draining type, a dual check backflow preventer wall hydrant-freeze resistant type, or a freeze resistant sanitary yard hydrant, may not be employed in backpressure situations of more than 10 feet of water column.	**112**	Dual check backflow preventer wall hydrant, freeze resistant type should be recognized as having the more than 10 feet restriction per ASSE 1053, just like the items currently listed. **Presenter: Ryan Boebel**

76	**SPS 384.20 (4) (b)**	**384.20 Plumbing fixtures, appliances and equipment.** ... **(4)** GENERAL REQUIREMENTS. ... **(b)** *Installation of fixtures.* ... **2.** 'Securing wall mounted fixtures.' Wall mounted fixtures shall be rigidly supported by a hanger which is attached to structural members so that the load is not transmitted to the fixture drain connection or any other part of the plumbing system. ~~The hanger for a wall mounted water closet shall conform to ASME A112.6.1M.~~ **a.** When a floor-affixed support is used for off-the-floor fixtures, the support shall conform to ASME A112.6.1M. **b.** When a carrier style manufactured framing-affixed support is used for off-the-floor fixtures, the support shall conform to ASME A112.6.2. **Note:** The adoption of these standards is intended for "carrier" style, manufactured supports. It is not intended to prohibit the use of other acceptable methods of hanging fixtures. Wood backing, for example, is also an acceptable method.	**384.20 Plumbing fixtures, appliances and equipment.** ... **(4)** GENERAL REQUIREMENTS. ... **(b)** *Installation of fixtures.* ... **2.** 'Securing wall mounted fixtures.' Wall mounted fixtures shall be rigidly supported by a hanger which is attached to structural members so that the load is not transmitted to the fixture drain connection or any other part of the plumbing system. **a.** When a floor-affixed support is used for off-the-floor fixtures, the support shall conform to ASME A112.6.1M. **b.** When a carrier style manufactured framing-affixed support is used for off-the-floor fixtures, the support shall conform to ASME A112.6.2. **Note:** The adoption of these standards is intended for "carrier" style, manufactured supports. It is not intended to prohibit the use of other acceptable methods of hanging fixtures. Wood backing, for example, is also an acceptable method.		
76a	**SPS 384.20 (4) (b) 2.**	**384.20(4)(b)2.** 'Securing wall mounted fixtures.' Wall mounted fixtures shall be rigidly supported by a hanger which is attached to structural members so that the load is not transmitted to the fixture drain connection or any other part of the plumbing system. ~~The hanger for a wall mounted water closet shall conform to ASME A112.6.1M.~~	**384.20(4)(b)2.** 'Securing wall mounted fixtures.' Wall mounted fixtures shall be rigidly supported by a hanger which is attached to structural members so that the load is not transmitted to the fixture drain connection or any other part of the plumbing system.	**27**	The ASME A112.6.1M and ASME A112.6.2 standards cover supports for more than just water closets. This language would also allow for compliance after the removal of Table 384.11, while still requiring both standards for "carrier" style supports. **Presenter: Ryan Boebel**
76b	**SPS 384.20 (4) (b) 2. a.**	**384.20(4)(b)2.a.** When a floor-affixed support is used for off-the-floor fixtures, the support shall conform to ASME A112.6.1M.	**384.20(4)(b)2.a.** When a floor-affixed support is used for off-the-floor fixtures, the support shall conform to ASME A112.6.1M.	**27**	The ASME A112.6.1M and ASME A112.6.2 standards cover supports for more than just water closets. This language would also allow for compliance after the removal of Table 384.11, while still requiring both standards for "carrier" style supports. **Presenter: Ryan Boebel**
76c	**SPS 384.20 (4) (b) 2. b.**	**384.20(4)(b)2.b.** When a carrier style manufactured framing-affixed support is used for off-the-floor fixtures, the support shall conform to ASME A112.6.2. **Note:** The adoption of these standards is intended for "carrier" style, manufactured supports. It is not intended to prohibit the use of other acceptable methods of hanging fixtures. Wood backing, for example, is also an acceptable method.	**384.20(4)(b)2.b.** When a carrier style manufactured framing-affixed support is used for off-the-floor fixtures, the support shall conform to ASME A112.6.2. **Note:** The adoption of these standards is intended for "carrier" style, manufactured supports. It is not intended to prohibit the use of other acceptable methods of hanging fixtures. Wood backing, for example, is also an acceptable method.	**28**	The ASME A112.6.1M and ASME A112.6.2 standards cover supports for more than just water closets. This language would also allow for compliance after the removal of Table 384.11, while still requiring both standards for "carrier" style supports. **Presenter: Ryan Boebel**
76d	**SPS 384.20 (5) (am)**	**384.20 Plumbing fixtures, appliances and equipment.** ... **(5)** PLUMBING FIXTURES AND PLUMBING APPLIANCES. **(am)** *Automatic Ice Making Equipment.* Automatic ice making equipment shall conform to NSF/ANSI 12.	**384.20 Plumbing fixtures, appliances and equipment.** ... **(5)** PLUMBING FIXTURES AND PLUMBING APPLIANCES. **(am)** *Automatic Ice Making Equipment.* Automatic ice making equipment shall conform to NSF/ANSI 12.	**12**	Create new paragraph to replace requirement listed in Table 384.11 (Line No. 12). **Presenter: Ryan Boebel**
77	**SPS 384.20 (5) (b) 1. b.**	**384.20 Plumbing fixtures, appliances and equipment.** ... **(5)** PLUMBING FIXTURES AND PLUMBING APPLIANCES. ... **(b)** *Bathtubs.* **1.** ... **b.** Porcelain enameled formed steel bathtubs shall conform to ASME ~~A112.19.4M~~ A112.19.1/CSA B45.2.	**384.20 Plumbing fixtures, appliances and equipment.** ... **(5)** PLUMBING FIXTURES AND PLUMBING APPLIANCES. ... **(b)** *Bathtubs.* **1.** ... **b.** Porcelain enameled formed steel bathtubs shall conform to ASME A112.19.1/CSA B45.2.	**4**	Updated SPS 384.20 (5) (b) 1. b. to the appropriate standard. It is ASME A112.19.1/CSA B45.2, Enameled Cast Iron and Steel Plumbing Fixtures. It is a consolidation and revision of ASME A112.19.1M-1994 and ASME A112.19.4M-1994. It also replaces CAN/CSA-B45.2-02 and CAN/CSA-B45.3-02. **Presented by: Ryan Boebel**
78	**SPS 384.20 (5) (g)**	**384.20 Plumbing fixtures, appliances and equipment.** ... **(5)** PLUMBING FIXTURES AND PLUMBING APPLIANCES. ... **(g)** *Floor and trench drains.* **1.** Floor and trench drains shall be provided with removable strainers of sufficient strength to carry the anticipated loads. **2.** The floor or trench drain shall be so constructed that it can be cleaned, and the drain inlet shall be accessible at all times. **3.** Floor and trench drains shall be of a size to efficiently serve the intended purpose. The floor or trench drain outlet shall not be less than 2 inches in diameter. **4.** Floor and trench drains shall conform to ASME A112.6.3.	**384.20 Plumbing fixtures, appliances and equipment.** ... **(5)** PLUMBING FIXTURES AND PLUMBING APPLIANCES. ... **(g)** *Floor and trench drains.* **1.** Floor and trench drains shall be provided with removable strainers of sufficient strength to carry the anticipated loads. **2.** The floor or trench drain shall be so constructed that it can be cleaned, and the drain inlet shall be accessible at all times. **3.** Floor and trench drains shall be of a size to efficiently serve the intended purpose. The floor or trench drain outlet shall not be less than 2 inches in diameter. **4.** Floor and trench drains shall conform to ASME A112.6.3.	**124**	Amended SPS 384.20 (5) (g) to incorporate ASME A112.6.3 for floor and trench drains. **Presented by: Ryan Boebel**
78a	**SPS 384.20 (5) (g)**	**(g)** *Floor and trench drains.*	**(g)** *Floor and trench drains.*	**124**	Amended SPS 384.20 (5) (g) to incorporate trench drains due to the adoption of ASME A112.6.3. **Presented by: Ryan Boebel**
78b	**SPS 384.20 (5) (g) 1.**	**1.** Floor and trench drains shall be provided with removable strainers of sufficient strength to carry the anticipated loads.	**1.** Floor and trench drains shall be provided with removable strainers of sufficient strength to carry the anticipated loads.	**124**	Amended SPS 384.20 (5) (g) 1. to incorporate trench drains due to the adoption of ASME A112.6.3. **Presented by: Ryan Boebel**
78c	**SPS 384.20 (5) (g) 2.**	**2.** The floor or trench drain shall be so constructed that it can be cleaned, and the drain inlet shall be accessible at all times.	**2.** The floor or trench drain shall be so constructed that it can be cleaned, and the drain inlet shall be accessible at all times.	**124**	Amended SPS 384.20 (5) (g) 2. to incorporate trench drains due to the adoption of ASME A112.6.3. **Presented by: Ryan Boebel**
78d	**SPS 384.20 (5) (g) 3.**	**3.** Floor and trench drains shall be of a size to efficiently serve the intended purpose. The floor or trench drain outlet shall not be less than 2 inches in diameter.	**3.** Floor and trench drains shall be of a size to efficiently serve the intended purpose. The floor or trench drain outlet shall not be less than 2 inches in diameter.	**124**	Amended SPS 384.20 (5) (g) 3. to incorporate trench drains due to the adoption of ASME A112.6.3. **Presented by: Ryan Boebel**
78e	**SPS 384.20 (5) (g) 4.**	**4.** Floor and trench drains shall conform to ASME A112.6.3.	**4.** Floor and trench drains shall conform to ASME A112.6.3.	**124**	Created SPS 384.20 (5) (g) 4. to incorporate ASME A112.6.3 for floor and trench drains. **Presented by: Ryan Boebel**
79	**SPS 384.20 (5) (j)**	**384.20 Plumbing fixtures, appliances and equipment.** ... **(5)** PLUMBING FIXTURES AND PLUMBING APPLIANCES. ... **(j)** *Lavatories.* **1.** **a.** Enameled cast iron lavatories shall conform to ASME ~~A112.19.1M~~ A112.19.1/CSA B45.2. **b.** Vitreous china lavatories shall conform to ASME ~~A112.19.2M~~ A112.19.2/CSA B45.1. **c.** Stainless steel lavatories shall conform to ASME ~~A112.19.3~~ A112.19.3/CSA B45.4. **d.** Porcelain enameled formed steel lavatories shall conform to ASME ~~A112.19.4~~ A112.19.1/CSA B45.2. **e.** Plastic lavatories shall conform to ~~ANSI Z124.3~~ CSA B45.5/IAPMO Z124.	**384.20 Plumbing fixtures, appliances and equipment.** ... **(5)** PLUMBING FIXTURES AND PLUMBING APPLIANCES. ... **(j)** *Lavatories.* **1.** **a.** Enameled cast iron lavatories shall conform to ASME A112.19.1/CSA B45.2. **b.** Vitreous china lavatories shall conform to ASME A112.19.2/CSA B45.1. **c.** Stainless steel lavatories shall conform to ASME A112.19.3/CSA B45.4. **d.** Porcelain enameled formed steel lavatories shall conform to ASME A112.19.1/CSA B45.2. **e.** Plastic lavatories shall conform to CSA B45.5/IAPMO Z124.		
79a	**SPS 384.20 (5) (j) 1. a.**	**384.20(5)(j)1.a.** Enameled cast iron lavatories shall conform to ASME ~~A112.19.1M~~ A112.19.1/CSA B45.2.	**384.20(5)(j)1.a.** Enameled cast iron lavatories shall conform to ASME A112.19.1/CSA B45.2.	**13**	Updated SPS 384.20 (5) (j) 1. a. to the appropriate standard. It is ASME A112.19.1/CSA B45.2, Enameled Cast Iron and Steel Plumbing Fixtures. It is a consolidation and revision of ASME A112.19.1M-1994 and ASME A112.19.4M-1994. It also replaces CAN/CSA-B45.2-02 and CAN/CSA-B45.3-02. **Presented by: Tony Martin**
79b	**SPS 384.20 (5) (j) 1. b.**	**384.20(5)(j)1.b.** Vitreous china lavatories shall conform to ASME ~~A112.19.2M~~ A112.19.2/CSA B45.1.	**384.20(5)(j)1.b.** Vitreous china lavatories shall conform to ASME A112.19.2/CSA B45.1.	**18**	Updated SPS 384.20 (5) (j) 1. b. to the proper number of the standard. **Presented by: Tony Martin**
79c	**SPS 384.20 (5) (j) 1. c.**	**384.20(5)(j)1.c.** Stainless steel lavatories shall conform to ASME ~~A112.19.3~~ A112.19.3/CSA B45.4.	**384.20(5)(j)1.c.** Stainless steel lavatories shall conform to ASME A112.19.3/CSA B45.4.	**17**	Updated SPS 384.20 (5) (j) 1. c. to the proper number of the standard. **Presented by: Tony Martin**

79d	**SPS 384.20 (5) (j) 1. d.**	**384.20(5)(j)1.d.** Porcelain enameled formed steel lavatories shall conform to ASME ~~A112.19.4~~ A112.19.1/CSA B45.2.	**384.20(5)(j)1.d.** Porcelain enameled formed steel lavatories shall conform to ASME A112.19.1/CSA B45.2.	**16**	Updated SPS 384.20 (5) (j) 1. d. to the appropriate standard. It is ASME A112.19.1/CSA B45.2, Enameled Cast Iron and Steel Plumbing Fixtures. It is a consolidation and revision of ASME A112.19.1M-1994 and ASME A112.19.4M-1994. It also replaces CAN/CSA-B45.2-02 and CAN/CSA-B45.3-02. **Presented by:Tony Martin**
79e	**SPS 384.20 (5) (j) 1. e.**	**384.20(5)(j)1.e.** Plastic lavatories shall conform to ~~ANSI Z124.3~~ CSA B45.5/IAPMO Z124.	**384.20(5)(j)1.e.** Plastic lavatories shall conform to CSA B45.5/IAPMO Z124.	**15**	Updated SPS 384.20 (5) (j) 1. e. to the proper number of the standard. **Presented by: Tony Martin**
80	**SPS 384.20 (5) (j) 2.**	**384.20 Plumbing fixtures, appliances and equipment.** ... **(5)** PLUMBING FIXTURES AND PLUMBING APPLIANCES. ... **(j)** *Lavatories.* ... **2.** Cultured marble vanity tops with an integral lavatory shall conform to ~~ANSI Z124.3~~ CSA B45.5/IAPMO Z124.	**384.20 Plumbing fixtures, appliances and equipment.** ... **(5)** PLUMBING FIXTURES AND PLUMBING APPLIANCES. ... **(j)** *Lavatories.* ... **2.** Cultured marble vanity tops with an integral lavatory shall conform to CSA B45.5/IAPMO Z124.	**14**	Updated SPS 384.20 (5) (j) 2. to the proper number of the standard. **Presented by: Tony Martin**
81	**SPS 384.20 (5) (L) 1.**	**384.20 Plumbing fixtures, appliances and equipment.** ... **(5)** PLUMBING FIXTURES AND PLUMBING APPLIANCES. ... **(L)** *Showers.* **1.** Prefabricated plastic showers and shower compartments shall conform to ~~ANSI A124.1.2~~ CSA B45.5/IAPMO Z124. Manufactured shower receptors and shower bases shall conform to ASME A112.19.1/CSA B45.2, ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4, or CSA B45.5/IAPMO Z124 .	**384.20 Plumbing fixtures, appliances and equipment.** ... **(5)** PLUMBING FIXTURES AND PLUMBING APPLIANCES. ... **(L)** *Showers.* **1.** Prefabricated plastic showers and shower compartments shall conform to CSA B45.5/IAPMO Z124. Manufactured shower receptors and shower bases shall conform to ASME A112.19.1/CSA B45.2, ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4, or CSA B45.5/IAPMO Z124 .	**21**	Updated SPS 384.20 (5) (L) 1. to all applicable standards. As a side note: ANSI A124.1.2 is not a standard. It is believed this was supposed to read ANSI Z124.1.2. The ANSI Z124.1.2 standard was replaced with CSA B45.5/IAPMO Z124. In addition, standards have been added for shower receptors and shower bases. **Presented by: Tony Martin**
82	**SPS 384.20 (5) (m)**	**384.20 Plumbing fixtures, appliances and equipment.** ... **(5)** PLUMBING FIXTURES AND PLUMBING APPLIANCES. … **(m)** *Sinks.* **1.** **a.** Enameled cast iron sinks shall conform to ASME ~~A112.19.1M~~ A112.19.1/CSA B45.2. **b.** Vitreous china sinks shall conform to ASME ~~A112.19.2~~ A112.19.2/CSA B45.1. **c.** Stainless steel sinks shall conform to ASME ~~A112.19.3~~ A112.19.3/CSA B45.4. **d.** Porcelain enameled formed steel sinks shall conform to ASME ~~A112.19.4~~ A112.19.1/CSA B45.2. **e.** Plastic sinks shall conform to ~~ANSI Z124.6~~ CSA B45.5/IAPMO Z124.	**384.20 Plumbing fixtures, appliances and equipment.** ... **(5)** PLUMBING FIXTURES AND PLUMBING APPLIANCES. … **(m)** *Sinks.* **1.** **a.** Enameled cast iron sinks shall conform to ASME A112.19.1/CSA B45.2. **b.** Vitreous china sinks shall conform to ASME A112.19.2/CSA B45.1. **c.** Stainless steel sinks shall conform to ASME A112.19.3/CSA B45.4. **d.** Porcelain enameled formed steel sinks shall conform to ASME A112.19.1/CSA B45.2. **e.** Plastic sinks shall conform to CSA B45.5/IAPMO Z124.		
82a	**SPS 384.20 (5) (m) 1. a.**	**384.20(5)(m)1.a.** Enameled cast iron sinks shall conform to ASME ~~A112.19.1M~~ A112.19.1/CSA B45.2.	**384.20(5)(m)1.a.** Enameled cast iron sinks shall conform to ASME A112.19.1/CSA B45.2.	**22**	Updated SPS 384.20 (5) (m) 1. a. to the appropriate standard. It is ASME A112.19.1/CSA B45.2, Enameled Cast Iron and Steel Plumbing Fixtures. It is a consolidation and revision of ASME A112.19.1M-1994 and ASME A112.19.4M-1994. It also replaces CAN/CSA-B45.2-02 and CAN/CSA-B45.3-02. **Presented by:Tony Martin**
82b	**SPS 384.20 (5) (m) 1. b.**	**384.20(5)(m)1.b.** Vitreous china sinks shall conform to ASME ~~A112.19.2~~ A112.19.2/CSA B45.1.	**384.20(5)(m)1.b.** Vitreous china sinks shall conform to ASME A112.19.2/CSA B45.1.	**26**	Updated SPS 384.20 (5) (m) 1. b. to the proper number of the standard. **Presented by: Tony Martin**
82c	**SPS 384.20 (5) (m) 1. c.**	**384.20(5)(m)1.c.** Stainless steel sinks shall conform to ASME ~~A112.19.3~~ A112.19.3/CSA B45.4.	**384.20(5)(m)1.c.** Stainless steel sinks shall conform to ASME A112.19.3/CSA B45.4.	**25**	Updated SPS 384.20 (5) (m) 1. c. to the proper number of the standard. **Presented by: Tony Martin**
82d	**SPS 384.20 (5) (m) 1. d.**	**384.20(5)(m)1.d.** Porcelain enameled formed steel sinks shall conform to ASME ~~A112.19.4~~ A112.19.1/CSA B45.2.	**384.20(5)(m)1.d.** Porcelain enameled formed steel sinks shall conform to ASME A112.19.1/CSA B45.2.	**24**	Updated SPS 384.20 (5) (m) 1. d. to the appropriate standard. It is ASME A112.19.1/CSA B45.2, Enameled Cast Iron and Steel Plumbing Fixtures. It is a consolidation and revision of ASME A112.19.1M-1994 and ASME A112.19.4M-1994. It also replaces CAN/CSA-B45.2-02 and CAN/CSA-B45.3-02. **Presented by: Tony Martin**
82e	**SPS 384.20 (5) (m) 1. e.**	**384.20(5)(m)1.e.** Plastic sinks shall conform to ~~ANSI Z124.6~~ CSA B45.5/IAPMO Z124.	**384.20(5)(m)1.e.** Plastic sinks shall conform to CSA B45.5/IAPMO Z124.	**23**	Updated SPS 384.20 (5) (m) 1. e. to the proper number of the standard. **Presented by: Tony Martin**
83	**SPS 384.20 (5) (n)**	**384.20 Plumbing fixtures, appliances and equipment.** ... **(5)** PLUMBING FIXTURES AND PLUMBING APPLIANCES. … **(n)** *Urinals.* **1.** **a.** Vitreous china urinals shall conform to ASME ~~A112.19.2~~ A112.19.2/CSA B45.1. **b.** Plastic urinals shall conform to ~~ANSI Z124.9~~ CSA B45.5/IAPMO Z124. ... **5.** Pressurized flushing devices to serve urinals shall conform to ASSE ~~1037~~ 1037/ASME A112.1037/CSA B125.37.	**384.20 Plumbing fixtures, appliances and equipment.** ... **(5)** PLUMBING FIXTURES AND PLUMBING APPLIANCES. … **(n)** *Urinals.* **1.** **a.** Vitreous china urinals shall conform to ASME A112.19.2/CSA B45.1. **b.** Plastic urinals shall conform to CSA B45.5/IAPMO Z124. ... **5.** Pressurized flushing devices to serve urinals shall conform to ASSE 1037/ASME A112.1037/CSA B125.37.		
83a	**SPS 384.20 (5) (n) 1. a.**	**384.20(5)(n)1.a.** Vitreous china urinals shall conform to ASME ~~A112.19.2~~ A112.19.2/CSA B45.1.	**384.20(5)(n)1.a.** Vitreous china urinals shall conform to ASME A112.19.2/CSA B45.1.	**30**	Updated SPS 384.20 (5) (n) 1. a. to the proper number of the standard. **Presented by: Tony Martin**
83b	**SPS 384.20 (5) (n) 1. b.**	**384.20(5)(n)1.b.** Plastic urinals shall conform to ~~ANSI Z124.9~~ CSA B45.5/IAPMO Z124.	**384.20(5)(n)1.b.** Plastic urinals shall conform to CSA B45.5/IAPMO Z124.	**29**	Updated SPS 384.20 (5) (n) 1. b. to the proper number of the standard. **Presented by:Tony Martin**
83c	**SPS 384.20 (5) (n) 5.**	**384.20(5)(n)5.** Pressurized flushing devices to serve urinals shall conform to ASSE ~~1037~~ 1037/ASME A112.1037/CSA B125.37.		**91**	Updated SPS 384.20 (5) (n) 5. to the proper number of the standard. **Presented by: Tony Martin**
84	**SPS 384.20 (5) (o)**	**384.20 Plumbing fixtures, appliances and equipment.** ... **(5)** PLUMBING FIXTURES AND PLUMBING APPLIANCES. … **(o)** *Water closets.* **1.** **a.** Vitreous china water closets shall conform to ASME ~~A112.19.2~~ A112.19.2/CSA B45.1. **b.** Plastic water closets shall conform to ~~ANSI Z124.4~~ CSA B45.5/IAPMO Z124.	**384.20 Plumbing fixtures, appliances and equipment.** ... **(5)** PLUMBING FIXTURES AND PLUMBING APPLIANCES. … **(o)** *Water closets.* **1.** **a.** Vitreous china water closets shall conform to ASME A112.19.2/CSA B45.1. **b.** Plastic water closets shall conform to CSA B45.5/IAPMO Z124.		
84a	**SPS 384.20 (5) (o) 1. a.**	**384.20(5)(o)1.a.** Vitreous china water closets shall conform to ASME ~~A112.19.2~~ A112.19.2/CSA B45.1.	**384.20(5)(o)1.a.** Vitreous china water closets shall conform to ASME A112.19.2/CSA B45.1.	**32**	Updated SPS 384.20 (5) (o) 1. a. to the proper number of the standard. **Presented by: Tony Martin**
84b	**SPS 384.20 (5) (o) 1. b.**	**384.20(5)(o)1.a.b.** Plastic water closets shall conform to ~~ANSI Z124.4~~ CSA B45.5/IAPMO Z124.	**384.20(5)(o)1.a.b.** Plastic water closets shall conform to CSA B45.5/IAPMO Z124.	**31**	Updated SPS 384.20 (5) (o) 1. b. to the proper number of the standard. **Presented by: Tony Martin**

<table>
<tr><td>32e</td><td>SPS 384.20 (5) (o) 6.</td><td>JANUARY 31, 2025 - APPROVED ITEM

384.20(5)(o)6. Each water closet shall be individually equipped with a flushing device. Pressurized flushing devices shall conform to ASSE 1037. All flushing devices shall be readily accessible for maintenance and repair. ~~Ballcocks and fill~~ Fill valves shall be of the anti-siphon type and shall conform to ASSE 1002. The critical level mark on the ~~ballcock and~~ anti-siphon fill valve shall be located at least one inch above the full opening of the overflow pipe.

JULY 18, 2025 - PROPOSAL

Reject the proposal from January 31, 2025 and approve the following language:

384.20(5)(o)6. Each water closet shall be individually equipped with a flushing device. Pressurized flushing devices shall conform to ASSE ~~1037~~ 1037/ASME A112.1037/CSA B125.37. All flushing devices shall be readily accessible for maintenance and repair. ~~Ballcocks and fill~~ Fill valves shall be of the anti-siphon type and shall conform to ASSE ~~1002~~ 1002/ASME A112.1002/CSA B125.12. The critical level mark on the ~~ballcock and~~ anti-siphon fill valve shall be located at least one inch above the full opening of the overflow pipe.</td><td>JANUARY 31, 2025 - APPROVED ITEM

384.20(5)(o)6. Each water closet shall be individually equipped with a flushing device. Pressurized flushing devices shall conform to ASSE 1037. All flushing devices shall be readily accessible for maintenance and repair. Fill valves shall be of the anti-siphon type and shall conform to ASSE 1002. The critical level mark on the anti-siphon fill valve shall be located at least one inch above the full opening of the overflow pipe.

JULY 18, 2025 - PROPOSAL

Reject the proposal from January 31, 2025 and approve the following language:

384.20(5)(o)6. Each water closet shall be individually equipped with a flushing device. Pressurized flushing devices shall conform to ASSE 1037/ASME A112.1037/CSA B125.37. All flushing devices shall be readily accessible for maintenance and repair. Fill valves shall be of the anti-siphon type and shall conform to ASSE 1002/ASME A112.1002/CSA B125.12. The critical level mark on the anti-siphon fill valve shall be located at least one inch above the full opening of the overflow pipe.</td><td>91</td><td>JANUARY 31, 2025 COMMENT

The language within SPS 384.20 (5) (o) 6. references 'Ballcocks and fill valves' conforming to ASSE 1002. ASSE 1002 standard covers anti-siphon fill valves, but does not cover 'ballcocks.' The Department recommends removing 'ballcocks' from SPS 384.20 (5) (o) 6.

Presented by: Ryan Boebel

JULY 18, 2025 COMMENT

Reject the proposal from January 31, 2025 and approve the language within SPS 384.20 (5) (o) 6. Updated to the proper numbers of the standards.

Presented by: Ryan Boebel</td></tr>
<tr><td>85</td><td>SPS 384.20 (5) (o) 7.</td><td>384.20 Plumbing fixtures, appliances and equipment.
...
(5) PLUMBING FIXTURES AND PLUMBING APPLIANCES.
…
(o) Water closets.
...
7. Personal hygiene devices installed on water closets shall conform to ASME A112.4.2/CSA B45.16</td><td>384.20 Plumbing fixtures, appliances and equipment.
...
(5) PLUMBING FIXTURES AND PLUMBING APPLIANCES.
…
(o) Water closets.
...
7. Personal hygiene devices installed on water closets shall conform to ASME A112.4.2/CSA B45.16</td><td>20</td><td>Create new subdivision to replace requirement listed in Table 384.11 (Line No. 20).

Presenter: Ryan Boebel</td></tr>
<tr><td>86</td><td>SPS 384.20 (5) (r)</td><td>384.20 Plumbing fixtures, appliances and equipment.
...
(5) PLUMBING FIXTURES AND PLUMBING APPLIANCES.
…
(r) Water treatment devices , chemicals, and components.
1. Water ~~softeners shall conform to NSF 44~~ treatment devices, chemicals, and components shall adhere to a standard in Table 384.20-2.</td><td>384.20 Plumbing fixtures, appliances and equipment.
...
(5) PLUMBING FIXTURES AND PLUMBING APPLIANCES.
…
(r) Water treatment devices, chemicals, and components.
1. Water treatment devices, chemicals, and components shall adhere to a standard in Table 384.20-2.</td><td></td><td></td></tr>
<tr><td>86a</td><td>SPS 384.20 (5) (r)</td><td>384.20(5)(r) Water treatment devices , chemicals, and components.</td><td>384.20(5)(r) Water treatment device s, chemicals, and components.</td><td>154, 188, 189, 190, 191, 192, 193, and 194</td><td>Revising the title of code section, SPS 384.20 (5) (r) to encompass lines items 154, 188, 189, 190, 191, 192, 193, and 194 from Table 384.11. Also, created a new Table 384.20-2 with all of the standards.

Presenter: Tony Martin</td></tr>
<tr><td>86b</td><td>SPS 384.20 (5) (r) 1.</td><td>384.20(5)(r)1. Water ~~softeners shall conform to NSF 44~~ treatment devices, chemicals, and components shall conform to a standard in Table 384.20-2.

SEE TABLE 384.20-2</td><td>384.20(5)(r)1. Water treatment devices, chemicals, and components shall conform to a standard in Table 384.20-2.

SEE TABLE 384.20-2</td><td>154, 188, 189, 190, 191, 192, 193, and 194</td><td>Revising the title of code section, SPS 384.20 (5) (r) 1. to encompass lines items 154, 188, 189, 190, 191, 192, 193, and 194 from Table 384.11. Also, created a new Table 384.20-2 with all of the standards.

Presenter: Tony Martin</td></tr>
<tr><td>86c</td><td>Table 384.20-2</td><td>Table 384.20-2
Water Treatment Devices, Chemicals, Components
<table><tr><th>Applicable Items</th><th>Referenced Standard</th></tr><tr><td>Drinking Water Treatment Units - Aesthetic Effects</td><td>NSF/ANSI 42</td></tr><tr><td>Residential Cation Exchange Water Softeners</td><td>NSF/ANSI 44</td></tr><tr><td>Drinking Water Treatment Units - Health Effects</td><td>NSF/ANSI 53</td></tr><tr><td>Ultraviolet Microbiological Water Treatment Systems</td><td>NSF/ANSI 55</td></tr><tr><td>Reverse Osmosis Drinking Water Systems</td><td>NSF/ANSI 58</td></tr><tr><td>Drinking Water Treatment Chemicals - Health Effects</td><td>NSF/ANSI/CAN 60</td></tr><tr><td>Drinking Water Distillation Systems</td><td>NSF/ANSI 62</td></tr><tr><td>Drinking Water System Components - Lead Content</td><td>NSF/ANSI 372</td></tr><tr><td>Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities</td><td>NSF/ANSI/CAN 50</td></tr></table></td><td>Table 384.20-2
Water Treatment Devices, Chemicals, Components
<table><tr><th>Applicable Items</th><th>Referenced Standard</th></tr><tr><td>Drinking Water Treatment Units - Aesthetic Effects</td><td>NSF/ANSI 42</td></tr><tr><td>Residential Cation Exchange Water Softeners</td><td>NSF/ANSI 44</td></tr><tr><td>Drinking Water Treatment Units - Health Effects</td><td>NSF/ANSI 53</td></tr><tr><td>Ultraviolet Microbiological Water Treatment Systems</td><td>NSF/ANSI 55</td></tr><tr><td>Reverse Osmosis Drinking Water Systems</td><td>NSF/ANSI 58</td></tr><tr><td>Drinking Water Treatment Chemicals - Health Effects</td><td>NSF/ANSI/CAN 60</td></tr><tr><td>Drinking Water Distillation Systems</td><td>NSF/ANSI 62</td></tr><tr><td>Drinking Water System Components - Lead Content</td><td>NSF/ANSI 372</td></tr><tr><td>Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities</td><td>NSF/ANSI/CAN 50</td></tr></table></td><td>154, 188, 189, 190, 191, 192, 193, and 194</td><td>Revising the title of code section, SPS 384.20 (5) (r) 1. to encompass lines items 154, 188, 189, 190, 191, 192, 193, and 194 from Table 384.11. Also, created a new Table 384.20-2 with all of the standards.

Presenter: Tony Martin</td></tr>
<tr><td>87</td><td>SPS 384.20 (6)</td><td>384.20 Plumbing fixtures, appliances and equipment.
...
(6) FAUCETS, SPOUTS AND FIXTURE SUPPLY CONNECTORS.
…
(a) ~~Except for circular and semi-circular wash fountains, all~~ All faucets and showerheads shall conform to ASME ~~A112.18.1 or CAN/CSA B125.1~~ A112.18.1/CSA B125.1.
~~(b)~~ ~~Circular and semi-circular wash fountains shall conform to the working pressure, burst pressure, discharge rate and product marking requirements of ASME A112.18.1 or CAN/CSA B125.~~
(c) Flexible fixture supply connectors shall conform to ASME ~~A112.18.6-2017/CSA B125.6-17~~ A112.18.6/CSA B125.6 and all of the following:</td><td>384.20 Plumbing fixtures, appliances and equipment.
...
(6) FAUCETS, SPOUTS AND FIXTURE SUPPLY CONNECTORS.
…
(a) All faucets and showerheads shall conform to ASME A112.18.1/CSA B125.1.
(c) Flexible fixture supply connectors shall conform to ASME A112.18.6/CSA B125.6 and all of the following:</td><td></td><td></td></tr>
<tr><td>87a</td><td>SPS 384.20 (6) (a)</td><td>384.20(6)(a) ~~Except for circular and semi-circular wash fountains, all~~ All faucets and showerheads shall conform to ASME ~~A112.18.1 or CAN/CSA B125.1~~ A112.18.1/CSA B125.1.</td><td>384.20(6)(a) All faucets and showerheads shall conform to ASME A112.18.1/CSA B125.1.</td><td>10</td><td>Updated SPS 384.20 (6) (a) to the appropriate standard.

Presented by: Tony Martin</td></tr>
<tr><td>87b</td><td>SPS 384.20 (6) (b)</td><td>384.20(6)~~(b)~~ ~~Circular and semi-circular wash fountains shall conform to the working pressure, burst pressure, discharge rate and product marking requirements of ASME A112.18.1 or CAN/CSA B125.~~</td><td>N/A (Code Language Removed)</td><td>10</td><td>Circular and semi-circular wash fountains are covered by ASME A112.18.1/CSA B125.1; therefore, SPS 384.20 (6) (b) is no longer needed.

Presented by: Tony Martin</td></tr>
<tr><td>87c</td><td>SPS 384.20 (6) (c)</td><td>384.20(6)(c) Flexible fixture supply connectors shall conform to ASME ~~A112.18.6-2017/CSA B125.6-17~~ A112.18.6/CSA B125.6 and all of the following:</td><td>384.20(6)(c) Flexible fixture supply connectors shall conform to ASME A112.18.6/CSA B125.6 and all of the following:</td><td>33</td><td>Remove the year reference from SPS 384.20 (6) (c) in the standard.

Presenter: Tony Martin</td></tr>
<tr><td>88</td><td>SPS 384.20 (7)</td><td>384.20 Plumbing fixtures, appliances and equipment.
...
(7) WASTEWATER TREATMENT COMPONENTS AND METHODS. Wastewater treatment components and methods, other than POWTS, shall conform to a standard in Table 384.20-3.

SEE TABLE 384.20-3</td><td>384.20 Plumbing fixtures, appliances and equipment.
...
(7) WASTEWATER TREATMENT COMPONENTS AND METHODS. Wastewater treatment components and methods, other than POWTS, shall conform to a standard in Table 384.20-3.

SEE TABLE 384.20-3</td><td>144, 147, 148, 157, 158, 160, 161, 162, 163, 164, 165, 167, 168, 169, 170, 171, 172, 173, 174, and 175</td><td>Created a new section, SPS 384.20 (7) to encompass lines items 144, 147, 148, 157, 158, 160, 161, 162, 163, 164, 165, 167, 168, 169, 170, 171, 172, 173, 174, and 175 from Table 384.11. Also, created a new Table 384.20-3 with all of the standards.

Presenter: Tony Martin</td></tr>
<tr><td>89</td><td>Table 384.20-3</td><td>Table 384.20-3
Wastewater Treatment Components and Methods
<table><tr><th>Applicable Components and Methods</th><th>Referenced Standard(s)</th></tr><tr><td>Drainfield Trench Product Sizing for Gravity Dispersal Onsite Wastewater Treatment and Dispersal Systems</td><td>NSF/ANSI 240</td></tr><tr><td>Evaluation of Components and Devices Used in Wastewater Treatment Systems</td><td>NSF/ANSI 46</td></tr><tr><td>FOG (Fats, Oils and Greases) Disposal Systems</td><td>ASME A112.14.6</td></tr><tr><td>Grease Interceptors</td><td>CSA B481 Series 12</td></tr><tr><td>Grease Interceptors, Corrugated HDPE</td><td>ASTM F2649</td></tr><tr><td>Grease Interceptors, Hydromechanical</td><td>ASME A112.14.3</td></tr><tr><td>Grease Interceptors, Precast Concrete</td><td>ASTM C1613</td></tr><tr><td>Grease Interceptors with FOG Sensing and Alarm Devices, Testing and Certification for</td><td>PDI-G 102</td></tr><tr><td>Grease Removal Devices</td><td>ASME A112.14.4</td></tr><tr><td>Hydro Mechanical Grease Interceptors with Appendix of Installation and Maintenance, Testing and Rating Procedure for</td><td>PDI-G 101</td></tr><tr><td>Installation of Thermoplastic Pipe and</td><td>ASTM F481</td></tr></table></td><td>Table 384.20-3
Wastewater Treatment Components and Methods
<table><tr><th>Applicable Components and Methods</th><th>Referenced Standard(s)</th></tr><tr><td>Drainfield Trench Product Sizing for Gravity Dispersal Onsite Wastewater Treatment and Dispersal Systems</td><td>NSF/ANSI 240</td></tr><tr><td>Evaluation of Components and Devices Used in Wastewater Treatment Systems</td><td>NSF/ANSI 46</td></tr><tr><td>FOG (Fats, Oils and Greases) Disposal Systems</td><td>ASME A112.14.6</td></tr><tr><td>Grease Interceptors</td><td>CSA B481 Series 12</td></tr><tr><td>Grease Interceptors, Corrugated HDPE</td><td>ASTM F2649</td></tr><tr><td>Grease Interceptors, Hydromechanical</td><td>ASME A112.14.3</td></tr><tr><td>Grease Interceptors, Precast Concrete</td><td>ASTM C1613</td></tr><tr><td>Grease Interceptors with FOG Sensing and Alarm Devices, Testing and Certification for</td><td>PDI-G 102</td></tr><tr><td>Grease Removal Devices</td><td>ASME A112.14.4</td></tr><tr><td>Hydro Mechanical Grease Interceptors with Appendix of Installation and Maintenance, Testing and Rating Procedure for</td><td>PDI-G 101</td></tr><tr><td>Installation of Thermoplastic Pipe and</td><td>ASTM F481</td></tr></table></td><td>144, 147, 148, 157, 158, 160, 161, 162, 163, 164, 165, 167, 168, 169, 170, 171, 172, 173, 174, and 175</td><td>Created a new section, SPS 384.20 (7) to encompass lines items 144, 147, 148, 157, 158, 160, 161, 162, 163, 164, 165, 167, 168, 169, 170, 171, 172, 173, 174, and 175 from Table 384.11. Also, created a new Table 384.20-3 with all of the standards.</td></tr>
</table>

		Corrugated Pipe in Septic Tank Leach Fields, Standard Practice for		Corrugated Pipe in Septic Tank Leach Fields, Standard Practice for	
		Non-Liquid Saturated Treatment Systems	NSF/ANSI 41	Non-Liquid Saturated Treatment Systems	NSF/ANSI 41
		Onsite Residential and Commercial Water Reuse Treatment Systems	NSF/ANSI 350	Onsite Residential and Commercial Water Reuse Treatment Systems	NSF/ANSI 350
		Onsite Residential and Commercial Greywater Treatment Systems for Subsurface Discharge	NSF/ANSI 350-1	Onsite Residential and Commercial Greywater Treatment Systems for Subsurface Discharge	NSF/ANSI 350-1
		Prefabricated Grease Interceptors	IAPMO/ANSI Z1001	Prefabricated Grease Interceptors	IAPMO/ANSI Z1001
		Prefabricated Septic Tanks and Sewage Holding Tanks, Design, Material and Manufacturing Requirements for	CSA B66	Prefabricated Septic Tanks and Sewage Holding Tanks, Design, Material and Manufacturing Requirements for	CSA B66
		Residential Wastewater Treatment Systems	NSF/ANSI 40	Residential Wastewater Treatment Systems	NSF/ANSI 40
		Residential Wastewater Treatment Systems – Nitrogen Reduction	NSF/ANSI 245	Residential Wastewater Treatment Systems – Nitrogen Reduction	NSF/ANSI 245
		Septic Tanks, Precast Concrete	ASTM C1227	Septic Tanks, Precast Concrete	ASTM C1227
		Water Quality Units, Corrugated HDPE	ASTM F2737	Water Quality Units, Corrugated HDPE	ASTM F2737
					Presenter: Tony Martin
90	**Table 384.30-5**	**Table 384.30-5 (Partial)** **PRESSURIZED DRAIN PIPE AND TUBING AND SERVICE SUCTION LINES**		**Table 384.30-5 (Partial)** **PRESSURIZED DRAIN PIPE AND TUBING AND SERVICE SUCTION LINES**	**149**
		Material	Standard	Material	Standard
		Polyethylene (PE)	ASTM F714	Polyethylene (PE)	ASTM F714
					The Department recommends allowing only PE pipe conforming to ASTM F714 to be directional drilled per the ASTM F1962 standard for pressurized building sewers and private interceptor main sewers. **Presented by: Tony Martin**
91	**SPS 384.30 (5) (a)**	**384.30 Plumbing materials.** ... **(5)** PIPE FITTINGS AND VALVES. **(a)** *Fittings.* Pipe fittings shall conform to the pipe material standards listed in this chapter or one of the standards listed in Table ~~384.30-11~~ 384.30-9. Threaded drain pipe fittings shall be of the recessed drainage type. **SEE TABLE 384.30-9**		**384.30 Plumbing materials.** ... **(5)** PIPE FITTINGS AND VALVES. **(a)** *Fittings.* Pipe fittings shall conform to the pipe material standards listed in this chapter or one of the standards listed in Table 384.30-9. Threaded drain pipe fittings shall be of the recessed drainage type. **SEE TABLE 384.30-9**	**38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 64, 65, 66, 67, 68, 69, and 70**
		Table 384.30-9 **Fittings**		**Table 384.30-9** **Fittings**	Modifying SPS 384.30 (5) (a) to encompass lines items 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 64, 65, 66, 67, 68, 69, and 70 from Table 384.11. Also, created a new Table 384.30-9 with all of the standards. **Presenter: Ryan Boebel**
		Fittings	**Referenced Standard(s)[a]**	**Fittings**	**Referenced Standard(s)[a]**
		Fittings, Acrylonitrile Butadiene Styrene (ABS)	ASTM D2468, ASTM D3311, ASTM F409	Fittings, Acrylonitrile Butadiene Styrene (ABS)	ASTM D2468, ASTM D3311, ASTM F409
		Fittings, Appurtenances or Valves for use in CPVC or CPVC Systems, Specially Engineered	ASTM F1970	Fittings, Appurtenances or Valves for use in CPVC or CPVC Systems, Specially Engineered	ASTM F1970
		Fittings, Cast Bronze	ASME B16.15, ASME B16.24	Fittings, Cast Bronze	ASME B16.15, ASME B16.24
		Fittings, Cast Copper Alloy	ASME B16.18, ASME B16.23, ASME B16.26	Fittings, Cast Copper Alloy	ASME B16.18, ASME B16.23, ASME B16.26
		Fittings, Cast Iron	ASME B16.1, ASME B16.4, ASME B16.12, ASME B16.45	Fittings, Cast Iron	ASME B16.1, ASME B16.4, ASME B16.12, ASME B16.45
		Fittings, Chlorinated Polyvinyl Chloride (CPVC)	ASTM F437, ASTM F438, ASTM F439	Fittings, Chlorinated Polyvinyl Chloride (CPVC)	ASTM F437, ASTM F438, ASTM F439
		Fittings, Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-linked Polyethylene (PEX) and Polyethylene of Raised Temperature (PE-RT) Tubing	ASTM F1960	Fittings, Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-linked Polyethylene (PEX) and Polyethylene of Raised Temperature (PE-RT) Tubing	ASTM F1960
		Fittings, Cold-Expansion with Metal CompressionSleeves for Crosslinked Polyethylene (PEX) Pipe and SDR9 Polyethylene of Raised Temperature (PE-RT) Pipe	ASTM F2080	Fittings, Cold-Expansion with Metal CompressionSleeves for Crosslinked Polyethylene (PEX) Pipe and SDR9 Polyethylene of Raised Temperature (PE-RT) Pipe	ASTM F2080
		Fittings, Copper	ASME B16.22, ASME B16.29	Fittings, Copper	ASME B16.22, ASME B16.29
		Fittings, Crosslinked Polyethylene (PEX)	ASTM F1807	Fittings, Crosslinked Polyethylene (PEX)	ASTM F1807
		Fittings, Ductile Iron and Gray Iron	AWWA C110, AWWA C153, ASME B16.42	Fittings, Ductile Iron and Gray Iron	AWWA C110, AWWA C153, ASME B16.42
		Fittings, Gray Iron Pipe Flanges and Flanged Fitting Classes 25, 125 and 250	ASME B16.1	Fittings, Gray Iron Pipe Flanges and Flanged Fitting Classes 25, 125 and 250	ASME B16.1
		Fittings, Gray Iron Threaded Fitting Classes 125 and 250	ASME B16.4	Fittings, Gray Iron Threaded Fitting Classes 125 and 250	ASME B16.4
		Fittings, Malleable Iron[b]	ASME B16.3	Fittings, Malleable Iron[b]	ASME B16.3
		Fittings, Metric- and Inch-Sized Fittings	ASTM F2829/F2829M	Fittings, Metric- and Inch-Sized Fittings	ASTM F2829/F2829M
		Fittings, Polyethylene (PE)	ASTM D2609, ASTM D2683, ASTM D3261	Fittings, Polyethylene (PE)	ASTM D2609, ASTM D2683, ASTM D3261
		Fittings, Polyvinyl Chloride (PVC)	ASTM D2464, ASTM D2466, ASTM D2467, ASTM D3311, ASTM F409, ASTM F1336, ASTM F1866	Fittings, Polyvinyl Chloride (PVC)	ASTM D2464, ASTM D2466, ASTM D2467, ASTM D3311, ASTM F409, ASTM F1336, ASTM F1866
		Fittings, Polyvinyl Chloride (PVC) Gasketed Sewer	ASTM F1336	Fittings, Polyvinyl Chloride (PVC) Gasketed Sewer	ASTM F1336
		Fittings, Push-Fit[c,d]	ASSE 1061	Fittings, Push-Fit[c,d]	ASSE 1061
		Fittings, Push-Fit PEX Mechanical Fittings for PEX Tubing	ASTM F2854	Fittings, Push-Fit PEX Mechanical Fittings for PEX Tubing	ASTM F2854
		Fittings, Stainless Steel	ASTM A403/A403M, ASTM A774/A774M	Fittings, Stainless Steel	ASTM A403/A403M, ASTM A774/A774M
		Fittings, Standard Specification for Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene and PEX Pipe and Tubing	ASTM F1055	Fittings, Standard Specification for Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene and PEX Pipe and Tubing	ASTM F1055
92	**Table 384.30-9**	Fittings, Steel[c]	ASME B16.5, ASME B16.9, ASME B16.11, ASME B16.28	Fittings, Steel[c]	ASME B16.5, ASME B16.9, ASME B16.11, ASME B16.28
		Fittings, Styrene-Rubber (SR)	ASTM D2852	Fittings, Styrene-Rubber (SR)	ASTM D2852
		Gaskets, Rubber for Cast Iron Soil Pipe and Fittings	ASTM C564, CISPI 301, FM 1680	Gaskets, Rubber for Cast Iron Soil Pipe and Fittings	ASTM C564, CISPI 301, FM 1680
		Insert Fittings, Metal, for PE-AL-PE and Crosslinked PEX-AL-PEX Composite Pressure Pipe, Standard Specification for	ASTM D1974	Insert Fittings, Metal, for PE-AL-PE and Crosslinked PEX-AL-PEX Composite Pressure Pipe, Standard Specification for	ASTM D1974
		Insert Fittings, Metal, Utilizing a Copper Crimp Ring for SDR9 PEX and SDR9 PEX-AL-PEX Tubing, Standard Specification for	ASTM F2434	Insert Fittings, Metal, Utilizing a Copper Crimp Ring for SDR9 PEX and SDR9 PEX-AL-PEX Tubing, Standard Specification for	ASTM F2434
		Insert Fittings, Metal Press with Factory Assembled Stainless Steel Press Sleeve for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE- RT) Tubing	ASTM F3347	Insert Fittings, Metal Press with Factory Assembled Stainless Steel Press Sleeve for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE- RT) Tubing	ASTM F3347
		Insert Fittings, Plastic, for SDR9 PEX and PE-RT Tubing	ASTM F2735	Insert Fittings, Plastic, for SDR9 PEX and PE-RT Tubing	ASTM F2735
		Insert Fittings, Plastic Press with Factory Assembled Stainless Steel Press Sleeve for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE- RT) Tubing	ASTM F3348	Insert Fittings, Plastic Press with Factory Assembled Stainless Steel Press Sleeve for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE- RT) Tubing	ASTM F3348
		Insert Fittings, Plastic Utilizing a Copper Crimp Ring, or Alternate Stainless Steel	ASTM F2159	Insert Fittings, Plastic Utilizing a Copper Crimp Ring, or Alternate Stainless Steel	ASTM F2159

		Clamps for SDR9 Crosslinked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing			
		Insert Fittings, Stainless Steel Clamps for Securing SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) to Metal Insert and Plastic Insert Fittings	ASTM F2098		
		a. The specific standard edition adopted is specified in s. SPS 381.20.			
		b. NSF Registration Guidelines for Proprietary Substances and Nonfood Compounds. The NSF Nonfood Compounds Registration Program is a continuation of the USDA product approval and listing program, which is based on meeting regulatory requirements including FDA 21 CFR for appropriate use, ingredient, and labeling: https://info.nsf.org/usda/psnclistings.asp.			
		c. Nominal size ≤ 2-in. CTS.			
		d. May not be used in temperature/pressure relief valve drain lines unless they are tested and rated for excessive conditions of 210°F (98.9°C) and 150.0 psig (1034 kPa), per ASME A112.4.1 or ASTM F877.			
		e. Steel and malleable iron fittings used in a water supply system shall be galvanized in accordance with ASTM A123/A123M			
		f. Threaded joints shall only be used on pipe of sch. 80 or heavier.			
		g. Closed loop boiler feed only, standard does not require NSF/ANSI 372 or NSF/ANSI/CAN-61 conformance.			
		h. Design shall conform to ASPE 45-2018.			
		i. Portland, Type II.			

		Clamps for SDR9 Crosslinked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing			
		Insert Fittings, Stainless Steel Clamps for Securing SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) to Metal Insert and Plastic Insert Fittings	ASTM F2098		
		a. The specific standard edition adopted is specified in s. SPS 381.20.			
		b. NSF Registration Guidelines for Proprietary Substances and Nonfood Compounds. The NSF Nonfood Compounds Registration Program is a continuation of the USDA product approval and listing program, which is based on meeting regulatory requirements including FDA 21 CFR for appropriate use, ingredient, and labeling: https://info.nsf.org/usda/psnclistings.asp.			
		c. Nominal size ≤ 2-in. CTS.			
		d. May not be used in temperature/pressure relief valve drain lines unless they are tested and rated for excessive conditions of 210°F (98.9°C) and 150.0 psig (1034 kPa), per ASME A112.4.1 or ASTM F877.			
		e. Steel and malleable iron fittings used in a water supply system shall be galvanized in accordance with ASTM A123/A123M			
		f. Threaded joints shall only be used on pipe of sch. 80 or heavier.			
		g. Closed loop boiler feed only, standard does not require NSF/ANSI 372 or NSF/ANSI/CAN-61 conformance.			
		h. Design shall conform to ASPE 45-2018.			
		i. Portland, Type II.			

93	**SPS 384.30 (5) (bm)**	**384.30 Plumbing materials.** ... **(5)** PIPE FITTINGS AND VALVES. ... **(bm)** *Cross connection control.* A cross connection control method, device, or assembly shall conform to a referenced standard in Table 384.30-10 and listed by a nationally recognized listing agency acceptable to the department. **Note:** See SPS 384 Appendix for a list of nationally recognized listing agencies acceptable to the Department. **SEE TABLE 384.30-10**	**384.30 Plumbing materials.** ... **(5)** PIPE FITTINGS AND VALVES. ... **(bm)** *Cross connection control.* A cross connection control method, device, or assembly shall conform to a referenced standard in Table 384.30-10 and listed by a nationally recognized listing agency acceptable to the department. **Note:** See SPS 384 Appendix for a list of nationally recognized listing agencies acceptable to the Department. **SEE TABLE 384.30-10**	**7, 91, 100, 101, 102, 103, 104, 105, 106, 108, 109, 110, 111, 113, 114, 115, 116, 117, 118, 119, 120, and 122**	Creating a new code section, SPS 384.30 (5) (bm) to encompass lines items 7, 91, 100, 101, 102, 103, 104, 105, 106, 108, 109, 110, 111, 113, 114, 115, 116, 117, 118, 119, 120, and 122 from Table 384.11. Also, created a new Table 384.30-10 with all of the standards. **Presenter: Ryan Boebel**

94	**Table SPS 384.30-10**	**Table 384.30-10** **Cross Connection Control**		**Table 384.30-10** **Cross Connection Control**	
		Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water-Connected Receptors)	ASME A112.1.2	Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water-Connected Receptors)	ASME A112.1.2
		Air Gap Fittings for Use With Plumbing Fixtures, Appliances, and Appurtenances	ASME A112.1.3	Air Gap Fittings for Use With Plumbing Fixtures, Appliances, and Appurtenances	ASME A112.1.3
		Atmospheric Type Vacuum Breakers	ASSE 1001	Atmospheric Type Vacuum Breakers	ASSE 1001
		Atmospheric Vacuum Breakers	CSA B64.1.1	Atmospheric Vacuum Breakers	CSA B64.1.1
		Backflow Preventers for Beverage Dispensing Equipment	ASSE 1022	Backflow Preventers for Beverage Dispensing Equipment	ASSE 1022
		Backflow Preventers for Hand-Held Showers	ASSE 1014, ASME A112.18.1/CSA B125.1, or ASME A112.18.3	Backflow Preventers for Hand-Held Showers	ASSE 1014, ASME A112.18.1/CSA B125.1, or ASME A112.18.3
		Backflow Preventers with Integral Pressure Reducing Boiler Fee Valve and Intermediate Atmospheric Vent Style for Domestic and Light Commercial Water Distribution Systems	ASSE 1081	Backflow Preventers with Integral Pressure Reducing Boiler Fee Valve and Intermediate Atmospheric Vent Style for Domestic and Light Commercial Water Distribution Systems	ASSE 1081
		Backflow Preventer with an Intermediate Atmospheric Vent	ASSE 1012	Backflow Preventer with an Intermediate Atmospheric Vent	ASSE 1012
		Backflow Protection Devices and Systems in Plumbing Fixture Fittings	ASME A112.18.3	Backflow Protection Devices and Systems in Plumbing Fixture Fittings	ASME A112.18.3
		Double Check Backflow Prevention Assemblies	ASSE 1015	Double Check Backflow Prevention Assemblies	ASSE 1015
		Double Check Valve Backflow Preventers	CSA B64.5	Double Check Valve Backflow Preventers	CSA B64.5
		Double Check Valve Backflow Preventers for Fire Protection Systems	CSA B64.5.1	Double Check Valve Backflow Preventers for Fire Protection Systems	CSA B64.5.1
		Double Check Detector Backflow Prevention Assemblies	ASSE 1048	Double Check Detector Backflow Prevention Assemblies	ASSE 1048
		Dual Check Backflow Preventers	ASSE 1024	Dual Check Backflow Preventers	ASSE 1024
		Dual Check Valve Backflow Preventers	CSA B64.6	Dual Check Valve Backflow Preventers	CSA B64.6
		Dual Check Backflow Preventers with Atmospheric Port	CSA 64.3	Dual Check Backflow Preventers with Atmospheric Port	CSA 64.3
		Dual Check Valve Type Backflow Preventers for Carbonated Beverage Dispensers, Post Mix Type, and Non-Carbonated Beverage Dispensers	ASSE 1032	Dual Check Valve Type Backflow Preventers for Carbonated Beverage Dispensers, Post Mix Type, and Non-Carbonated Beverage Dispensers	ASSE 1032
		Hose Connection Backflow Preventers	ASSE 1052	Hose Connection Backflow Preventers	ASSE 1052
		Hose Connection Vacuum Breakers	ASSE 1011 or CSA B64.2	Hose Connection Vacuum Breakers	ASSE 1011 or CSA B64.2
		Laboratory Faucet Backflow Preventers	ASSE 1035	Laboratory Faucet Backflow Preventers	ASSE 1035
		Laboratory Faucet Vacuum Breakers	CSA B64.7	Laboratory Faucet Vacuum Breakers	CSA B64.7
		Pressure Vacuum Breaker Assemblies	ASSE 1020	Pressure Vacuum Breaker Assemblies	ASSE 1020
		Pressure Vacuum Breakers	CSA B64.1.2	Pressure Vacuum Breakers	CSA B64.1.2
		Pressurized Flushing Devices for Plumbing Fixtures	ASSE 1037/ASME A112.1037/CSA B123.37	Pressurized Flushing Devices for Plumbing Fixtures	ASSE 1037/ASME A112.1037/CSA B123.37
		Reduced Pressure Principle Backflow Prevention Assemblies	ASSE 1013	Reduced Pressure Principle Backflow Prevention Assemblies	ASSE 1013
		Reduced Pressure Principle Backflow Preventers	CSA 64.4	Reduced Pressure Principle Backflow Preventers	CSA 64.4
		Reduced Pressure Principle Backflow Preventer for Fire Protection Systems	CSA B64.4.1	Reduced Pressure Principle Backflow Preventer for Fire Protection Systems	CSA B64.4.1
		Reduced Pressure Detector Backflow Prevention Assemblies	ASSE 1047	Reduced Pressure Detector Backflow Prevention Assemblies	ASSE 1047
		Spill Resistant Vacuum Breaker Assemblies	ASSE 1056	Spill Resistant Vacuum Breaker Assemblies	ASSE 1056

		384.30 Plumbing materials. ... **(5)** PIPE FITTINGS AND VALVES. … **(c)** *Special fittings and valves.* **1.** Water hammer arrestors shall conform to ~~ASME A112.26.1 or~~ ASSE 1010. **2.** Relief valves and automatic gas shutoff devices for hot water supply systems shall conform to ANSI ~~Z21.22~~ Z21.22/CSA 4.4. **3.** Backwater valves shall conform to ASME A112.14.1~~, CAN/CSA B181.1~~ or ~~CAN/CSA B181.2~~ CSA 1800. ~~**4.** Atmospheric type vacuum breakers shall conform to ASSE 1001 and CAN/CSA B64.1.1.~~ **5.** Water pressure reducing valves and strainers for water pressure reducing valves for domestic water supply systems shall conform to ASSE 1003. ~~**6.** Hose connection vacuum breakers shall conform to ASSE 1011 or CAN/CSA B64.2.~~ ~~**7.** Backflow preventers with an intermediate atmospheric vent shall conform to ASSE 1012 and dual check type atmospheric port backflow preventers shall conform to CAN/CSA B64.3.~~ ~~**8.** Reduced pressure backflow preventers and reduced pressure fire protection principle backflow preventers, or backflow preventers, reduced pressure principle type~~	**384.30 Plumbing materials.** ... **(5)** PIPE FITTINGS AND VALVES. … **(c)** *Special fittings and valves.* **1.** Water hammer arrestors shall conform to ASSE 1010.		

		~~principle backflow preventers, or backflow preventers, reduced pressure principle type (RP) shall conform with ASSE 1013 or CAN/CSA B64.4.~~ ~~**Note:** Reduced pressure backflow preventers and reduced pressure detector fire protection backflow preventers are not permitted for cross connection control.~~ ~~**9.** Double check backflow prevention assemblies shall conform to ASSE 1015 or CAN/CSA B64.5.~~ ~~**Note:** Double check fire protection backflow preventer assemblies are not permitted for cross connection control.~~ **10.** Individual thermostatic, pressure balancing, and combination pressure balancing and thermostatic control valves serving individual showers shall conform to ASSE 1016 or CAN/CSA B125. **11.** Trap seal primer valves, water fed shall conform to ASSE 1018. **12.** Vacuum breaker wall hydrants, freeze resistant automatic draining type shall conform to ASSE 1019, types A, or B, or C. ~~**13.** Pressure vacuum breaker assemblies shall conform to ASSE 1020 or CAN/CSA B64.1.2.~~ ~~**14.** Laboratory faucet backflow preventers shall conform to ASSE 1035 and laboratory faucet type vacuum breakers shall conform to CAN/CSA B64.7.~~ ~~**15.** Reduced pressure detector fire protection, backflow prevention assemblies shall conform to ASSE 1047.~~ ~~**16.** Double check detector assembly backflow preventers shall conform to ASSE 1048.~~ ~~**17.** Back siphonage backflow vacuum breakers shall conform to ASSE 1056.~~ ~~**18.** Hose connection backflow preventers shall conform to ASSE 1052.~~ ~~**19.** Backflow preventers for carbonated beverage machines shall conform to ASSE 1022.~~ **20.** Dual check backflow preventers in freeze resistant types of wall hydrants shall conform to ASSE 1053. **21.** Trap seal primer valves, drainage and electric types, shall conform to ASSE 1044. **22.** Yard hydrants shall conform to ASSE 1057 for freeze resistant sanitary yard hydrants with backflow prevention. **23.** Stack air admittance valves for sanitary drainage shall conform to ASSE 1050. **24.** Individual and branch type air admittance valves for sanitary drainage systems shall conform to ASSE 1051. **25.** Valves for crosslinked polyethylene (PEX) water distribution tubing systems shall conform to NSF 359. **26.** Automatic temperature control mixing valves shall conform to ASSE 1069.	**2.** Relief valves and automatic gas shutoff devices for hot water supply systems shall conform to ANSI Z21.22/CSA 4.4. **3.** Backwater valves shall conform to ASME A112.14.1 or CSA 1800. **5.** Water pressure reducing valves and strainers for water pressure reducing valves for domestic water supply systems shall conform to ASSE 1003. **10.** Individual thermostatic, pressure balancing, and combination pressure balancing and thermostatic control valves serving individual showers shall conform to ASSE 1016 or CAN/CSA B125. **11.** Trap seal primer valves, water fed shall conform to ASSE 1018. **12.** Vacuum breaker wall hydrants, freeze resistant automatic draining type shall conform to ASSE 1019, types A, or B, or C. **20.** Dual check backflow preventers in freeze resistant types of wall hydrants shall conform to ASSE 1053. **21.** Trap seal primer valves, drainage and electric types, shall conform to ASSE 1044. **22.** Yard hydrants shall conform to ASSE 1057 for freeze resistant sanitary yard hydrants with backflow prevention. **23.** Stack air admittance valves for sanitary drainage shall conform to ASSE 1050. **24.** Individual and branch type air admittance valves for sanitary drainage systems shall conform to ASSE 1051. **25.** Valves for crosslinked polyethylene (PEX) water distribution tubing systems shall conform to NSF 359. **26.** Automatic temperature control mixing valves shall conform to ASSE 1069.		
95	**384.30 (5) (c)**				
95a	**SPS 384.30 (5) (c) 1.**	**384.30(5)(c)1.** Water hammer arrestors shall conform to ~~ASME A112.26.1 or~~ ASSE 1010.	**384.30(5)(c)1.** Water hammer arrestors shall conform to ASSE 1010.	**N/A**	ASME A112.26.1 is an inactive standard. Also, this standard is not listed in Table 381.20-3e. **Presented by: Ryan Boebel**
95b	**SPS 384.30 (5) (c) 2.**	**384.30(5)(c)2.** Relief valves and automatic gas shutoff devices for hot water supply systems shall conform to ANSI ~~Z21.22~~ Z21.22/CSA 4.4.	**384.30(5)(c)2.** Relief valves and automatic gas shutoff devices for hot water supply systems shall conform to ANSI Z21.22/CSA 4.4.	**93**	Updated SPS 384.30 (5) (c) 2. to the appropriate standard title. **Presented by: Ryan Boebel**
95c	**SPS 384.30 (5) (c) 3.**	**384.30(5)(c)3.** Backwater valves shall conform to ASME A112.14.1~~, CAN/CSA B181.1~~ or ~~CAN/CSA B181.2~~ CSA 1800.	**384.30(5)(c)3.** Backwater valves shall conform to ASME A112.14.1 or CSA 1800.	**88**	Amend to update to adopted standard. **Presented by: Ryan Boebel**
95d	**SPS 384.30 (5) (c) 4.**	**384.30(5)(c)~~4.~~** ~~Atmospheric type vacuum breakers shall conform to ASSE 1001 and CAN/CSA B64.1.1.~~	*N/A (Code Language Removed)*	**121**	Atmospheric type vacuum breakers would be covered in proposed Table 384.30-10. **Presented by: Ryan Boebel**
95e	**SPS 384.30 (5) (c) 6.**	**384.30(5)(c)~~6.~~** ~~Hose connection vacuum breakers shall conform to ASSE 1011 or CAN/CSA B64.2.10.~~	*N/A (Code Language Removed)*	**115**	Hose connection vacuum breakers would be covered in proposed Table 384.30-10. **Presented by: Ryan Boebel**
95f	**SPS 384.30 (5) (c) 7.**	**384.30(5)(c)~~7.~~** ~~Backflow preventers with an intermediate atmospheric vent shall conform to ASSE 1012 and dual check type atmospheric port backflow preventers shall conform to CAN/CSA B64.3.~~	*N/A (Code Language Removed)*	**123**	Backflow preventers with an intermediate atmospheric vent would be covered in proposed Table 384.30-10. **Presented by: Ryan Boebel**
29a	**SPS 384.30 (5) (c) 8.**	**JANUARY 31, 2025 - APPROVED ITEM** **384.30(5)(c)8.** Reduced pressure principle backflow ~~preventers and reduced pressure fire protection principle backflow preventers, or backflow preventers, reduced pressure principle type (RP)~~ prevention assemblies shall conform with ASSE 1013 or CAN/CSA B64.4. **JULY 18, 2025 - PROPOSAL** **Reject the proposal from January 31, 2025 and approve the following language:** **384.20(5)(c)~~8.~~** ~~Reduced pressure backflow preventers and reduced pressure fire protection principle backflow preventers, or backflow preventers, reduced pressure principle type (RP) shall conform with ASSE 1013 or CAN/CSA B64.4.~~ ~~**Note:** Reduced pressure backflow preventers and reduced pressure detector fire protection backflow preventers are not permitted for cross connection control.~~	**JANUARY 31, 2025 - APPROVED ITEM** **384.30(5)(c)8.** Reduced pressure principle backflow prevention assemblies shall conform with ASSE 1013 or CAN/CSA B64.4.. **JULY 18, 2025 - PROPOSAL** **Reject the proposal from January 31, 2025 and approve the following language:** *N/A (Code Language Removed)*	**120**	**JANUARY 31, 2025 COMMENT** The 2021 Version of ASSE 1013 uses the title 'Reduced Pressure Principle Backflow Prevention Assemblies.' The Department recommends dropping the word 'preventor' and replacing the word with the words 'prevention assembly. In addition, adding the word 'principle' after 'reduced pressure.' **Presented by: Ryan Boebel** **JULY 18, 2025 COMMENT** Reject the proposal from January 31, 2025. Reduced pressure backflow preventers would be covered in proposed Table 382.40-10. **Presented by: Ryan Boebel**
95h	**SPS 384.30 (5) (c) 9.**	**384.30(5)(c)~~9.~~** ~~Double check backflow prevention assemblies shall conform to ASSE 1015 or CAN/CSA B64.5.~~ ~~**Note:** Double check fire protection backflow preventer assemblies are not permitted for cross connection control.~~	*N/A (Code Language Removed)*	**108**	Double check backflow preventers would be covered in proposed Table 384.30-10. **Presented by: Ryan Boebel**
95i	**SPS 384.30 (5) (c) 13.**	**384.30(5)(c)~~13.~~** ~~Pressure vacuum breaker assemblies shall conform to ASSE 1020 or CAN/CSA B64.1.2.~~	*N/A (Code Language Removed)*	**118**	Pressure vacuum breaker assemblies would be covered in proposed Table 384.30-10. **Presented by: Ryan Boebel**
95j	**SPS 384.30 (5) (c) 14.**	**384.30(5)(c)~~14.~~** ~~Laboratory faucet backflow preventers shall conform to ASSE 1035 and laboratory faucet type vacuum breakers shall conform to CAN/CSA B64.7.~~	*N/A (Code Language Removed)*	**116**	Laboratory faucet backflow preventers would be covered in proposed Table 384.30-10. **Presented by: Ryan Boebel**
29d	**SPS 384.30 (5) (c) 15.**	**JANUARY 31, 2025 - APPROVED ITEM** **384.30(5)(c)15.** Reduced pressure detector ~~fire protection,~~ backflow prevention assemblies shall conform to ASSE 1047. **JULY 18, 2025 - PROPOSAL** **Reject the proposal from January 31, 2025 and approve the following language:** **384.30(5)(c)~~15.~~** ~~Reduced pressure detector fire protection, backflow prevention assemblies shall conform to ASSE 1047.~~	**JANUARY 31, 2025 - APPROVED ITEM** **384.30(5)(c)15.** Reduced pressure detector backflow prevention assemblies shall conform to ASSE 1047. **JULY 18, 2025 - PROPOSAL** **Reject the proposal from January 31, 2025 and approve the following language:** *N/A (Code Language Removed)*	**119**	**JANUARY 31, 2025 COMMENT** The 2021 Version of ASSE 1047 uses the title 'Reduced Pressure Detector Backflow Prevention Assemblies.' The Department recommends dropping the words 'fire protection.' **Presented by: Ryan Boebel** **JULY 18, 2025 COMMENT** Reduced pressure detector backflow prevention assemblies would be covered in proposed Table 384.30-10; therefore, this code section can be removed. **Presented by: Ryan Boebel**
29e	**SPS 384.30 (5) (c) 16.**	**JANUARY 31, 2025 - APPROVED ITEM** **384.30(5)(c)16.** Double check detector ~~assembly~~ backflow ~~preventers~~ prevention assemblies shall conform to ASSE 1048. **JULY 18, 2025 - PROPOSAL** **Reject the proposal from January 31, 2025 and approve the following language:** **384.30(5)(c)~~16.~~** ~~Double check detector assembly backflow preventers shall conform to ASSE 1048.~~	**JANUARY 31, 2025 - APPROVED ITEM** **384.30(5)(c)16.** Double check detector backflow prevention assemblies shall conform to ASSE 1048. **JULY 18, 2025 - PROPOSAL** **Reject the proposal from January 31, 2025 and approve the following language:** *N/A (Code Language Removed)*	**109**	**JANUARY 31, 2025 COMMENT** SPS 384.30 (5) (c) 16. is changing to conform to the title standard of ASSE 1048. The Department recommends changing SPS 384.30 (5) (c) 16. to match the title of ASSE 1048. **Presented by: Ryan Boebel** **JULY 18, 2025 COMMENT** Double check detector assembly backflow preventers would be covered in proposed Table 384.30-10; therefore, this code section can be removed. **Presented by: Ryan Boebel**

29f	**SPS 384.30 (5) (c) 17.**	**JANUARY 31, 2025 - APPROVED ITEM** **384.90(5)(c)17.** ~~Back siphonage backflow~~ Spill resistant vacuum ~~breakers~~ breaker assemblies shall conform to ASSE 1056. **JULY 18, 2025 - PROPOSAL** **Reject the proposal from January 31, 2025 and approve the following language:** **384.30(5)(c)~~17.~~** ~~Back siphonage backflow vacuum breakers shall conform to ASSE 1056.~~	**JANUARY 31, 2025 - APPROVED ITEM** **384.90(5)(c)17.** Spill resistant vacuum breaker assemblies shall conform to ASSE 1056. **JULY 18, 2025 - PROPOSAL** **Reject the proposal from January 31, 2025 and approve the following language:** *N/A (Code Language Removed)*	**122**	**JANUARY 31, 2025 COMMENT** SPS 384.30 (5) (c) 17. is changing to conform to the title standard of ASSE 1056. The Department recommends changing SPS 384.30 (5) (c) 17. to match the title of ASSE 1056. **Presented by: Ryan Boebel** **JULY 18, 2025 COMMENT** Back siphonage backflow vacuum breakers (spill resistant vacuum breaker assemblies) would be covered in proposed Table 384.30-10; therefore, this code section can be removed. **Presented by: Ryan Boebel**
95k	**SPS 384.30 (5) (c) 18.**	**384.30(5)(c)~~18.~~** ~~Hose connection backflow preventers shall conform to ASSE 1052.~~	*N/A (Code Language Removed)*	**115**	Hose connection backflow preventers would be covered in proposed Table 384.30-10; therefore, this code section can be removed. **Presented by: Ryan Boebel**
95L	**SPS 384.30 (5) (c) 19.**	**384.30(5)(c)~~19.~~** ~~Backflow preventers for carbonated beverage machines shall conform to ASSE 1022.~~	*N/A (Code Language Removed)*	**102**	Backflow preventers for carbonated beverage machines would be covered in proposed Table 384.30-10; therefore, this code section can be removed. **Presented by: Ryan Boebel**
95m	**SPS 384.30 (5) (c) 22.**	**384.30(5)(c)22.** Yard hydrants shall conform to ASSE 1057 for freeze resistant sanitary yard hydrants with backflow prevention.	**384.30(5)(c)22.** Yard hydrants shall conform to ASSE 1057 for freeze resistant sanitary yard hydrants with backflow prevention.	**121**	Language needs to be added to require yard hydrants to meet ASSE 1057. We do have a definition of yard hydrant in SPS 381. **Presented by: Ryan Boebel**
95n	**SPS 384.30 (5) (c) 23.**	**384.30(5)(c)23.** Stack air admittance valves for sanitary drainage shall conform to ASSE 1050.	**384.30(5)(c)23.** Stack air admittance valves for sanitary drainage shall conform to ASSE 1050.	**86**	Stack air admittance valves for sanitary drainage will be added to this code section. **Presented by: Ryan Boebel**
95o	**SPS 384.30 (5) (c) 24.**	**384.30(5)(c)24.** Individual and branch type air admittance valves for sanitary drainage systems shall conform to ASSE 1051.	**384.30(5)(c)24.** Individual and branch type air admittance valves for sanitary drainage systems shall conform to ASSE 1051.	**86**	Individual and branch type air admittance valves for sanitary drain systems will be added to this code section. **Presented by: Ryan Boebel**
95p	**SPS 384.30 (5) (c) 25.**	**384.30(5)(c)25.** Valves for crosslinked polyethylene (PEX) water distribution tubing systems shall conform to NSF 359.	**384.30(5)(c)25.** Valves for crosslinked polyethylene (PEX) water distribution tubing systems shall conform to NSF 359.	**89**	Valves for PEX will be added to this code section. **Presented by: Ryan Boebel**
95q	**SPS 384.30 (5) (c) 26.**	**384.30(5)(c)26.** Automatic temperature control mixing valves shall conform to ASSE 1069.	**384.30(5)(c)26.** Automatic temperature control mixing valves shall conform to ASSE 1069.	**87**	Automatic temperature control mixing valves will be added to this code section. **Presented by: Ryan Boebel**
96	**SPS 384.30 (6)**	**384.30 Plumbing materials.** ... **(6)** SPECIAL MATERIALS. … **(c)** *Sheet copper.* Sheet copper for the following uses may not weigh less than indicated in subds. 1. and 2. and shall conform to ASTM ~~B152~~ B152/B152M. ... **(e)** *Flush pipes and fittings.* Flush pipes and fittings shall be of nonferrous material and shall conform to ASME ~~A112.19.5~~ A112.19.5/CSA B45.15. **(f)** *Safing material.* Safing materials shall be waterproof when subjected to 2 feet of hydrostatic head when tested in accordance with ASTM ~~C1306~~ C1306/1306M or ASTM D4068. The material shall be recognized by the manufacturer for use as a safing material. **(h)** *Leaching chambers.* Leaching chambers for distribution cell components of POWTS or stormwater subsurface infiltration systems shall meet all of the following requirements: ... **4.** Leaching chambers shall conform to ASTM F2418, ASTM F2787, ASTM F2922, or ASTM F3430. **(i)** *Stone aggregate.* Stone aggregate which is used as a filtering medium or to create a distribution cell in a treatment or dispersal component of a POWTS or stormwater subsurface infiltration system shall meet all of the following requirements: **1.** Conform to ASTM ~~Standard C33~~ C33/C33M for coarse aggregate prior to washing. **(j)** *Sand.* Sand that is placed as a filtering medium in a stormwater subsurface infiltration system shall conform to ASTM ~~Standard C33~~ C33/C33M for fine aggregate.	**384.30 Plumbing materials.** ... **(6)** SPECIAL MATERIALS. … **(c)** *Sheet copper.* Sheet copper for the following uses may not weigh less than indicated in subds. 1. and 2. and shall conform to ASTM B152/B152M. ... **(e)** *Flush pipes and fittings.* Flush pipes and fittings shall be of nonferrous material and shall conform to ASME A112.19.5/CSA B45.15. **(f)** *Safing material.* Safing materials shall be waterproof when subjected to 2 feet of hydrostatic head when tested in accordance with ASTM C1306/1306M or ASTM D4068. The material shall be recognized by the manufacturer for use as a safing material. **(h)** *Leaching chambers.* Leaching chambers for distribution cell components of POWTS or stormwater subsurface infiltration systems shall meet all of the following requirements: ... **4.** Leaching chambers shall conform to ASTM F2418, ASTM F2787, ASTM F2922, or ASTM F3430. **(i)** *Stone aggregate.* Stone aggregate which is used as a filtering medium or to create a distribution cell in a treatment or dispersal component of a POWTS or stormwater subsurface infiltration system shall meet all of the following requirements: **1.** Conform to ASTM C33/C33M for coarse aggregate prior to washing. **(j)** *Sand.* Sand that is placed as a filtering medium in a stormwater subsurface infiltration system shall conform to ASTM C33/C33M for fine aggregate.		
96a	**SPS 384.30 (6) (c)**	**384.30(6)(c)** *Sheet copper.* Sheet copper for the following uses may not weigh less than indicated in subds. 1. and 2. and shall conform to ASTM ~~B152~~ B152/B152M.	**384.30(6)(c)** *Sheet copper.* Sheet copper for the following uses may not weigh less than indicated in subds. 1. and 2. and shall conform to ASTM B152/B152M.	**135**	Amend to include ASTM B152M. **Presented by: Ryan Boebel**
96b	**SPS 384.30 (6) (e)**	**384.30(6)(e)** *Flush pipes and fittings* . Flush pipes and fittings shall be of nonferrous material and shall conform to ASME ~~A112.19.5~~ A112.19.5/CSA B45.15.	**384.30(6)(e)** *Flush pipes and fittings* . Flush pipes and fittings shall be of nonferrous material and shall conform to ASME A112.19.5/CSA B45.15.	**90**	Updated SPS 384.30 (6) (e) to the proper number of the standard. **Presented by: Ryan Boebel**
96c	**SPS 384.30 (6) (f)**	**384.30(6)(f)** *Safing material.* Safing materials shall be waterproof when subjected to 2 feet of hydrostatic head when tested in accordance with ASTM ~~C1306~~ C1306/1306M or ASTM D4068. The material shall be recognized by the manufacturer for use as a safing material.	**384.30(6)(f)** *Safing material.* Safing materials shall be waterproof when subjected to 2 feet of hydrostatic head when tested in accordance with ASTM C1306/1306M or ASTM D4068. The material shall be recognized by the manufacturer for use as a safing material.	**134**	Amend to include ASTM C1306M. **Presented by: Ryan Boebel**
96d	**SPS 384.30 (6) (h) 4.**	**384.30(6)(h)4.** Leaching chambers shall conform to ASTM F2418, ASTM F2787, ASTM F2922, or ASTM F3430.	**384.30(6)(h)4.** Leaching chambers shall conform to ASTM F2418, ASTM F2787, ASTM F2922, or ASTM F3430.	**166**	Creating a new code section, SPS 384.30 (6) (h) 4. to encompass lines item 166 from Table 384.11. **Presented by: Tony Martin**
96e	**SPS 384.30 (6) (i) 1.**	**384.30(6)(i)1.** Conform to ASTM ~~Standard C33~~ C33/C33M for coarse aggregate prior to washing.	**384.30(6)(i)1.** Conform to ASTM C33/C33M for coarse aggregate prior to washing.	**156**	Updating SPS 384.30 (6) (i) 1. to the appropriate standard title. **Presented by: Tony Martin**
96f	**SPS 384.30 (6) (j)**	**384.30(6)(j)** *Sand.* Sand that is placed as a filtering medium in a stormwater subsurface infiltration system shall conform to ASTM ~~Standard C33~~ C33/C33M for fine aggregate.	**384.30(6)(j)** *Sand.* Sand that is placed as a filtering medium in a stormwater subsurface infiltration system shall conform to ASTM C33/C33M for fine aggregate.	**159**	Updating SPS 384.30 (6) (j) to the appropriate standard title. **Presented by: Tony Martin**
97	**SPS 384.40 (2) (a) 2.**	**384.40 Joints and connections.** … **(2)** ABS PLASTIC PIPE. **(a)** Mechanical joints. Mechanical joints shall be installed in accordance with the manufacturer's instructions. ... ~~**2.** 'Water supply systems.' Mechanical push-on joints and mechanical compression-type joints for water supply systems which use a flexible elastomeric seal shall be suitable for potable water.~~	*N/A (Code Language Removed)*	**N/A**	The Department recommends removing SPS 384.40 (2) (a) 2. since ABS pipe is no longer allowed for water supply systems. See Plumbing Code Advisory Committee agenda item No. 45a. **Presented by: Ryan Boebel**
98	**SPS 384.40 (2) (b) 4.**	**384.40 Joints and connections.** … **(2)** ABS PLASTIC PIPE. Joints between acrylonitrile butadiene styrene plastic pipe or fittings shall be installed in accordance with pars. (a) to (c). ... **(b)** *Solvent cemented joints.* Solvent cemented joints shall be made in accordance with ASTM D2235 and its appendix, ASTM D2661 or ASTM F628. ... ~~**4.** Solvent cement used on pipes and fittings of a water supply system shall conform to NSF 14 and shall be certified by a nationally recognized testing agency as to conforming to NSF 14. The container for the solvent cement shall bear the certification mark of the testing agency.~~	*N/A (Code Language Removed)*	**N/A**	The Department recommends removing SPS 384.40 (2) (b) 4. since ABS pipe is no longer allowed for water supply systems. See Plumbing Code Advisory Committee agenda item No. 45a. **Presented by: Ryan Boebel**

99	**SPS 384.40 (6)**	**384.40 Joints and connections.** … **(6)** CPVC PLASTIC PIPE. Joints between chlorinated polyvinyl chloride plastic pipe or fittings shall be installed in accordance with the provisions of pars. (a) to (c). **(a)** *Mechanical joints.* Mechanical joints shall be installed in accordance with the manufacturer's instructions. Mechanical push-on type joints which use flexible elastomeric seals shall be suitable for potable water and conform to ASTM D3139. **(b)** *Solvent cemented joints.* Solvent cemented joints shall be made in accordance with ASTM D2846, ASTM F493, or ASTM ~~F3328-18~~ F3328.	**384.40 Joints and connections.** … **(6)** CPVC PLASTIC PIPE. Joints between chlorinated polyvinyl chloride plastic pipe or fittings shall be installed in accordance with the provisions of pars. (a) to (c). **(a)** *Mechanical joints.* Mechanical joints shall be installed in accordance with the manufacturer's instructions. Mechanical push-on type joints which use flexible elastomeric seals shall be suitable for potable water and conform to ASTM D3139. **(b)** *Solvent cemented joints.* Solvent cemented joints shall be made in accordance with ASTM D2846, ASTM F493, or ASTM F3328.		
99a	**SPS 384.40 (6) (a)**	**384.40(6)(a)** *Mechanical joints* . Mechanical joints shall be installed in accordance with the manufacturer's instructions. Mechanical push-on type joints which use flexible elastomeric seals shall be suitable for potable water and conform to ASTM D3139.	**384.40(6)(a)** *Mechanical joints* . Mechanical joints shall be installed in accordance with the manufacturer's instructions. Mechanical push-on type joints which use flexible elastomeric seals shall be suitable for potable water and conform to ASTM D3139.	**76**	Modifying SPS 384.40 (6) (a) to encompass the addition of ASTM D3139 to this code section. **Presenter: Ryan Boebel**
99b	**SPS 384.40 (6) (b)**	**384.40(6)(b)** *Solvent cemented joints* . Solvent cemented joints shall be made in accordance with ASTM D2846, ASTM F493, or ASTM ~~F3328-18~~ F3328.	**384.40(6)(b)** *Solvent cemented joints* . Solvent cemented joints shall be made in accordance with ASTM D2846, ASTM F493, or ASTM F3328.	**138**	Removed the year reference from ASTM F3328. **Presented by: Ryan Boebel**
100	**SPS 384.40 (7)**	**384.40 Joints and connections.** … **(7)** CONCRETE PIPE. **(a)** *Circular pipe.* Joints between circular concrete pipe or fittings shall be made by use of an elastomeric seal conforming to ASTM C443, ~~or~~ ASTM C443M, ASTM C990, or ASTM C990M. Joints using rubber gaskets for concrete gravity flow sewer pipe shall conform to ASTM C1628. **(b)** *Elliptical pipe.* Joints between elliptical concrete pipe or fittings shall be made by use of materials conforming to ASTM C887 Type II, ~~or~~ ASTM C990, or ASTM C990M. **(c)** *Mechanical joints.* Mechanical joints may be installed in accordance with the manufacturer's instructions. Mechanical push-on joints and mechanical compression type joints which use flexible elastomeric seals shall be suitable for potable water and conform to ASTM D3139.	**384.40 Joints and connections.** … **(7)** CONCRETE PIPE. **(a)** *Circular pipe.* Joints between circular concrete pipe or fittings shall be made by use of an elastomeric seal conforming to ASTM C443, ASTM C443M, ASTM C990, or ASTM C990M. Joints using rubber gaskets for concrete gravity flow sewer pipe shall conform to ASTM C1628. **(b)** *Elliptical pipe.* Joints between elliptical concrete pipe or fittings shall be made by use of materials conforming to ASTM C887 Type II, ASTM C990, or ASTM C990M. **(c)** *Mechanical joints.* Mechanical joints may be installed in accordance with the manufacturer's instructions. Mechanical push-on joints and mechanical compression type joints which use flexible elastomeric seals shall be suitable for potable water and conform to ASTM D3139.		
100a	**SPS 384.40 (7) (a)**	**384.40(7)(a)** *Circular pipe* . Joints between circular concrete pipe or fittings shall be made by use of an elastomeric seal conforming to ASTM C443, ~~or~~ ASTM C443M, ASTM C990, or ASTM C990M. Joints using rubber gaskets for concrete gravity flow sewer pipe shall conform to ASTM C1628.	**384.40(7)(a)** *Circular pipe* . Joints between circular concrete pipe or fittings shall be made by use of an elastomeric seal conforming to ASTM C443, ASTM C443M, ASTM C990, or ASTM C990M. Joints using rubber gaskets for concrete gravity flow sewer pipe shall conform to ASTM C1628.	**71**	Modifying SPS 384.40 (7) (a) to encompass line item 71 from Table 384.11. In addition, added ASTM C443M and C990M to this code section. **Presenter: Ryan Boebel**
100b	**SPS 384.40 (7) (b)**	**384.40(7)(b)** *Elliptical pipe* . Joints between elliptical concrete pipe or fittings shall be made by use of materials conforming to ASTM C887 Type II, ~~or~~ ASTM C990, or ASTM C990M.	**384.40(7)(b)** *Elliptical pipe* . Joints between elliptical concrete pipe or fittings shall be made by use of materials conforming to ASTM C887 Type II, ASTM C990, or ASTM C990M.	**73, 136**	Modifying SPS 384.40 (7) (b) to encompass the addition of ASTM C990M to this code section. **Presenter: Ryan Boebel**
101	**SPS 384.40 (12) (c)**	**384.40 Joints and connections.** … **(12)** PE PLASTIC PIPE AND TUBING. Joints between polyethylene plastic pipe, tubing or fittings shall be in accordance with pars. (a) to (c). ... **(c)** *Mechanical joints.* Mechanical joints may be installed in accordance with the manufacturer's instructions. Mechanical push-on joints and mechanical compression type joints which use flexible elastomeric seals shall be suitable for potable water and conform to ASTM D3139.	**384.40 Joints and connections.** … **(12)** PE PLASTIC PIPE AND TUBING. Joints between polyethylene plastic pipe, tubing or fittings shall be in accordance with pars. (a) to (c). ... **(c)** *Mechanical joints.* Mechanical joints may be installed in accordance with the manufacturer's instructions. Mechanical push-on joints and mechanical compression type joints which use flexible elastomeric seals shall be suitable for potable water and conform to ASTM D3139.	**76**	Modifying SPS 384.40 (12) (c) to encompass the addition of ASTM D3139 to this code section. **Presenter: Ryan Boebel**
102	**SPS 384.40 (14)**	**384.40 Joints and connections.** … **(14)** PVC PLASTIC PIPE. Joints between polyvinyl chloride plastic pipe or fittings shall be in accordance with pars. (a) to (c). **(a)** *Mechanical joints.* Mechanical joints shall be installed in accordance with the manufacturer's instructions. … **2.** 'Water supply systems.' Mechanical push-on joints and mechanical compression type joints for water supply systems which use flexible elastomeric seals shall be suitable for potable water and conform to ASTM D3139. **(b)** Solvent cemented joints. Solvent cemented joints shall be made in accordance with ASTM D2855 or ASTM ~~F3328.18~~ F3328.	**384.40 Joints and connections.** … **(14)** PVC PLASTIC PIPE. Joints between polyvinyl chloride plastic pipe or fittings shall be in accordance with pars. (a) to (c). **(a)** *Mechanical joints.* Mechanical joints shall be installed in accordance with the manufacturer's instructions. … **2.** 'Water supply systems.' Mechanical push-on joints and mechanical compression type joints for water supply systems which use flexible elastomeric seals shall be suitable for potable water and conform to ASTM D3139. **(b)** Solvent cemented joints. Solvent cemented joints shall be made in accordance with ASTM D2855 or ASTM F3328.		
102a	**SPS 384.40 (14) (a) 2.**	**384.40(14)(a)2.** 'Water supply systems.' Mechanical push-on joints and mechanical compression type joints for water supply systems which use flexible elastomeric seals shall be suitable for potable water and conform to ASTM D3139.	**384.40(14)(a)2.** 'Water supply systems.' Mechanical push-on joints and mechanical compression type joints for water supply systems which use flexible elastomeric seals shall be suitable for potable water and conform to ASTM D3139.	**76**	Modifying SPS 384.40 (14) (a) 2. to encompass the addition of ASTM D3139 to this code section. **Presenter: Ryan Boebel**
102b	**SPS 384.40 (14) (b)**	**384.40(14)(b)** *Solvent cemented joints* . Solvent cemented joints shall be made in accordance with ASTM D2855 or ASTM ~~F3328.18~~ F3328.	**384.40(14)(b)** *Solvent cemented joints* . Solvent cemented joints shall be made in accordance with ASTM D2855 or ASTM F3328.	**138**	Removed the year reference from ASTM F3328. **Presented by: Ryan Boebel**
103	**SPS 384.40 (18)**	**384.40 Joints and connections.** … **(18)** CONNECTION OF PIPE TO CONCRETE STRUCTURES. Joints between concrete structures and piping or fittings shall be ~~made with mechanical joints in conformance with ASTM C923, ASTM C564~~ installed in accordance with the provisions of pars. (a) to (e) or as otherwise permitted by local authority. ~~Openings for pipe connections that are installed with mechanical joints conforming to ASTM C564 shall have an inside diameter of that required for cast iron pipe in conformance with ASTM A74.~~ **(a)** Resilient connectors between reinforced concrete manhole structures, pipes, and laterals shall conform to ASTM C923/C923M. **(b)** Rubber gaskets for cast iron soil pipe and fittings shall conform to ASTM C564. Openings to ASTM C564 shall have an inside diameter of that required for cast iron pipe in conformance with ASTM A74. **(c)** Resilient connectors between reinforced concrete manhole structures and corrugated dual- and triple-wall polyethylene and polypropylene pipes shall conform to ASTM F2510/F2510M. **(d)** Resilient connectors between reinforced concrete on-site wastewater tanks and pipes shall conform to ASTM C1644. **(e)** Storm drain resilient connectors between reinforced concrete storm sewer structures, pipes, and laterals shall conform to ASTM C1478/C1478M.	**384.40 Joints and connections.** … **(18)** CONNECTION OF PIPE TO CONCRETE STRUCTURES. Joints between concrete structures and piping or fittings shall be installed in accordance with the provisions of pars. (a) to (e) or as otherwise permitted by local authority. **(a)** Resilient connectors between reinforced concrete manhole structures, pipes, and laterals shall conform to ASTM C923/C923M. **(b)** Rubber gaskets for cast iron soil pipe and fittings shall conform to ASTM C564. Openings to ASTM C564 shall have an inside diameter of that required for cast iron pipe in conformance with ASTM A74. **(c)** Resilient connectors between reinforced concrete manhole structures and corrugated dual- and triple-wall polyethylene and polypropylene pipes shall conform to ASTM F2510/F2510M. **(d)** Resilient connectors between reinforced concrete on-site wastewater tanks and pipes shall conform to ASTM C1644. **(e)** Storm drain resilient connectors between reinforced concrete storm sewer structures, pipes, and laterals shall conform to ASTM C1478/C1478M.		
103a	**SPS 384.40 (18)**	**384.40(18)** CONNECTION OF PIPE TO CONCRETE STRUCTURES. Joints between concrete structures and piping or fittings shall be ~~made with mechanical joints in conformance with ASTM C923, ASTM C564~~ installed in accordance with the provisions of pars. (a) to (e) or as otherwise permitted by local authority. ~~Openings for pipe connections that are installed with mechanical joints conforming to ASTM C564 shall have an inside diameter of that required for cast iron pipe in conformance with ASTM A74.~~	**384.40(18)** CONNECTION OF PIPE TO CONCRETE STRUCTURES. Joints between concrete structures and piping or fittings shall be installed in accordance with the provisions of pars. (a) to (e) or as otherwise permitted by local authority.	**34, 35, 36, and 37**	Modifying SPS 384.40 (18) to encompass lines items 34, 35, 36, and 37 from Table 384.11. **Presenter: Tony Martin**
103b	**SPS 384.40 (18) (a)**	**384.40(18)(a)** Resilient connectors between reinforced concrete manhole structures, pipes, and laterals shall conform to ASTM C923/C923M.	**384.40(18)(a)** Resilient connectors between reinforced concrete manhole structures, pipes, and laterals shall conform to ASTM C923/C923M.	**34, 35, 36, and 37**	Modifying SPS 384.40 (18) to encompass lines items 34, 35, 36, and 37 from Table 384.11. **Presenter: Tony Martin**
103c	**SPS 384.40 (18) (b)**	**384.40(18)(b)** Rubber gaskets for cast iron soil pipe and fittings shall conform to ASTM C564. Openings to ASTM C564 shall have an inside diameter of that required for cast iron pipe in conformance with ASTM A74.	**384.40(18)(b)** Rubber gaskets for cast iron soil pipe and fittings shall conform to ASTM C564. Openings to ASTM C564 shall have an inside diameter of that required for cast iron pipe in conformance with ASTM A74.	**34, 35, 36, and 37**	Modifying SPS 384.40 (18) to encompass lines items 34, 35, 36, and 37 from Table 384.11. **Presenter: Tony Martin**
103d	**SPS 384.40 (18) (c)**	**384.40(18)(c)** Resilient connectors between reinforced concrete manhole structures and corrugated dual- and triple-wall polyethylene and polypropylene pipes shall conform to ASTM F2510/F2510M.	**384.40(18)(c)** Resilient connectors between reinforced concrete manhole structures and corrugated dual- and triple-wall polyethylene and polypropylene pipes shall conform to ASTM F2510/F2510M.	**34, 35, 36, and 37**	Modifying SPS 384.40 (18) to encompass lines items 34, 35, 36, and 37 from Table 384.11. **Presenter: Tony Martin**
103e	**SPS 384.40 (18) (d)**	**384.40(18)(d)** Resilient connectors between reinforced concrete on-site wastewater tanks and pipes shall conform to ASTM C1644.	**384.40(18)(d)** Resilient connectors between reinforced concrete on-site wastewater tanks and pipes shall conform to ASTM C1644.	**34, 35, 36, and 37**	Modifying SPS 384.40 (18) to encompass lines items 34, 35, 36, and 37 from Table 384.11. **Presenter: Tony Martin**
103f	**SPS 384.40 (18) (e)**	**384.40(18)(e)** Storm drain resilient connectors between reinforced concrete storm sewer structures, pipes, and laterals shall conform to ASTM C1478/C1478M.	**384.40(18)(e)** Storm drain resilient connectors between reinforced concrete storm sewer structures, pipes, and laterals shall conform to ASTM C1478/C1478M.	**34, 35, 36, and 37**	Modifying SPS 384.40 (18) to encompass lines items 34, 35, 36, and 37 from Table 384.11. **Presenter: Tony Martin**
SPS 381.01					

104	**SPS 381.01**	**381.01 Definitions.** In chs. SPS 381 to 387, except as otherwise specifically defined: … **(50c)** "Campground or recreational vehicle park drain system, sanitary" means ~~all piping or any portion thereof~~ a sanitary sewer, within public or private premises, ~~that conveys domestic wastewater from~~ serving a campground or recreational vehicle park. **(50e)** "Campground or recreational vehicle park drain system, storm" means ~~all plumbing or any portion thereof~~ a storm sewer, within public or private premises, ~~that conveys any of the following:~~ serving a campground or recreational vehicle park. ~~**(a)** Storm water from a campground or recreational vehicle park.~~ ~~**(b)** Groundwater from a campground or recreational vehicle park.~~ ~~**(c)** Clear water from a campground or recreational vehicle park.~~ ... **(153e)** "Manufactured home community drain system, sanitary" means ~~all piping or any portion thereof~~ a sanitary sewer, within public or private premises, ~~which conveys domestic wastewater from a manufactured home in~~ serving a manufactured home community. **(153m)** "Manufactured home community drain system, storm" means ~~all piping or any portion thereof~~ a storm sewer, within public or private premises, ~~that conveys any of the following:~~ serving a manufactured home community. ~~**(a)** Storm water from a manufactured home community.~~ ~~**(b)** Groundwater from a manufactured home community.~~ ~~**(c)** Clear water from a manufactured home community.~~ **(153s)** "Manufactured home community water supply system" means ~~the piping~~ a water supply system through which potable water is conveyed to points of connection to a manufactured home or homes in a manufactured home community. ... **(284)** "Water supply system" means the piping of a private water main, water service, ~~and~~ water distribution system, manufactured home community water supply system, and campground or recreational vehicle park water supply system, fixture supply connectors, fittings, valves, and appurtenances through which water is conveyed to points of usage such as plumbing fixtures, plumbing appliances, water using equipment or other piping systems to be served.	**381.01 Definitions.** In chs. SPS 381 to 387, except as otherwise specifically defined: … **(50c)** "Campground or recreational vehicle park drain system, sanitary" means a sanitary sewer, within public or private premises, serving a campground or recreational vehicle park. **(50e)** "Campground or recreational vehicle park drain system, storm" means a storm sewer, within public or private premises, serving a campground or recreational vehicle park. ... **(153e)** "Manufactured home community drain system, sanitary" means a sanitary sewer, within public or private premises, serving a manufactured home community. **(153m)** "Manufactured home community drain system, storm" means a storm sewer, within public or private premises, serving a manufactured home community. **(153s)** "Manufactured home community water supply system" means a water supply system through which potable water is conveyed to points of connection to a manufactured home or homes in a manufactured home community. ... **(284)** "Water supply system" means the piping of a private water main, water service, water distribution system, manufactured home community water supply system, and campground or recreational vehicle park water supply system, fixture supply connectors, fittings, valves, and appurtenances through which water is conveyed to points of usage such as plumbing fixtures, plumbing appliances, water using equipment or other piping systems to be served.		
104a	**SPS 381.01 (50c)**	**381.01(50c)** "Campground or recreational vehicle park drain system, sanitary" means ~~all piping or any portion thereof~~ a sanitary sewer, within public or private premises, ~~that conveys domestic wastewater from~~ serving a campground or recreational vehicle park.	**381.01(50c)** "Campground or recreational vehicle park drain system, sanitary" means a sanitary sewer, within public or private premises, serving a campground or recreational vehicle park.	**N/A**	Identifying this system by what it is, a sanitary sewer, will allow for consistency for language dealing with materials, cleanouts, slopes, etc. instead of assuming what is meant. **Presenter: Ryan Boebel**
104b	**SPS 381.01 (50e)**	**381.01(50e)** "Campground or recreational vehicle park drain system, storm" means ~~all plumbing or any portion thereof~~ a storm sewer, within public or private premises, ~~that conveys any of the following:~~ serving a campground or recreational vehicle park. ~~(a) Storm water from a campground or recreational vehicle park.~~ ~~(b) Groundwater from a campground or recreational vehicle park.~~ ~~(c) Clear water from a campground or recreational vehicle park.~~	**381.01(50e)** "Campground or recreational vehicle park drain system, storm" means a storm sewer, within public or private premises, serving a campground or recreational vehicle park.	**N/A**	Identifying this system by what it is, a storm sewer, will allow for consistency for language dealing with materials, cleanouts, slopes, etc. instead of assuming what is meant. (a), (b), & (c) can be removed due to the fact the definition of "storm sewer" contains all 3. **Presenter: Ryan Boebel**
104c	**SPS 381.01 (153e)**	**381.01(153e)** "Manufactured home community drain system, sanitary" means ~~all piping or any portion thereof~~ a sanitary sewer, within public or private premises, ~~which conveys domestic wastewater from a manufactured home in~~ serving a manufactured home community.	**381.01(153e)** "Manufactured home community drain system, sanitary" means a sanitary sewer, within public or private premises, serving a manufactured home community.	**N/A**	Identifying this system by what it is, a sanitary sewer, will allow for consistency for language dealing with materials, cleanouts, slopes, etc. instead of assuming what is meant. **Presenter: Ryan Boebel**
104d	**SPS 381.01 (153m)**	**381.01(153m)** "Manufactured home community drain system, storm" means ~~all piping or any portion thereof~~ a storm sewer, within public or private premises, ~~that conveys any of the following:~~ serving a manufactured home community. ~~(a) Storm water from a manufactured home community.~~ ~~(b) Groundwater from a manufactured home community.~~ ~~(c) Clear water from a manufactured home community.~~	**381.01(153m)** "Manufactured home community drain system, storm" means a storm sewer, within public or private premises, serving a manufactured home community.	**N/A**	Identifying this system by what it is, a storm sewer, will allow for consistency for language dealing with materials, cleanouts, slopes, etc. instead of assuming what is meant. (a), (b), & (c) can be removed due to the definition of "storm sewer" contains all 3. **Presenter: Ryan Boebel**
104e	**SP 381.01 (153s)**	**381.01(153s)** "Manufactured home community water supply system" means ~~the piping~~ a water supply system through which potable water is conveyed to points of connection to a manufactured home or homes in a manufactured home community.	**381.01(153s)** "Manufactured home community water supply system" means a water supply system through which potable water is conveyed to points of connection to a manufactured home or homes in a manufactured home community.	**N/A**	Identifying this system by what it is, a water supply piping, will allow for consistency for language dealing with materials, bury depths, location requirements, etc. **Presenter: Ryan Boebel**
104f	**SPS 381.01 (284)**	**381.01(284)** "Water supply system" means the piping of a private water main, water service, ~~and~~ water distribution system, manufactured home community water supply system, and campground or recreational vehicle park water supply system, fixture supply connectors, fittings, valves, and appurtenances through which water is conveyed to points of usage such as plumbing fixtures, plumbing appliances, water using equipment or other piping systems to be served.	**381.01(284)** "Water supply system" means the piping of a private water main, water service, water distribution system, manufactured home community water supply system, and campground or recreational vehicle park water supply system, fixture supply connectors, fittings, valves, and appurtenances through which water is conveyed to points of usage such as plumbing fixtures, plumbing appliances, water using equipment or other piping systems to be served.	**N/A**	Amending to include new definitions from the last code change package. This would provide consistency throughout the code identifying these two systems as a "water supply system", which is what they truly are. **Presenter: Ryan Boebel**
105	**SPS 382.30 (5)**	**382.30 Sanitary drain systems.** ... **(5)** PITCH OF HORIZONTAL DRAIN PIPING. All horizontal drain piping 4" or larger in diameter shall be installed at a pitch which produces a computed velocity of at least 2 feet per second when flowing half full. … **(d)** *Campground or recreational vehicle park drain system.* The minimum pitch of piping within a campground or recreational vehicle park drain system shall be in accordance with Table 382.30−3. **(e)** *Manufactured home community drain system.* The minimum pitch of piping within a manufactured home community drain system shall be in accordance with Table 382.30−3.	**382.30 Sanitary drain systems.** ... **(5)** PITCH OF HORIZONTAL DRAIN PIPING. All horizontal drain piping 4" or larger in diameter shall be installed at a pitch which produces a computed velocity of at least 2 feet per second when flowing half full. … **(d)** *Campground or recreational vehicle park drain system.* The minimum pitch of piping within a campground or recreational vehicle park drain system shall be in accordance with Table 382.30−3. **(e)** *Manufactured home community drain system.* The minimum pitch of piping within a manufactured home community drain system shall be in accordance with Table 382.30−3.		
105a	**SPS 382.30 (5) (d)**	**382.30(5)(d)** *Campground or recreational vehicle park drain system* . The minimum pitch of piping within a campground or recreational vehicle park drain system shall be in accordance with Table 382.30−3.	**382.30(5)(d)** *Campground or recreational vehicle park drain system* . The minimum pitch of piping within a campground or recreational vehicle park drain system shall be in accordance with Table 382.30−3.	**N/A**	Campground or recreational vehicle park drain systems, sanitary need to have pitch addressed. Building drains and sewers, and private interceptor main sewers are all referred to Table 382.30-3 for pitch, campground and recreational vehicle park drain systems should be as well. **This is contingent on the passing of item 106b.** **Presenter: Ryan Boebel**
105b	**SPS 382.30 (5) (e)**	**382.30(5)(e)** *Manufactured home community drain system* . The minimum pitch of piping within a manufactured home community drain system shall be in accordance with Table 382.30−3.	**382.30(5)(e)** *Manufactured home community drain system* . The minimum pitch of piping within a manufactured home community drain system shall be in accordance with Table 382.30−3.	**N/A**	Manufactured home community drain systems, sanitary need to have pitch addressed. Building drains and sewers, and private interceptor main sewers are all referred to Table 382.30-3 for pitch, manufactured home community drain systems should be as well. **This is contingent on the passing of item 106b.** **Presenter: Ryan Boebel**
105c	**SPS 382.37**	**SPS 382.37 Sanitation facilities, ~~and~~ campgrounds, and recreational vehicle parks.**	**SPS 382.37 Sanitation facilities, and campgrounds, and recreational vehicle parks.**	**N/A**	Recreational vehicle park is a separate entity from a campground and should be included in the title, as this section includes requirements for recreational vehicle parks also. **Presenter: Ryan Boebel**
		382.37 Sanitation facilities and campgrounds. ... **(3) CAMPGROUNDS.** **(a)** ~~*Drain*~~ *Sanitary drain systems.* ~~Sewers~~ Sanitary sewers serving campgrounds and recreational vehicle parks shall comply with the provisions applicable to building sewers in s. SPS 382.30 and all of the following:	**382.37 Sanitation facilities and campgrounds.** ... **(3) CAMPGROUNDS.** **(a)** *Sanitary drain systems.* Sanitary sewers serving campgrounds and recreational vehicle parks shall comply with the provisions applicable to building sewers in s. SPS 382.30 and all of the following:		

106	**SPS 382.37 (3) (a)**	~~sewers~~ in s. SPS 382.30 and all of the following: **1.** A drain line serving a recreational vehicle shall discharge to a minimum 4-inch diameter campsite receptor by means of an indirect waste pipe. **2.** One campsite receptor shall be designed to serve no more than 4 recreational vehicles. **3.** Where 2 or more drain lines are designed to discharge into the same campsite receptor, an increaser shall be installed in the vertical portion of the trap riser to accommodate the drains. **4.** The rim of a campsite receptor shall terminate no less than 4 inches above the finished grade. **5.** The rim of a campsite receptor shall not terminate at an elevation that is higher than the water supply termination serving the same site. **6.** A vent is not required to serve the trap serving a campsite receptor. **7.** When not in use, a campsite receptor shall be capped. **8.** The sanitary drain system shall be constructed of materials suitable for sanitary building sewer pipe, as specified in s. SPS 384.30(2)(c). **9.** Cleanouts shall be provided to comply with s. SPS 382.35, suitable for sanitary building sewers. Additionally, a cleanout shall be provided upstream of the point where more than one campsite receptor is served by a single drain. **10.** A means to locate buried non−metallic campground or recreational vehicle park drain systems, sanitary, that discharge to municipal mains shall be provided in accordance with the options under s. SPS 382.30(11)(h). **11.** Testing and inspection shall be conducted to comply with s. SPS 382.21, suitable for sanitary building sewer and sanitary private interceptor main sewer.	302.30 and all of the following: **1.** A drain line serving a recreational vehicle shall discharge to a minimum 4-inch diameter campsite receptor by means of an indirect waste pipe. **2.** One campsite receptor shall be designed to serve no more than 4 recreational vehicles. **3.** Where 2 or more drain lines are designed to discharge into the same campsite receptor, an increaser shall be installed in the vertical portion of the trap riser to accommodate the drains. **4.** The rim of a campsite receptor shall terminate no less than 4 inches above the finished grade. **5.** The rim of a campsite receptor shall not terminate at an elevation that is higher than the water supply termination serving the same site. **6.** A vent is not required to serve the trap serving a campsite receptor. **7.** When not in use, a campsite receptor shall be capped. **8.** The sanitary drain system shall be constructed of materials suitable for sanitary building sewer pipe, as specified in s. SPS 384.30(2)(c). **9.** Cleanouts shall be provided to comply with s. SPS 382.35, suitable for sanitary building sewers. Additionally, a cleanout shall be provided upstream of the point where more than one campsite receptor is served by a single drain. **10.** A means to locate buried non−metallic campground or recreational vehicle park drain systems, sanitary, that discharge to municipal mains shall be provided in accordance with the options under s. SPS 382.30(11)(h). **11.** Testing and inspection shall be conducted to comply with s. SPS 382.21, suitable for sanitary building sewer and sanitary private interceptor main sewer.		
106a	**SPS 382.37 (3) (a)**	**382.37(3)** CAMPGROUNDS AND RECREATIONAL VEHICLE PARKS.	**382.37(3)** CAMPGROUNDS AND RECREATIONAL VEHICLE PARKS.	**N/A**	The title of the section being referred to is "Campgrounds". Amend language to match title, as it includes recreational vehicle parks. **Presenter: Ryan Boebel**
106b	**SPS 382.37 (3) (a)**	**382.37(3)(a)** ~~*Drain*~~ *Sanitary drain systems.* ~~Sewers~~ Sanitary sewers serving campgrounds and recreational vehicle parks shall comply with the provisions applicable to building sewers in s. SPS 382.30 and all of the following:	**382.37(3)(a)** *Sanitary drain systems.* Sanitary sewers serving campgrounds and recreational vehicle parks shall comply with the provisions applicable to building sewers in s. SPS 382.30 and all of the following:	**N/A**	SPS 382.37 (3) (a) was modified to refer to sanitary drain systems and to follow the provisions of building sewers in SPS 382.30. **Presenter: Ryan Boebel**
106c	**SPS 382.37 (3) (a) 8.**	**382.37(3)(a)8.** The sanitary drain system shall be constructed of materials suitable for sanitary building sewer pipe, as specified in s. SPS 384.30(2)(c).	**382.37(3)(a)8.** The sanitary drain system shall be constructed of materials suitable for sanitary building sewer pipe, as specified in s. SPS 384.30(2)(c).	**N/A**	Need to address materials for sanitary drain systems for campgrounds. **Presenter: Ryan Boebel**
106d	**SPS 382.37 (3) (a) 9.**	**382.37(3)(a)9.** Cleanouts shall be provided to comply with s. SPS 382.35, suitable for sanitary building sewers. Additionally, a cleanout shall be provided upstream of the point where more than one campsite receptor is served by a single drain.	**382.37(3)(a)9.** Cleanouts shall be provided to comply with s. SPS 382.35, suitable for sanitary building sewers. Additionally, a cleanout shall be provided upstream of the point where more than one campsite receptor is served by a single drain.	**N/A**	Need to address clean outs. 382.30 does not make reference to 382.35 for clean out requirements. **Presenter: Ryan Boebel**
106e	**SPS 382.37 (3) (a) 10.**	**382.37(3)(a)10.** A means to locate buried non−metallic campground or recreational vehicle park drain systems, sanitary, that discharge to municipal mains shall be provided in accordance with the options under s. SPS 382.30(11)(h).	**382.37(3)(a)10.** A means to locate buried non−metallic campground or recreational vehicle park drain systems, sanitary, that discharge to municipal mains shall be provided in accordance with the options under s. SPS 382.30(11)(h).	**N/A**	Need to address tracer wire, locating. **Presenter: Ryan Boebel**
106f	**SPS 382.37 (3) (a) 11.**	**382.37(3)(a)11.** Testing and inspection shall be conducted to comply with s. SPS 382.21, suitable for sanitary building sewer and sanitary private interceptor main sewer.	**382.37(3)(a)11.** Testing and inspection shall be conducted to comply with s. SPS 382.21, suitable for sanitary building sewer and sanitary private interceptor main sewer.	**N/A**	Need to address testing and inspections of these systems. **Presenter: Ryan Boebel**
107	**SPS 382.37 (3) (b)**	**382.37 Sanitation facilities and campgrounds.** ... **(3)** CAMPGROUNDS. … **(b)** *Water supply systems.* Water supply systems serving campgrounds shall comply with the provisions in s. SPS 382.40 and all of the following: **1.** An accessible control valve shall be installed at the most upstream point of the campground or recreational vehicle park water supply ~~distribution~~ system and downstream of the municipal meter or pressure tank. **2.** If water is provided to a campsite, individual approved backflow protection shall serve each hose connection in accordance with s. SPS 382.41. **3.** A campsite water supply riser shall terminate no less than 18 inches above finished grade. **4.** If a water supply is provided for individual campsites, water distribution to each individual campsite must comply with the requirements of chs. SPS 381 to 387 and the water supplied may be used for the served campsite only. **5.** The water connection to a camping unit may be plumbed directly if the fixtures comply with provisions of chs. SPS 382 and 384. **6.** A water connection to a camping unit may be made by NSF/ANSI 51 or 61 compliant hose if each camping unit is individually protected by approved cross connection control. **7.** Testing and inspection shall be conducted to comply with s. SPS 382.21, suitable for private water mains and water services. **8.** A means to locate buried non−metallic campground or recreational vehicle park water supply system connected to municipal supply systems shall be provided in accordance with s. SPS 382.40(8)(k). **9.** The water supply system shall be designed for periodic flushing at a minimum velocity of 3 feet per second per ANSI/AWWA Standard C651, Table 3.	**382.37 Sanitation facilities and campgrounds.** ... **(3)** CAMPGROUNDS. … **(b)** *Water supply systems.* Water supply systems serving campgrounds shall comply with the provisions in s. SPS 382.40 and all of the following: **1.** An accessible control valve shall be installed at the most upstream point of the campground or recreational vehicle park water supply system and downstream of the municipal meter or pressure tank. **2.** If water is provided to a campsite, individual approved backflow protection shall serve each hose connection in accordance with s. SPS 382.41. **3.** A campsite water supply riser shall terminate no less than 18 inches above finished grade. **4.** If a water supply is provided for individual campsites, water distribution to each individual campsite must comply with the requirements of chs. SPS 381 to 387 and the water supplied may be used for the served campsite only. **5.** The water connection to a camping unit may be plumbed directly if the fixtures comply with provisions of chs. SPS 382 and 384. **6.** A water connection to a camping unit may be made by NSF/ANSI 51 or 61 compliant hose if each camping unit is individually protected by approved cross connection control. **7.** Testing and inspection shall be conducted to comply with s. SPS 382.21, suitable for private water mains and water services. **8.** A means to locate buried non−metallic campground or recreational vehicle park water supply system connected to municipal supply systems shall be provided in accordance with s. SPS 382.40(8)(k). **9.** The water supply system shall be designed for periodic flushing at a minimum velocity of 3 feet per second per ANSI/AWWA Standard C651, Table 3.		
107a	**SPS 382.37 (3) (b) 1.**	**382.37(3)(b)1.** An accessible control valve shall be installed at the most upstream point of the campground or recreational vehicle park water supply ~~distribution~~ system and downstream of the municipal meter or pressure tank.	**382.37(3)(b)1.** An accessible control valve shall be installed at the most upstream point of the campground or recreational vehicle park water supply system and downstream of the municipal meter or pressure tank.	**N/A**	Update to include new definition. **Presenter: Ryan Boebel**
107b	**SPS 382.37 (3) (b) 7.**	**382.37(3)(b)7.** Testing and inspection shall be conducted to comply with s. SPS 382.21, suitable for private water mains and water services.	**382.37(3)(b)7.** Testing and inspection shall be conducted to comply with s. SPS 382.21, suitable for private water mains and water services.	**N/A**	Need to address testing and inspections of these systems. **Presenter: Ryan Boebel**
107c	**SPS 382.37 (3) (b) 8.**	**382.37(3)(b)8.** A means to locate buried non−metallic campground or recreational vehicle park water supply system connected to municipal supply systems shall be provided in accordance with s. SPS 382.40(8)(k).	**382.37(3)(b)8.** A means to locate buried non−metallic campground or recreational vehicle park water supply system connected to municipal supply systems shall be provided in accordance with s. SPS 382.40(8)(k).	**N/A**	Need to address locating requirements for these systems. **Presenter: Ryan Boebel**
107d	**SPS 382.37 (3) (b) 9.**	**382.37(3)(b)9.** The water supply system shall be designed for periodic flushing at a minimum velocity of 3 feet per second per ANSI/AWWA Standard C651, Table 3.	**382.37(3)(b)9.** The water supply system shall be designed for periodic flushing at a minimum velocity of 3 feet per second per ANSI/AWWA Standard C651, Table 3.	**N/A**	Added flushing requirements for campgrounds. **Presenter: Ryan Boebel**
108	**SPS 382.51 (1)**	**382.51 Manufactured homes and manufactured home communities.** ~~**(1)** DRAIN SYSTEMS. Except as provided in pars. (a) and (b), the building sewers and private interceptor main sewers serving a manufactured home or manufactured home community shall comply with s. SPS 382.30.~~ ~~**(a)** The minimum slope of the aboveground building sewer shall be 1/8 inch per foot.~~ ~~**(b)** For manufactured homes, the most upstream point of the building sewer shall be determined at the connection with the building drain installed by the manufactured home manufacturer prior to delivery.~~ ~~**(c)** The above ground building sewer shall be constructed of materials suitable for above ground drain and vent as specified in s. SPS 384.30 (2) (a).~~	*N/A (Code Language Removed)*	**N/A**	Provide some clarity for manufactured home community sanitary drainage systems through referencing specific code language. Testing, inspection, locating, cleanouts and materials will all be identified. This proposal is needed now that we have a definition for these systems. **Presenter: Ryan Boebel**
108a	**SPS 382.51 (1)**	**382.51(1)** ~~DRAIN SYSTEMS. Except as provided in pars. (a) and (b), the building sewers and private interceptor main sewers serving a manufactured home or manufactured home community shall comply with s. SPS 382.30.~~	*N/A (Code Language Removed)*		Repeal and recreate for Item 109a through 109i. **Presenter: Ryan Boebel**
108b	**SPS 382.51 (1) (a)**	**382.51(1)**~~**(a)** The minimum slope of the aboveground building sewer shall be 1/8 inch per foot.~~	*N/A (Code Language Removed)*		Repeal and recreate for Item 109a through 109i. **Presenter: Ryan Boebel**
108c	**SPS 382.51 (1) (b)**	**382.51(1)**~~**(b)** For manufactured homes, the most upstream point of the building sewer shall be determined at the connection with the building drain installed by the manufactured home manufacturer prior to delivery.~~	*N/A (Code Language Removed)*		Repeal and recreate for Item 109a through 109i. **Presenter: Ryan Boebel**
108d	**SPS 382.51 (1) (c)**	**382.51(1)**~~**(c)** The above ground building sewer shall be constructed of materials suitable for above ground drain and vent as specified in s. SPS 384.30 (2) (a).~~	*N/A (Code Language Removed)*		Repeal and recreate for Item 109a through 109i. **Presenter: Ryan Boebel**
		382.51 Manufactured homes and manufactured home communities. **(1)** SANITARY DRAIN SYSTEMS. Sanitary drain systems serving a manufactured home or manufactured home community shall comply with the provisions applicable to	**382.51 Manufactured homes and manufactured home communities.** **(1)** SANITARY DRAIN SYSTEMS. Sanitary drain systems serving a manufactured home or manufactured home community shall comply with the provisions applicable to		

109	**SPS 382.51 (1)**	building sewers in s. SPS 382.30 and all of the following: **(a)** The manufactured home drain connector shall have a minimum slope of 1/8 inch per foot. **(b)** The manufactured home drain connector shall be constructed of materials suitable for aboveground drain and vent pipe and tubing as specified in s. SPS 384.30(2)(a). **(c)** The building sewer, sanitary and manufactured home community drain system, sanitary shall be constructed of materials suitable for sanitary building sewer pipe, as specified in s. SPS 384.30 (2) (c). **(d)** The most upstream point of the building sewer, sanitary or manufactured home community drain system, sanitary shall be determined at its connection with the manufactured home drain connector. **(e)** The building sewer, sanitary or manufactured home community drain system, sanitary shall terminate above the surrounding finished grade. **(f)** Cleanouts shall be provided to comply with s. SPS 382.35, suitable for sanitary building sewers. Additionally, a cleanout shall be provided at the point where more than one manufactured home is served by a single drain. **(g)** A means to locate buried non−metallic manufactured home community drain systems, sanitary, that discharge to municipal mains shall be provided in accordance with the options under s. SPS 382.30(11)(h). **(h)** Testing and inspection shall be conducted to comply with s. SPS 382.21, suitable for sanitary building sewer and sanitary private interceptor main sewer.	building sewers in s. SPS 382.30 and all of the following: **(a)** The manufactured home drain connector shall have a minimum slope of 1/8 inch per foot. **(b)** The manufactured home drain connector shall be constructed of materials suitable for aboveground drain and vent pipe and tubing as specified in s. SPS 384.30(2)(a). **(c)** The building sewer, sanitary and manufactured home community drain system, sanitary shall be constructed of materials suitable for sanitary building sewer pipe, as specified in s. SPS 384.30 (2) (c). **(d)** The most upstream point of the building sewer, sanitary or manufactured home community drain system, sanitary shall be determined at its connection with the manufactured home drain connector. **(e)** The building sewer, sanitary or manufactured home community drain system, sanitary shall terminate above the surrounding finished grade. **(f)** Cleanouts shall be provided to comply with s. SPS 382.35, suitable for sanitary building sewers. Additionally, a cleanout shall be provided at the point where more than one manufactured home is served by a single drain. **(g)** A means to locate buried non−metallic manufactured home community drain systems, sanitary, that discharge to municipal mains shall be provided in accordance with the options under s. SPS 382.30(11)(h). **(h)** Testing and inspection shall be conducted to comply with s. SPS 382.21, suitable for sanitary building sewer and sanitary private interceptor main sewer.		Provide some clarity for manufactured home community sanitary drainage systems through referencing specific code language. Testing, inspection, locating, cleanouts and materials will all be identified. This proposal is needed now that we have a definition for these systems. **Presenter: Ryan Boebel**
109a	**SPS 382.51 (1)**	**382.51(1)** SANITARY DRAIN SYSTEMS. Sanitary drain systems serving a manufactured home or manufactured home community shall comply with the provisions applicable to building sewers in s. SPS 382.30 and all of the following:	**382.51(1)** SANITARY DRAIN SYSTEMS. Sanitary drain systems serving a manufactured home or manufactured home community shall comply with the provisions applicable to building sewers in s. SPS 382.30 and all of the following:		Provide some clarity for manufactured home community sanitary drainage systems through referencing specific code language. Testing, inspection, locating, cleanouts and materials will all be identified. This proposal is needed now that we have a definition for these systems. **Presenter: Ryan Boebel**
109b	**SPS 382.51 (1) (a)**	**382.51(1)(a)** The manufactured home drain connector shall have a minimum slope of 1/8 inch per foot.	**382.51(1)(a)** The manufactured home drain connector shall have a minimum slope of 1/8 inch per foot.		Provide some clarity for manufactured home community sanitary drainage systems. **Presenter: Ryan Boebel**
109c	**SPS 382.51 (1) (b)**	**382.51(1)(b)** The manufactured home drain connector shall be constructed of materials suitable for aboveground drain and vent pipe and tubing as specified in s. SPS 384.30(2)(a).	**382.51(1)(b)** The manufactured home drain connector shall be constructed of materials suitable for aboveground drain and vent pipe and tubing as specified in s. SPS 384.30(2)(a).		Provide some clarity for manufactured home community sanitary drainage systems. **Presenter: Ryan Boebel**
109d	**SPS 382.51 (1) (c)**	**382.51(1)(c)** The building sewer, sanitary and manufactured home community drain system, sanitary shall be constructed of materials suitable for sanitary building sewer pipe, as specified in s. SPS 384.30 (2) (c).	**382.51(1)(c)** The building sewer, sanitary and manufactured home community drain system, sanitary shall be constructed of materials suitable for sanitary building sewer pipe, as specified in s. SPS 384.30 (2) (c).		Provide some clarity for manufactured home community sanitary drainage systems. **Presenter: Ryan Boebel**
109e	**SPS 382.51 (1) (d)**	**382.51(1)(d)** The most upstream point of the building sewer, sanitary or manufactured home community drain system, sanitary shall be determined at its connection with the manufactured home drain connector.	**382.51(1)(d)** The most upstream point of the building sewer, sanitary or manufactured home community drain system, sanitary shall be determined at its connection with the manufactured home drain connector.		Provide some clarity for manufactured home community sanitary drainage systems. **Presenter: Ryan Boebel**
109f	**SPS 382.51 (1) (e)**	**382.51(1)(e)** The building sewer, sanitary or manufactured home community drain system, sanitary shall terminate above the surrounding finished grade.	**382.51(1)(e)** The building sewer, sanitary or manufactured home community drain system, sanitary shall terminate above the surrounding finished grade.		Provide some clarity for manufactured home community sanitary drainage systems. **Presenter: Ryan Boebel**
109g	**SPS 382.51 (1) (f)**	**382.51(1)(f)** Cleanouts shall be provided to comply with s. SPS 382.35, suitable for sanitary building sewers. Additionally, a cleanout shall be provided at the point where more than one manufactured home is served by a single drain.	**382.51(1)(f)** Cleanouts shall be provided to comply with s. SPS 382.35, suitable for sanitary building sewers. Additionally, a cleanout shall be provided at the point where more than one manufactured home is served by a single drain.		Provide some clarity for manufactured home community sanitary drainage systems. **Presenter: Ryan Boebel**
109h	**SPS 382.51 (1) (g)**	**382.51(1)(g)** A means to locate buried non−metallic manufactured home community drain systems, sanitary, that discharge to municipal mains shall be provided in accordance with the options under s. SPS 382.30(11)(h).	**382.51(1)(g)** A means to locate buried non−metallic manufactured home community drain systems, sanitary, that discharge to municipal mains shall be provided in accordance with the options under s. SPS 382.30(11)(h).		Provide some clarity for manufactured home community sanitary drainage systems. **Presenter: Ryan Boebel**
109i	**SPS 382.51 (1) (h)**	**382.51(1)(h)** Testing and inspection shall be conducted to comply with s. SPS 382.21, suitable for sanitary building sewer and sanitary private interceptor main sewer.	**382.51(1)(h)** Testing and inspection shall be conducted to comply with s. SPS 382.21, suitable for sanitary building sewer and sanitary private interceptor main sewer.		Provide some clarity for manufactured home community sanitary drainage systems. **Presenter: Ryan Boebel**
110	**SPS 382.51 (2)**	**382.51 Manufactured homes and manufactured home communities.** ... **(2)** WATER SUPPLY SYSTEMS. ~~(a) Except as provided in pars. (b) and (c), the water services and private water mains for a manufactured home or manufactured home community shall comply with s. SPS 382.40.~~ ~~**(b)** The above ground water service shall be constructed of materials approved for water distribution as specified in s. SPS 384.30 (4) (e).~~ ~~**(c)** The curb stop serving an individual manufactured home shall terminate outside the perimeter of the manufactured home.~~ ~~**(d)** For manufactured homes, the most downstream point of the water service shall be determined at the connection with the water distribution piping by the manufactured home manufacturer prior to delivery.~~ ~~**(e)** The entire water supply system shall be designed for periodic flushing at a minimum velocity of 3 feet per second per ANSI/AWWA Standard C651, Table 3.~~	*N/A (Code Language Removed)*	**N/A**	Provide some clarity for manufactured home community water supply systems through referencing specific code language. Testing, inspection, locating, and materials will all be identified. This proposal is needed now that we have a definition for these systems. **Presenter: Ryan Boebel**
110a	**SPS 382.51 (2) (a)**	**382.51(2)**~~**(a)** Except as provided in pars. (b) and (c), the water services and private water mains for a manufactured home or manufactured home community shall comply with s. SPS 382.40.~~	*N/A (Code Language Removed)*		Repeal and recreate for Item 111a through 111i. **Presenter: Ryan Boebel**
110b	**382.51 (2) (b)**	**382.51(2)**~~**(b)** The above ground water service shall be constructed of materials approved for water distribution as specified in s. SPS 384.30 (4) (e).~~	*N/A (Code Language Removed)*		Repeal and recreate for Item 111a through 111i. **Presenter: Ryan Boebel**
110c	**SPS 382.51 (2) (c)**	**382.51(2)**~~**(c)** The curb stop serving an individual manufactured home shall terminate outside the perimeter of the manufactured home.~~	*N/A (Code Language Removed)*		Repeal and recreate for Item 111a through 111i. **Presenter: Ryan Boebel**
110d	**SPS 382.51 (2) (d)**	**382.51(2)**~~**(d)** For manufactured homes, the most downstream point of the water service shall be determined at the connection with the water distribution piping by the manufactured home manufacturer prior to delivery.~~	*N/A (Code Language Removed)*		Repeal and recreate for Item 111a through 111i. **Presenter: Ryan Boebel**
110e	**SPS 382.51 (2) (e)**	**382.51(2)**~~**(e)** The entire water supply system shall be designed for periodic flushing at a minimum velocity of 3 feet per second per ANSI/AWWA Standard C651, Table 3.~~	*N/A (Code Language Removed)*		Repeal and recreate for Item 111a through 111i. **Presenter: Ryan Boebel**
111	**SPS 382.51 (2)**	**382.51 Manufactured homes and manufactured home communities.** ... **(2)** WATER SUPPLY SYSTEMS. **(a)** Water supply systems serving a manufactured home or a manufactured home community shall comply with s. SPS 382.40. **(b)** For manufactured homes, the most downstream point of the water service or manufactured home community water supply system shall be determined at the connection with the water distribution piping by the manufactured home manufacturer prior to delivery. **(c)** The water service, private water main and manufactured home community water supply system shall be constructed of materials suitable for water services and private water mains as specified in s. SPS 384.30(4)(d). **(d)** A manufactured home water connector shall be constructed of materials suitable for water distribution piping and tubing as specified in s. SPS 384.30(4)(e). **(e)** A curb stop shall be provided for an individual manufactured home. The curb stop shall terminate outside the perimeter of the manufactured home. **(f)** A building control valve shall be provided on the water service or manufactured home community water supply system a minimum of 6" above the surrounding grade. **(g)** A means to locate buried non−metallic manufactured home community water supply systems to municipal supply systems shall be provided in accordance with s. SPS 382.40(8)(k). **(h)** The water supply system shall be designed for periodic flushing at a minimum velocity of 3 feet per second per ANSI/AWWA Standard C651, Table 3. **(i)** Testing and inspection shall be conducted to comply with s. SPS 382.21, suitable for private water mains and water services.	**382.51 Manufactured homes and manufactured home communities.** ... **(2)** WATER SUPPLY SYSTEMS. **(a)** Water supply systems serving a manufactured home or a manufactured home community shall comply with s. SPS 382.40. **(b)** For manufactured homes, the most downstream point of the water service or manufactured home community water supply system shall be determined at the connection with the water distribution piping by the manufactured home manufacturer prior to delivery. **(c)** The water service, private water main and manufactured home community water supply system shall be constructed of materials suitable for water services and private water mains as specified in s. SPS 384.30(4)(d). **(d)** A manufactured home water connector shall be constructed of materials suitable for water distribution piping and tubing as specified in s. SPS 384.30(4)(e). **(e)** A curb stop shall be provided for an individual manufactured home. The curb stop shall terminate outside the perimeter of the manufactured home. **(f)** A building control valve shall be provided on the water service or manufactured home community water supply system a minimum of 6" above the surrounding grade. **(g)** A means to locate buried non−metallic manufactured home community water supply systems to municipal supply systems shall be provided in accordance with s. SPS 382.40(8)(k). **(h)** The water supply system shall be designed for periodic flushing at a minimum velocity of 3 feet per second per ANSI/AWWA Standard C651, Table 3. **(i)** Testing and inspection shall be conducted to comply with s. SPS 382.21, suitable for private water mains and water services.		Provide some clarity for manufactured home community sanitary drainage systems through referencing specific code language. Testing, inspection, locating, cleanouts and materials will all be identified. This proposal is needed now that we have a definition for these systems. **Presenter: Ryan Boebel**
111a	**SPS 382.51 (2) (a)**	**382.51(2)(a)** Water supply systems serving a manufactured home or a manufactured home community shall comply with s. SPS 382.40.	**382.51(2)(a)** Water supply systems serving a manufactured home or a manufactured home community shall comply with s. SPS 382.40.		Provide some clarity for manufactured home community water supply systems. **Presenter: Ryan Boebel**
111b	**SPS 382.51 (2) (b)**	**382.51(2)(b)** For manufactured homes, the most downstream point of the water service or manufactured home community water supply system shall be determined at the connection with the water distribution piping by the manufactured home manufacturer prior to delivery.	**382.51(2)(b)** For manufactured homes, the most downstream point of the water service or manufactured home community water supply system shall be determined at the connection with the water distribution piping by the manufactured home manufacturer prior to delivery.		Provide some clarity for manufactured home community water supply systems. **Presenter: Ryan Boebel**

111c	**SPS 382.51 (2) (c)**	**382.51(2)(c)** The water service, private water main and manufactured home community water supply system shall be constructed of materials suitable for water services and private water mains as specified in s. SPS 384.30(4)(d).	**382.51(2)(c)** The water service, private water main and manufactured home community water supply system shall be constructed of materials suitable for water services and private water mains as specified in s. SPS 384.30(4)(d).		Provide some clarity for manufactured home community water supply systems. **Presenter: Ryan Boebel**
111d	**SPS 382.51 (2) (d)**	**382.51(2)(d)** A manufactured home water connector shall be constructed of materials suitable for water distribution piping and tubing as specified in s. SPS 384.30(4)(e).	**382.51(2)(d)** A manufactured home water connector shall be constructed of materials suitable for water distribution piping and tubing as specified in s. SPS 384.30(4)(e).		Provide some clarity for manufactured home community water supply systems. **Presenter: Ryan Boebel**
111e	**SPS 382.51 (2) (e)**	**382.51(2)(e)** A curb stop shall be provided for an individual manufactured home. The curb stop shall terminate outside the perimeter of the manufactured home.	**382.51(2)(e)** A curb stop shall be provided for an individual manufactured home. The curb stop shall terminate outside the perimeter of the manufactured home.		Provide some clarity for manufactured home community water supply systems. **Presenter: Ryan Boebel**
111f	**SPS 382.51 (2) (f)**	**382.51(2)(f)** A building control valve shall be provided on the water service or manufactured home community water supply system a minimum of 6" above the surrounding grade.	**382.51(2)(f)** A building control valve shall be provided on the water service or manufactured home community water supply system a minimum of 6" above the surrounding grade.		Provide some clarity for manufactured home community water supply systems. **Presenter: Ryan Boebel**
111g	**SPS 382.51 (2) (g)**	**382.51(2)(g)** A means to locate buried non−metallic manufactured home community water supply systems to municipal supply systems shall be provided in accordance with s. SPS 382.40(8)(k).	**382.51(2)(g)** A means to locate buried non−metallic manufactured home community water supply systems to municipal supply systems shall be provided in accordance with s. SPS 382.40(8)(k).		Provide some clarity for manufactured home community water supply systems. **Presenter: Ryan Boebel**
111h	**SPS 382.51 (2) (h)**	**382.51(2)(h)** The water supply system shall be designed for periodic flushing at a minimum velocity of 3 feet per second per ANSI/AWWA Standard C651, Table 3.	**382.51(2)(h)** The water supply system shall be designed for periodic flushing at a minimum velocity of 3 feet per second per ANSI/AWWA Standard C651, Table 3.		Provide some clarity for manufactured home community water supply systems. **Presenter: Ryan Boebel**
111i	**SPS 382.51 (2) (i)**	**382.51(2)(i)** Testing and inspection shall be conducted to comply with s. SPS 382.21, suitable for private water mains and water services.	**382.51(2)(i)** Testing and inspection shall be conducted to comply with s. SPS 382.21, suitable for private water mains and water services.		Provide some clarity for manufactured home community water supply systems. **Presenter: Ryan Boebel**
112	**SPS 382.51 (3) (a) 1.**	**382.51 Manufactured homes and manufactured home communities.** … **(3)** MANUFACTURED HOME CONNECTIONS. **(a)** Frost sleeves for plumbing serving a manufactured home shall conform to all of the following: **1.** Water ~~service and building~~ supply, sanitary sewer ~~connections~~ and storm sewer piping extending up through the ground surface shall be provided with frost sleeves extending to within 6 inches of the top of the below ground horizontal ~~building~~ sewer or water ~~service~~ supply system, or to a depth at least 6 inches below the predicted depth of frost in accordance with Table 382.30−6.	**382.51 Manufactured homes and manufactured home communities.** … **(3)** MANUFACTURED HOME CONNECTIONS. **(a)** Frost sleeves for plumbing serving a manufactured home shall conform to all of the following: **1.** Water supply, sanitary sewer and storm sewer piping extending up through the ground surface shall be provided with frost sleeves extending to within 6 inches of the top of the below ground horizontal sewer or water supply system, or to a depth at least 6 inches below the predicted depth of frost in accordance with Table 382.30−6.	**N/A**	"Connections" do not require frost sleeves, piping does. Also, update to include new definitions. **Presenter: Ryan Boebel**
113	**SPS 382.51 (3) (b)**	**382.51 Manufactured homes and manufactured home communities.** … **(3)** MANUFACTURED HOME CONNECTIONS. ... **(b)** ~~Termination~~ Terminations of the water ~~service and building~~ supply system, sanitary sewer, and storm sewer shall conform to all of the following: **1.** The ~~manufactured home~~ water ~~service~~ supply system for connection to the manufactured home shall terminate a minimum of 6 inches above the surrounding finished grade. **2.** The ~~manufactured home building~~ sanitary sewer for connection to the manufactured home shall terminate a minimum of 4 inches above the surrounding finished grade and may not terminate higher than the water service termination or manufactured home water supply system termination. **3.** The manufactured home storm sewer for connection to the manufactured home shall terminate a minimum of 4 inches above the surrounding finished grade and may not terminate higher than the water service termination or manufactured home water supply system termination.	**382.51 Manufactured homes and manufactured home communities.** … **(3)** MANUFACTURED HOME CONNECTIONS. ... **(b)** Terminations of the water supply system, sanitary sewer, and storm sewer shall conform to all of the following: **1.** The water supply system for connection to the manufactured home shall terminate a minimum of 6 inches above the surrounding finished grade. **2.** The sanitary sewer for connection to the manufactured home shall terminate a minimum of 4 inches above the surrounding finished grade and may not terminate higher than the water service termination or manufactured home water supply system termination. **3.** The manufactured home storm sewer for connection to the manufactured home shall terminate a minimum of 4 inches above the surrounding finished grade and may not terminate higher than the water service termination or manufactured home water supply system termination.		
113a	**SPS 382.51 (3) (b)**	**382.51(3)(b)** ~~Termination~~ Terminations of the water ~~service and building~~ supply system, sanitary sewer, and storm sewer shall conform to all of the following:	**382.51(3)(b)** Terminations of the water supply system, sanitary sewer, and storm sewer shall conform to all of the following:	**N/A**	Update to include new definitions. **Presenter: Ryan Boebel**
113b	**SPS 382.51 (3) (b) 1.**	**382.51(3)(b)1.** The ~~manufactured home~~ water ~~service~~ supply system for connection to the manufactured home shall terminate a minimum of 6 inches above the surrounding finished grade.	**382.51(3)(b)1.** The water supply system for connection to the manufactured home shall terminate a minimum of 6 inches above the surrounding finished grade.	**N/A**	Update to include new definitions. **Presenter: Ryan Boebel**
113c	**SPS 382.51 (3) (b) 2.**	**382.51(3)(b)2.** The ~~manufactured home building~~ sanitary sewer for connection to the manufactured home shall terminate a minimum of 4 inches above the surrounding finished grade and may not terminate higher than the water service termination or manufactured home water supply system termination.	**382.51(3)(b)2.** The sanitary sewer for connection to the manufactured home shall terminate a minimum of 4 inches above the surrounding finished grade and may not terminate higher than the water service termination or manufactured home water supply system termination.	**N/A**	Update to include new definitions. **Presenter: Ryan Boebel**
113d	**SPS 382.51 (3) (b) 3.**	**382.51(3)(b)3.** The manufactured home storm sewer for connection to the manufactured home shall terminate a minimum of 4 inches above the surrounding finished grade and may not terminate higher than the water service termination or manufactured home water supply system termination.	**382.51(3)(b)3.** The manufactured home storm sewer for connection to the manufactured home shall terminate a minimum of 4 inches above the surrounding finished grade and may not terminate higher than the water service termination or manufactured home water supply system termination.	**N/A**	Identify the termination of a storm sewer the same as a sanitary sewer. This installation may be rare but not impossible. **Presenter: Ryan Boebel**
114	**SPS 382.51 (3) (c)**	**382.51 Manufactured homes and manufactured home communities.** … **(3)** MANUFACTURED HOME CONNECTIONS. ... **(c)** The ~~manufactured home~~ water ~~service and building~~ supply system, sanitary sewer, and storm terminations for a manufactured home shall be capped or plugged when not connected to a manufactured home.	**382.51 Manufactured homes and manufactured home communities.** … **(3)** MANUFACTURED HOME CONNECTIONS. ... **(c)** The water supply system, sanitary sewer, and storm terminations for a manufactured home shall be capped or plugged when not connected to a manufactured home.	**N/A**	Update to include new definitions. **Presenter: Ryan Boebel**
115	**Table 384.30-2**	**Table 384.30-2 (Partial)** **UNDERGROUND DRAIN AND VENT PIPE AND TUBING** Material | Standard Chlorinated Poly Vinyl Chloride (CPVC)[4] | ASTM D2846/D2846M; ASTM F441/F441M; ASTM F442/F442M; ASTM F2618	**Table 384.30-2 (Partial)** **UNDERGROUND DRAIN AND VENT PIPE AND TUBING** Material | Standard Chlorinated Poly Vinyl Chloride (CPVC) | ASTM D2846/D2846M; ASTM F441/F441M; ASTM F442/F442M; ASTM F2618	**N/A**	Footnote d shall be removed from CPVC in Table 384.30-2. Footnote d refers to Type 304, which is not applicable to CPVC. **Presenter: Ryan Boebel**

Exhibit C REVISED

EXISTING LANGUAGE AND PROPOSED CHANGES TO SPS

REPEAL

Table 382.41-1								
Methods or Assemblies of Cross Connection Control (Standard)	Situations and Conditions							
	Backpressure				Back Siphonage			
	Low Hazard		**High Hazard**		**Low Hazard**		**High Hazard**	
	Continuous Pressure	Non-continuous Pressure	Continuous Pressure	Non-continuous Pressure	Continuous Pressure	Non-continuous Pressure	Continuous Pressure	Non-continuous Pressure
Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water-Connected Receptors) (ASME A112.1.2)/Air Gap Fittings for Use with Plumbing Fixtures, Appliances, and Appurtenances (ASME A112.1.3)	X	X	X	X	X	X	X	X
Atmospheric Type Vacuum Breakers (ASSE 1001)/CSA B64.1.1						X		X
Anti-Siphon Fill Valves for Water Closet Tanks (ASSE 1002/ASME A112.1002/CSA B125.12)					X		X	
Hose Connection Vacuum Breakers (ASSE 1011)/Hose Connection Backflow Preventers (ASSE 1052)/CSA B64.2 & B64.2.2	X◊	X	X◊	X	X◊	X	X◊	X
Backflow Preventers with Intermediate Atmospheric Vent (ASSE 1012)/Dual Check Valve Backflow Preventers with Atmospheric Port (CSA B64.3)	X	X			X	X		
Reduced Pressure Principle Backflow Preventers and Reduced Pressure Principle Fire Protection Backflow Preventers (ASSE 1013)/Reduced Pressure Principle (RP) Backflow Preventers (CSA B64.4)	X	X	X	X	X	X	X	X
Backflow Prevention Devices for Hand-Held Showers (ASSE 1014)		X		X		X		X
Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies (ASSE 1015)					X	X		
Trap Seal Primer Valves-Potable Water Supplied (ASSE 1018)					X		X	
Wall Hydrant with Backflow Protection and Freeze Resistance (ASSE 1019)		X		X		X		X

Pressure Vacuum Breaker Assemblies (ASSE 1020)/Pressure Vacuum Breakers (CSA B64.1.2)					X	X	X	X
Backflow Preventer for Beverage Dispensing Equipment (ASSE 1022)					X	X	X	X
Dual Check Backflow Preventers (ASSE 1024)					X	X		
Dual Check Valve Type Backflow Preventers for Carbonated Beverage Dispensers, Post-Mix Type (ASSE 1032)					X	X	X	X
Laboratory Faucet Backflow Preventers (ASSE 1035)		X		X		X		X
Pressurized Flushing Devices for Plumbing Fixtures (ASSE 1037/ASME A112.1037/CSA B125.37)					X		X	
Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies (ASSE 1047)					X			
Double Check Detector Fire Protection Backflow Prevention Assemblies (ASSE 1048)					X			
Dual Check Backflow Preventer Wall Hydrants-Freeze Resistant Type (ASSE 1053)		X		X		X		X
Chemical Dispensers with Integral Backflow Protection (ANSI/CAN/ASSE/IAPMO 1055)						X		X
Spill Resistant Vacuum Breakers (ASSE 1056)/Spill-Resistant Pressure Vacuum Breakers (CSA B64.1.3)					X	X	X	X
Freeze Resistant Sanitary Yard Hydrants with Backflow Protection (ASSE 1057)		X		X		X		X
Backflow Preventers with Integral Pressure Reducing Boiler Feed Valve and Intermediate Atmospheric Vent Style for Domestic and Light Commercial Water Distribution Systems (ASSE 1081)1	X	X			X	X		
Barometric Loop [s. SPS 382.41(5)(i)]					X	X	X	X
Vacuum Breaker Tee [s. SPS 382.41(5)(j)]					X	X	X	X

PROPOSED CODE LANGUAGE

RECREATED

Table 382.41-1

Methods, Device, or Assemblies of Cross Connection Control (Standard)	Situations and Conditions[c]							
	Backpressure				Back Siphonage			
	Low Hazard		**High Hazard**		**Low Hazard**		**High Hazard**	
	Continuous Pressure	Non-continuous Pressure	Continuous Pressure	Non-continuous Pressure	Continuous Pressure	Non-continuous Pressure	Continuous Pressure	Non-continuous Pressure
ASME A112.1.2 Air Gap	X	X	X	X	X	X	X	X
ASME A112.1.3 Air Gap Fittings	X	X	X	X	X	X	X	X
ASSE 1001 Atmospheric Type Vacuum Breakers						X		X
CSA B64.1.1 Atmospheric Vacuum Breakers						X		X
ASSE 1011 or CSA B64.2 Hose Connection Vacuum Breakers	X[a, b]	X[b]	X[a, b]	X[b]	X[a]	X	X[a]	X
CSA B64.2.1 Hose Connection Vacuum Breakers with Manual Draining Features	X[a, b]	X[b]	X[a, b]	X[b]	X[a]	X	X[a]	X
CSA B64.2.2 Hose Connection Vacuum Breakers with Automatic Draining Features	X[a, b]	X[b]	X[a, b]	X[b]	X[a]	X	X[a]	X
ASSE 1012 Backflow Preventers with an Intermediate Atmospheric Vent	X	X			X	X		
CSA B64.3 Dual Check Valve Backflow Preventers with Atmospheric Port	X	X			X	X		
ASSE 1013 Reduced Pressure Principle Backflow Prevention Assembly	X	X	X	X	X	X	X	X
CSA B64.4 Reduced Pressure Principle Backflow Preventers	X	X	X	X	X	X	X	X
CSA B64.4.1 Reduced Pressure Principle Backflow Preventers for Fire Protection Systems	X	X	X	X	X	X	X	X
ASSE 1015 Double Check Backflow Prevention Assembly	X	X			X	X		
CSA B64.5 Double Check Valve Backflow Preventers	X	X			X	X		
CSA B64.5.1 Double Check Valve Backflow Preventers for Fire Protection Systems	X	X			X	X		
ASSE 1020 Pressure Vacuum Breaker Assembly					X	X	X	X
CSA B64.1.2 Pressure Vacuum Breakers					X	X	X	X
ASSE 1024 Dual Check Backflow Preventers	X	X			X	X		
CSA B64.6 Dual Check Valve Backflow Preventers	X	X			X	X		
ASSE 1047 Reduced Pressure Detector Backflow Prevention Assembly	X	X	X	X	X	X	X	X
ASSE 1048 Double Check Detector Backflow Prevention Assembly	X	X			X	X		
ASSE 1052 Hose Connection Backflow Preventers	X[a, b]	X[b]	X[a, b]	X[b]	X[a]	X	X[a]	X
CSA B4.2.1.1 Hose Connection Dual Check Vacuum Breakers	X[a, b]	X[b]	X[a, b]	X[b]	X[a]	X	X[a]	X
ASSE 1056 Spill Resistant Vacuum Breaker Assemblies					X	X	X	X
CSA B64.1.3 Spill Resistant Pressure Vacuum Breakers					X	X	X	X
Barometric loop					X	X	X	X
Vacuum breaker tee					X	X	X	X

a. Limited to campgrounds and marinas
b. Maximum of 10 feet
c. Refer to SPS 384 for application specific methods, devices, and assemblies.

Table 384.20-2
Water Treatment Devices, Chemicals, Components

Applicable Items	Referenced Standard
Drinking Water Treatment Units - Aesthetic Effects	NSF/ANSI 42
Residential Cation Exchange Water Softeners	NSF/ANSI 44
Drinking Water Treatment Units - Health Effects	NSF/ANSI 53
Ultraviolet Microbiological Water Treatment Systems	NSF/ANSI 55
Reverse Osmosis Drinking Water Systems	NSF/ANSI 58
Drinking Water Treatment Chemicals - Health Effects	NSF/ANSI/CAN 60
Drinking Water Distillation Systems	NSF/ANSI 62
Drinking Water System Components - Lead Content	NSF/ANSI 372
Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities	NSF/ANSI/CAN 50

Table 384.20-3
Wastewater Treatment Components and Methods

Applicable Components and Methods	Referenced Standard(s)
Drainfield Trench Product Sizing for Gravity Dispersal Onsite Wastewater Treatment and Dispersal Systems	NSF/ANSI 240
Evaluation of Components and Devices Used in Wastewater Treatment Systems	NSF/ANSI 46
FOG (Fats, Oils and Greases) Disposal Systems	ASME A112.14.6
Grease Interceptors	CSA B481 Series 12
Grease Interceptors, Corrugated HDPE	ASTM F2649
Grease Interceptors, Hydromechanical	ASME A112.14.3
Grease Interceptors, Precast Concrete	ASTM C1613
Grease Interceptors with FOG Sensing and Alarm Devices, Testing and Certification for	PDI-G 102
Grease Removal Devices	ASME A112.14.4
Hydro Mechanical Grease Interceptors with Appendix of Installation and Maintenance, Testing and Rating Procedure for	PDI-G 101
Installation of Thermoplastic Pipe and Corrugated Pipe in Septic Tank Leach Fields, Standard Practice for	ASTM F481
Non-Liquid Saturated Treatment Systems	NSF/ANSI 41
Onsite Residential and Commercial Water Reuse Treatment Systems	NSF/ANSI 350
Onsite Residential and Commercial Greywater Treatment Systems for Subsurface Discharge	NSF/ANSI 350-1
Prefabricated Grease Interceptors	IAPMO/ANSI Z1001
Prefabricated Septic Tanks and Sewage Holding Tanks, Design, Material and Manufacturing Requirements for	CSA B66
Residential Wastewater Treatment Systems	NSF/ANSI 40
Residential Wastewater Treatment Systems – Nitrogen Reduction	NSF/ANSI 245
Septic Tanks, Precast Concrete	ASTM C1227
Water Quality Units, Corrugated HDPE	ASTM F2737

Table 384.30-9
Fittings

Fittings	Referenced Standard(s)[a]
1. Fittings, Acrylonitrile Butadiene Styrene (ABS)	ASTM D2468, ASTM D3311, ASTM F409
2. Fittings, Appurtenances or Valves for use in CPVC or CPVC Systems, Specially Engineered	ASTM F1970
3. Fittings, Cast Bronze	ASME B16.15, ASME B16.24
4. Fittings, Cast Copper Alloy	ASME B16.18, ASME B16.23, ASME B16.26
5. Fittings, Cast Iron	ASME B16.1, ASME B16.4, ASME B16.12, ASME B16.45
6. Fittings, Chlorinated Polyvinyl Chloride (CPVC)	ASTM F437, ASTM F438, ASTM F439
7. Fittings, Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-linked Polyethylene (PEX) and Polyethylene of Raised Temperature (PE-RT) Tubing	ASTM F1960
8. Fittings, Cold-Expansion with Metal Compression-Sleeves for Crosslinked Polyethylene (PEX) Pipe and SDR9 Polyethylene of Raised Temperature (PE-RT) Pipe	ASTM F2080
9. Fittings, Copper	ASME B16.22, ASME B16.29
10. Fittings, Crosslinked Polyethylene (PEX)	ASTM F1807
11. Fittings, Ductile Iron and Gray Iron	AWWA C110, AWWA C153, ASME B16.42
12. Fittings, Gray Iron Pipe Flanges and Flanged Fitting Classes 25, 125 and 250	ASME B16.1
13. Fittings, Gray Iron Threaded Fitting Classes 125 and 250	ASME B16.4
14. Fittings, Malleable Iron[b]	ASME B16.3
15. Fittings, Metric- and Inch-Sized Fittings for PEX Pipe	ASTM F2829/F2829M
16. Fittings, Polyethylene (PE)	ASTM D2609, ASTM D2683, ASTM D3261
17. Fittings, Polyvinyl Chloride (PVC)	ASTM D2464, ASTM D2466, ASTM D2467, ASTM D3311, ASTM F409, ASTM F1336, ASTM F1866
18. Fittings, Polyvinyl Chloride (PVC) Gasketed Sewer	ASTM F1336
19. Fittings, Push-Fit[c,d]	ASSE 1061
20. Fittings, Push-Fit PEX Mechanical Fittings for PEX Tubing	ASTM F2854
21. Fittings, Stainless Steel	ASTM A403/A403M, ASTM A774/A774M
22. Fittings, Standard Specification for Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene and PEX Pipe and Tubing	ASTM F1055
23. Fittings, Steel[e]	ASME B16.5, ASME B16.9, ASME B16.11, ASME B16.28
24. Fittings, Styrene-Rubber (SR)	ASTM D2852
25. Gaskets, Rubber for Cast Iron Soil Pipe and Fittings	ASTM C564, CISPI 301, FM 1680
26. Insert Fittings, Metal, for PE-AL-PE and Crosslinked PEX-AL-PEX Composite Pressure Pipe, Standard Specification for	ASTM D1974
27. Insert Fittings, Metal, Utilizing a Copper Crimp Ring for SDR9 PEX and SDR9 PEX-AL-PEX Tubing, Standard Specification for	ASTM F2434
28. Insert Fittings, Metal Press with Factory Assembled Stainless Steel Press Sleeve for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE- RT) Tubing	ASTM F3347

29. Insert Fittings, Plastic, for SDR9 PEX and PE-RT Tubing	ASTM F2735
30. Insert Fittings, Plastic Press with Factory Assembled Stainless Steel Press Sleeve for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE- RT) Tubing	ASTM F3348
31. Insert Fittings, Plastic Utilizing a Copper Crimp Ring, or Alternate Stainless Steel Clamps for SDR9 Crosslinked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing	ASTM F2159
32. Insert Fittings, Stainless Steel Clamps for Securing SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) to Metal Insert and Plastic Insert Fittings	ASTM F2098

a. The specific standard edition adopted is specified in s. SPS 381.20.
b. NSF Registration Guidelines for Proprietary Substances and Nonfood Compounds. The NSF Nonfood Compounds Registration Program is a continuation of the USDA product approval and listing program, which is based on meeting regulatory requirements including FDA 21 CFR for appropriate use, ingredient, and labeling: https://info.nsf.org/usda/psnclistings.asp.
c. Nominal size ≤ 2-in. CTS.
d. May not be used in temperature/pressure relief valve drain lines unless they are tested and rated for excessive conditions of 210°F (98.9°C) and 150.0 psig (1034 kPa), per ASME A112.4.1 or ASTM F877.
e. Steel and malleable iron fittings used in a water supply system shall be galvanized in accordance with ASTM A123/A123M
f. Threaded joints shall only be used on pipe of sch. 80 or heavier.
g. Closed loop boiler feed only, standard does not require NSF/ANSI 372 or NSF/ANSI/CAN-61 conformance.
h. Design shall conform to ASPE 45-2018.
i. Portland, Type II.

Table 384.30-10
Cross Connection Control

Cross Connection Control Methods, Devices, or Assemblies	Adopted Standard
Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water-Connected Receptors)	ASME A112.1.2
Air Gap Fittings for Use With Plumbing Fixtures, Appliances, and Appurtenances	ASME A112.1.3
Atmospheric Type Vacuum Breakers	ASSE 1001
Atmospheric Vacuum Breakers	CSA B64.1.1
Backflow Preventers for Beverage Dispensing Equipment	ASSE 1022
Backflow Preventers for Hand-Held Showers	ASSE 1014, ASME A112.18.1/CSA B125.1, or ASME A112.18.3
Backflow Preventers with Integral Pressure Reducing Boiler Fee Valve and Intermediate Atmospheric Vent Style for Domestic and Light Commercial Water Distribution Systems	ASSE 1081
Backflow Preventer with an Intermediate Atmospheric Vent	ASSE 1012
Backflow Protection Devices and Systems in Plumbing Fixture Fittings	ASME A112.18.3
Double Check Backflow Prevention Assemblies	ASSE 1015
Double Check Valve Backflow Preventers	CSA B64.5
Double Check Valve Backflow Preventers for Fire Protection Systems	CSA B64.5.1
Double Check Detector Backflow Prevention Assemblies	ASSE 1048
Dual Check Backflow Preventers	ASSE 1024
Dual Check Valve Backflow Preventers	CSA B64.6
Dual Check Backflow Preventers with Atmospheric Port	CSA 64.3
Dual Check Valve Type Backflow Preventers for Carbonated Beverage Dispensers, Post Mix Type, and Non-Carbonated Beverage Dispensers	ASSE 1032
Hose Connection Backflow Preventers	ASSE 1052
Hose Connection Vacuum Breakers	ASSE 1011 or CSA B64.2
Laboratory Faucet Backflow Preventers	ASSE 1035
Laboratory Faucet Vacuum Breakers	CSA B64.7
Pressure Vacuum Breaker Assemblies	ASSE 1020
Pressure Vacuum Breakers	CSA B64.1.2
Pressurized Flushing Devices for Plumbing Fixtures	ASSE 1037/ASME A112.1037/CSA B123.37
Reduced Pressure Principle Backflow Prevention Assemblies	ASSE 1013
Reduced Pressure Principle Backflow Preventers	CSA 64.4
Reduced Pressure Principle Backflow Preventer for Fire Protection Systems	CSA B64.4.1
Reduced Pressure Detector Backflow Prevention Assemblies	ASSE 1047
Spill Resistant Vacuum Breaker Assemblies	ASSE 1056

IAPMO
Water Demand Calculator Analysis

WISCONSIN DEPARTMENT OF SAFETY
AND PROFESSIONAL SERVICES

IAPMO WDC Analysis

- On May 3, 2022, the Department granted an alternate approval for a new methodology used for sizing water supply systems called the IAPMO Water Demand Calculator. The alternate approval is PP-031603529-PTOAA.
- This alternate is based on data gathered by IAPMO, not the Department. Plan reviews are conducted within strict accord of version 2.2 of the water demand calculator provided by IAPMO.
- This alternate approval has a multitude of technical notations and footnotes allowing the user to find additional resources on how to use the IAPMO Water Demand Calculator (WDC).
- The WDC is based on IAPMO's Uniform Plumbing Code (UPC) Appendix M. The Department recognizes the UPC Appendix M is not exclusively referenced in the alternate approval; however, it is mentioned in various documents within the hyperlinks provided in the technical notations and footnotes within the alternate approval.

IAPMO WDC Analysis

- On or before February 15, 2023, the Department discovered designers were using the WSFU values out of Table 382.40-1b to size the fixture supplies.
- Section M 102.4 within the UPC Appendix M specifically states:
  - The flow rate for one fixture branch and one fixture supply shall be the design flow rate of the fixture according to Table M 102.1.
  - **NOTE:** The IAMPO UPC defines fixture branch as a "water supply pipe between the fixture supply pipe and the water distribution pipe." The Wisconsin Plumbing Code definition of fixture supply under s. 381.01(97) is comparable to the IAMPO UPC definition of a fixture branch.

TABLE M 102.1
DESIGN FLOW RATE FOR WATER-CONSERVING PLUMBING FIXTURES AND APPLIANCES IN RESIDENTIAL OCCUPANCIES

FIXTURE AND APPLIANCE	MAXIMUM DESIGN FLOW RATE (gallons per minute)
Bar Sink	1.5
Bathtub	5.5
Bidet	2.0
Clothes Washer*	3.5
Combination Bath/Shower	5.5
Dishwasher*	1.3
Kitchen Faucet	2.2
Laundry Faucet (with aerator)	2.0
Lavatory Faucet	1.5
Shower, per head	2.0
Water Closet, 1.28 GPF Gravity Tank	3.0

For SI units: 1 gallon per minute = 0.06 L/s
* Clothes washers and dishwashers shall have an energy star label.

IAPMO WDC Analysis

- Per the requirement of the alternate approval, water supply piping shall be sized and installed in strict accordance with the WDC v. 2.2.
- The Department has interpreted the provision within Section M 102.4 requires the fixture supply to be sized only by the values within Table M 102.1. The values out of Table 382.40-1b cannot be used to size fixture supplies.
- The use of Table M 102.1 for sizing fixture supplies is outlined in the following materials:
  - Peak Water Demand Study issued by the University of Cincinnati[1]
  - Concise User Guide WDC Version 2.2 by Dan Cole[2]
  - Calculating Peak Water Demand Using New Methods – 2 (*YouTube video)* by Dan Cole[3]

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[1] Peak Water Demand Study issued by the University of Cincinnati https://iapmo.org/media/42ehgafw/peak-water-demand-full-study.pdf

[2] Concise User Guide WDC Version 2.2 by Dan Cole https://iapmo.org/media/pwudwgwx/wdc-concise-user-guide_ver-22.pdf

[3] Calculating Peak Water Demand Using New Methods – 2 (*YouTube video)* by Dan Cole https://www.youtube.com/watch?v=TWKPfT1pu3U

IAPMO WDC Analysis

- The Department became aware designers were splitting the values in Table M 102.1 to accommodate the hot and cold fixture supplies. For example, a tub/shower combination has a value of 5.5 gallons per minute (GPM) within Table M 102.1. Designers were using 2.75 GPM for the hot fixture supply and 2.75 GPM for the cold fixture supply.
- The Department consulted with IAPMO on February 15, 2023, to ask if this method of "splitting" the values should be allowed. IAPMO informed the Department the full GPM values must be accounted for each hot and cold fixture supply. IAPMO clarified the designer of record shall size the entire water distribution system in a compliant manner. The Department has not received any written authorization from IAPMO allowing any other methodology.
- Based on IAPMO's direction, the Department determined both the hot and cold fixture supplies must utilize the full values specified within Table M 102.1.

IAPMO WDC Analysis

- On May 16, 2025, the Wisconsin Plumbing Code Advisory Committee (PCAC) deliberated and discussed allowing the use of WSFU values from Table 382.40-1b to size fixture supplies.
- IAPMO, the University of Cincinnati, or any third-party engineering association, has not provided the State of Wisconsin with any written engineering analysis allowing the use of the WSFU values from Table 382.40-1b to size fixture supplies using the WDC. Therefore, the Department does not allow the use of the WSFU values from Table 382.40-1b when using the WDC.
- The WDC is an approved alternate allowed to be used in Wisconsin as a designed, engineered, and tested methodology. In the interest of public safety, the Department requires a written engineering analysis from a third-party engineering association to deviate from a proven safe and tested method.

IAPMO WDC Conclusion

The Department suggests the following options to the PCAC:

1. Update the alternate to indicate the designer cannot use the GPM values from Table 382.40-1b to size fixture supplies. The designer must use the WDC as written in Appendix M of the UPC. In addition, the GPM values cannot be split between the hot and cold-water fixture supplies. The designer has the following two options for GPM fixture supply values:
    a. Use the GPM values from Table M 102.1 as outlined in Section M 102.4 in the UPC Appendix M.
    b. Provide the manufacturer literature specifying a fixture has a lower flow rate than the value in Table M 102.1 as provided under Section M 102.8 in the UPC Appendix M.
2. Remove the alternate approval entirely. The WDC is an engineering methodology allowed as an analysis per provision SPS 382.40(7). The designer must use the WDC as written in Appendix M of the UPC. The designer cannot use the values from Table 382.40-1b to size fixture supplies. In addition, the GPM values cannot be split between the hot and cold-water fixture supplies. The designer has the same two options listed in Option No. 1 for GPM fixture supply values (see above).
3. The WDC is not an accepted methodology in the State of Wisconsin.

IAPMO
Water Demand Calculator Analysis

WISCONSIN DEPARTMENT OF SAFETY
AND PROFESSIONAL SERVICES

IAPMO WDC Analysis

- On May 3, 2022, the Department granted an alternate approval for a new methodology used for sizing water supply systems called the IAPMO Water Demand Calculator. The alternate approval is PP-031603529-PTOAA.
- This alternate is based on data gathered by IAPMO, not the Department. Plan reviews are conducted within strict accord of version 2.2 of the water demand calculator provided by IAPMO.
- This alternate approval has a multitude of technical notations and footnotes allowing the user to find additional resources on how to use the IAPMO Water Demand Calculator (WDC).
- The WDC is based on IAPMO's Uniform Plumbing Code (UPC) Appendix M. The Department recognizes the UPC Appendix M is not exclusively referenced in the alternate approval; however, it is mentioned in various documents within the hyperlinks provided in the technical notations and footnotes within the alternate approval.

IAPMO WDC Analysis

- On or before February 15, 2023, the Department discovered designers were using the WSFU values out of Table 382.40-1b to size the fixture supplies.
- Section M 102.4 within the UPC Appendix M specifically states:
  - The flow rate for one fixture branch and one fixture supply shall be the design flow rate of the fixture according to Table M 102.1.
  - **NOTE:** The IAMPO UPC defines fixture branch as a "water supply pipe between the fixture supply pipe and the water distribution pipe." The Wisconsin Plumbing Code definition of fixture supply under s. 381.01(97) is comparable to the IAMPO UPC definition of a fixture branch.

TABLE M 102.1
DESIGN FLOW RATE FOR WATER-CONSERVING PLUMBING FIXTURES AND APPLIANCES IN RESIDENTIAL OCCUPANCIES

FIXTURE AND APPLIANCE	MAXIMUM DESIGN FLOW RATE (gallons per minute)
Bar Sink	1.5
Bathtub	5.5
Bidet	2.0
Clothes Washer*	3.5
Combination Bath/Shower	5.5
Dishwasher*	1.3
Kitchen Faucet	2.2
Laundry Faucet (with aerator)	2.0
Lavatory Faucet	1.5
Shower, per head	2.0
Water Closet, 1.28 GPF Gravity Tank	3.0

For SI units: 1 gallon per minute = 0.06 L/s
* Clothes washers and dishwashers shall have an energy star label.

IAPMO WDC Analysis

- Per the requirement of the alternate approval, water supply piping shall be sized and installed in strict accordance with the WDC v. 2.2.
- The Department has interpreted the provision within Section M 102.4 requires the fixture supply to be sized only by the values within Table M 102.1. The values out of Table 382.40-1b cannot be used to size fixture supplies.
- The use of Table M 102.1 for sizing fixture supplies is outlined in the following materials:
  - Peak Water Demand Study issued by the University of Cincinnati[1]
  - Concise User Guide WDC Version 2.2 by Dan Cole[2]
  - Calculating Peak Water Demand Using New Methods – 2 (*YouTube video)* by Dan Cole[3]

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[1] Peak Water Demand Study issued by the University of Cincinnati https://iapmo.org/media/42ehgafw/peak-water-demand-full-study.pdf

[2] Concise User Guide WDC Version 2.2 by Dan Cole https://iapmo.org/media/pwudwgwx/wdc-concise-user-guide_ver-22.pdf

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IAPMO WDC Analysis

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- The Department consulted with IAPMO on February 15, 2023, to ask if this method of "splitting" the values should be allowed. IAPMO informed the Department the full GPM values must be accounted for each hot and cold fixture supply. IAPMO clarified the designer of record shall size the entire water distribution system in a compliant manner. The Department has not received any written authorization from IAPMO allowing any other methodology.
- Based on IAPMO's direction, the Department determined both the hot and cold fixture supplies must utilize the full values specified within Table M 102.1.

IAPMO WDC Analysis

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IAPMO WDC Conclusion

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