



February 2025 Volume 44 Issue 6

Chapters are not authorized to speak for the Society

**AFFILIATE SOCIETIES COUNCIL
AMERICAN SOCIETY OF
PLUMBING ENGINEERS
SOUTHWESTERN OHIO CHAPTER**
5100 Springfield Street, Suite 100
Riverside, OH 45431
www.southwesternohioaspe.org

President
Andrew M Hemmelgarn, EI, CPD
KZF Design
andrew.hemmelgarn@kzf.com

Vice President, Technical
James Fiorini
Hixson
jfiorini@hixson-inc.com

Vice President, Legislative
**Jeremy M. Williams, PE, LEED AP
BD+C**
Heapy
JMWilliams@Heapy.com

Vice President, Membership
Brian Selander
StreamKey, Inc.
brian@streamkey.com

Treasurer
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BraHan, LLC
crissy@bra-han.com

Secretary/Affiliate Liaison
William B Berger
Kohler
bill.berger@kohler.com

Newsletter Editor
John H Fox
Midwest Spec
jfox@mwspec.com

Board of Governors Chair
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Brian.Fraley@Danis.com

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Heapy
atmonnig@heapy.com

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February CHAPTER MEETING

Date: TUESDAY, February 11, 2025

**NEW Location: Countryside YMCA
1699 Deerfield Rd
Lebanon, OH 45036
Tel 513.932.1424**

Cost: \$20 online

Schedule: 11:30PM-1:30PM

Stainless Steel Push-fit Drainage w/ Josam

Reservations: Make a reservation and pay for the meeting through the [Chapter Website](#) or email Bill Berger at bill.berger@kohler.com or John Fox at jfox@mwspec.com before **noon** on **MONDAY, February 10th**, so that a head count can be established. As always, guests are welcome.

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LOOKING AHEAD

**Chapter Meetings to be held at Countryside YMCA,
Lebanon, OH unless noted otherwise.**

March 10th: Infection Prevention w/ Franke Sinks

April 14th: High Purity Water w/ Water Control Corporation

The ASPE Newsletter is published by the Southwestern Ohio Chapter of the American Society of Plumbing Engineers. Opinions expressed herein are those of the authors and do not necessarily reflect the views of the Society, the Chapter or the Editor.

Presidential prose...



Upcoming Events:
March Chapter meeting – March 11, 2025 -
World Plumbing Day!

Thanks for being here, we like having you.

– **Andrew Hemmelgarn**
President

Welcome to 2025! Hopefully everyone has received the meeting update that we will be shifting our meeting day to the **2nd Tuesday of the month**. This is to share space with the Cincinnati ASHRAE meeting which coincided with our usual date of the 3rd Tuesday of the month. The date change will continue indefinitely in after 2025. We apologize to anyone this inconveniences, it is ultimately an attempt to accommodate those engineers, designers, and affiliate partners who would normally attend both meetings.

We are anticipating hosting an ASPE Young Professionals meet up with the local ASHRAE Chapter soon. Please see Izsak Rapp for more details.

Our February Chapter meeting will cover push-fit stainless steel. Please see the article from our new VP Technical later in this newsletter for more information.

As always we are open to programming requests, please reach out to a Board member or submit on the website YOUR ideas for a technical presentation.

The Board is exploring a golf outing of our own. Potentially to be hosted in September 2025, let Andrew know at andrew.hemmelgarn@kzf.com if that piques your interest. Andrew is not a golfer and is trying to learn what it takes to host a successful outing.

INDIANAPOLIS OFFICE
8540 E. 33RD ST.
INDIANAPOLIS, IN 46226
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INFO@BWAASOUTH.COM
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CINCINNATI, OH 45241
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ORDERS@BWAASOUTH.COM
QUOTES@BWAASOUTH.COM
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VALLEY VIEW, OH 44125
PHONE - (330) 635-9220
INFO@BWAASOUTH.COM
QUOTES@BWAASOUTH.COM
WWW.BWAASOUTH.COM

LOUISVILLE OFFICE
1702 CARDO CT
LOUISVILLE, KY 40299
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Technically Speaking...



Technically Speaking

As someone with a January birthday, I hope everyone else is as happy as I am to see January behind us! That being said, January's meeting was a lively discussion from Solid Blend Technologies about water quality testing. Primarily, there was some great back-and-forth about legionella and other pathogens, and our presenters Chris Miller, Amy Ruppert, and Douglas Dolder did a great job leading the discussion.

For February we look forward to Scott Holloway from Josam presenting on stainless steel push-fit drainage fittings and techniques. This is useful particularly for those with chemical, corrosive, or high-temperature discharges, but is certainly not limited to those functions. We hope to see you there!

Cheers,

– **James Fiorini**
VP, Technical

Looking to stay in touch
with the Chapter



www.southwestern-ohio.aspe.org

**The Southwestern Ohio Chapter would
like to wish a**

Happy Birthday

**to the following members celebrating
their birthday this month:**

**Steve Ashpaw, Deana Crawford, Dick
Davis, Doug Dockus, Michael Graziani,
Tim Lehman, Daryn Meadows, Michael
Moll, Kevin Neal, Greg Pearson, Daniel
Prince, Michael Rahe, Chris Schreel,
Brian Selander, David Texter and Ryan
Voss**

And the Chapter would like to wish a

Happy Anniversary

**to the following members
commemorating their ASPE
anniversary this month:**

**Bret Abner, Josh Cable, Dick Davis,
Michael Heaton, Justin Hobing, Kevin
Neal, Greg Pearson, Jack Rahn, Daniel
Ross, Keith Schloemer and Matt
Sciarretti**

Legislative lingo...



New Ohio Code change for Elevators regarding Sump Pumps.

The Elevator Code with Ohio revisions can be found here:

[dico bbs elevator rules eff july 1.pdf](#)

This is a bit more of an obscure rule change. Basically the elevator code changed from referencing the 2016 version to the 2019 version of ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS. Under "Note b" it says to "Section 2.2.2.5-delete the last sentence". That sentence is where we get our 50 gpm requirement per elevator. While Ohio has deleted that last sentence from the last few cycles, it has been best practice, per ASME, to provide 50 gpm per elevator. In the 2019 version, the wording is changed from "per elevator" to "per single hoistway or multiple hoistway." This clarifies that you don't need 100 gpm in a pit shared by two elevators. This is more important in other states that may still reference the last sentence in 2.2.2.5.

Table 4101:5-3-01

Promulgating Agency (Note a)	Standard Identification	Edition	Title
ASME	A 17.1 (Note b)	2016 2019	Safety Code for Elevators and Escalators
Note b	Section 2.2.2.5-delete the last sentence; Section 8.6.11.10-delete the entire section ; Section 8.11.1.1.2(a)- change to read as follows: Periodic tests, as required in 8.6, are not required to be witnessed by a general or special inspector.; Section 8.11.1.1.2(b)- change to read as follows: Periodic test reports shall be submitted to the division within five business days of the completion of the periodic test. The test reports shall be on forms prescribed by the superintendent and shall include the date and type of test(s) performed, detailed results of the test(s), and a statement as to any corrective action taken.		

– **Jeremy M. Williams PE, LEED AP BD+C VP, Technical**

Cincinnati Office
800 - 755 - 7732
513-353 - 9191
rvsales@mvspec.com



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Membership musings...



65F in February can really make you look forward to spring time, though, I'm sure we'll have some snow soon to wear off that wonderful feeling. Hopefully you all were able to enjoy some of those warmer temperatures while they were here and some of the additional daylight we're getting.

This month we have our former Vice President membership and long time Southwest Ohio ASPE member, Ron Cobb,

for our Spotlight. I can still remember how welcoming Ron was when I was just joining ASPE some years ago and I'm very thankful for that.



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What's your favorite ASPE memory?

Attending the 2012 ASPE convention in Charlotte, NC. The hospitality party at the NASCAR HOF was fantastic.

Favorite sport or sport's team and how did that come

to be?

Cincinnati Bengals. Growing up, our family had season tickets from 1968-1982 and I probably attended 90% of all Bengals home games during that time.

What was your first job?

My first job was an evaluation engineer in product development and test at General Electric Aircraft Engines in Evendale.

How has your career path developed to get you where you are today?

I worked for a mechanical contractor where I learned to read plumbing drawings and do material and equipment takeoffs. This gave me the basic understanding of plumbing systems.

What's your best piece of advice for someone who is just getting started in their career?

Attend your monthly ASPE meetings and network with your peers.

Our next chapter meeting is Tuesday, February 11th at the Countryside YMCA in Lebanon on Stainless Steel Push Fit

Drainage w/ Josam. We hope to see you all there.

Our total membership is back up to 107 members this month with these new additions and renewals. We have 58 Full members, 16 Associate members, 30 Affiliate members, 2 Life members, and 1 Retired member.

The following members renewed in January, and we'd like to acknowledge them for their continued support to our local chapter, William Blake, Tony DeNiro, Ronald Dummitt, Tim Goodale, Michael Heaton, Andrew Hemmelgarn, Alex Lee, Stewart Mackey, Kevin Neal, Frank Pauly, Daniel Ross and Kevin Witte. Thank you all!

Total Membership		
	Feb. 24'	Feb. 25'
Buffalo-Niagara	40	44
Central Indiana	121	131
Central Ohio	103	128
Cleveland	90	98
Eastern Michigan	104	114
Evansville	32	40
Johnstown	31	31
Kentucky Bluegrass	28	38
Pittsburgh	97	105
Rochester	76	86
Southwestern Ohio	103	107
Toronto	112	109
Western Michigan	91	93
Region 2 Total:	1028	1124

Thanks,

**- Brian Selander
VP, Membership**

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registration will open soon. If you would like to earn formal recognition of your advanced skills in the design and specification of plumbing systems, [please fill out the eligibility form](#) to determine if you are eligible to take the exam this year.

**2025 CPD
Review Class**

• [Get Ready for the 2025 CPD Exam](#)

Are you considering taking the Certified in Plumbing Design

exam this year or in the future? Join ASPE for their six-part online CPD Review Class this March, where instructor Michael Danielson, CPD, GPD, will help you prepare to ace the exam. The workshop includes a CPD practice test (a \$50 member value), and registration is available at [ASPE Education](#).

Through the pipes...

Call
for
PRESENTATIONS

ASPE
TechSymposium2025

September 24-28
Rosen Centre Hotel
Orlando, Florida

• [Share Your Knowledge](#)

The Society is still seeking presentation proposals for technical education sessions at the 2025 ASPE Tech Symposium this September. The deadline to submit a proposal is February 28. [Submit your proposal](#)>>

**MedGas
Workshop**

American Society of Plumbing Engineers

March 20-23, 2025
Rosemont (Chicago), IL

• [Registration Is Open](#)

Do you need medgas training to obtain the ASSE 6060 certification? ASPE's first in-person MedGas Workshop of 2025 will be held this March, but seats are limited so [register now at ASPE Education](#) if you plan to attend.

2025 CPD Exam

**Registration
Opens Soon**

• [Want to Become a CPD This Year?](#)

The 2025 Certified in Plumbing Design (CPD) exam will be held via remote proctor from April 7-18, and

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• [Curious About MedGas Design?](#)

ASPE's new MedGas Basics classes provide an introduction to medical gas system design for those

looking to get into this exciting specialty of plumbing engineering. [Visit ASPE Education to learn more>>](#)



● **ASPE's Book of the Month** program continues with the [Pumps & Pump Systems II](#) (eBook

version).

Through February 28, 2025, you can purchase the digital edition for 25% off the regular member price. Just enter the coupon code **loveengineering** when you check out.

The discount is only valid on the digital version of the publication, and the coupon code can only be used once. If you are purchasing multiple items, the discount will be applied only to the assigned publication.

Don't forget to enter the coupon code when you check out to receive the discount.



● The

Society is excited to announce that the new and improved [ASPE Connect](#) is now live! They have worked hard to create a more engaging and user-friendly experience for all members, and they can't wait for you to explore the new features.

To help you get started, here are some of the new upgrades that ASPE Connect includes:

- A redesigned, personalized Member Home with a social feed that allows you to like posts directly from the feed, see the replies on each post, and follow posts that interest you.
- New quick links that make it easier to navigate to your communities, start discussions, find new contacts, and maintain your profile.

Please note: If you see a redirect error or the old version of the site, please clear your cookies.

We hope you enjoy using the new ASPE Connect. As always, if you need help or have any questions, please contact our Community Manager at communitymanager@aspe.org.

● [Welcome New Member!](#)

Almost 50 ASPE

MATHCOUNTS[®]

Chapters gained new members in the past month, once again continuing our trend of sustained membership growth. And the Southwestern Ohio Chapter takes great pride in welcoming **William Michael Kaikis** to our ranks.

● On Saturday, February 8, 2025, the **Greater Dayton MATHCOUNTS Competition** was held on the campus of Wright State University. Once again, our Chapter lent an assist to the Dayton Society of Professional Engineers (with members



functioning as proctors, scorers and runners).

Last month, we offered the following problem for your

amusement:

MATHCOUNTS competitions are very different from tests students take in class. For a MATHCOUNTS competition, a score of 23 out of 46 (or 50%) is absolutely fantastic! The Target Round of a MATHCOUNTS competition has four pairs of problems. If we're told that a student answered exactly half of the Target Round questions correctly, and answered one question in each of the pairs of questions correctly, how many different combinations of questions could they have answered correctly? (For example, one combination is questions #1, 3, 5 and 7).

We could try to list them all out or use the Counting Principle.

We know there are four pairs of questions, she answered four questions correctly, and she answered one question correctly in each pair of questions. That means that in the first pair of questions, there are two options. She either got #1 or #2 correct.

When considering the second pair of questions, she either got #3 or #4 correct, and what she did on the first pair has no bearing on the second pair. So, there are 2 options for the first pair and 2 options for the second pair, which makes a total of $2 \times 2 = 4$ combinations so far (#1 and #3 correct, #1 and #4 correct, #2 and #3 correct, #2 and #4 correct).

Now the third pair of questions has 2 options, again neither of which is dependent on what happened

with the first two pairs of questions. So now we're up to $2 \times 2 \times 2 = 8$ combinations.

You can see that we can take the four combinations listed previously, and add #5 to each of them and then add #6 to each of them, thus doubling the number of combinations.

Finally, we have our fourth pair of questions, which gives us another two options. We now have a total of $2 \times 2 \times 2 \times 2 = 16$ possible combinations of questions our competitor could have answered correctly if she answered exactly four questions correctly with one correct answer in each pair of questions.

Around the water cooler...

- We have been overdue for a rough winter, and Mother Nature is certainly giving us one in 2024/2025. But we do have some water cooler discussions to make staying indoors a bit more pleasant. We begin with a common theme: a Cooler that is **having difficulties with an AHJ, this time in the Badger State**. Read on:

I do belong to ASPE and I believe this falls under legal stuff and didn't know where to start. It's really an unfortunate situation that we are in at the present moment in Wisconsin. The question really



is where does the AHJ's authority start and stop? In Wisconsin, we have the Department of Safety and Professional Services or Division of Industry Services. The administrators are non-plumbers that have authority over their plumbing reviewers and the state consultants. They use the legal team to make decisions for the plumbing industry (my opinion).

Because they have the power from Wisconsin Ss. 145.02, I believe they can sometimes use it for the wrong outcome. I have a situation where they "made me" change subject matter on one of my designs. When I say "made me" it was either make the changes they wanted or get the planned denied. Sad, but true. I actually made this little drawing (below) for an email that I just sent off explaining to the DSPS where they put me.

Below find the request for additional information that they sent me even though I had documentation on the plan for each key note. It's really not a matter of what our code language says it's about the stance they took.

The following must be corrected/revised and accompany the resubmittal (as always, highlights ours):

KEY ITEMS:

1. **SPS 382.35(3)(b)1a.** Sanitary building sewers. *Sanitary building sewers 6' or less in diameter shall be provided with cleanouts or manholes such that:*
 - a. *Cleanouts are not located more than 100 feet apart. (This is not a DPS request it is a code requirement, remove all notes from the plan set).*
2. **SPS 382.35(3)(g).** Branches. *Except as provided in Subs. 2. Cleanouts shall be provided in connection with batteries of fixtures at such point that all parts of the branch drain for cleaning or removal of stoppages. For the purposes of this requirement, removable fixture traps may serve as cleanout openings (Install cleanouts at the locations).*
3. **SPS 382.20(4)(b).** Complete sizing calculations for the water distribution system and the water supply system (pressure/storage tank) if applicable. *Record the wsfu value at each change of pipe diameters on the isometric drawings and provide water calculation sheet per this section. **Campsite water supply hose connections shall be at least 15 psig.***
4. **SPS 382.40(7)(d)1a.** *The flow pressure at the outlets of the fixture supplies serving siphonic flushometer water closets and **campsite water supply hose connections shall be at least 15 psig. (Correct the water supply calculations worksheet reflecting 15 psig at the controlling fixture and any changes in piping on the plan set).***
5. **SPS 382.40(4)(b)3b.** *If a private water supply includes an internal pressure tank, the building control valve shall be installed inside the building and located within 3 feet of developed length downstream of the pressure tank. **(The interior potable water tank will be removed from the equipment list; it would be part of the well system regulated by the DNR [Department of Natural Resources. Show the valve downstream of the pressure tank on the plan set]).***

I find the terminology interesting; "remove all notes from the plan set" and "the potable water tank will be removed". This is a pretty interesting way to communicate.

I have probably done 100's of plans and have never had a plan on hold nor asked for additional information. I'm not adding the previous sentence for any reason other than to clarify why the key notes (shown above) surprised me. So, once I received this document I had a decision to make, change my plan or the plumber and owner don't get the conditional approval they need from the DSPS to move the project along.

By the way, it's a campground. Our code book doesn't address cleanouts (key note #1) in campgrounds which makes it a little strange. The DSPS told me they are interpreting that sanitary building sewer language needs to be followed even though it doesn't say campground. I know, I know, where is the building? So this poor owner is having the plumber install 137 cleanouts that are going to get driven over (my opinion) because the DSPS wants them. Included.

Below is the email I got from the drain cleaner that would service the project. I put the cleanouts in every 300' in the design and on the drawing, so it isn't like there were none. (Manufacturers and model numbers withheld)

Please use this as your written statement needed that the system can be maintained with the equipment.

Attached is the drain cleaning equipment we have along with the reels. Our ... chain snake passes through a 4" p-trap but is only 76' long. The ... has a 250' cable and can navigate a 4" p-trap with the correct flex leader.

The ,, jetter (sic) can reach 300'.

Key note #5 is interesting. I asked the division administrator (a non-plumber) to clarify and this is what he sent me:

Q: Are you actually saying by Key Note #5 that you are not allowing any of this information on designs?

A: No. There may have been a misinterpretation on Key Note No. 5. A pressure tank is not a potable water tank; therefore, the potable water tank would be removed from the equipment list.

I'm not sure when well pressure tanks stop being potable but I removed it even though I wanted the plumber and the well contractor to communicate so they sized the water supply system to my

calculations. Without the communication between the two I don't know what is going to happen.

With all that being said, it really comes down to the following note: Department of Industry Services is over the DSPS (they are one in the same)

In granting this approval, the Division of Industry Services reserves the right to require changes or additions, should conditions arise making them necessary for code compliance. As per Wis. Stat. 101.12(2) nothing in this review shall relieve the designer of the responsibility of designing a safe building, structure or component. The Division does not take responsibility for the design or construction of reviewed items.

Ss.101.12

(2) Plans of said buildings, structures and components shall be examined for compliance with the rules of the department and a statement of the examination returned to the designer and owner before construction is started. Nothing in this section shall relieve the designer of the responsibility of designing a safe building, structure or component.

If their legal disclaimer puts all the liability on the designer and they carry none, what's the sense of spending money on the plan review except to satisfy the legalese of the Wisconsin Uniform Plumbing Code?

I would really like your official or unofficial thoughts. Any input into this subject would be greatly appreciated. I am lost and have spent an unbelievable amount of time on this. So, I don't want to waste yours.

There is an interesting side note to this. I am a licensed technical college instructor for teaching plumbing to apprentices. This has more meaning to me besides the designer part. Every one of my fellow educators is dumbfounded by what is going on in the state and we are looking for an answer on how to move forward. If this provides an answer then all the better. Once again, thank you!

We would like to state that we are not attorneys, nor are we offering any legal advice, opinion or services. The following is simply our thoughts and views on the subject based on our experience and research as well as the information you have provided.

- Based on our experience, the first place to determine where the Authority Having Jurisdiction (AHJ) starts and stops should be contained Chapter 1 of the code-in-force. While every state and jurisdiction has

differing but similar rules, they are all based on the laws established for the state and jurisdiction. These laws establish the basis for the code, and the AHJ is responsible for administering that code's compliance.

- Wisconsin's Department of Safety and Professional Services or Division of Industry Services must be established by law. Determine the specific law and research what it says. While the administrators may not be experienced in plumbing design or the trades, they likely have experienced plumbers, engineers or consultants who review the materials provided. Again, the state law should establish this in its language.
- No AHJ or administrator can make someone change their documents without specific legal authority. For a Professional Engineer and/or a Master Plumber, the individual is responsible for the design and holds both legal and ethical responsibility for said design. Unless the department accepts responsibility for the design, they can only point out possible conflicts between the design as presented and their code interpretation.
- If your design were to be denied, due process must be followed. Hence, the administrators must cite the specific sections of the code that need to be complied with and grant you the opportunity to appeal their position. Yes, this can be difficult, but these administrators are bound by law and due process, and you must be willing to defend your design.

Now, let's be sure we understand this project. It is a campground with various parking spots for campers, which may connect to the sewer and water services provided. Is this correct? No structures are associated with the campground except for a possible bathhouse, which the campers might have access to. If this is correct, the Plumbing Code would not have any involvement except for the bathhouse, which would be a building structure. Generally, the plumbing code only has jurisdiction over the building within 30" from the building envelope. While the code may contain language associated with building services, such as building sewers and building water service lines, they must be related to a building.

Building Codes do not generally cover campgrounds. They usually fall under the

jurisdiction and applicable rules and regulations of Civil Engineering or the Department of Health holding jurisdiction, unless they specifically include Building Codes by reference. Hence, the section of the referenced code would only be applicable with specific references within the underlying laws that established the rules.

Based on your "Key Items" list, we suspect they are talking about the bathhouse. Since we have not seen your documents, it is difficult to discuss these issues specifically. But we will make general comments about the list:

1. If this were a note on the documents, we agree it is a code requirement. Therefore, such notes would not be appropriate for the drawings; your design intent should be shown on the plans.
2. Such cleanouts should be shown on the drawings; the contractor should not be left to determine the number and location of the cleanouts.
3. While it has always been our practice to show the wfu's at each "node" on the drawings and isometrics, we do not believe it is a code requirement. The engineer-of-record (EOR), whose seal and signature is affixed to the submitted documents, is legally assuming the responsibility for correctly sizing the system. If the AHJ has concerns about the sizing, they may ask questions and cite code sections, but without specific language in the law, they are not entitled to the calculations.
4. Based on the comment, there is a worksheet requirement. However, unless the law specifically calls this out, the design remains the responsibility of the EOR, not the AHJ. The campsite water supply connections would also be outside the plumbing code. They rightfully belong to the civil design professional.
5. This request would be outside the AHJ's responsibilities. If the Plumbing Contractor is expected to provide the internal pressure tank, it belongs on the equipment list. However, if the Civil or Well Water Contractor is expected to provide the internal pressure tank, it should not be on the plumbing documents equipment list.

While it might be shown on the plans as a "shadow" for space consideration, it would not be part of the Plumbing work. As stated, the building control valve should be shown. If this internal pressure tank is

installed within the potable water system, it will be a potable water tank. Regardless of what it is called, a pressure tank or internal pressure tank, connected to the potable system, it will be a potable tank.

Regardless of how many designs one has done, we must follow the laws that apply to the jurisdiction where the project is located. This is why we, as Design Professionals, need to know and understand the laws that form the basis of the code and rules that govern the AHJs. We have always found it best to discuss our designs openly with the AHJ. But it is our design to which we hold liability, not the AHJ's. We will defend our designs and ensure that the AHJ conforms with the laws, rules, and regulations to which they get their authority.

Interesting statement: "The Division does not take responsibility for the design or construction of the reviewed items." They have no right to dictate the design if they are not taking responsibility for their mandated changes. While the AHJ's must examine the documents for compliance with the rules and code, they have no right to dictate the design. The design belongs to the EOR, who is legally, ethically,

and morally responsible for that design, and has accepted this liability by the placement of their seal and signature on the Contract Documents. It gets changed only when needed to protect the public health, safety, and welfare as determined by the EOR.

While we appreciate the issues you have raised, we must selectively select the battles we need to fight. As we pointed out above, one must understand the underlying state laws that authorize the codes and administrative functions the AHJ is applying. This especially includes the administrative section, Chapter One, of the codes.

Parting thought...

Every year in the middle of February, something wonderful and heartwarming happens. Tons of candy goes on clearance.

-Maxine from "Crabby Road"

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Hot Water Recirculation



In 2012, CircuitSolver® was developed to conquer the challenges inherent to conventional manual balancing valves. As the market's first **thermostatic balancing valves** used for domestic hot water recirculation, CircuitSolver® balances a system based solely on temperature as opposed to pressure or flow to guarantee hot water at **every fixture**. Dynamically balancing a system, CircuitSolver® ultimately **ended complaints** about the lack of hot water, and eliminated balancing processes and callbacks.

Cold Water Recirculation



Last year, we implemented our thermal actuator technology into the CircuitSolver® Union Cold Water balancing valves. These valves are installed in domestic Cold Water recirculation systems to mitigate the risk of Legionella and other bacterial growth. Cold water recirculation is becoming more prominent in hospitals to reduce water stagnation and ensure residual chlorine is distributed but can be beneficial to any commercial building that could experience periods of low flow or non-use.



LEGIONELLA:

Don't Manage the Symptoms. Control the Cause!



We remove Legionella & pathogens *before* they enter your plumbing and mechanical system.

HIGH-CAPACITY ULTRAFILTRATION

Point-of-Entry • Point-of-Use • Hot Water Recirc Treatment



Where NATURE & SCIENCE meet.™ 

- 99.999% removal of Legionella and pathogens (3rd party verified)
- A firewall for the entire building
- Drastic reductions in nutrients and biofilms
- 300 GPM+, minimal pressure loss
- Self-cleaning, long-lasting, low maintenance
- Automatic membrane integrity verification (Meets strict EPA guidelines)




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A TOTAL, STATE-OF-THE-ART HOT WATER SYSTEM, ENGINEERED TO DELIVER A SUPERIOR LEVEL OF USER SAFETY, INFECTION CONTROL AND COMPLIANCE, FROM MECHANICAL ROOM TO THE POINT OF USE.



THE BRAIN®



ABH

**THE BRAIN®
DIGITAL
RECIRCULATION
VALVE**

Digital hot water temperature control that delivers unparalleled accuracy, stability and safety to mitigate the risk of Legionella and scalding.



**RADA DIGITAL
FAUCET**

**GAS-FIRED
WATER HEATING**

Leading-edge gas-fired institutional hot water generation, built for reliability, efficiency and durability.

**RADA DIGITAL
FAUCETS**

Hands-free, programmable, point-of-use fixtures have The Brain® digital technology built in, and offers thermal disinfection, duty flush, bacterial-resistant design and ASSE 1070 compliance.

**SAGE® SMART
HOT WATER
SYSTEM MONITORING
AND REPORTING**

Advanced software provides regular updates, documentation, custom-filtered reports, and real-time alerts for compliance with industry guidelines and Standards of Care.

**PROGRAMMABLE
OPERATION AND
FLOW CONTROL**



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