



AGENDA  
BUILDING BOARD OF APPEALS  
REGULAR MEETING  
GOVERNMENT CENTER CHAMBERS, 4<sup>TH</sup> FLOOR, ROOM #400  
115 E. WASHINGTON STREET, BLOOMINGTON, IL 61701  
DECEMBER 7, 2021 at 1:30 P.M.

1. CALL TO ORDER
2. ROLL CALL
3. PUBLIC COMMENT

*Individuals wishing to provide emailed public comment must email comments to [publiccomment@cityblm.org](mailto:publiccomment@cityblm.org) at least 15 minutes before the start of the meeting. Individuals wishing to speak in-person may register in person at least 5 minutes before the start of the meeting.*

4. MINUTES

- A. Consideration, review and approval of Minutes of the September 1, 2020 meeting of the Bloomington Board of Appeals.

5. REGULAR AGENDA

- A. Update on State approval of City of Bloomington City Code Chapter 34 - Plumbing.
- B. Update on Building Permit Application Procedures and Forms.
- C. Update on Department Staff changes.

6. OLD BUSINESS

7. NEW BUSINESS

8. ADJOURNMENT



**DRAFT MINUTES  
PUBLISHED BY THE AUTHORITY OF THE  
BUILDING BOARD OF APPEALS OF BLOOMINGTON, ILLINOIS  
SPECIAL MEETING**

**Tuesday, September 1, 2020, 5:00 P.M.  
Council Chambers, City Hall  
109 East Olive Street, Bloomington, Illinois  
[WWW.CITYBLM.ORG/LIVE](http://WWW.CITYBLM.ORG/LIVE)**

**1. CALL TO ORDER**

The Meeting was called to order by Chairperson Meek at 5:08 p.m.

**2. ROLL CALL**

The Building Board of Appeals convened the Special Meeting virtually via Zoom conferencing with Bob Mahrt, Chris McAllister and John Meek, Chairperson in-person in City Hall’s Council Chambers. All other board members participated remotely on Tuesday, September 1, 2020. The meeting was live streamed to the public at [www.cityblm.org/live](http://www.cityblm.org/live).

<b>Attendee Name</b>	<b>Title</b>	<b>Status</b>
<b>Mr. John Meek</b>	<b>Chairperson</b>	<b>Present</b>
<b>Mr. Jeffery Brown</b>	<b>Board Member</b>	<b>Absent</b>
<b>Mr. Mark Holderby</b>	<b>Board Member</b>	<b>Absent</b>
<b>Mr. Jerry Kelleher</b>	<b>Board Member</b>	<b>Remote</b>
<b>Mr. Michael Raikes</b>	<b>Board Member</b>	<b>Remote</b>
<b>Mr. Larry Stevig</b>	<b>Board Member</b>	<b>Remote</b>
<b>Mr. John Weber</b>	<b>Board Member</b>	<b>Remote</b>
<b>Vacant</b>	<b>Board Member</b>	
<b>Vacant</b>	<b>Board Member</b>	
<b>Mr. George Boyle</b>	<b>Assistant Corporation Counsel</b>	<b>Remote</b>
<b>Mr. Chris McAllister</b>	<b>Building Official</b>	<b>Present</b>
<b>Ms. Katie Simpson</b>	<b>City Planner</b>	<b>Remote</b>
<b>Mr. Bob Mahrt</b>	<b>Community Development Director</b>	<b>Present</b>

**COVID-19**

This meeting was being held virtually via live stream pursuant to the gubernatorial executive order 2020-07, Section 6. Public comment was accepted until 15 minutes before the start of the meeting. Written public comment must have been emailed to [publiccomment@cityblm.org](mailto:publiccomment@cityblm.org) and those wishing to speak live must have registered at <https://www.cityblm.org/register> at least 15 minutes prior to the meeting.

**3. PUBLIC COMMENT**

Chairperson Meek asked for public comment from the audience for those items that were not listed on the Special Meeting Agenda. There were no public comments made.

#### 4. MINUTES

##### **A. Consideration, review and approval of Minutes of the February 4, 2020 meeting of the Bloomington Building Board of Appeals.**

Michael Raikes made a motion for approval. Motion was seconded by Jerry Kelleher. The motion was approved by a 4-0-1 vote as follows: Chairperson Meek – YES; Mr. Kelleher – YES; Mr. Raikes – YES; Mr. Stevig – ABSTAIN; Mr. Weber – YES.

#### 5. REGULAR AGENDA

##### **A. BBA-1-20 Public Hearing, review and action on proposed amendments to Chapter 10 – Building Code, Chapter 15 – Electrical Code, and Chapter 34 – Plumbing Code of the Bloomington City Code related to adoption of the 2018 International Building Code (IBC), 2018 International Residential Code (IRC), 2018 International Existing Building Code (IEBC), 2018 International Fire Code (IFC), 2018 International Fuel Gas Code (IFGC), 2018 International Mechanical Code (IMC), 2018 International (Illinois) Energy Conservation Code (IECC), 2018 International Swimming Pool and Spa Code (ISPSC), the Illinois State Accessibility Code (IAC), the 2014 Illinois Plumbing Code, the 2020 National Electric Code (NEC) and other related codes.**

Chairperson Meek opened the public hearing.

Director Mahrt provided a general overview of the process to date for the amendments to Chapter 10 – Building Code, Chapter 15 – Electrical Code, and Chapter 34 – Plumbing Code of the Bloomington City Code related to adoption of the 2018 International Code Council (ICC) family of codes and the 2020 National Electric Code (NEC) Building Code. He further reviewed the Staff Memorandum to the Board outlining the established amendments to the City Code and the model building codes as shown on Exhibit “A” and the recommended amendments to the City Code as shown on Exhibit “B”.

Director Mahrt illustrated the recommended amendments to the City Code as shown on Exhibit “B”. He referenced adoption of the 2018 IBC, 2018 IRC, 2018 ISPSC, 2018 IFC, 2018 IEBC, 2018 IECC under Chapter 10, Article II. In addition, he specifically referenced the recommended adoption of the 2018 ISPSC and deletion of Appendix G Swimming Pools, Spas, and Hot Tubs provisions in the IRC. He also discussed expanding the work credentials for electrical construction representatives on the Building Board of Appeals.

Minor administrative and re-numbering of sections referenced in Chapter 10, Articles IV – X were reviewed illustrating the additions/modifications/amendments of the model building codes and the City Code. Director Mahrt discussed the recommendation for inclusion of the new Appendix “Q” Tiny Houses within the 2018 IRC. In addition, he specifically referenced the alternatives for the Building Board of Appeals to consider in regard to adoption of the 2018 IFC and the new Section 1103.5.1 Group A-2 Occupancies. This section would require the retrofit installation of a fire sprinkler system in existing Group A-2 occupancies where alcoholic beverages are consumed if the

occupant load is 300 or more. Alternatives included adoption, amortization or deletion of Section 1103.5.1.

Director Mahrt reviewed the recommendations for Chapter 15 Electricity including adoption of the 2020 National Electric Code, changing the name of this Chapter to Electrical Code, and modifications to the references to the Electrical Inspector position. He specifically reviewed the new model code updates for Surge Protection, Ground-fault Circuit-Interrupter Protection, and Emergency Disconnections.

Director Mahrt reviewed the recommendations for Chapter 34 Plumbing Code including maintaining consistency in referencing the Illinois State Plumbing Code throughout the Chapter, modifying “local” material standards to match the state code, and modifications to the references to the Plumbing Inspector position.

There was clarification discussion on adoption of the 2018 International Energy Conservation Code (IECC) versus specifically referencing and adopting the Illinois Energy Conservation Code. The Illinois Energy Conservation Code does require compliance with the latest published edition of the International Energy Conservation Code and as a matter of practice the City has only adopted the International Code to comply with the Energy Efficient Building Act.

George Boyle brought to the Board’s attention outdated references in the “Violation Penalties” by requesting potential modification of the established text regarding criminal penalties for violations. Mr. Boyle had suggested deletion of the term “misdemeanor” and replacing this term with “offense”. In addition, these sections should include a provision for a minimum fine of \$50 and not more than \$500. Jerry Kelleher had questioned authority of penalties greater or less than the State mandated codes.

Chairperson Meek called for public testimony.

Ed Neaves was sworn in by the Chairperson. Mr. Neaves stated that he serves as the current President of the Illinois Realtors Association, the past president of the Bloomington Normal Home Builders Association and the past president of the Bloomington Normal Association of Realtors. He supported the recommendation to continue the status quo standard for the “Mandatory Offer Requirement” for optional installation of automatic sprinkler systems in one and two family dwellings for the adoption of the 2018 IRC.

There was further discussion on the current process for administration of the “Mandatory Offer Requirement” prior to building permit issuance for one and two family dwellings.

Paul Scharnett was sworn in by the Chairperson. Mr. Scharnett stated he serves as the Vice-Chair of the Bloomington Historic Preservation Commission and is a local architect. He summarized correspondence provided to City Staff on September 1, 2020. He raised his concerns on the need for a “demolition through neglect” Ordinance, maintaining the status quo for residential sprinkler systems, and interpretation of the 2018 International Energy Conservation Code related to potential impacts on historic buildings.

There was additional discussion on administration of the 2018 International Energy Conservation Code.

There being no further public testimony, Chairperson Meek closed the public hearing at 6:23 p.m.

Director Mahrt summarized the key points of further discussion by the Board including Section 1103.5.1 Group A-2 of the 2018 IFC.

Chairperson Meek requested the number of business that may be affected by the new regulation and whether notice had been provided to the specific businesses. Director Mahrt indicated that approximately 13 entertainment oriented businesses would meet that threshold and that notices were not sent out pending a review by the Board.

Larry Stevig requested information on the basis for this new section in the 2018 IFC and the estimated cost for installation. Director Mahrt responded that the ICC identified the potential loss of life as the primary basis for this new section. There was continued discussion on the cost for installation to be in the range of \$5-\$7 per square foot of floor area.

There was continued discussion on cost impacts on the entertainment oriented businesses, the prior efforts through building permit issuance to meet the intent of these fire safety regulations, and Fire Department response times. Alternative recommendations included full adoption, amortization or deletion of Section 1103.5.1.

Chairperson Meek requested outreach to notify these entertainment oriented businesses. Director Mahrt indicated that notice could be provided prior to City Council discussion.

There was additional discussion on the alternative recommendations and concerns over financial hardship versus the potential loss of life in the event of a fire. Further discussion related to departing from the minimum code standard, the lack of understanding of the current facilities in the community, and consideration for the implementation of Section 1103.5.1 under any future International Fire Code adoptions.

John Weber made a motion recommending to modify Exhibit "B" of the Staff Memorandum by deleting Section 1103.5.1 Group A-2 of the 2018 International Fire Code in its entirety. Motion was seconded by Michael Raikes. The motion was approved by a 4-1 vote as follows: Chairperson Meek – YES; Mr. Kelleher – YES; Mr. Raikes – YES; Mr. Stevig – NO; Mr. Weber – YES.

Larry Stevig made an motion recommending approval of BBA-1-20 to adopt amendments to Chapter 10 – Building Code, Chapter 15 – Electrical Code, and Chapter 34 – Plumbing Code of the Bloomington City Code related to adoption of the 2018 International Code Council (ICC) family of codes and the 2020 National Electric Code (NEC) Building Code as outlined in the revised Exhibit "B" of the Staff Memorandum. Motion was seconded by John Weber.

After further discussion, there was interest in amending the motion in regard to "Violation Penalties".

Larry Stevig made an amended motion recommending approval of BBA-1-20 to adopt amendments to Chapter 10 – Building Code, Chapter 15 – Electrical Code, and Chapter 34 – Plumbing Code of the Bloomington City Code related to adoption of the 2018 International Code Council (ICC) family of codes and the 2020 National Electric Code (NEC) Building Code as outlined in the revised Exhibit "B" of the Staff Memorandum and with supplemental modifications related to "Violation Penalties".

Motion was seconded by John Weber. The motion was approved by a 5-0 vote as follows:  
Chairperson Meek – YES; Mr. Kelleher – YES; Mr. Raikes – YES; Mr. Stevig – YES; Mr. Weber – YES.

**6. OLD BUSINESS**

Chairperson Meek called for discussion of any Old Business. There was none.

**7. NEW BUSINESS**

Chairperson Meek called for discussion of any Old Business. There was none.

**8. ADJOURNMENT**

Mr. Kelleher made a motion to adjourn; seconded by Mr. Raikes. The motion passed unanimously by roll call vote. Meeting was adjourned at 6:59 p.m.

**CITY OF BLOOMINGTON**

**ATTEST**

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John Meek  
Chairperson

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Melissa Hon  
Economic & Community Development Director



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TO: Building Board of Appeals  
FROM: Chris McAllister, Building Official  
DATE: December 2, 2021  
RE: **Update on State approval of City of Bloomington City Code Chapter 34 - Plumbing**

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At the Building Board of Appeals meeting on September 1, 2020, the Board approved changes to the plumbing code. These changes were forwarded to the State for review prior to sending to the City Council for final adoption. The State returned comments with requested edits, mostly minor in nature. Once Staff and the State finalize edits they will be forwarded to the City Council for final approval, likely by this Spring.

The current draft is attached.

## Article I : General

### Section 1 : Adoption of Illinois State Plumbing Code.

There is hereby adopted by the City for the purpose of establishing rules and regulations for materials, construction, alteration, and inspection of all plumbing placed in or in connection with any building that certain Plumbing Code known as the Illinois State Plumbing Code Title 77 Ill. Adm. Code Part 890, being particularly the current edition thereof, and the whole thereof, of which not less than one (1) copy has been and now is filed in the Office of the City Clerk; and the same are hereby adopted and incorporated as fully as if set out at length in this Chapter, the provisions of which shall be controlling within the corporate limits of the City and within the area of Lake Bloomington and other areas under the jurisdiction of the City. (Ordinance No. 2013-03)

(a) Illinois State Plumbing Code - Administrative Authority. Wherever the words "administrative authority" are used in the Illinois State Plumbing Code, adopted in the preceding section, it shall be held to mean the Director of Economic and Community Development of the City of Bloomington or ~~his~~ their representative. (Ordinance No. 2017-96)

(b) The Current Edition of the State of Illinois Department of Public Health Food Service Sanitation Code Section 750.5, Water and Sewage Part 895, Public Area Sanitary Practice Code Section 895.50 Restrooms. (Ordinance No. 2013-03)

### Section 2 : Definitions

The following definitions shall apply in the interpretation and enforcement of this Chapter:

(a) "Approved backflow prevention devices or methods" means approved by the Research Foundation for Cross-Connection Control of the University of Southern California, Association of State Sanitary Engineers, American Water Works Association, American National Standards Institute or certified by the National Sanitation Foundation.

(b) ~~"Backflow" means the flow of water or other liquids, mixtures or substances into the distribution pipes of a potable water system from any source other than the intended source of the potable water supply~~ means the reversal of flow from that normally intended. Hydraulic conditions that cause backflow include back siphonage, back pressure, and aspiration.

(c) "Backflow prevention device" means any device, method or type of construction intended to prevent backflow into a potable water system. All devices used for backflow prevention in Illinois must meet the standards of the Illinois State Plumbing Code and the Illinois Environmental Protection Agency.

(d) "Contamination" means an impairment of the quality of the water by entrance of any substance to a degree which could create a health hazard.

(e) ~~"Cross-connection" means any physical connection or arrangement between two otherwise separate piping systems, one of which contains potable water and the other a substance of~~



~~unknown or questionable safety or quality, whereby there may be a flow from one system into the other~~ any actual or potential connection or arrangement between two otherwise separate piping systems, one containing potable water and the other containing fluids or gases of any kind that do not meet potable water quality standards, in which the non-potable in one system may flow into the potable water system or enter it through a means such as back pressure, back siphonage, or aspiration.

(f) "Direct cross-connection" means a cross-connection formed when a water system is physically joined to a source of unknown or unsafe substance.

"Indirect cross-connection" means a cross-connection through which an unknown substance can be forced, drawn by vacuum or otherwise introduced into a safe potable water system.

(g) "Curb shutoff valve" means the valve normally located between the curb and property line used to control the water service for a customer. Also known as a curb stop or curb box.

(h) "Customer" means the owner and/or person in possession or control of any premises supplied by or in any manner connected to a public water system.

(i) "Customer's water system" means any water system located on the customer's premises. A building plumbing system is considered to be a customer's water system as is the water service line from the tap at the water main to the plumbing within the building.

(j) ~~"Double check valve assembly" means an assembly composed of single, independently acting check valves approved under ASSE Standard 1015. A double check valve assembly must include tight shutoff valves located at each end of the assembly and suitable connections for testing the water tightness of each check valve.~~ "Double Check Valve Backflow Preventer Assembly" or "DCV" means a plumbing appurtenance consisting of two internally force loaded, independently acting check valves that operate in the normally closed position; two tight-closing resilient seated shut-off valves; and four test cocks.

(k) "Fixed proper air gap" means the unobstructed vertical distance through the free atmosphere between the water discharge point and the flood level rim of the receptacle.

(l) "Health hazard" means any condition, device or practice in a water system or its operation resulting from a real or potential danger to the health and well-being of ~~customers~~ individuals. The word "severe" as used to qualify "health hazard" means a hazard to the health of the user that could be expected to result in death or significant reduction in the quality of life.

(m) "Inspection" means a plumbing inspection to examine carefully and critically all materials, fixtures, piping and appurtenances, appliances and installations of a plumbing system for compliance with requirements of the Illinois State Plumbing Code, 77 Ill. Adm. Code 890.

(n) "Plumbing" means the actual installation, repair, maintenance, alteration or extension of a plumbing system by any person. Plumbing includes all piping, fixtures, appurtenances and appliances for a supply of water for all purposes, including without limitation lawn sprinkler systems, from the source of a private water supply on the premises or from the watermain in the

street, alley or at the curb to, within and about any building or buildings where a person or persons live, work or assemble. Plumbing includes all piping, from discharge of pumping units to and including pressure tanks in water supply systems. Plumbing includes all piping, fixtures, appurtenances, and appliances for a building drain and a sanitary drainage and related ventilation system of any building or buildings where a person or persons live, work or assemble from the point of connection of such building drain to the building sewer or private sewage disposal system five feet beyond the foundation walls.

(o) ~~"Reduced pressure principal backflow prevention device" means a device containing a minimum of two independently acting check valves together with an automatically operated pressure differential relief valve located between the two check valves and approved under ASSE Standard 1013. During normal flow and at the cessation of normal flow, the pressure between these two checks shall be less than the supply pressure. In case of leakage of either check valve, the differential relief valve, by discharging to the atmosphere, shall operate to maintain the pressure between the check valves at less than the supply pressure. The unit must include tightly closing shutoff valves located at each end of the device, and each device shall be fitted with properly located test cocks.~~ "Reduced Pressure Principle Backflow Prevention Assembly" or "RPZ" means a plumbing appurtenance consisting of two internally force loaded, independently acting check valves, designed to operate in the normally closed position, separated by an intermediate zone that includes an internally force loaded, hydraulically operated relief for venting to atmosphere, designed to operate normally in the open position, two tight closing resilient shut-off valves, and four test cocks.

(p) "Survey" means the collection of information pertaining to a customer's piping system regarding the location of all connections to the public water supply system and must include the location, type and most recent inspection and testing date of all cross-connection control devices and methods located within that customer's piping system. The survey must be in written form and should not be an actual plumbing inspection.

(q) ~~"System hazard" means a condition through which an esthetically objectionable or degrading material not dangerous to health may enter the public water supply system or a customer's potable water system.~~

(r) (q) "Water purveyor" means the owner or official custodian of a public water system. (Ordinance No. 2005-73)

## Article II : Contractor Registration - Bond - Revocation

### Section 5 : Contractor Administration Required- Insurance.

Every plumbing contractor engaging in the business of plumbing in the City shall cause his their name, residence and place of business to be recorded with the City Clerk of the City. The City

Clerk shall keep a record of such business. Said annual business shall be issued only upon submission of a copy of the applicant's current Illinois State Plumbing Contractor registration and approval by the Plumbing Inspector. Contractors shall obtain the business license on or before January 1 of each year. Should a contractor not obtain the business license by February 1, no permit will be issued until said documentation has been submitted. (Ordinance No. 2018-89)

### **Section 7 : Business License Revocation.**

A business license issued under this Article can be suspended or revoked by the Building Board of Appeals, the cause for such action shall be one of the following:

- (1) the refusal of any contractor to correct work he has installed improperly when directed to do so by the Plumbing Inspector;
- (2) repeated failure to perform work properly;
- (3) failure to have a licensed plumber in his employ at all times as required by the Illinois State Plumbing Code and License Law (225 ILCS 320);
- (4) repeated violation of doing work prior to obtaining the required permit. (Ordinance No. 2013-68)

Written notice shall be provided by the City of Bloomington to either [dph.plumbing@illinois.gov](mailto:dph.plumbing@illinois.gov), or via U.S. Mail within 14 days of any suspension or revocation of business registration for Plumbing Contractors.

## **Article III : Permits - Required**

### **Section 8 : Permit.**

No plumbing shall be installed, altered, or changed in any building structure or manufactured/mobile home within the City nor within the area of Lake Bloomington and other areas under the jurisdiction of the City, except in an emergency, without first having secured a permit for the same from the Plumbing Inspector. Such permit shall be issued to the registered plumbing contractor in charge of such work, provided that a permit may be issued to an owner-occupant of a single-family residence to do any work regulated by the Illinois State Plumbing Code adopted by the City with respect to such residences. Such permit shall be issued only after proof of residency has been submitted. (Ordinance No. 2005-73)

Emergency work may be allowed only when warranted. It shall be reported at the earliest possible time to the Plumbing Inspector and the required permit obtained thereafter. (Ordinance No. 1986-68)

### **Section 9 : Permit in Connection with Storm Drainage System.**

No plumbing connected with the storm drainage system of the City shall be made, except as may be allowed in Section 8, without an excavation permit and approval of the Director of Public Works and a permit secured from the Plumbing Inspector therefor.

All interior storm piping must be installed by a licensed registered plumber. Materials must meet state and local Plumbing Codes. (Ordinance No. 2018-93)

#### **Section 10 : Permit in Connection with Public Sewer and Water System.**

No plumbing involving a connection with the public sewer or water system of the City shall be done, except in an emergency as may be allowed under the provisions of Section 8, without first securing an excavation permit and approval of the Director of Public Works and a plumbing permit from the Plumbing Inspector therefor. (Ordinance No. 2018-93)

#### **Section 11 : Permit Application.**

Application for a permit to install, alter or change plumbing work shall be made to and on forms prescribed by the Plumbing Inspector. The application shall be accompanied by the fees required by this Article. When such work involves a connection with a public sewer or water system, approval shall be obtained from the Director of Public Works and a plumbing permit shall be issued therefor. (Ordinance No. 2018-93)

#### **Section 11.1 : Inspection Notification and Test.**

The Plumbing Inspector must be notified by the plumber doing work when said work is begun and when any work is ready for inspection. All work must be left uncovered and convenient for examination until inspected and approved. No notice shall be sent for an inspection until the work is entirely ready for thorough inspection. No work shall be covered or approved without correction of violations, if any. The Plumbing Inspector shall examine the work within two (2) working days after notice that it is ready for inspection has been received. Underground plumbing shall be properly secured to prevent floating prior to inspection and all fittings shall be left exposed for inspection.

Where there is reason to believe that the plumbing system fails to comply with this part, the Plumbing Inspector may require a test. All plumbing must be tested by water or air test. All defective joints shall be made tight and defective piping replaced. Acceptable water test equivalent shall be accepted by the Plumbing Inspector at ~~his~~their discretion. All drain waste, and vent piping in a multi-story commercial or multi-story residential building may be tested by water or air and be witnessed by the Plumbing Inspector. (Ordinance No. 2005-73)

#### **Section 12 : Plans and Specifications.**

Before issuing any permit hereunder, the said Plumbing Inspector may require such detailed plans, specifications, and drawings as are necessary and complete to describe the work and the requirements thereof and the materials and manner of installing, altering or repairing. ~~He~~ They shall issue such permit when such plans, etc. show that the said plumbing will be in compliance with the Illinois State Plumbing Code and this Chapter.

### **Section 13 : Plans and Specifications Not to be Changed After Issuance of Permits; Exceptions.**

After the permit has been issued by the Plumbing Inspector, no change or modification in the plans or specifications shall be made unless such change shall have first been submitted to the Plumbing Inspector and approved by ~~him~~ them. (Ordinance No. 2005-73)

### **Section 15 : Expiration of Permit.**

If the plumbing work is not commenced within six (6) months after the issue of said permit, and if the work is not thereafter satisfactorily performed, such permit will be considered as having expired. The provisions of Chapter 10 (Building Code) regarding expiration/revocation of building permits shall apply to plumbing permits. (Ordinance No. 2005-73)

### **Section 17 : Water Meters and Water Service.**

(a) Water Meter. A water meter will be issued only after purchase of a utility permit from the Public Works Department and a plumbing permit from the Building Safety Department. (Ordinance No. 2018-93)

(b) When a water meter is issued for a location it becomes a part of that property whether residential or commercial. In the event that property is demolished or otherwise disposed of, the water meter shall become the property of the City. Provisions for remote reading shall be made whenever water meters are installed. All water meters shall have a full port valve installed on each side of the meter. (Ordinance No. 2000-88)

(c) No person, firm or corporation, except licensed plumbers, shall make any connections to or attachments with the pipes of the water system of the City, nor make any repairs, additions to or alterations of any tap, pipe, cock or other fixture connected with said water department pipes on the outside or street side of the water meter; provided that the foregoing shall not apply to authorized employees of the City. (Ordinance No. 2005-73)

(d) No tap greater than 3/4" shall be made in any water main having less than six inch (6") waterway. A one inch (1") tap may be made in a eight inch (8") waterway.

Multiple taps shall be made at least eighteen inches (18") apart and shall not be in the same line along the length of the main. Under no circumstances will more than two (2) 3/4" taps

be made to serve any one water service without prior approval of the Water Department. (Ordinance No. 2005-73)

(e) No service pipe between City water mains and the building shall be laid less than four feet (4') below the surface of the street grade or lawn. The material used for such pipe shall in each and every case be subject to the inspection of the Plumbing Inspector and if found defective or below the standard, its use will not be permitted. All service shall be laid straight from the curb stop-cock to the building and shall be firmly bedded on solid earth. White rock, concrete or lime base material is prohibited in direct contact with buried water lines. Water service shall not be backfilled until the Plumbing Inspector has inspected the service. Water and sewer service shall not be run in the same trench, except by special permission of the Plumbing Inspector and following provisions in the Illinois State Plumbing Code. (Ordinance No. 2005-73)

(f) All piping from the City water mains to the curb stop valve shall meet standards set forth in the "Approved Materials Listing" of the Illinois State Plumbing Code. All joints in water services are to be mechanical/compression, threaded, slip seal or lead free solder. When water services larger than two inch (2") are installed through the side wall of a building, such water services shall be restrained with field lock or similar restraining type devices or locking gaskets. (Ordinance No. 2008-49)

(g) Water services from the curb box (curb shutoff valve) to the building shall meet standards set forth in the "Approved Materials Listing" of the Illinois State Plumbing Code. Polyethylene (PE) pipe shall be installed only with compression fittings with insert and clamp type fittings. All clamps shall be of corrosion resistant material. ~~The inside diameter (ID) of any insert fitting shall not be less than the minimum allowable size for water service as required by the Illinois State Plumbing Code.~~ PE tubing water service shall be one continuous pipe from the curb stop or pig tail to building water meter. PE water service shall have a solid 12 gauge sheathed coated, suitable for direct burial tracer wire connected to the coupling or curb stop unbroken and accessible at the water meter. (Ordinance No. 2013-03)

(h) Water service for domestic and combination services shall be installed and tested from the main to the interior of the building by same plumbing contractor. (Ordinance No. 2013-03)

(i) New construction requiring potable water and fire protection water service shall be combination service. Location of shut off valves shall be approved by the Plumbing Inspector or Director of Water. (Ordinance No. 2013-03)

### **Section 18 : Water Usage Fees During Construction.**

See Chapter 27 of the Bloomington City Code. (Ordinance No. 1986-68)

## **Article IV : General Rules and Regulations**

### **Section 19 : Septic Tanks.**

For every structure intended for human habitation where no public sewer is accessible, an inside water closet draining into a septic tank shall be installed according to the McLean County Health Department specifications and/or the ~~International Private Sewage Disposal Code~~ Illinois Private Sewage Disposal Code (77 IAC 905). Any septic tank no longer used shall be pumped out, have bottom punctured, and be filled with sand or pea gravel. (Ordinance No. 2005-73)

### **Section 20 : Sewer Connections.**

No person shall construct or cause to be constructed or make any drain or sewer leading into any of the common sewers of the City of Bloomington without the written permission of the City Engineer.

New Sewer - replacement sanitary sewer, sewer liner, sewer pipe bursting replacement or connection to an existing sewer shall only be approved when sewer connects directly from owner's property to City of Bloomington sanitary sewer main. Approval of other installations shall only be allowed by written permission from Public Works Department. (Ordinance No. 2013-03)

### **Section 22 : Health and Safety.**

All plumbing fixtures and other apparatus and pipes from or through which any sewage is discharged into any sewer shall be subject to inspection by the Plumbing Inspector at any time at reasonable hours and if upon such inspection it shall appear that any part of said plumbing system is defective or fails to conform to the requirements of the Code of the City and by reason of such failure tends to create a nuisance, the same shall be replaced as the nature of the condition may require. Such repairs shall be completed after notice has been given to the owner or occupant by the Plumbing Inspector. (Ordinance No. 2005-73)

### **Section 23 : Remodeling, Reconstruction, and Repairs.**

Where a fixture or fixtures are to be removed, all vent, soil, and waste pipes serving such fixture or fixtures should be removed, if feasible, so as to avoid any dead ends and the opening left thereby shall be securely closed. Where an old or defective fixture is removed to be replaced by another fixture of the same type, or the same fixture is repaired, and no other fixture or piping is to be added or remodeled, it will not be necessary to reconstruct the soil, waste or vent piping to conform to the Code of the City, unless the said piping is in a defective condition. Plumbing equipment installed in or removed from a building, if found to conform to the requirements of this Chapter, may be reused. Removal of any plumbing fixtures and/or plumbing system shall be done by a licensed plumbing contractor or owner occupant of a single family residence. (Ordinance No. 2008-49)



## **Section 24 : Interior Piping - Potable Water.**

(a) Distribution piping in all buildings shall meet standards set forth in the Illinois State Plumbing Code (Ordinance No. 2013-03)

Exception 1: Distribution piping in buildings shall meet the fitting and standard requirements as list in the Illinois State Plumbing Code. (Ordinance No. 2013-03)

Exception 2: For interior HUD manufactured single-family homes, Appendix A, Table 6, Section 890 of the Illinois State Plumbing Code shall apply. (Ordinance No. 2008-49)

(b) Piping from the meter to the water heater is to be size 3/4" or larger. Point of use water heaters for individual fixtures shall be sized by the minimum inlet of the water heating unit. (Ordinance No. 2005-73)

(c) The water heater in a building that supplies more than one family shall have a shut off valve on both hot and cold water pipes connecting the water heater. (Ordinance No. 2005-73)

(d) Domestic Hot Water Supply and Distribution, New or replacement water heater installation. Domestic hot water heating units shall be designed and sized for the number of plumbing fixtures being served. A water heater manufactures sizing table shall be used in calculating hot water demand for each residential, commercial or multi-unit building. (Ordinance No. 2013-03)

(3) Chemical dispensing, softening, purification units shall have a dedicated water supply and shut off valves to each unit. (Ordinance No. 2013-03)

### **Section 24.1 : Lawn Sprinklers / Irrigation Systems.**

(a) Lawn sprinkler and irrigation systems connected to the City water system shall comply with the City Plumbing Code. Materials used underground shall be type "K" copper lead free solder joints or minimum of 160# Test PVC with stainless steel hose clamps, cross linked polyethylene or solvent weld type connections or equal. (Ordinance No. 2013-03)

(b) All landscape irrigation systems installed after the effective date of this Ordinance shall be equipped with either a rain sensing or soil moisture sensing device which overrides the irrigation cycle of the sprinkler system when it rains and/or when the soil has adequate moisture. (Ordinance No. 2005-73)

(c) No lawn sprinkler or landscape irrigation system shall be caused or allowed to operate during rain or in such manner so as to produce water run-off, over-spraying, low head drainage or any other condition which results in water flowing onto property not served by the lawn sprinkler or landscape irrigation system. (Ordinance No. 2005-73)

(d) Lawn sprinkler contractors shall pay an application fee as set forth in the Schedule of Fees for each system installed. Registered plumbing contractors (i.e., installation by plumbers and



apprentice only) and homeowners shall be exempt from the application fee. (Ordinance No. 2018-89)

(e) No lawn sprinkler system will be installed without approved plans, securing a permit and prior approval of the Plumbing Inspector. (Ordinance No. 2005-73)

(f) All back-flow devices and assemblies must be certified by a licensed CCCDI Inspector and a copy of the certification with the appropriate fees shall be sent to the Plumbing Inspector. (Ordinance No. 2005-73)

(g) Lawn irrigation systems from any water source shall have a permit issued. (Ordinance No. 2005-73)

(h) Interior piping for lawn irrigation systems shall meet standards set forth in the Illinois State Plumbing Code to the exterior of building. (Ordinance No. 2013-03)

#### **Section 25 : Water Conservation Requirements.**

All plumbing and all plumbing fixtures installed as of the effective date of this Ordinance shall meet or exceed the following water conservation requirements:

(a) All lavatory faucets in public rest rooms shall meet the requirements of the Illinois State Plumbing Code. (Ordinance No. 1998-52)

(b) All water used for cooling equipment and machinery shall be re-circulated (exception: Medical equipment). (Ordinance No. 2008-49)

(c) All automatic or manual in conjunction with automatic car washes must be designed and built to recycle 20% to 50% of the wash and rinse water. (Ordinance No. 2008-49)

(d) All flush valves shall conform to the Illinois State Plumbing Code for water usage. (Ordinance No. 2000-88)

(e) All other fixtures, applications or systems not specifically described above shall have their maximum water usage determined by the City of Bloomington Plumbing Inspector on a case by case basis. No person shall install or cause the installation of any fixture, application or system stated above which exceeds the maximum water usage as determined by the City of Bloomington Plumbing Inspector. (Ordinance No. 1993-76)

(f) Installation of water-cooled ice machines are prohibited. (Ordinance No. 1998-52)

#### **Section 26 : Explosive or Flammable Substance in Sewers.**

No explosive or flammable substance shall be discharged into any sewer. (Ordinance No. 2005-73)

### **Section 31 : Prohibited Joints and Connections.**

The drilling and tapping of house drains, soil, waste, waterlines or vent pipes, and the use of saddle hubs, bands and sleeves is prohibited. All joints and connections shall meet the requirements of the Illinois State Plumbing Code. (Ordinance No. 2008-49)

### **Section 33 : Fixtures Prohibited.**

Fixtures not listed in the Illinois State Plumbing Code as approved by a listed testing agency shall be approved by Plumbing Inspector prior to installation submitted to the IDPH Plumbing and Water Quality Program for approval. (Ordinance No. 2005-73)

### **Section 34 : Prohibited Openings.**

No un-trapped opening into a soil waste, or vent pipe will be permitted. (Ordinance No. 2000-88)

### **Section 35 : Unions.**

No union in DWV piping may be concealed in partitions or floors except in emergency repairs. (Ordinance No. 2013-03)

### **Section 39 : Use of Plumbing Prohibited.**

No part of any new or reconstructed plumbing system shall be used for which approval has not been granted by the Plumbing Inspector and until a Certificate of Occupancy has been issued by the Department of Economic and Community Development. (Ordinance No. 2017-96)

## **Article V : Regulations on Cross-Connections Control**

### **Section 40 : Back Flow Prevention Devices Required.**

All plumbing installed within the City of Bloomington, shall be installed in accordance with the Illinois State Plumbing Code, 77 Ill. Adm. Code 890. If in accordance with the Illinois Plumbing Code or in the judgment of the Director of Public Works, an approved back flow prevention device is necessary for the safety of the public water supply system, the Director of Public Works will give notice to the water customer to install such an approved device immediately. The water customer shall, at ~~his~~ their own expense, install such an approved device at a location

and in a manner in accordance with the Illinois State Plumbing Code, Illinois Environmental Protection Agency and all applicable local regulations, and shall have inspections and tests made of such approved devices upon installation and as required by the Illinois State Plumbing Code, Illinois Environmental Protection Agency and local regulations. (Ordinance No. 2018-93)

#### **Section 41 : Non-Approved Connection Methods Prohibited.**

No person, firm or corporation shall establish or permit to be established or maintain or permit to be maintained any connection whereby a private, auxiliary or emergency water supply other than the regular public water supply of the City of Bloomington may enter the supply or distribution system of said municipality, unless such private, auxiliary or emergency water supply and the method of connection and use of such supply shall have been approved by the Director of Public Works and the Illinois Environmental Protection Agency. (Ordinance No. 2018-93)

#### **Section 42 : Surveys Required.**

It shall be the duty of the customer to cause surveys and investigations to be made of the customer's properties served by the public water supply to determine whether actual or potential hazards to the public water supply may exist. Such surveys and investigations shall be completed by a certified cross-connection inspector (see Sec. 49 Survey and Investigations) and shall be filed with the Community Development Department and made a matter of public record and shall be repeated at least every two years, or as often as the Director of Public Works shall deem necessary. Records of such surveys shall be maintained and available for review for a period of at least five years. (Ordinance No. 2018-93)

#### **Section 43 : Right to Investigate; Effect of Refusal to Furnish Information.**

The Director of Public Works or ~~his~~ **their** authorized agent shall have the right to enter at any reasonable time any property served by a connection to the public water supply or distribution system of the City of Bloomington for the purpose of verifying information submitted by the customer regarding the required cross-connection control inspection. On demand, the owner, lessees or occupants of any property so served shall furnish to the Director of Water any information which ~~he~~ **they** may request regarding the piping system or systems or water use on such property. The refusal of such information, when demanded, shall, within the discretion of the Director of Public Works, be deemed evidence of the presence of improper connections as provided in this Ordinance. (Ordinance No. 2005-73)

#### **Section 44 : Termination of Water Service.**

The Director of Public Works of the City of Bloomington is hereby authorized and directed to discontinue, after reasonable notice to the occupant thereof, the water service to any property

wherein any connection in violation of the provisions of this Ordinance is known to exist, or where the owner has failed to comply with the survey requirements of this ordinance, and to take such other precautionary measures as ~~he~~ **they** may deem necessary to eliminate any danger of contamination of the public water supply distribution mains. Water service to such property shall not be restored until such conditions have been eliminated or corrected in compliance with the provisions of this Ordinance, and until reconnection charges are paid as per Section 30 to the City of Bloomington. Immediate disconnection with verbal notice can be affected when the Director of Public Works is assured that imminent danger of harmful contamination of the public water supply system exists. Such action shall be followed by written notification of the cause of disconnection. Immediate disconnection without notice to any party can be affected to prevent actual or anticipated contamination or pollution of the public water supply, provided that, in the reasonable opinion of the Director of Public Works or the Illinois Environmental Protection Agency, such action is required to prevent actual or potential contamination or pollution of the public water supply. Neither the Public Water Supply, the Director of Public Works, or its agents or assigns shall be liable to any customer for any injury, damages or lost revenues which may result from termination of said customer's water supply in accordance with the terms of this Ordinance, whether or not said termination was with or without notice. (Ordinance No. 2018-93)

#### **Section 45 : Cleanup Costs to be Borne by Customer.**

The customer responsible for back-siphoned or back-pressured material or contamination through back flow, if contamination of the potable water supply system occurs through an illegal cross-connection or an improperly installed, maintained or repaired device, or a device which has been bypassed, must bear the cost of cleanup of the potable water supply system. (Ordinance No. 2005-73)

#### **Section 46 : Cross-Connection Control - General Policy.**

- (a) Purpose. The purpose of these Rules and Regulations is:
- (1) To protect the public water supply system from contamination or pollution by isolating within the customer's water system contaminants or pollutants which could back flow through the service connection into the public water supply system.
  - (2) To promote the elimination or control of existing cross-connections, actual or potential, between the public or customer's potable water system and non-potable water systems, plumbing fixtures and sources or systems containing substances of unknown or questionable safety.
  - (3) To provide for the maintenance of a continuing program of cross-connection control which will prevent the contamination or pollution of the public and customer's potable water systems.
- (b) Application. These Rules and Regulations shall apply to all premises served by the public potable water supply system of the City of Bloomington.

(c) Policy. The owner or official custodian shall be responsible for protection of the public water supply system from contamination due to back flow or back siphonage of contaminants through the customer's water service connection. If in the judgment of the Director of Public Works or ~~his~~ their authorized representative, an approved back flow prevention device is necessary for the safety of the public water supply system, the Director of Public Works shall give notice to the customer to install such approved back flow prevention device at each service connection to the premises. The customer shall immediately install such approved device or devices at ~~his~~ their own expense; failure, refusal or inability on the part of the customer to install such device or devices immediately shall constitute grounds for discontinuing water service to the premises until such device or devices have been installed. The customer shall retain records of installation, maintenance, testing and repair as required in Section 44(d)(4) below for a period of at least five years. The Director of Public Works may require the customer to submit a cross-connection inspection report to the City of Bloomington to assist in determining whether or not service line protection will be required. All cross-connection inspections shall be conducted by a Cross-Connection Control Device Inspector certified by the Illinois Environmental Protection Agency. (Ordinance No. 2018-93)

#### **Section 47 : Water System.**

- (a) The water system shall be considered as made up of two parts: the public water supply system and the customer's water system.
- (b) The public water supply system shall consist of the source facilities and the distribution system and shall include all those facilities of the potable water system under the control of the Director of Public Works up to the point where the customer's water system begins.
- (c) The source shall include all components of the facilities utilized in the production, treatment, storage and delivery of water to the public water supply distribution system.
- (d) The public water supply distribution system shall include the network of conduits or watermains used to deliver water from the source to the customer's water system.
- (e) The customer's water system shall include all parts of the facilities beyond the water service connection used to convey water from the public water supply distribution system to points of use. (Ordinance No. 2018-93)

#### **Section 48 : Cross-Connection Prohibited.**

- (a) Connections between potable water systems and other systems or equipment containing water or other substances of unknown or questionable quality are prohibited except when and where approved cross-connection control devices or methods are installed, tested and maintained to insure proper operation on a continuing basis.

(b)

(1) No physical connection shall be permitted between the potable portion of a supply and any other water supply not of equal or better bacteriological and chemical quality as determined by inspection and analysis by the Agency.

(2) There shall be no arrangement or connection by which an unsafe substance may enter a water supply. (Ordinance No. 2005-73)

#### **Section 49 : Survey and Investigations.**

(a) The customer's premises shall be open at all reasonable times to the approved Cross-connection Control Device Inspector for the inspection of the presence or absence of cross-connections within the customer's premises, and testing, repair and maintenance of cross-connection control devices within the customer's premises.

(b) On request by the Director of Public Works, or ~~his~~ **their** authorized representative, the customer shall furnish information regarding the piping system or systems or water use within the customer's premises. The customer's premises shall be open at all reasonable times to the Director of Public Works, or ~~his~~ **their** authorized representative, for the verification of information submitted by the inspection customer to the public water supply custodian regarding cross-connection inspection results.

(c) It shall be the responsibility of the water customer to arrange periodic surveys of water use practices on ~~his~~ **their** premises to determine whether there are actual or potential cross-connections to his water system through which contaminants or pollutants could backflow into ~~his~~ **theirs** or the public potable water system. All cross-connection control or other plumbing inspections must be conducted in accordance with Illinois State Statutes.

(d) It is the responsibility of the water customer to prevent backflow into the public water system by ensuring that:

(1) All cross-connections are removed; or approved cross-connection control devices are installed for control of backflow and back siphonage.

(2) Cross-connection control devices shall be installed in accordance with the manufacturer's instructions.

(3) Cross-connection control devices shall be inspected at the time of installation and at least annually by a person approved by the Agency as a Cross-connection Control Device Inspector (CCCDI). The inspection of mechanical devices shall include physical testing in accordance with the manufacturer's instructions.

(4) Testing and Records:

- (a) Each device shall be tested at the time of installation and at least annually or more frequently if recommended by the manufacturer.
- (b) Records submitted to the community public water supply shall be available for inspection by Agency personnel in accordance with Ill. Rev. Stat. 1987, ch.111½, ¶1004(e).
- (c) Each device shall have a tag attached listing the date of most recent test, name of CCCDI, and type and date of repairs.
- (d) A maintenance log shall be maintained and include:
  - (1) date of each test;
  - (2) name and approval number of the person performing the test;
  - (3) test results;
  - (4) repairs or servicing required;
  - (5) repairs and date completed; and
  - (6) servicing performed and dated completed. (Ordinance No. 2005-73)

#### **Section 50 : Where Protection is Required.**

- (a) An approved backflow device shall be installed on all connections to the public water supply as described in the Illinois State Plumbing Code, 77 Ill. Adm. Code 890 and the Agency's regulations, 35 Ill. Adm. Code 680. In addition, an approved backflow prevention device shall be installed on each water service line to a customer's water system serving premises, where in the judgment of the Director of Water, actual or potential hazards to the public water supply system exist.
- (b) An approved backflow prevention device shall be installed on each water service line to a customer's water system serving premises where the following conditions exist:
  - (1) Premises having an auxiliary water supply, unless such auxiliary supply is accepted as an additional source by the Director of Public Works and the source is approved by the Illinois Environmental Protection Agency.
  - (2) Premises on which any substance is handled which can create an actual or potential hazard to the public water supply system. This shall include premises having sources or systems containing process fluids or waters originating from the public water supply system which are no longer under the sanitary control of the Director of Public Works. (Ordinance No. 2018-93)
  - (3) Premises having internal cross-connections that, in the judgment of the Director of Public Works and/or the Cross-Connection Control Device Inspector, are not correctable or intricate plumbing arrangements which make it impractical to determine whether or not cross-connections exist. (Ordinance No. 2018-93)



- (4) Premises where, because of security requirements or other prohibitions or restrictions, it is impossible or impractical to make a complete cross-connection survey.
- (5) Premises having a repeated history of cross-connections being established or reestablished.
- (c) An approved backflow device shall be installed on all connections to the public water supply as described in the Illinois State Plumbing Code, 77 Ill. Adm. Code 890 and the Agency's regulations, 35 Ill. Adm. Code 653. In addition, an approved backflow prevention device shall be installed on each service line to a customer's water system serving, but not necessarily limited to, the following types of facilities unless the Director of Public Works determines that no actual or potential hazard to the public water supply system exists:
  - (1) Hospitals, mortuaries, clinics, nursing homes.
  - (2) Laboratories.
  - (3) Piers, docks, waterfront facilities.
  - (4) Sewage treatment plants, sewage pumping stations or storm water pumping stations.
  - (5) Food or beverage processing plants.
  - (6) Chemical plants.
  - (7) Metal plating industries.
  - (8) Petroleum processing or storage plants.
  - (9) Radioactive material processing plants or nuclear reactors.
  - (10) Car washes.
  - (11) Pesticide, or herbicide or extermination plants and trucks.
  - (12) Farm service and fertilizer plants and trucks.  
(Ordinance No. 2018-93)

#### **Section 51 : Type of Protection Required.**

- (a) The type of protection required under Sections 45(b)(1), (2) and (3) of these regulations shall depend on the degree of hazard which exists as follows:
  - (1) An approved fixed proper air gap separation shall be installed where the public water supply system may be contaminated with substances that could cause a severe health hazard.
  - (2) An approved fixed proper air gap separation or an approved reduced pressure principle backflow prevention assembly shall be installed where the public water supply system may be contaminated with a substance that could cause a system or health hazard.



(3) An approved fixed proper air gap separation or an approved reduced pressure principle backflow prevention assembly or a double check valve assembly shall be installed where the public water supply system may be polluted with substances that could cause a pollution hazard not dangerous to health.

(b) The type of protection required under Section 45(b)(4) and (5) of these regulations shall be an approved fixed proper air gap separation or an approved reduced pressure principle backflow prevention device.

(c) Where a public water supply or an auxiliary water supply is used for a fire protection system, reduced pressure principle backflow preventers shall be installed on fire safety systems connected to the public water supply when:

(1) the fire safety system contains antifreeze, fire retardant or other chemicals;

(2) water is pumped into the system from another source;

(3) water flows by gravity from a non-potable source, water can be pumped into the fire safety system from any other source;

(4) there is a connection whereby another source can be introduced into the fire safety system.

(d) All other fire safety systems connected to the potable water supply shall be protected by a double check valve assembly on metered service lines and a double detector check valve assembly on unmetered service lines. (Ordinance No. 2005-73)

(e) ~~Where a Reduced Pressure Principle backflow device is required on fire system 4 inch and larger for manufacturing or industrial buildings by the Illinois State Plumbing Code, it shall be a Reduced Pressure Principle Detector Assembly~~ Backflow Prevention Assembly is required on a service line that is four inches (4") or greater in diameter, it shall include a Detector Assembly (e.g. RPDA, DCDA). (Ordinance No. 2008-49)

## **Section 52 : Backflow Prevention Devices.**

(a) All backflow prevention devices or methods required by these rules and regulations shall be approved by the Research Foundation for Cross-Connection Control of the University of Southern California, American Water Works Association, American Society of Sanitary Engineering, Canadian Standards Association or American National Standards Institute or certified by the National Sanitation Foundation to be in compliance with applicable industry specification. (Ordinance No. 2013-03)

(b) Installation of approved devices shall be made in accordance with the manufacturer's instructions. Maintenance as recommended by the manufacturer of the device shall be performed. Manufacturer's maintenance manual shall be available on-site. (Ordinance No. 2005-73)

### **Section 53 : Inspection and Maintenance.**

(a) It shall be the duty of the customer at any premises on which backflow prevention devices required by these regulations are installed to have inspection, tests, maintenance and repair made in accordance with the following schedule or more often where inspections indicate a need or are specified in manufacturer's instructions.

(1) Fixed proper air gap separations shall be inspected to document that a proper vertical distance is maintained between the discharge point of the service line and the flood level rim of the receptacle at the time of installation and at least annually thereafter. Corrections to improper or by-passed air gap shall be made within 24 hours.

(2) Double check valve assemblies shall be inspected and tested at time of installation and at least annually thereafter and required service performed within five (5) days.

(3) Reduced pressure principle backflow prevention assemblies shall be tested at the time of installation and at least annually or more frequently if recommended by the manufacturer and required service performed within five (5) days.

(b) Testing shall be performed by a person who has been approved by the Agency as competent to service the device. Proof of approval shall be in writing.

(c) Each device shall have a tag attached listing the date of most recent test or visual inspection, name of tester, and type and date of repairs.

(d) A maintenance log shall be maintained and include:

(1) date of each test or visual inspection;

(2) name and approval number of the person performing the test or visual inspection;

(3) test results;

(4) repairs or servicing required;

(5) repairs and date completed; and

(6) servicing performed and date completed.

(e) Whenever backflow prevention devices required by these regulations are found to be defective, they shall be repaired or replaced at the expense of the customer without delay as required by this Section.

(f) Backflow prevention devices shall not be bypassed, made inoperative, removed or otherwise made ineffective without specific authorization by the Director of Public Works. (Ordinance No. 2018-93)

### **Section 54 : Booster Pumps.**

(a) Where a booster pump has been installed on the water service line to or within any premises, such pump shall be equipped with a low pressure cutoff device designed to shutoff the booster pump when the pressure in the water service line on the suction side of the pump drops to 20 psi or less.

(b) It shall be the duty of the water customer to maintain the low pressure cutoff device in proper working order and to certify to the Plumbing Inspector, at least once a year, that the device is operable. (Ordinance No. 2005-73)

### **Section 55 : Fees.**

(a) There shall be a fee, in an amount as set forth in the Schedule of Fees, for filing the survey required under Section 37 of this Chapter. The fee shall be assessed for each survey filed. This fee shall be assessed each time a survey is filed, regardless of whether the survey submitted had been filed previously and is being resubmitted to correct deficiencies or errors in a previously filed survey. (Ordinance No. 2018-89)

(b) There shall be a charge, in an amount as set forth in the Schedule of Fees, assessed for any inspection conducted by the Director of Public Works or ~~his~~ **their** authorized agent pursuant to Section 43 of this Chapter or under any other provision of this Chapter to check information set forth in a survey report or to verify compliance with the requirements of this Article. (Ordinance No. 2018-93)

(c) There shall be a fee, in an amount as set forth in the Schedule of Fees, for filing the annual certification of cross connection control devices as required in Section 44(d)(3) of this Chapter. The fee shall be assessed for each device certified. (Ordinance No. 2018-89)

(d) All fees provided for herein shall be paid to the Director of Public Works or ~~his~~ **their** designated representative. (Ordinance No. 2018-93)

### **Section 56 : Violations.**

(a) The Director of Public Works shall deny or discontinue, after reasonable notice to the occupants thereof, the water service to any premises wherein any back flow prevention device required by these regulations is not installed, tested, maintained and repaired in a manner acceptable to the Director of Public Works, or if it is found that the backflow prevention device has been removed or bypassed, or if an unprotected cross-connection exists on the premises, or if a low pressure cutoff required by these regulations is not installed and maintained in working order.

(b) Water service to such premises shall not be restored until the customer has corrected or eliminated such conditions or defects in conformance with these regulations and to the satisfaction of the Director of Public Works, and the required reconnection fee is paid.

(c) Neither the City of Bloomington, the Director of Public Works, or its agents or assigns shall be liable to any customers of the City of Bloomington for any injury, damages or lost revenues which may result from termination of said customer's water supply in accordance with the terms of this ordinance, whether or not said termination of the water supply was with or without notice.

(d) The customer responsible for back-siphoned material or contamination of the potable water supply system through an illegal cross-connection, an improperly maintained or repaired device, or a device which has been bypassed, must bear the cost of cleanup of the potable water supply system.

(e) Any person found to be violating any provision of this Ordinance shall be served with written notice stating the notice of the violation and providing a reasonable time limit for the satisfactory correction thereof. The offender shall, within the period of time stated in such notice, permanently cease all violation.

(f) Any person violating any of the provisions of this Ordinance in addition to the fine provided, shall become liable to the City for any expense, loss or damage occasioned by the City by reason of such violation, whether the same was caused before or after notice. (Ordinance No. 2018-93)

## **Article VI : Drains and Sewers**

### **Section 93 : Independent System.**

The drainage and plumbing system of each new building and of new work installed in an existing building shall be separate from and independent of that of any other building, except as provided below, and every building shall have an independent connection with a public or private sewer when available. In no case, except as noted below, will the sewer from one building be permitted to run beneath any other building. A sewer is deemed available when a public sewer has been provided for the plat of ground of which it may be a part.

### **Section 94 : Exception.**

Where one building stands in the rear of another building or an interior lot and no private sewer is available or can be constructed to the rear building through adjoining alley, court yard, or driveway, the house drain from the front building may be extended to the rear building and the whole will be considered as one house drain.

### **Section 95 : Existing House Sewers and Drains.**

Existing house sewers and drains may be used in connection with new buildings or new plumbing only when they conform in all respects to requirements governing new sewers or

drains, as prescribed in this Article. All excavations required to be made for installation of a house drainage system or any part thereof outside of or within the walls of a building shall be open trench work. All such trenches and tunnels shall be kept open until the piping has been inspected and approved. (Ordinance No. 2005-73)

### **Section 98 : Building Sewer.**

The waste piping from a point five feet (5') outside a building to the City sewer shall be considered the building sewer and shall be constructed of the following materials with a minimum diameter of four inches (4"): cast or ductile iron, PVC schedule 40, PVC schedule 80 with solvent weld joints, or PVC Schedule 21 - Type PSM-SDR slip joint pipe.

All piping material shall be embedded with a minimum of four inches (4") granular cradle below the sewer pipe and six inches (6") of granular cradle above. (Ordinance No. 2013-03)

Cure in place sewer liners may be accepted for making repairs of existing sanitary and storm water sewer services provided liner systems, installation and materials standards are approved and permits issued prior to installation.

Pipe bursting is only permitting using approved material as list in the Illinois Plumbing and the approval of the Plumbing Inspector. (Ordinance No. 2013-03)

### **Section 102 : Plat of Sewers.**

Whenever any sanitary sewer and storm sewer, or either of them, is constructed or altered on any lot, block, tract, or parcel of land in the City of Bloomington, Illinois, the owner, building, or contractor thereof shall file a plat thereof on a form furnished by said City in the office of and acceptable to the City Engineer showing location, size, depth, direction, and connections of such sanitary sewer and storm sewer in relation to the boundary lines of such lot, block, tract, or parcel of land, any building, or structure located thereon.

## **Article VII : Plumbing Inspector - Office Created; Appointment; Term; Qualifications**

### **Section 108 : Plumbing Inspector.**

There is hereby created the office of Plumbing Inspector of the City. The Plumbing Inspector shall be subordinate to the Director of **Economic and** Community Development. The person shall be well qualified from practical experience in the business of plumbing, house drainage, and plumbing installations. ~~He/she~~ **They** must hold a ~~Plumber's State of Illinois License~~ **an active State of Illinois Plumbing License**. (Ordinance No. 2017-96)

### **Section 111 : May Enter Private Premises.**

The said Inspector may, as far as necessary in the performance of ~~his~~ **their** duties, enter during normal business hours any building or premises in the jurisdiction of the City. (Ordinance No. 2005-73)

### **Section 112 : Notices - Record - Inspections - Collection of Fees.**

It shall be the duty of the said Inspector or designated agent to sign and issue all notices and certificates required, to pass upon all plans submitted, to keep a daily record of his work, permits granted, violations of these regulations, and all other matters which may pertain thereto; the Plumbing Inspector shall inspect all houses, buildings and structures in the course of construction or undergoing alteration or repair as often as may be necessary and shall see that all plumbing work, drainage, and ventilation is done in accordance with the provisions of these regulations. ~~He/she~~ **They** shall collect all fees required by this Article and pay the same to the City Director of Finance. All excavations to be made for the purpose of laying or, repairing sewage pipes from the main sewer line to the building line shall be under the direction and control of the Plumbing Inspector and shall be subject to ~~his~~ their inspections and approval. All permits necessary for such excavations shall be issued by the City Engineer. (Ordinance No. 2005-73)

### **Section 116 : Duty of Inspector.**

It shall be the duty of the Plumbing Inspector to see that the construction, maintenance, and control of the plumbing, drainage, and ventilation of all structures or buildings in the City conform to and comply with the rules and regulations established by the Code of the City or any future amendments thereto hereafter passed by the Council. **The Plumbing Inspector shall furnish inspection reports in accordance with Title 68 IAC Section 750.730(b).**

### **Section 117 : Fees.**

(a) New plumbing system installations, additions, or major alterations to existing systems shall upon approval of plans and specifications be granted a work permit. The total fee for such a permit shall be an accumulation of the fees corresponding to each and every plumbing fixture or appurtenant device in the system as contained in the following schedule. The minimum fee for a permit in this Section shall be as set forth in the Schedule of Fees.

The fee for any fixture or work not listed in this Section shall be determined by the Plumbing Inspector and as set forth in the Schedule of Fees. (Ordinance No. 2018-89)

- (b) If proposed work is in pipe replacement only, the fee will be calculated based on "reasonable estimated cost" and using the fee schedule for building permits in the Schedule of Fees. (Ordinance No. 2018-89)
- (c) Minor Repairs. Minor repairs do not require changes in the piping to or from plumbing fixtures or involve the removal, replacement, installation or reinstallation of any pipe or plumbing fixture. The minimum fee for the permit, if needed, shall be in an amount as set forth in the Schedule of Fees. (Ordinance No. 2018-89)
- (d) Pipe work. Any water supply pipe replacement or addition, and sewer pipe installation work shall be granted permits with fees based on the reasonable cost of improvement and using the fee schedule in Section as set forth in the Schedule of Fees. The minimum fee for a permit, if needed, shall be in an amount as set forth in the Schedule of Fees. (Ordinance No. 2018-89)
- (e) Permits issued to owner occupied single-family residences shall be charged a permit fee based on the above schedules with an additional fifty percent (50%) surcharge. (Ordinance No. 2005-73)
- (f) A penalty surcharge of one hundred percent (100%) but not less than Fifty Dollars (\$50.00) shall be added to the permit fee when any work is undertaken prior to obtaining a required permit. (Ordinance No. 2005-73)
- (g) A re-inspection fee, in an amount as set forth in the Schedule of Fees may be imposed when building is locked at time of scheduled inspection or work being inspected is not complete at time of inspection. (Ordinance No. 2018-89)

Nothing in this Section shall prevent the Plumbing Inspector from recommending to the Plumbing Board of Appeals the revocation of the contractor's business registration for repeated violation of doing work prior to ~~his~~ **their** obtaining the required permit. (Ordinance No. 2005-73)

### **Section 121 : Police Power.**

The Plumbing Inspector shall have (police) power to enforce compliance with the rules and regulations set forth in this Chapter.

### **Article VIII : Appeals**

#### **Section 122 : Appeals.**

Appeals relating to this Chapter will be heard by the Building Board of Appeals as provided in Chapter 10, Section 23 of this Code. (Ordinance No. 2013-68)

### **Article IX : Enactment and Penalties**



### **Section 127 : Revocation of Rights and Privileges.**

The rights and privileges of a licensed plumber to perform as such in the City shall become void in the City when ~~he/she~~ **they** shall refuse or neglect within a reasonable time after notification thereof to make such necessary corrections to plumbing work as shall have been ordered by the Plumbing Inspector or if ~~he/she~~ **they** shall permit the use of ~~his~~ **their** name by a person or persons for the purpose of obtaining a permit to do plumbing work. (Ordinance No. 2005-73)

### **Section 128 : Penalties for Violation.**

Any person or persons who violate, neglect or refuse to comply with or who resist or oppose the enforcement of any of the provisions of this Chapter where no other penalty is provided shall be fined not less than One Hundred Dollars (\$100.00) nor more than Five Hundred Dollars (\$500.00) for each offense. A separate offense shall be deemed committed each day that a violation continues. (Ordinance No. 1994-60)

### **Article X : Additions, Deletions, Modifications to the 2004 Illinois State Plumbing Code (Ordinance No. 2000-88)**

#### **Section 130 : Plumbing Fixtures.**

- (a) Only fixtures used for personal hygiene shall be installed in a rest room.
- (b) Commercial: Hand washing lavatory shall be installed in the same room as the water closet.
- (c) Mop sink, service sink and similar fixtures shall not be located next to or in the same room used for a gas fired furnace, boiler, or water heater. (Ordinance No. 2005-73)

#### **Section 131 : Interceptors Required.**

It is required that grease interceptors (traps) be located outside the building and shall be accessible for maintenance purposes. See illustrations in the Illinois State Plumbing Code.

Exception: When property restrictions prevent a grease interceptor to be located outside of an existing building, i.e., downtown buildings, strip and shopping malls, Plumbing Drainage Institute (PDI) approved grease interceptor may be allowed in lieu of the required outside grease trap. Such interceptor shall be installed with an approved solid interceptor located before the grease interceptor.

All restaurants which require a grease interceptor as per the Illinois State Plumbing Code shall install a minimum 1,000 gallon outside interceptor. Sandwich bars and carryout services which only prepare (not cooked foods) cold sandwiches shall install a minimum 250 gallon grease interceptor or as described in above code Section.



Any business or individual which causes the City's sewer to become laden or plugged with fats, oils, grease, or other substance will be required to reimburse a minimum of \$2,500 (first offense) or actual cost whichever is greater to the City of Bloomington for any cost related to cleaning of said sewer. Fines will double for every reoccurrence of this violation. (Ordinance No. 2013-03)

**Section 132 : Swimming Pools, Spas, Etc.**

All piping related to the proper operation of a swimming pool, spas, or the like are part of plumbing work and must comply with the Illinois State Plumbing Code, [the Illinois Swimming Facility Code \(Title 77, Part 820\)](#), and this Chapter including necessary permits required. (Ordinance No. 2005-73)

DRAFT



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TO: Building Board of Appeals  
FROM: Chris McAllister, Building Official  
DATE: December 2, 2021  
RE: **Update on Building Permit Application Procedures and Forms**

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At the meeting, staff will update the Board on update process and efficiencies for managing changes in use, and related applications.

Current new Change of Use / New Tenant Application is attached.

## Change of Use/New Tenant Application

Site Address:	Unit #:	<b>Office Use Only</b>
Describe the Proposed Use:		Application Number:
Former Use of Space:		Permit Number:
Please indicate if any of the following services will be provided at the proposed establishment.		Contacted:            Phone
<input type="checkbox"/> Sell Alcohol or Serve Beverages <input type="checkbox"/> Daycare <input type="checkbox"/> Provide Massage Therapy <input type="checkbox"/> Outdoor Dining <input type="checkbox"/> Handle or Prepare Food <input type="checkbox"/> Auto Sales <input type="checkbox"/> Provide Tanning Services <input type="checkbox"/> Pawnbroker <input type="checkbox"/> Sell Tobacco <input type="checkbox"/> Auto Service		Email
		<b>ZONING:</b>
		Certificate of Occupancy Issued:
License Required? <b>YES</b> <b>NO</b>	Paperwork submitted? <b>YES</b> <b>NO</b>	Application Date:
Fire sprinkler system currently installed? <b>YES</b> <b>NO</b>		Anticipated Occupancy Date:
Fire alarm system currently installed? <b>YES</b> <b>NO</b>		Total Leased Square Footage of the Space:
Number of available off Street Parking Spaces?	Shared parking spaces? <b>YES</b> <b>NO</b>	List immediately adjacent tenant spaces :

### Contact Information:

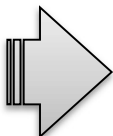
<b>Owner</b>	Name:	Email:
	Address:	Phone:
<b>Tenant</b>	Name:	Email:
	Address:	Phone:

### Required Attachments to be Submitted by Applicant

	Floor plan with dimensions, label the use of all areas
	List any and all alterations that are anticipated for the space including painting, carpentry, ceiling tiles, lighting, sinks, walls, plumbing, electrical and mechanicals.

Under penalty of intentional misrepresentation and/or perjury, I declare that I have examined and/or made this application and is true and correct to the best of my knowledge and belief. I realize that the information that I have affirmed hereon forms a basis for the issuance of a certificate of occupancy.

**Signature:** \_\_\_\_\_



- **NOTE: SEPARATE PERMITS MUST BE OBTAINED BEFORE ANY NEW WORK BEGINS.**
- SUBMISSION OF THIS FORM DOES NOT GUARANTEE OR GRANT OCCUPANCY APPROVAL.



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TO: Building Board of Appeals  
FROM: Chris McAllister, Building Official  
DATE: December 2, 2021  
RE: **Update on Department Staff Changes**

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Several department changes have occurred since the Board last met in September 2020:

1. In September 2020, the Community Development Department combined with the Economic Development Department to form the new Economic and Community Development Department (ECD). The Building Safety Division remains within this newly combined department.
2. Department Divisions are:
  - a. Building Safety
  - b. Community Enhancement (formerly named Code Enforcement)
  - c. Economic Development
  - d. Planning
3. The ECD Director is Melissa Hon, and the Assistant Director is Kimberly Smith.
4. Current Building Safety Division Staff:

<u>Name</u>	<u>Title</u>
Chris McAllister	Building Official
Candace Beer	Fire Inspector
Mike Conroy	Residential Building Inspector
Kathryn Gruber	Fire Inspector
Eric Leman	Plumbing Inspector
Shane Young	Commercial Inspector
Patrick Grover	Electrical Inspector
Joe Fowler	Fire Protection Inspector
Erik Rutledge	HVAC Inspector
David Witt	Multi-Discipline Inspector