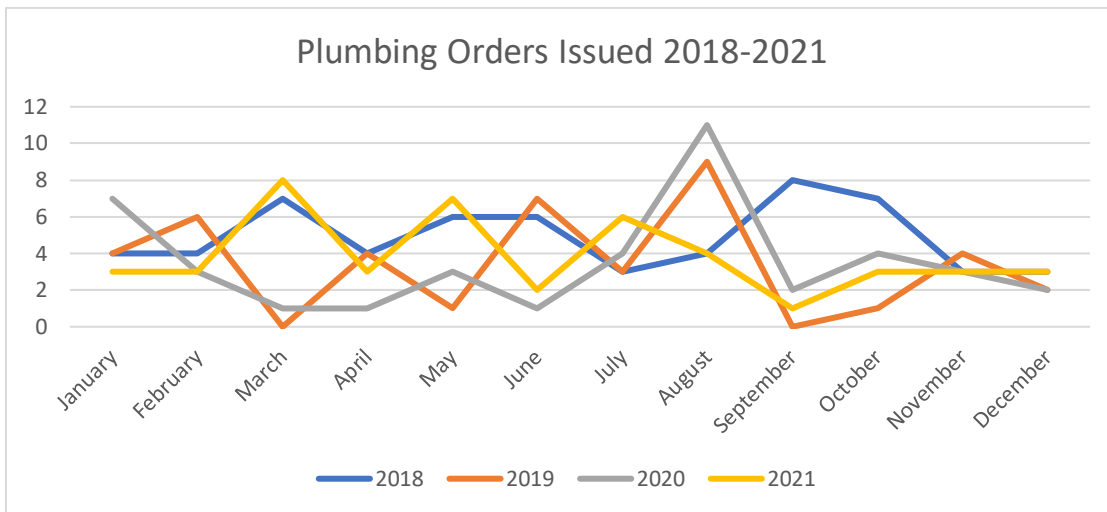
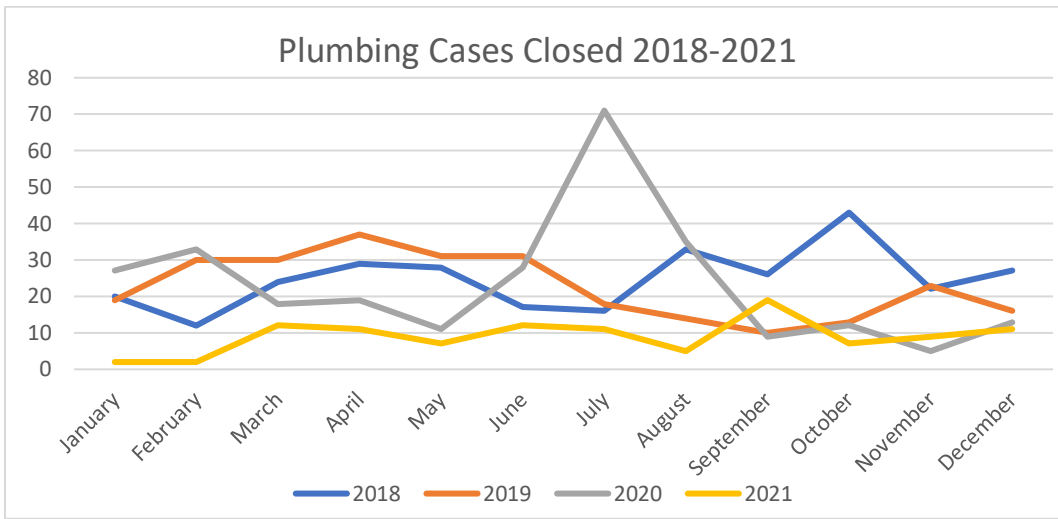
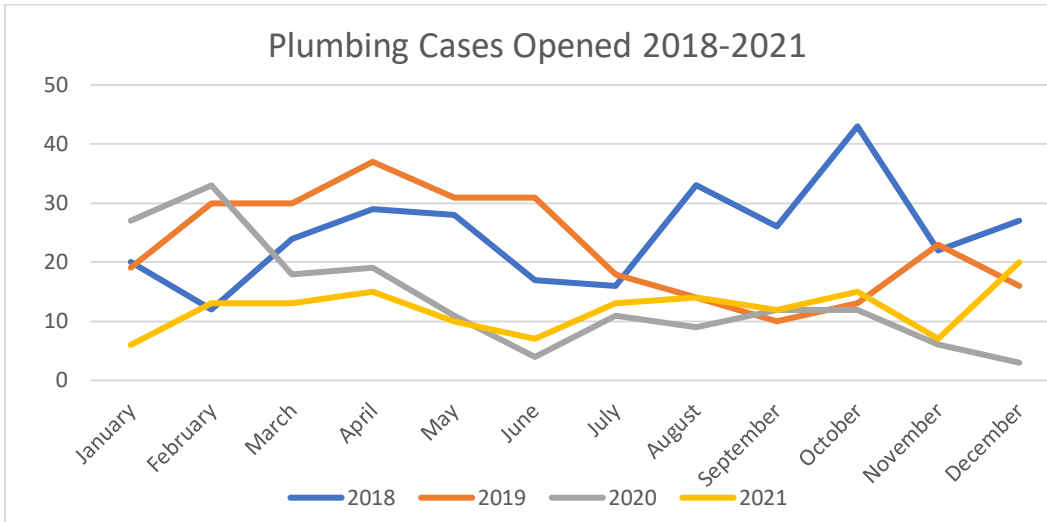
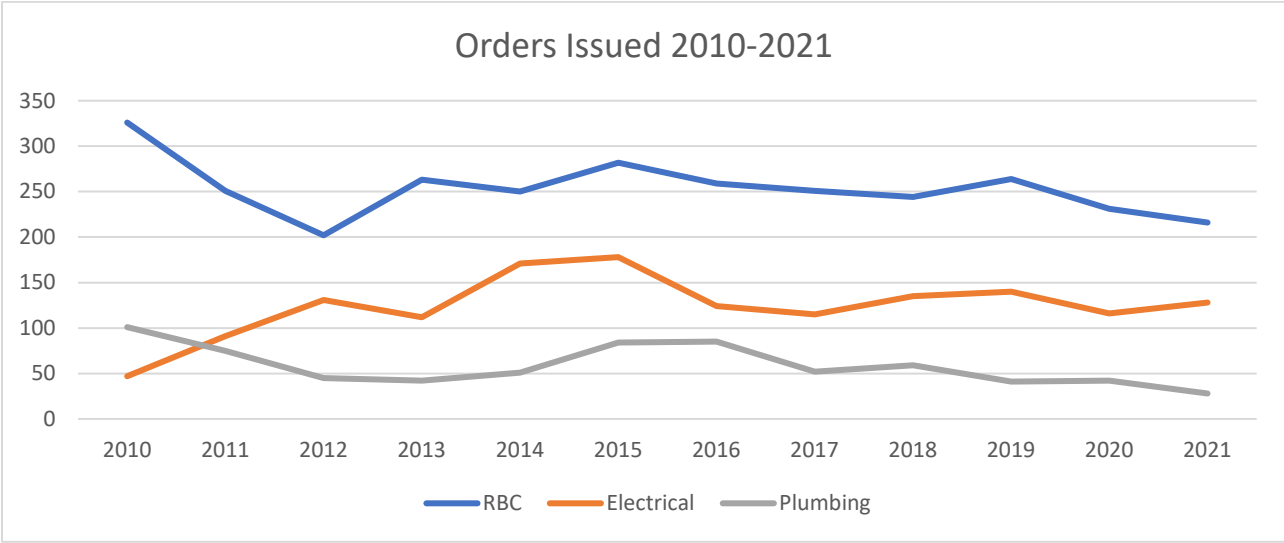
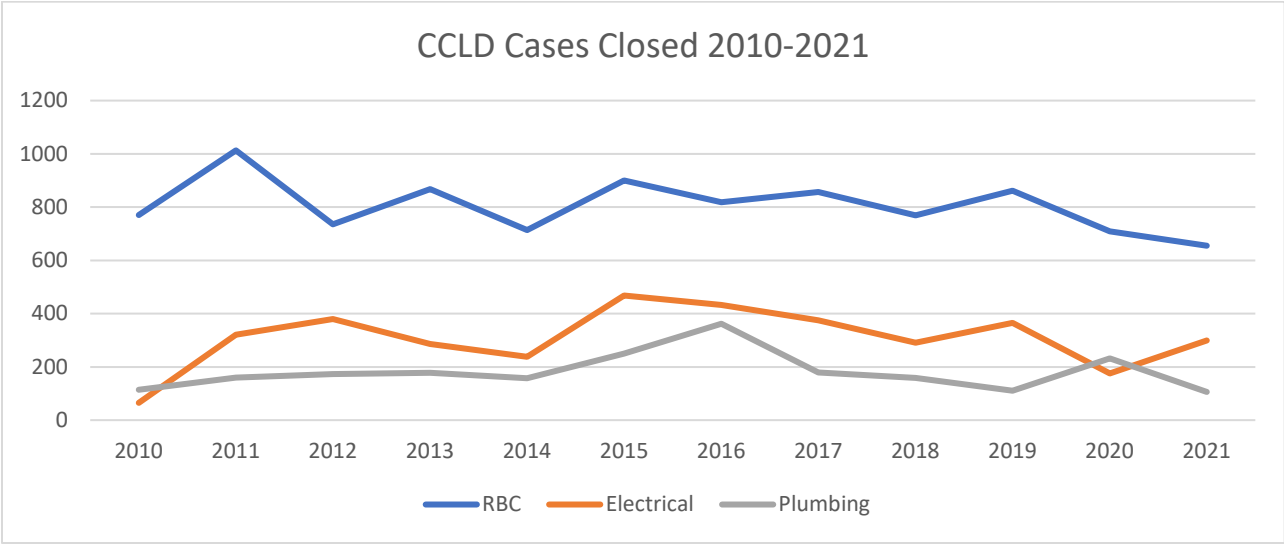
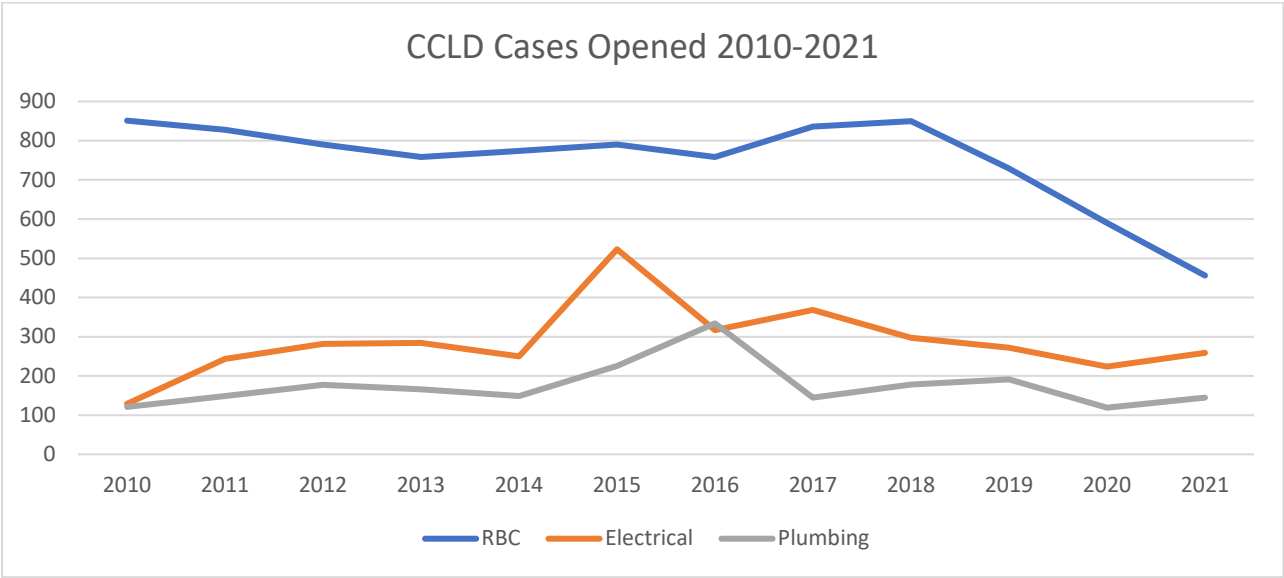


# CCLD PLUMBING ENFORCEMENT STATISTICS 2018-2021



**Cases Active January 18, 2022: 93**

# CCLD ENFORCEMENT CASES (RBC, ELECTRICAL, PLUMBING) 2010-2021



## Plumbing Enforcement Actions

### 2021

A Consent Order is not a finding of fact or admission of guilt.

For more information about specific orders, please call 651-284-5069 or email [dli.contractor@state.mn.us](mailto:dli.contractor@state.mn.us).

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#### **612 Construction LLC and Barry Marcus Garrett**

- Burnsville, MN
- Administrative Order: Cease and desist from unlicensed residential building contractor, remodeler, or roofer activities; cease and desist from unlicensed plumbing and electrical work; \$10,000 monetary penalty – 3/25/2021
- RBC2008-0045/AWT

#### **ABAT Builders, Inc. and Anthony Czupryna**

- Rosemount, IL
- Administrative Order: Cease and desist from unlicensed electrical contractor and plumbing activity; \$10,000 monetary penalty – 1/27/2021
- MLT2101-0002/CMW

#### **All Quality Flooring and Remodeling LLC and Scott Michael Brager**

- Madison, WI
- Consent Cease and Order: Cease and desist from unlicensed residential building contractor, remodeler, roofer, electrical, or plumbing activity; \$2,000 monetary penalty stayed – 5/25/2021
- MLT2012-0001/DLC

#### **AMPS Future Inc. dba Mr. Rooter of the Twin Cities - PC735337**

- Hudson, WI
- Consent Order: Censure; \$2,000 monetary penalty with \$1,700 stayed with conditions – 3/24/2021
- PLB2102-0005/MG

### **Andree Building Concepts LLC and Trevor J. Andree**

- Austin, MN
- Consent Cease and Desist Order: Cease and desist from unlicensed residential building contractor, remodeler, roofer, plumbing, and electrical activities; \$5,000 monetary penalty with \$4,000 stayed – 3/04/2021
- RBC2101-0001/JM

### **Appliance Connections Inc. – PC644466**

- Shakopee, MN
- Consent Order: Licensing Order vacated; \$1,000 monetary penalty stayed with conditions – 10/21/2021
- PLB2106-0007/MG

### **ASP Mechanical, Inc. and Alan Nelson – PC648787**

- Duluth, MN
- Consent Order: Respondents censured; \$2,500 monetary penalty with \$2,000 stayed with conditions – 6/18/2021
- PLB2105-0004/MG

### **Bennett, Joseph Thomas, dba Joe's Home Repair & Handyman Service**

- Austin, MN
- Administrative Order: Cease and desist from unlicensed residential building contractor, remodeler, roofer, electrical, or plumbing activity; \$3,500 monetary penalty – 7/22/2021
- MLT2102-0004/MG

### **Benson, Todd J., dba Apex General Contracting LLC**

- Foley, MN
- Consent Cease and Desist Order: Administrative Order vacated; cease and desist from acting or holding selves out as a residential building contractor, remodeler, or roofer until licensure obtained; Respondent shall not perform or offer to perform plumbing or electrical work except on a home that he owns and resides in; \$5,000 monetary penalty with \$4,500 stayed – 8/26/2021
- ELE1807-00005/WJS

### **Block to Block Property Solutions LLC and Mario L. Jackson – BC776763 and QB775088**

- Minneapolis, MN
- Licensing Order: Licenses revoked; Respondents shall cease and desist from acting or holding themselves out as a residential building contractor, remodeler, or roofer, and cease and desist from performing or offering to perform plumbing and electrical work; \$10,000 monetary penalty – 10/14/2021
- MLT2106-0006/DLC

## **Bloom, Sherman**

- Little Falls, MN
- Consent Cease and Desist Order: Cease and desist from performing the work of a mechanical contractor until required bond filing achieved; \$2,000 monetary penalty stayed – 3/25/2021
- PLB2102-0013/MG

## **Caruthers, Andrew Leonard, Jr., dba Andrews Handyman Services and TC HandyMan Services**

- Round Lake, IL
- Administrative Order: Cease and desist from unlicensed residential building contractor, remodeler, roofer, plumbing, and electrical activity; \$3,000 monetary penalty – 2/12/2021
- MLT2004-0004/TDO

## **Caspian Remodeling LLC and Delshod Alisher Raimi**

- Eden Prairie and Burnsville, MN
- Administrative Order: Cease and desist from unlicensed residential building contractor, remodeler, roofer, electrical, and plumbing work; \$16,000 monetary penalty – 4/16/2021
- MLT2102-0009/ALF

## **Choice Heating and Air Conditioning, LLC – PC773177**

- Racine, MN
- Consent Order: Censure; \$2,000 monetary penalty stayed with conditions – 5/07/2021
- PLB2104-0011/MG

## **Curney, Craig W. – PJ141381**

- Minneapolis, MN
- Consent Cease and Desist Order: Cease and desist from unlicensed plumbing work; stay of \$750 from previous Consent Order lifted, remaining \$1,250 from previous Consent Order and an additional \$10,000 monetary penalty stayed – 3/12/2021
- PLB2009-0005/MG

## **Davis Plumbing Services LLC and Evan D. Davis**

- Elk River, MN
- Consent Cease and Desist Order: Cease and desist from unlicensed plumbing activity; \$2,500 monetary penalty stayed – 5/06/2021
- PLB2104-0007/MG

## **Derry, Andrew**

- Minneapolis, MN
- Consent Cease and Desist Order: Cease and desist from performing or offering to perform the services of a plumbing contractor in Minnesota until licensure is achieved; \$2,500 monetary penalty stayed – 10/25/2021
- PLB2109-0003/MG

## **DNS Plumbing & Heating LLC, Kurt Simon, Daniel Gallagher, and Nicholas Schaefer – PC758197, PM062902, and PJ067661**

- South St. Paul and New Market, MN
- Consent Order: Respondents censured; \$5,000 monetary penalty with \$3,000 stayed with conditions – 6/05/2021
- PLB2010-0007/CMW

## **Ekstrom, Gabriel Sean, Individually and dba Ekstrom Home Improvement**

- Fargo, ND
- Administrative Order: Cease and desist from unlicensed residential building contractor, remodeler, or roofer activity; cease and desist from performing or offering to perform the services of an electrical or plumbing contractor; \$10,000 monetary penalty – 11/30/2021
- RBC2110-0034/KF

## **Every Plumbing & Heating, Inc. and Dennis Every**

- Onalaska, WI
- Consent Cease and Desist Order: Cease and desist from performing or offering to perform plumbing work in Minnesota until appropriate licensure and bonding are achieved; \$2,500 monetary penalty stayed – 12/07/2021
- PLB2110-0012/MG

## **Fenger, Charles**

- Sanborn, MN
- Consent Cease and Desist Order: Cease and desist from unlicensed plumbing activity; \$3,000 monetary penalty stayed for three years – 4/14/2021
- PLB1904-0018/MG

## **Gary Good Construction LLC and Gary V. Good**

- Owatonna, MN
- Consent Cease and Desist Order: Cease and desist from acting or holding selves out as a residential building contractor, remodeler, or roofer until licensure obtained; Respondents shall not perform or offer to perform plumbing or electrical work; \$7,000 monetary penalty stayed – 9/08/2021
- MLT2106-0003/DLC

## **GBG Mechanical LLC**

- Chaska, MN
- Consent Order: Licensing Order vacated; censure; \$2,000 monetary penalty with \$1,700 stayed – 1/27/2021
- PLB2007-0004/MG

## **Gillson, Rodney**

- Buyck and Cook, MN
- Notice of Determination and Determination: Corrective action ordered in November 2020 Administrative Order is unsatisfactory; \$2,000 forgivable penalty now due and owing – 2/25/2021
- PLB2002-0012/MG

## **Hansen, Rodd T.**

- Maple Grove, MN
- Administrative Order: Cease and desist from unlicensed residential building contractor, remodeler, and roofer activity and cease and desist from unlicensed plumber activity; \$6,000 monetary penalty – 1/06/2021
- RBC2004-0011/MG and MLT2007-0003/MG

## **JDS LAWN CARE AND HOME IMPROVEMENT, LLC and Jason Dupre and Brian Winson (aka Brian Winsor)**

- Minneapolis, MN
- Consent Cease and Desist Order: Cease and desist from unlicensed residential building contractor, remodeler, roofer, electrical, or plumbing activity; \$7,000 monetary penalty stayed – 6/22/2021
- MLT2103-0004/DLC

### **Johnson, Sean Christopher**

- Little Canada, MN
- Administrative Order: Cease and desist from unlicensed residential building contractor, remodeler, roofer, electrical, or plumbing activity; \$15,000 monetary penalty – 7/29/2021
- ELE2105-0002/AWT

### **Jonason, Samuel I., dba Penguin Heating & Cooling LLC**

- Whapeton, ND
- Consent Cease and Desist Order: Cease and desist from performing mechanical contractor work in Minnesota until surety bond filed; \$2,500 monetary penalty stayed – 8/05/2021
- PLB2010-0001/MG

### **Koltes, Theodore John, dba Home Inspecting & Contracting Direct, Inc.**

- Bloomington, MN
- Administrative Order: Cease and desist from unlicensed residential building contractor, remodeler, roofer, electrical, or plumbing activity; \$8,000 monetary penalty – 8/26/2021
- MLT2105-0001/DLC

### **Kramer Mechanical Plumbing And Heating, Inc. – PC643752**

- Stacy, MN
- Consent Order: Censure; \$2,000 monetary penalty stayed with conditions – 11/09/2021
- PLB2108-0009/MG

### **Kummala, Kyle Alex, dba KAK Construction**

- Menahga and Ramsey, MN
- Consent Order: Administrative Order vacated; cease and desist from unlicensed residential building contractor, remodeler, roofer, electrical, or plumbing activity; \$15,000 monetary penalty with \$10,000 stayed – 6/29/2021
- MLT1912-0005/JM

### **MH Plumbing, Inc. and Mark H. Horner – PC643853 and PM065689**

- Isanti, MN
- Consent Order: Respondents censured; \$5,000 monetary penalty with \$3,000 stayed with conditions – 3/18/2021
- PLB2102-0012/CMW



## **Mid State Plumbing & Heating, Inc. and Benjamin Radant – PC652126**

- Hastings, MN
- Consent Order: Respondents censured; \$2,500 monetary penalty stayed with conditions – 9/17/2021
- PLB2107-0010/MG

## **Next Chapter Properties, LLC and Jesse Wayne Dill**

- Elko New Market, MN
- Consent Cease and Desist Order: cease and desist from unlicensed plumbing and electrical work; cease and desist from acting or holding themselves out as a residential building contractor, remodeler, or roofer; \$5,000 monetary penalty with \$3,000 stayed – 4/19/2021
- ELE2103-00008/CMW

## **Noble Plumbing, LLC and Brian Goebel – PC776298**

- Albert Lea, MN
- Consent Order: Respondents censured; \$2,500 monetary penalty with \$2,000 stayed with conditions – 6/04/2021
- PLB2104-0013/MG

## **Noska Plumbing & Heating, Inc. and Craig Noska**

- Browerville, MN
- Consent Cease and Desist Order: Administrative Order vacated; cease and desist from unlicensed plumbing activity; \$5,000 monetary penalty with \$4,000 stayed – 3/24/2021
- PLB2010-0010/MG

## **Pepper, Geoff R., dba Peps Construction – BC732311**

- Austin, MN
- Consent Order: Censure; cease and desist from performing or offering to perform plumbing or electrical work; \$5,000 monetary penalty with \$3,750 stayed with conditions – 9/15/2021
- MLT2106-0007/DLC

## **Plum, Christopher J., dba The Happy Plumber**

- Eagan, MN
- Consent Cease and Desist Order: Cease and desist from performing or offering to perform plumbing work until licensure and bonding obtained; \$2,500 monetary penalty stayed – 8/27/2021
- PLB2107-0013/MG

### **R & G Painting and Handyman LLC, and Rolando Cantu-Murillo**

- Austin, MN
- Consent Cease and Desist Order: Cease and desist from unlicensed residential building contractor, remodeler, roofer, electrical, or plumbing activity; \$3,000 monetary penalty stayed – 5/05/2021
- PLB2104-0012/MG

### **RHD Plumbing Inc – PC764316**

- Stoughton, WI
- Consent Order: Censure; \$2,500 monetary penalty with \$2,000 stayed with conditions – 5/25/2021
- PLB2103-0010/MG

### **SkyWalker Services LLC, dba Skywalker Construction and Remodeling, and Curtis Sky Walker**

- Houston, TX, St. Paul, MN, Minneapolis, MN, and Mound, MN
- Administrative Order: Cease and desist from unlicensed residential building contractor, remodeler, roofer, electrical, or plumbing activity; \$6,000 monetary penalty – 9/23/2021
- MLT2107-0003/CMW

### **Solberg, Ronald Allen, Jr., dba RS14CONSTRUCTION L.L.C.**

- Dent, MN
- Administrative Order: Cease and desist from unlicensed residential building contractor, remodeler, or roofer activities; cease and desist from unlicensed plumbing or electrical work; \$20,800 monetary penalty – 3/12/2021
- RBC2011-0036/DLC and RBC2012-0025/DLC

### **Sparrow Plumbing, LLC and Valentin Vorobyov**

- Apple Valley, MN
- Consent Cease and Desist Order: Cease and desist from performing or offering to perform plumbing or mechanical contractor work in Minnesota until appropriate licensure and bonding is achieved; \$2,500 monetary penalty stayed – 11/01/2021
- PLB2105-0009/MG

### **Stout & Evink Plumbing and Heating, Inc. – PR643874**

- Pipestone, MN
- Consent Order: Censure; \$2,000 monetary penalty stayed with conditions – 5/14/2021
- PLB2104-0009/MG

## **Tapia, Pedro, dba Gopher Sewer and Drain**

- Fridley, MN
- Consent Cease and Desist Order: Cease and desist from performing or offering to perform the services of a plumbing contractor in Minnesota until appropriate licensure and bonding is achieved; \$2,500 monetary penalty with \$2,300 stayed – 11/21/2021
- PLB2109-0007/MG

## **Tesoro Homes Inc. and Olmedo Alvarado**

- Minneapolis and Roseville, MN
- Administrative Order: Cease and desist from unlicensed residential building contractor, remodeler, roofer, electrical, or plumbing activity; \$15,000 monetary penalty – 7/02/2021
- RBC2105-0017/ALF

## **VinZant, James Paul – QB692478 and PM065956**

- Oakdale, MN
- Consent Order: \$10,000 monetary penalty stayed with conditions – 2/25/2021
- RBC2012-0019/ALF

## **VIS Plumbing & Heating, Inc. and Jon Willford – PC645316**

- Lanesboro, MN
- Consent Order: Respondents censured; \$2,000 monetary penalty stayed with conditions – 7/29/2021
- PLB2105-0002/MG

## **Yue, Guojin**

- Minneapolis, MN
- Consent Cease and Desist Order: Cease and desist from unlicensed residential building contractor, remodeler, roofer, electrical contractor, and plumbing contractor activity; \$7,000 monetary penalty stayed – 8/03/2021
- MLT2105-0005/DLC

# CCLD LICENSE EXAM PASS RATES 2017-2021

(# passed/total exams)

## ELECTRICAL

EXAM	2017	2018	2019	2020	2021	5 Year Avg.
Journey	35% (397/1,144)	29% (292/991)	39% (492/1,271)*	36% (396/1,089)	37% (535/1,465)	35% (2,112/5,960)
Master	44% (165/377)	44% (136/311)	45% (178/399)	45% (136/302)	42% (213/504)	44% (828/1,893)
PLT	63% (152/241)	50% (118/234)	48% (131/272)	47% (84/179)	39% (94/238)	50% (579/1,164)
Satellite	60% (3/5)	100% (2/2)	100% (1/1)	33% (1/3)	50% (1/2)	62% (8/13)

\*Number of exam questions reduced from 100 to 80 in March 2019

## ELEVATOR

EXAM	2017	2018	2019	2020	2021	5 Year Avg.
Journey	60% (24/40)	80% (20/25)	65% (13/20)	75% (36/48)	72% (21/29)	70% (114/162)
Master	0	83% (5/6)	50% (2/4)	100% (4/4)	78% (7/9)	78% (18/23)

## RESIDENTIAL BUILDING CONTRACTOR

EXAM	2017	2018	2019	2020	2021	5 Year Avg.
Builder	61% (675/1,098)	61% (687/1,127)	59% (746/1,262)	61% (524/853)	60% (720/1,206)	60% (3,352/5,546)
Remodeler	50% (32/64)	58% (30/52)	54% (32/59)	46% (16/35)	48% (45/96)	51% (155/306)
Roofer	62% (16/26)	67% (14/21)	55% (18/33)	68% (19/28)	50% (22/44)	59% (89/152)
MH Installer	50% (3/6)	30% (3/10)	73% (11/15)	80% (4/5)	50% (2/4)	56% (23/40)

## PLUMBING

EXAM	2017	2018	2019	2020	2021	5 Year Avg.
Journey	81% (165/204)	76% (185/242)	71% (177/249)	77% (174/225)	70% (242/348)	74% (943/1,268)
Master	84% (76/90)	74% (63/85)	66% (52/79)	84% (48/57)	79% (62/78)	77% (301/389)

## HPP

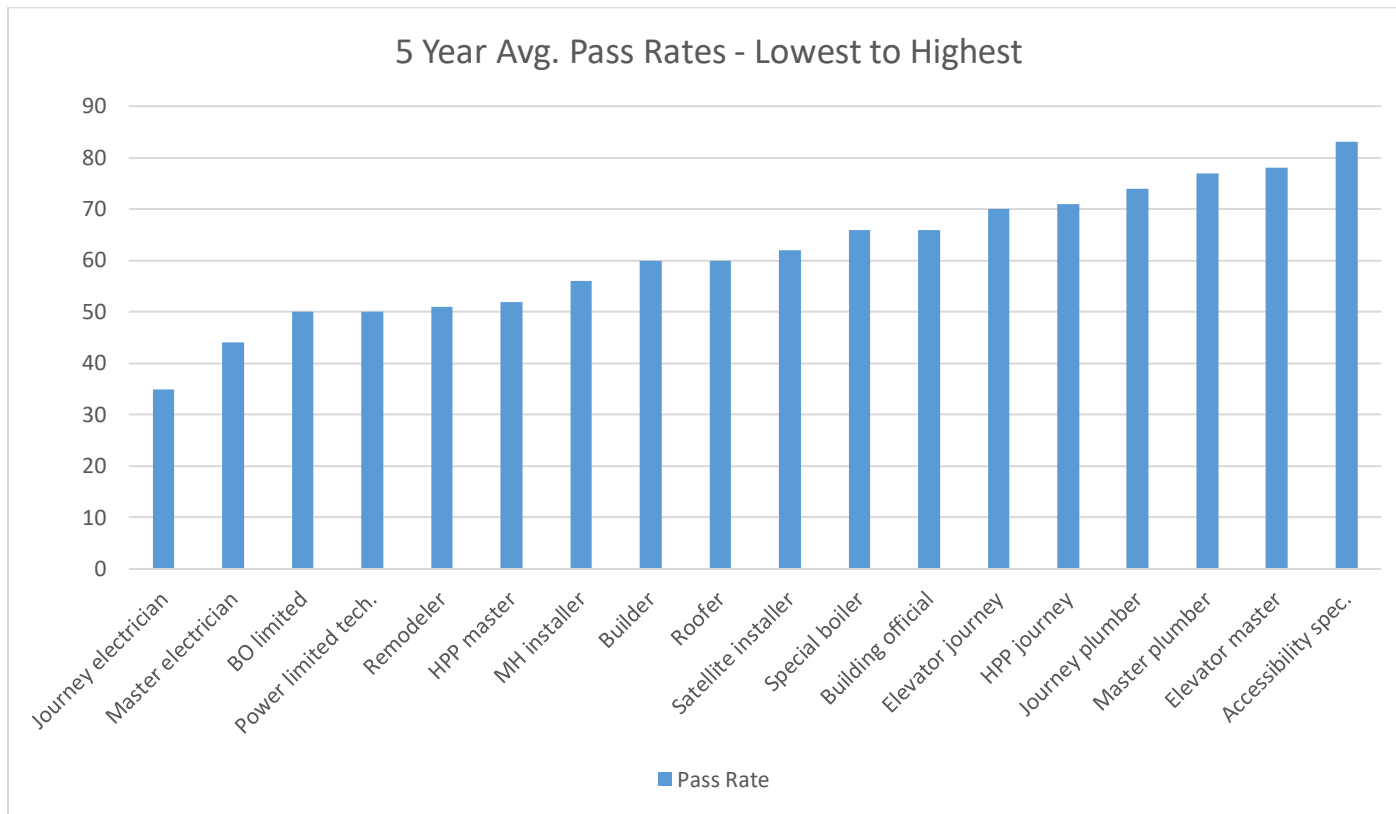
EXAM	2017	2018	2019	2020	2021	5 Year Avg.
Journey	71% (82/115)	74% (121/163)	67% (132/196)	71% (117/164)	70% (154/221)	71% (606/859)
Master	61% (11/18)	57% (13/23)	48% (10/21)	44% (8/18)	51% (20/39)	52% (62/119)

## BOILER

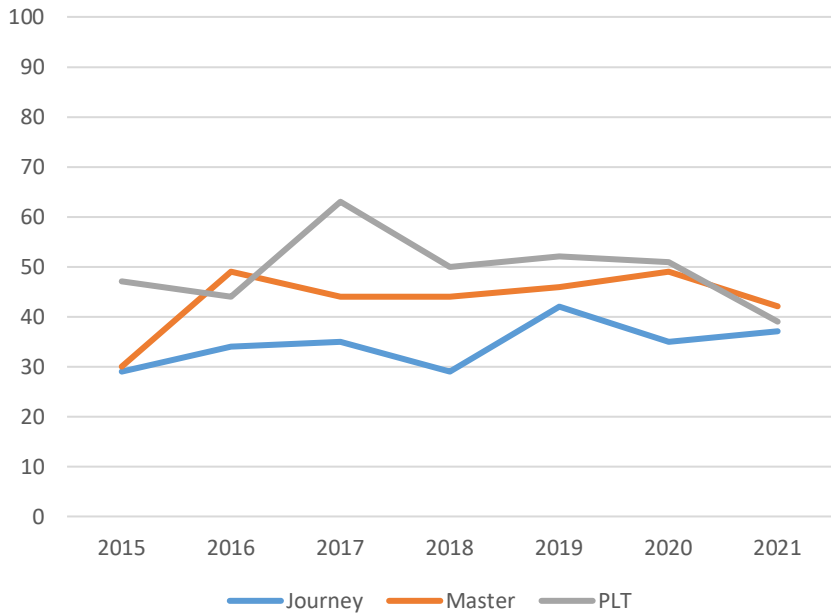
EXAM	2017	2018	2019	2020	2021	5 Year Avg.
Special	69% (1,576/2,294)	67% (1,508/2,237)	63% (1,376/2,193)	65% (873/1,336)	63% (1,298/2,058)	66% (6,631/10,118)

## BUILDING OFFICIAL

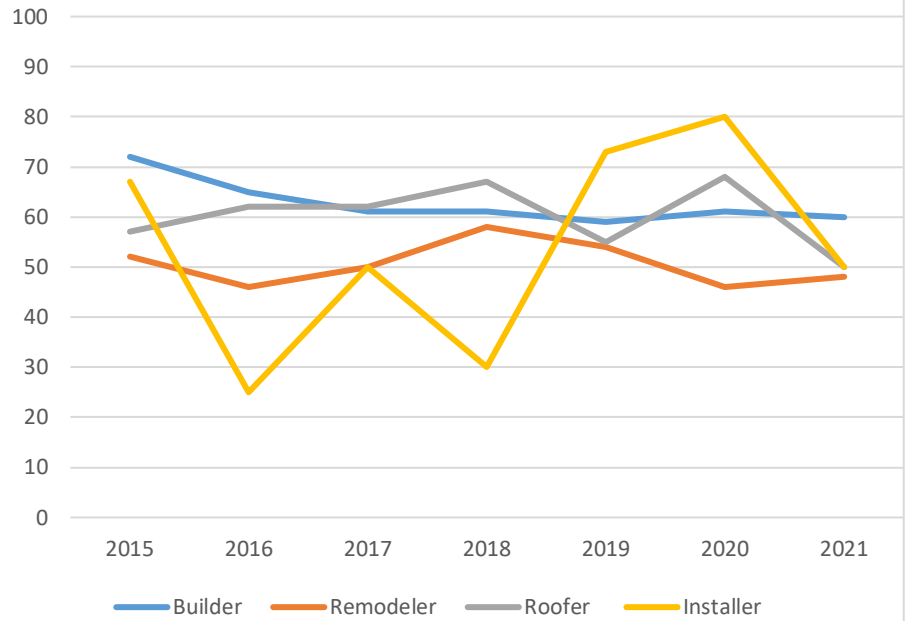
EXAM	2017	2018	2019	2020	2021	5 Year Avg.
Building official	60% (21/35)	72% (33/46)	62% (34/55)	67% (24/36)	71% (36/51)	66% (148/223)
BO limited	56% (51/91)	50% (54/108)	48% (49/103)	40% (24/60)	52% (46/89)	50% (224/451)
Accessibility	71% (5/7)	78% (7/9)	91% (32/35)	100% (4/4)	70% (14/20)	83% (62/75)



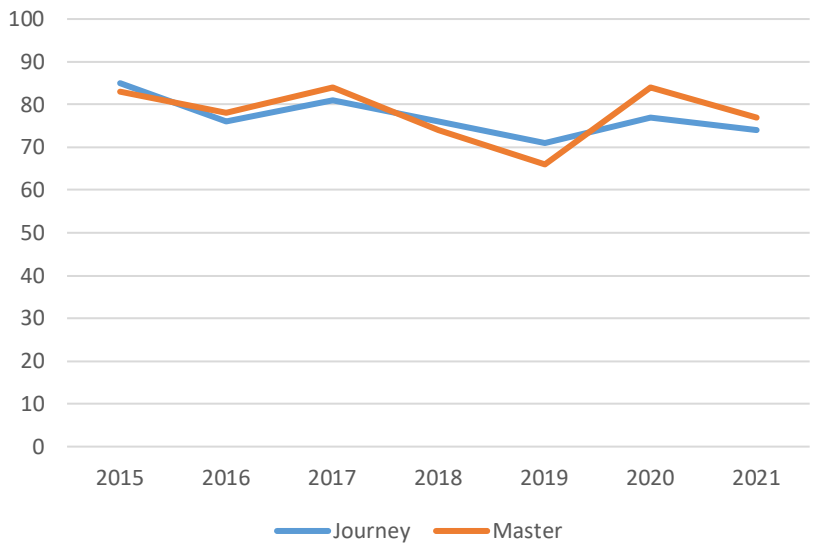
### Electrical Exam Pass Rates



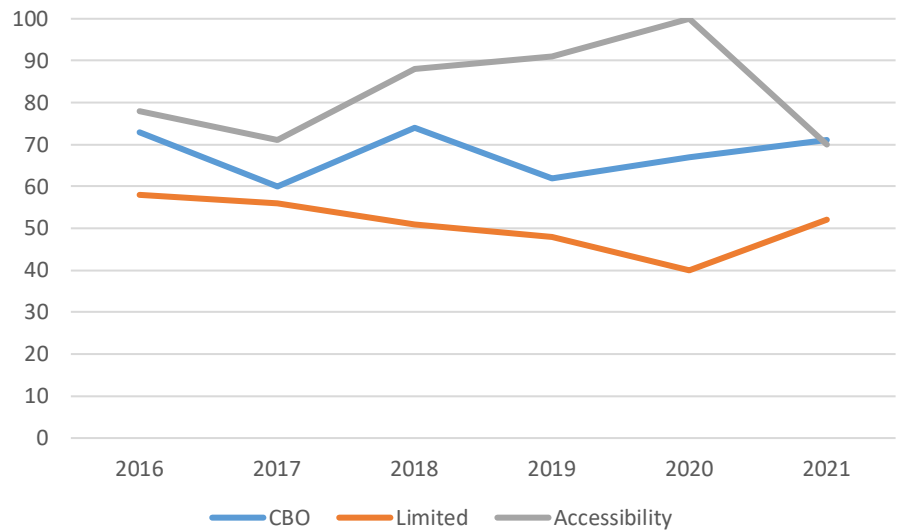
### RBC Exam Pass Rates

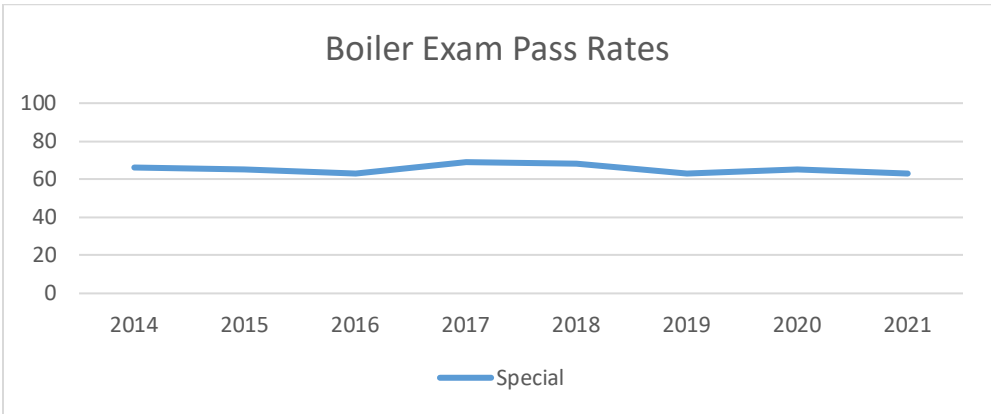
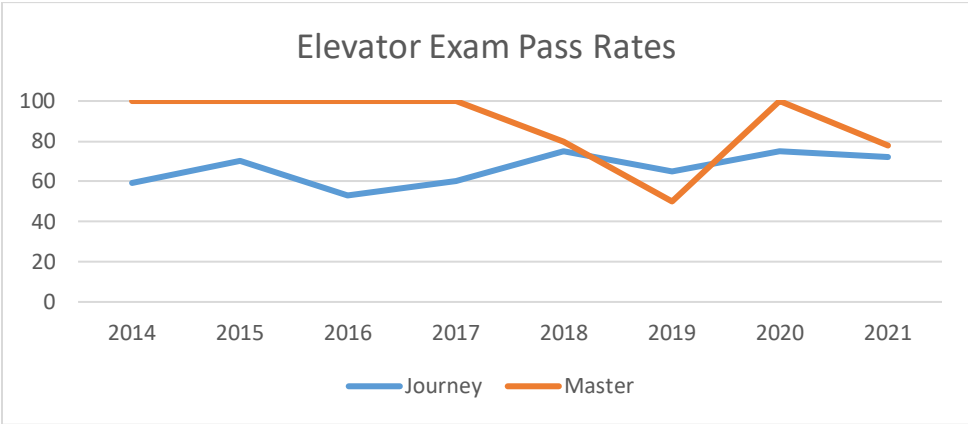
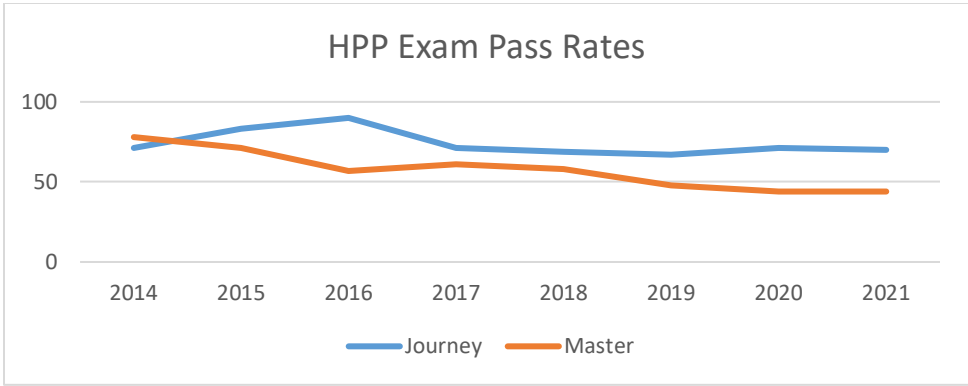


### Plumbing Exam Pass Rates



### Building Official Exam Pass Rates





## Plumbing Board Request for Interpretation

PRINT IN INK or TYPE

NAME OF SUBMITTER <b>Cassie Koch, AIA</b>	Rule(s) to be interpreted (e.g., 4714.0330)
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The Minnesota Plumbing Code (MN Rules, Chapter 4714) is available at [www.dli.mn.gov/CCLD/PlumbingCode.asp](http://www.dli.mn.gov/CCLD/PlumbingCode.asp)  
Has a request for interpretation been submitted to Department of Labor and Industry (DLI) staff, either as a verbal request or a written request?  Yes  No  
If "No," contact DLI staff at 651-284-5898. The DLI is responsible for administration and interpretation of the Minnesota Plumbing Code, and all requests must be processed and provided a DLI interpretation before being referred to the Plumbing Board. This form is intended to be used to request an interpretation from the Plumbing Board only as a resolution of dispute with DLI interpretation.

CODE/RULE to be interpreted: <b>4714.1017.1 &amp; 1017</b>	NAME OF DLI employee gave interpretation: <b>Colleen Erickson</b>	DATE interpretation originally requested: <b>10/4/20</b>
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Provide a copy of the DLI interpretation with this request (a copy must be provided as reference).

Is there a local dispute with an Inspector of other official?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If Yes, state the name or type of official
--	--

State the circumstances of the initial dispute:

Drawings were submitted for permit and denied. Revisions were made to all but the items related to the aforementioned codes.

Explain why you disagree with the interpretation given to you by DLI staff:

Re 4714.1017.1, Tanks can be located outside, below ground, and be vented above ground and comply with this rule. The rule for venting is not intended to force tank placement to be on a building interior.  
Re 1017, One properly sized unit located anywhere prior to discharging from our site is adequate.

What is your interpretation of the language:

Re 4714.1017.1, this applies to underground tanks regardless of their location relative to inside or outside, tanks can be located outside, below ground, and be vented above ground.  
Re 1017, we will provide an interceptor tank prior to discharging water from our site, whether it is at the beginning or the end of our reuse system is not dictated by code. Additionally a single adequate sized unit will be provided and it is not necessary to provide multiple units.

List any other information you would like the Board to consider:

### Information regarding submitting this form:

- Submit any supporting documentation to be considered electronically to [DLI.CCLDBOARDS@state.mn.us](mailto:DLI.CCLDBOARDS@state.mn.us). Once your Request For Interpretation form has been received, it will be assigned a file number. Please reference this file number on any correspondence and supplemental submissions.

### Information for presentation to the Board.

- You will be notified with the date of the Board Meeting in which your Request For Interpretation will be heard.
- Limit presentations to 5 minutes or less.
- Be prepared to answer questions regarding the Code, the circumstances that led to the dispute and please bring copies of any documentation.

### What you can do if you disagree with the Board's determination:

- You may appeal the Board's determination pursuant to Minn. Stat. Chapter 14.



RFI File No.	Date Received by DLI	Dated Received by Board	Date of Board Meeting
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Title of RFI	By:
--------------	-----

This material can be made available in different forms, such as large print, Braille or on a tape. To request, call 1-800-342-5354 (DIAL-DLI) Voice or TDD (651) 297-4198.

**Submitted by:**

NAME		FIRM NAME	
Cassie Koch		Reztark	
ADDRESS		CITY	STATE ZIP CODE
601 Main Street, Ste. 200		Cincinnati, OH	45202
PHONE	SIGNATURE (original or electronic)	DATE	
(513) 233-3333	Cassie Koch	1/12/20	

For assistance or questions on completing this form, please call 651-284-5898 or 651-284-5889.

Mailing address:

**Plumbing Board**  
**c/o Department of Labor and Industry**  
**443 Lafayette Road North**  
**St. Paul, MN 55155-4344**

\*\*\* Please remember to attach all necessary explanations and supporting documentation\*\*\* Page 2 of 2

**Plumbing Board**  
**Department of Labor and Industry**

**WebEx Board Meeting Open Forum Request**

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**Please keep your presentation to 5 minutes or less.**

- Please send this form, and any related materials/presentations to Lyndy Logan at **least 1 day prior to the start of the WebEx meeting.**
- Availability based on length of meeting and number of requestors.

<b>Plumbing Board</b>		Date of Meeting 01/18/2022	Will you be joining meeting by computer or phone? Computer
Name Cassie Koch AIA, Reztark Design Studio	Street/Mailing Address 601 Main Street, Suite 200		Phone Number 513-233-3333
City Cincinnati	State Ohio	Zip 45202	Email Address ckoch@reztark.com
Representing/Company Name Mr. John Lapointe, New Potato Creek Holdings, LLC, 124 E. Thompson Street, Thomaston, Georgia 30286			
Topic: Regarding PB-R2108-0081 (Tidal Wave Auto Spa, Austin) and PB-R2109-0212 (Tidal Wave Auto Spa Willmar) 1. We are appealing the MDL&I interpretation of Section 1017 requiring the flammable waste interceptor be installed within the building. Minnesota Rule 4714.1017.1 requires venting "to the outer air" only. We propose that this requirement applies to underground tanks, regardless of their location inside or outside the building footprint. 2. We are appealing the MDL&I interpretation requiring flammable interceptor on the intake side of the water reuse system. We propose to install the flammable interceptor on the discharge side of the reuse system only. Additionally, we propose to install a single interceptor rather than multiple interceptors.			

- Send this form and related materials to Lyndy at: [lyndy.logan@state.mn.us](mailto:lyndy.logan@state.mn.us)
- For meeting information, including Open Forum Request forms and WebEx instructions, please visit the Plumbing Board's webpage at: <https://www.dli.mn.gov/about-department/boards-and-councils/plumbing-board>



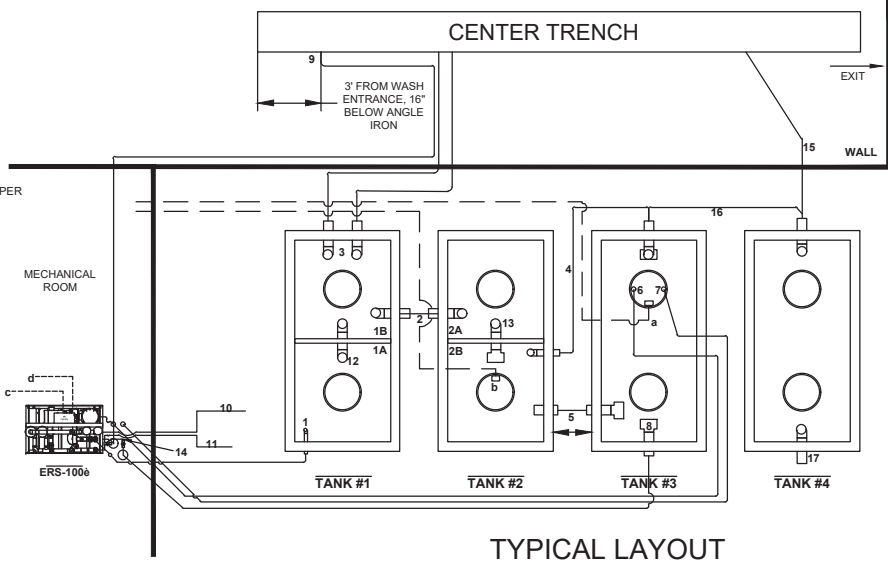


**TANKS**  
**TYPICAL 1,500 GAL. PRECAST CONCRETE**

TANK #1 - 1A UNDERFLOW - 1B PRIMARY SETTLEMENT  
TANK #2 - SECONDARY SETTLEMENT W/ BAFFLE  
TANK #3 - PROCESS TANK  
TANK #4 - FLAMMABLE WASTE INTERCEPTOR SEPARATOR PER MUNICIPAL SPECIFICATIONS

**UNDERGROUND PLUMBING**

- 1 - 2" SCH 80 PVC PIPE - UNDERFLOW DISCHARGE - TO TANK 1A
- 2 - 6" SCH 40 PVC PIPE - EXTERNAL CROSSOVER - FROM TANK 1B TO TANK 2A
- 3 - TWO 6" SCH 40 PVC PIPES - CENTER TRENCH - TO TANK 1B
- 4 - 4" OR 6" SCH 40 PVC PIPE - OVERFLOW FROM TANK 2B TO TANK 3
- 5 - 6" SCH 40 PVC PIPE - EXTERNAL CROSSOVER - FROM TANK 2B TO TANK 3
- 6 - 3" SCH 80 PVC PIPE - FILTER PUMP SUCTION LINE - FROM TANK 3 \*SHOULD HAVE SLIGHT FALL TO RISER. INSTALL 90° AS HIGH AS POSSIBLE ON RISER TO ALLOW FOR EASY MAINTENANCE. NO DEEPER THEN 2' FROM FINISH GRADE\*
- 7 - 3" SCH 80 PVC PIPE - SPARE SUCTION LINE - FROM TANK 3 \*COMPLETE PLUMBING ON SPARE SUCTION LINE. UNION & FOOT VALVE SAME AS PRIMARY (6). SHOULD HAVE SLIGHT FALL TO RISER. INSTALL 90° AS HIGH AS POSSIBLE ON RISER TO ALLOW FOR EASY MAINTENANCE.\*
- 8 - 4" OR 6" SCH 40 PVC PIPE - AQUAPREP DISCHARGE - SPLIT TO TANK 3
- 9 - 4" OR 6" SCH 40 PVC PIPE - AQUAPREP DISCHARGE - SPLIT TO CENTER TRENCH
- 10 - 6" SCH 40 PVC PIPE - INTERNAL CROSSOVER - FROM TANK 1A TO TANK 1B
- 11 - 6" SCH 40 PVC PIPE - INTERNAL CROSSOVER - FROM TANK 2A TO TANK 2B
- 12 - 6" SCH 40 PVC PIPE - TIRE SHINE DRAIN TO TANK 4
- 13 - 6" SCH 40 PVC PIPE - EXTERNAL CROSSOVER FROM TANK 3 TO TANK 4
- 14 - 2" SCH 80 PVC PIPE - AQUAPREP DISCHARGE TEE' D W/ BALL VALVES
- 15 - 6" SCH 40 PVC PIPE - TIRE SHINE DRAIN TO TANK 4
- 16 - 6" SCH 40 PVC PIPE - EXTERNAL CROSSOVER FROM TANK 3 TO TANK 4
- 17 - PIPE TO SANITARY SEWER



**TYPICAL LAYOUT**

- 10 - 2" PIPE - RECLAIM WATER OUTLET - FROM ERS TO CAR WASH EQUIPMENT
- 11 - 2" PIPE - FRESH WATER INLET - FROM CITY WATER SOURCE TO ERS
- 14 - 2" SCH 80 PVC PIPE - AQUAPREP DISCHARGE TEE' D W/ BALL VALVES

**UNDERGROUND ELECTRICAL**

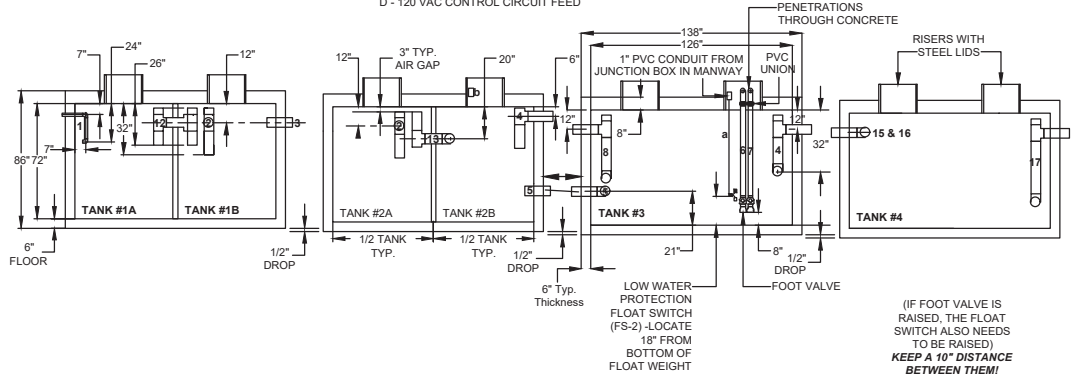
- A - 1" PVC CONDUIT - LOW WATER PROTECTION FLOAT SWITCH (FS-2) - TANK 3 TO MECHANICAL ROOM
- B - 1" PVC CONDUIT - FOR FUTURE USE - TANK 2B TO MECHANICAL ROOM

- NOTES:**
- ACTUAL TANK DIMENSIONS MAY VARY.
  - PLUMBING SHOULD BE PLACED AS SHOWN REGARDLESS OF WHAT TANKS ARE USED.
  - ALL PIPES MUST BE SET BELOW FROST LINE.
  - SUCTION LINES MUST BE SCH 80 PVC.
  - DO NOT INSTALL SCREENS ON FOOT VALVE.
  - CONSULT ENGINEER FOR ELEVATIONS.
  - 1 PIECE TANK IS REQUIRED
  - MATCH TANK ELEVATION AS SHOWN.
  - FLAMMABLE WASTE INTERCEPTOR TO BE VENTED THROUGH TOP OF TANK PER CITY AND STATE REQUIREMENTS.

**ABOVE GROUND ELECTRICAL**

- C - 3 PHASE POWER IN L1-L2-L3
- D - 120 VAC CONTROL CIRCUIT FEED

**SIDE VIEW**



(IF FOOT VALVE IS RAISED, THE FLOAT SWITCH ALSO NEEDS TO BE RAISED)  
**KEEP A 10" DISTANCE BETWEEN THEM!**

NOT TO SCALE

WATER RECLAIM SYSTEM DETAIL



311 South Wacker Drive, Suite 1950  
Chicago, Illinois 60606

Phone: (312) 614-0360  
Fax: (877) 433-0797  
www.bowman.com

**EXHIBIT A**  
**WATER RECLAIM SYSTEM DETAIL**

TIDAL WAVE AUTO SPA  
MINNESOTA

**Plumbing Board**  
**Department of Labor and Industry**

**WebEx Board Meeting Open Forum Request**

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**Please keep your presentation to 5 minutes or less.**

- Please send this form, and any related materials/presentations to Lyndy Logan at **least 1 day prior to the start of the WebEx meeting.**
- Availability based on length of meeting and number of requestors.

<b>Plumbing Board</b>		Date of Meeting 1-18-2022	Will you be joining meeting by computer or phone? Select <input checked="" type="checkbox"/> IN PERSON IF AVAILABLE <input type="checkbox"/> BY COMPUTER
Name NORTHLAND REPS (KEVIN BARTA)	Street/Mailing Address 500 3RD ST SE		Phone Number 651-208-2829
City OSSEO	State MN	Zip 55369	Email Address kevinb@northlandreps.com
Representing/Company Name SIOUX CHIEF MANUFACTURING (NORTHLAND REPS)			
Topic: 609.10 WATER HAMMER			

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# Northland Reps, Inc.

500 3<sup>rd</sup> St. SE, Osseo, MN 55369 Phone: 952-854-3905 Cell: 651-208-2829  
Email: [kevinb@northlandreps.com](mailto:kevinb@northlandreps.com) Website: [northlandreps.com](http://northlandreps.com)

## **20.2 Subp. 3.**

### **Section 609.10.**

**UPC section 609.10 is amended to read as follows:**

**609.10 Water Hammer. Building supply systems where water hammer occurs shall be provided with water hammer arrestors to absorb the resulting high pressures. Water hammer arrestors shall be approved mechanical devices that comply with ASSE 1010 or PDI-WH-201 20.6 and shall be installed as close as possible to quick-acting valves.**

The recent amendment removes the phrase “quick-acting” valves and the phrase “quick closing”. We believe this amendment was made because there was some confusion in the market on what defined “quick-acting” and also “quick closing” which caused some questions in the enforcement of the code language.

**Our strong recommendation is to make the code language MORE SPECIFIC, rather than less specific.** Model code organizations (like IAPMO and ICC) continually improve on their code language, in general, with a concerted effort to make it more and more specific ... constantly removing “nebulous” language. Making the language more specific makes life easier for all involved, the inspector and the plumbing contractor.

*In the case of Water Hammer Control, most state and local code groups across the country have made their enforcement of arresters easier by calling out the SPECIFIC valves and/or fixtures that require water hammer control.*

*At the VERY MINIMUM, almost all jurisdictions call out the typical residential “SOLENOID VALVES” (i.e., Washing Machine, Dishwasher, Humidifiers and Ice Maker). In addition, many jurisdictions call out the Tub/Shower as well. We recommend T/S as well, mainly because water hammer is likely in this application, and it is nearly impossible to retrofit properly placed arresters at the T/S with finished walls and tile.*

*Regardless of what you decide to do with the actual published language, we still recommend you enforce the code in a consistent way, as we have suggested above.*

*These days, proper enforcement and installation of arresters is so easy and affordable. Plumbing contractors in Minnesota and across the country now install washer boxes and ice maker boxes that already come with certified arresters. Also, individual arresters come in all types of easy connection options for all applications.*

*Super easy to enforce. No question of sizing or placement. No controversy. No arguments in the field.*

- *Make it CONSISTENT, everywhere, each job, same-same, all the time. No questions. That’s the UPC model code intent as well.*
- *Actually, CONSISTENCY is what Contractors want. They want to know it’s the same thing they’re bidding on from job to job, city to city. Once that is understood, they’re fine with it.*

*And finally, it’s what the CITIZENS of MN want. The great thing about arresters is, they are ALWAYS working regardless of the pressure and flow situations. They are always active in controlling pressure surges, high or low. Just like shocks on your car. It doesn’t matter whether you’re driving on a fairly smooth road or bumpy road, the shock absorbers are always “in play” to protect the life of your car.*