

outline is defined and used in this document

TITLE VII. PUBLIC UTILITIES

Cross Reference—As to waterworks and sewer construction permit, §§500.020 et seq.; as to residing in any structure without electric, sewer or water service, a nuisance, §215.010(A)(19).

CHAPTER 700: UTILITIES—FEES AND CHARGES

ARTICLE I. SEWER AND WATERWORKS FEES

SECTION 700.010: WATER RATES

The following rates and charges for the use and service of the waterworks system of the City of Marthasville, based upon the amount of water consumed, are hereby established:

System base rate	\$ 8.00 (monthly charge for each user)
System user rate	\$.20 per 100 gallons of usage

Whenever, for any cause, a water meter fails to operate, a reasonable estimate shall be made by the City Clerk of the amount of water supplied during the period such meter fails to operate and the user shall pay a rate based in whole or in part of the estimated amount of water supplied. (Ord. No. 322 §1, 8-12-08)

SECTION 700.020: SEWER RATES

The following rates and charges for the sewer service of the sewer system of the City of Marthasville are hereby established:

System base rate	\$ 13.00 (monthly charge for each user)
System user rate	\$.10 per 100 gallons of usage

All structures served by a single water meter and in which there is more than one (1) family, users, units or apartments shall be charged said thirteen dollars (\$13.00) per month multiplied by the number such users, units or apartments plus ten cents (\$.10) per one hundred (100) gallons or portion thereof. Each owner or occupant of such units or apartments shall be charged and shall pay their respective and proportionate part of the charge attributable to the entire structure. (Ord. No. 323 §1, 8-12-08)

SECTION 700.025: NON-PAYMENT OF FEES AND/OR TAXES

- A. *Water Service.* Except as otherwise may be required by law or expressly waived by the Board of Aldermen for good cause, the City may decline, fail or cease to furnish water service to any person, corporation and/or entity that has not paid any tax or fee due and owing to the City.
- B. *Sewer Service.* Except as otherwise may be required by law or expressly waived by the Board of Aldermen for good cause, the City may decline, fail or cease to furnish sewer services to any person, corporation and/or entity that has not paid any tax or fee due and owing to the City.

SECTION 700.030: DISCONNECTION FOR NON-USE

The City reserves the right to disconnect and remove upon ten (10) days' notice to property owners all meters, curb boxes, curb cocks and service lines thereto extending from the water or sewer main that is not and has not been used for a period of thirty (30) days or more and connection fees shall be forfeited. (Ord. No. 250 §III, 1-9-01)

SECTION 700.040: CONNECTION FEES FOR WATERWORKS

The charge for connection to the waterworks system shall be as follows plus cost of all materials and labor:

RESIDENTIAL CONNECTION FEES	
Size of Meter	Fee
⁵ / ₈ by ³ / ₄ inch meter	\$ 1,000.00
1 inch meter	\$ 1,500.00
COMMERCIAL/INDUSTRIAL CONNECTION FEES	
Size of Meter	Fee
1 inch meter	\$ 2,000.00
2 inch meter	\$ 3,500.00

(Ord. No. 250 §IV, 1-9-01)

SECTION 700.050: CONNECTION FEES FOR SEWER

The charge for connecting to the sewer system shall be as follows plus cost of all materials and labor:

RESIDENTIAL CONNECTION FEES	
Size of Meter	Fees
⁵ / ₈ by ³ / ₄ inch meter	\$ 1,500.00
1 inch meter	\$ 2,000.00
COMMERCIAL/INDUSTRIAL CONNECTION FEES	
Size of Meter	Fees
1 inch meter	\$ 3,500.00
2 inch meter	\$ 5,000.00

(Ord. No. 250 §V, 1-9-01)

SECTION 700.060: UPGRADE TO LARGER SERVICE

Any upgrade to a larger service shall be the difference in cost between the smaller service and the larger service on current waterworks and sewer system connection fees. (Ord. No. 250 §VI, 1-9-01)

SECTION 700.070: CHARGE FOR SERVICE CONNECTION

- A. The Missouri State "service connection fee" will be collected annually, in the month of June. This fee will be stated separately on the customer's water bill as a "state connection fee".
- B. The charge assessed against each customer for each service connection of the City utility as established by the State is:
 - 1. Eighty cents (\$0.80) per residential customer; and
 - 2. Three dollars (\$3.00) for each commercial or industrial customer not served by a public water system.

Customers having multiple connections will pay multiple fees. (Ord. No. 248 §§I–II, 12-12-00)

SECTION 700.080: PRIMACY FEE

- A. The Missouri State "Primacy Fee" will be collected annually in the month of June. This fee will be stated separately on the customer's water bill as a "State fee".
- B. The charge assessed against each customer for each service connection of the City utility as established by the State is determined on the basis of meter size as stated below:
 - 1. For unmetered customers and customers with meters not greater than one (1) inch \$2.00/year
 - 2. Meter size more than one (1) inch but not more than two (2) inches . \$ 5.00/year
 - 3. Meter size more than two (2) inches but not more than four (4) inches \$ 25.00/year
 - 4. Meter size more than four (4) inches \$ 50.00/year

Customers having multiple connections will pay multiple fees, up to a maximum of five hundred dollars (\$500.00). (Ord. No. 198 §§I–II, 4-13-93)

SECTION 700.090: BILLING PROCEDURES—DELINQUENCY

- A. Bills for the rates and charges herein established shall be made out by the City Clerk and shall be sent out monthly. Billing procedures shall be set by the Board of Aldermen from time to time and available for inspection at City Hall. All bills shall be payable at the office of the City Clerk.
- B. If any charge for the services of the system shall not be paid by the twentieth (20th) day of the month in which it shall become due and payable, a delayed payment charge of ten percent (10%)

of the amount of the bill shall be added thereto and collected therewith.

- C. Any person, persons, firms, associations, partnerships or corporations desiring a connection with the waterworks system of the City of Marthasville, Missouri, in order to obtain a water supply shall make application therefore to the City Clerk on blanks provided by him/her. Said application shall show the name of the owner, location of the premises, and any other information required by him/her. A deposit of fifty dollars (\$50.00) for residential use and one hundred dollars (\$100.00) for commercial use shall be paid to the Clerk upon making application. (Ord. No. 191 §§II–IV, 12-10-91)

SECTION 700.100: DISCONTINUANCE OF SERVICE–NOTIFICATION

The City Water Department:

1. May discontinue service to a customer upon notice for one (1) or more of the following reasons:
 - a. Non-payment of delinquent accounts as defined by policy of the City;
 - b. Unauthorized interference, diversion or use of the water service situated or delivered on or about the customer's premises;
 - c. Refusal to grant access at reasonable times to equipment installed upon the premises of the customer for the purpose of inspection, meter reading, maintenance or replacement;
 - d. Misrepresentation of identity for the purpose of obtaining utility service; and
 - e. Violation of any provisions of City ordinances applicable to the Water Department.
2. Shall not discontinue services pursuant to Subsection (1) unless written notice is mailed to the consumer at least six (6) days or served upon the consumer at least ninety-six (96) hours prior to the date of the proposed discontinuance. Any notice of termination of service shall be sent to both the occupant and owner of the premises receiving such service. The notice of discontinuance shall contain the following information:
 - a. The name and address of the consumer and the address, if different, where service is rendered;
 - b. A clear and concise statement of the reason for the proposed discontinuance of service and the cost for reconnection;
 - c. The date on or after which service will be discontinued unless the consumer takes appropriate action;
 - d. Terms under which the consumer may avoid discontinuance;
 - e. The telephone number and address of the Water Department where the consumer may make inquiry or file a complaint; and
 - f. The time and place where the consumer may appear to contest the discontinuance before service is discontinued. (Ord. No. 191 §VI, 12-10-91)

**SECTION 700.105: DISCONNECTION OF SERVICES FOR FAILURE TO PAY BILL—
ADDITIONAL ADMINISTRATIVE CHARGE**

If any water or sewer service shall be disconnected, an additional set administrative charge shall be applied prior to reconnection of services to the City's water/sewer system. The amount of said administrative charge shall be set and established by City policy. Service to any such premises may be immediately discontinued and, if discontinued by disconnect, shall not be reconnected until all past due bills for both water and sewerage service are paid in full, together with the said administrative charge.

SECTION 700.110: OCCUPANT/OWNER LIABLE

The owner of any lot, parcel of land or premises receiving any of the services of the water system of the City, the occupant of such premises and the user of the services shall be jointly and severally liable for the payment of services to such lot, parcel of land or premises and all services are rendered to the premises by the City of Marthasville only on the condition that such owner, occupant or user shall be jointly and severally liable therefor to the City of Marthasville. (Ord. No. 191 §VII, 12-10-91)

SECTION 700.120: REVENUES MAINTAINED AS PROVIDED IN BONDS

All revenues derived from the operation of the waterworks system shall be set aside as collected and deposited in a bank account separate and distinct from all other funds or bank accounts of the City, and proper records and accounts, separate apart from all other records and accounts, shall be maintained as may be provided by the ordinance authorizing the issuance of waterworks revenue bonds. (Ord. No. 191 §VIII, 12-10-91)

SECTION 700.130: CUSTOMER LIST

The City Clerk shall make out a list of all premises receiving water service. Such list shall show the name of the owner and the occupant of such premises and shall be at all times kept up to date. (Ord. No. 191 §IX, 12-10-91)

SECTION 700.140: EFFECTIVE DATE OF RATES

The rates established by this Chapter shall go into effect when water is supplied to any premises. (Ord. No. 191 §X, 12-10-91)

CHAPTER 705: SEWER REGULATIONS

Cross Reference—As to utility fees and charges, ch. 700; as to residing in any structure without electric, sewer or water service, a nuisance, §215.010(A)(19).

ARTICLE I. GENERALLY

SECTION 705.010: DEFINITIONS

Unless the context specifically indicates otherwise, the meaning of terms used in this Chapter shall be as follows:

BOD (DENOTING BIOCHEMICAL OXYGEN DEMAND): The quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedure in five (5) days at twenty degrees Celsius (20°C), expressed in milligrams per liter.

BUILDING DRAIN: That part of the lowest horizontal piping of a drainage system which receives the discharge from soil, waste and other drainage pipes inside the walls of the building and conveys it to the building sewer, beginning five (5) feet (1.5 meters) outside the inner face of the building wall.

BUILDING SEWER: The extension from the building drain to the public sewer or other place of disposal.

COMBINED SEWER: A sewer receiving both surface runoff and sewage.

GARBAGE: Solid wastes from the domestic and commercial preparation, cooking and dispensing of food and from the handling, storage and sale of produce.

INDUSTRIAL WASTES: The liquid wastes from industrial manufacturing processes, trade or business as distinct from sanitary sewage.

NATURAL OUTLET: Any outlet into a watercourse, pond, ditch, lake or other body of surface or ground water.

PERSON: Any individual, firm, company, association, society, corporation or group.

pH: The logarithm of the reciprocal of the weight of hydrogen ions in grams of solution.

PROPERLY SHREDDED GARBAGE: The wastes from the preparation cooking and dispensing of food that have been shredded to such a degree that all particles will be carried freely under the flow conditions normally prevailing in public sewers, with no particle greater than one-half (½) inch (1.27 centimeters) in any dimension.

PUBLIC SEWER: A sewer in which all owners of abutting properties have equal rights and is controlled by public authority.

SANITARY SEWER: A sewer which carries sewage and to which storm, surface and ground waters are not intentionally admitted.

SEWAGE: A combination of the water-carried wastes from residences, business buildings, institutions and industrial establishments, together with such ground, surface and stormwaters as may be present.

SEWAGE TREATMENT PLANT: Any arrangement of devices and structures used for treating sewage.

SEWAGE WORKS: All facilities for collecting, pumping, treating and disposing of sewage.

SEWER: A pipe or conduit for carrying sewage.

SHALL: Is mandatory; *MAY:* Is permissive.

SLUG: Any discharge of water, sewage or industrial waste which in concentration of any given constituent or in quantity of flow exceed for any period of duration longer than fifteen (15) minutes more than five (5) times the average twenty-four (24) hour concentration or flows during normal operation.

STORM DRAIN (SOMETIMES TERMED "STORM SEWER"): A sewer which carries storm and surface waters and drainage, but excludes sewage and industrial wastes, other than unpolluted cooling water.

SUPERINTENDENT: The Water Commissioner of the City of Marthasville or his/her authorized deputy, agent or representative.

SUSPENDED SOLIDS: Solids that either float on the surface of or are in suspension in water, sewage or other liquids and which are removable by laboratory filtering.

WATERCOURSE: A channel in which a flow of water occurs, either continuously or intermittently. (Ord. No. 87 Art. I §§1–22, 1-9-73)

SECTION 705.020: UNLAWFUL DEPOSIT OF WASTES

It shall be unlawful for any person to place, deposit or permit to be deposited in any unsanitary manner on public or private property within the City of Marthasville or in any area under the jurisdiction of said City any human or animal excrement, garbage or other objectionable waste. (Ord. No. 87 Art. II §1, 1-9-73)

SECTION 705.030: UNLAWFUL DISCHARGE OF SEWAGE

It shall be unlawful to discharge to any natural outlet within the City of Marthasville, or in any area under the jurisdiction of said City, any sewage or other polluted waters, except where suitable treatment has been provided in accordance with subsequent provisions of this Chapter. (Ord. No. 87 Art. II §2, 1-9-73)

SECTION 705.040: UNLAWFUL DISPOSAL OF SEWAGE

Except as hereinafter provided, it shall be unlawful to construct or maintain any privy, privy vault, septic tank, cesspool or other facility intended or used for the disposal of sewage. (Ord. No. 87 Art. II §3, 1-9-73)

SECTION 705.050: SUITABLE TOILET FACILITIES REQUIRED

The owner of all houses, buildings or properties used for human occupancy, employment, recreation or other purposes, situated within the City and abutting on any street, alley or right-of-way in which there is now located or may in the future be located a public sanitary or combined sewer of the City, is hereby required at his/her expense to install suitable toilet facilities therein and to connect such facilities directly with the proper public sewer in accordance with the provisions of this Chapter within ninety (90) days after date of official notice to do so, provided that said public sewer is within one hundred (100) feet (30.5 meters) of the property line. (Ord. No. 87 Art. II §4, 1-9-73)

SECTION 705.060: PRIVATE SEWAGE DISPOSAL REQUIRED

Where a public sanitary or combined sewer is not available under the provisions of Section 705.050, the building sewer shall be connected to a private sewage disposal system complying with the provisions of this Chapter. (Ord. No. 87 Art. III §1, 1-9-73)

SECTION 705.070: WRITTEN PERMIT

Before commencement of construction of a private sewage disposal system, the owner shall first obtain a written permit signed by the Superintendent. The application for such permit shall be made on a form furnished by the City, which the applicant shall supplement by any plans, specifications and other information as are deemed necessary by the Superintendent. A permit and inspection fee of twenty-five dollars (\$25.00) shall be paid to the City at the time the application is filed. (Ord. No. 87 Art. III §2, 1-9-73)

SECTION 705.080: EFFECTIVE DATE OF PERMIT

A permit for a private sewage disposal system shall not become effective until the installation is completed to the satisfaction of the Superintendent. He/she shall be allowed to inspect the work at any stage of construction and, in any event, the applicant for the permit shall notify the Superintendent when the work is ready for final inspection and before any underground portions are covered. The inspection shall be made within thirty-six (36) hours of the receipt of notice by the Superintendent, excluding Saturdays, Sundays and holidays. (Ord. No. 87 Art. III §3, 1-9-73)

SECTION 705.090: PERMIT REQUIREMENTS

The type, capacities, location and layout of a private sewage disposal system shall comply with all recommendations of the Department of Public Health and the Clean Water Commission of the State of Missouri. No permit shall be issued for any private sewage disposal system employing subsurface

soil absorption facilities where the area of the lot is less than twenty thousand (20,000) square feet. No septic tank or cesspool shall be permitted to discharge to any natural outlet. (Ord. No. 87 Art. III §4, 1-9-73)

SECTION 705.100: PUBLIC SEWER AVAILABLE

At such time as a public sewer becomes available to a property served by a private sewage disposal system as provided in Section 705.090, a direct connection shall be made to the public sewer in compliance with this Chapter and any septic tanks, cesspools and similar private sewage disposal facilities shall be abandoned and filled with suitable material. (Ord. No. 87 Art. III §5, 1-9-73)

SECTION 705.110: PRIVATE SEWAGE DISPOSAL

The owner shall operate and maintain the private sewage disposal facilities in a sanitary manner at all times at no expense to the City. (Ord. No. 87 Art. III §6, 1-9-73)

SECTION 705.120: REQUIREMENTS

No statement contained in this Article shall be construed to interfere with any additional requirements that may be imposed by the Health Officer or Superintendent. (Ord. No. 87 Art. III §7, 1-9-73)

SECTION 705.130: CONNECTION TIME—ALLOWANCE

When a public sewer becomes available, the building sewer shall be connected to said sewer within sixty (60) days and the private sewage disposal system shall be cleaned of sludge and filled with clean bank-run gravel or dirt. (Ord. No. 87 Art. III §8, 1-9-73)

SECTION 705.140: AUTHORIZATION

No unauthorized person shall uncover, make any connections with or opening into, use, alter or disturb any public sewer or appurtenance thereof without first obtaining a written permit from the Superintendent. (Ord. No. 87 Art. IV §1, 1-9-73)

SECTION 705.150: PERMIT CLASSES

There shall be two (2) classes of building sewer permits:

1. For residential and commercial service; and
2. For service to establishments producing industrial wastes.

In either case, the owner or his/her agent shall make application on a special form furnished by the City. The permit application shall be supplemented by any plans, specifications or other information

considered pertinent in the judgment of the Superintendent. A permit and inspection fee of twenty-five dollars (\$25.00) for a residential or commercial building sewer permit and one hundred dollars (\$100.00) for an industrial building sewer permit shall be paid to the City at the time the application is filed. (Ord. No. 87 Art. IV §2, 1-9-73)

SECTION 705.160: INDEMNITY

All costs and expense incident to the installation and connection of the building sewer shall be borne by the owner. The owner shall indemnify the City for any loss or damage that may directly or indirectly be occasioned by installation of the building sewer. The owner shall be required to execute a bond in the amount of seventy-five dollars (\$75.00) to indemnify the City from any loss or damage occasioned by the installation of said sewers. Said bond shall be refunded upon the acceptance of said installation by the Superintendent. (Ord. No. 87 Art. IV §3, 1-9-73)

SECTION 705.170: BUILDING SEWERS

A separate and independent building sewer shall be provided for every building; except where one building stands at the rear of another on an interior lot and no private sewer is available or can be constructed to the rear building through an adjoining alley, court, yard or driveway, the building sewer from the front building may be extended to the rear building and the whole considered as one (1) building sewer. (Ord. No. 87 Art. IV §4, 1-9-73)

SECTION 705.175: OLD BUILDING SEWERS

Old building sewers may be used in connection with new buildings only when they are found on examination and test by the Superintendent to meet all requirements of this Chapter. (Ord. No. 87 Art. IV §5, 1-9-73)

SECTION 705.180: REQUIREMENTS

The size, slope, alignment, materials of construction of a building sewer and the methods to be used in excavating, placing of the pipe, jointing, testing and backfilling the trench shall all conform to the requirements of any Building and Plumbing Code or other applicable rules and regulations of the City. In the absence of code provisions or in amplification thereof, the materials and procedures set forth in the latest appropriate specifications of the A.S.T.M. and W.P.C.F. Manual of Practice No. 9 shall apply. (Ord. No. 87 Art. IV §6, 1-9-73)

SECTION 705.190: SEWAGE DISCHARGE

Whenever possible, the building sewer shall be brought to the building at an elevation below the basement floor. In all buildings in which any building drain is too low to permit gravity flow to the public sewer, sanitary sewage carried by such building drain shall be lifted by an approved means and discharged to the building sewer. (Ord. No. 87 Art. IV §7, 1-9-73)

SECTION 705.200: PROHIBITED USES

No person shall make connection of roof downspouts, exterior foundation drains, areaway drains or other sources of runoff or ground water to a building sewer or building drain which in turn is connected directly or indirectly to a public sanitary sewer. (Ord. No. 87 Art. IV §8, 1-9-73)

SECTION 705.210: CONNECTION OF BUILDING SEWERS TO PUBLIC SEWERS

The connection of the building sewer into the public sewer shall conform to the requirements of any Building and Plumbing Code or other applicable rules and regulations of the City or the procedures set forth in the latest appropriate specifications of the A.S.T.M. and the W.P.C.F. Manual of Practice No. 9. All such connections shall be made gas-tight and water-tight. Any deviation from the prescribed procedures and materials must be approved by the Superintendent before installation. (Ord. No. 87 Art. IV §9, 1-9-73)

SECTION 705.220: INSPECTION

The applicant for the building sewer permit shall notify the Superintendent when the building sewer is ready for inspection and connection to the public sewer. The connection shall be made under the supervision of the Superintendent or his/her representative. (Ord. No. 87 Art. IV §10, 1-9-73)

SECTION 705.230: EXCAVATION

All excavations for building sewer installation shall be adequately guarded with barricades and lights so as to protect the public from hazard. Streets, sidewalks, parkways and other public property disturbed in the course of the work shall be restored in a manner satisfactory to the City. (Ord. No. 87 Art. IV §11, 1-9-73)

SECTION 705.240: NO DISCHARGE INTO SANITARY SEWERS

No person shall discharge or cause to be discharged any stormwater, surface water, ground water, roof runoff, subsurface drainage, uncontaminated cooling water or unpolluted industrial process waters to any sanitary sewer. (Ord. No. 87 Art. V §1, 1-9-73)

SECTION 705.250: COMBINED SEWERS

Stormwater and all other unpolluted drainage shall be discharged to such sewers as are specifically designated as combined sewers or storm sewers or to a natural outlet approved by the Superintendent. Industrial cooling water or unpolluted process waters may be discharged, on approval of the Superintendent, to a storm sewer, combined sewer or natural outlet. (Ord. No. 87 Art. V §2, 1-9-73)

SECTION 705.260: PROHIBITED DISCHARGE INTO PUBLIC SEWERS

No person shall discharge or cause to be discharged any of the following described waters or wastes to any public sewers:

1. Any gasoline, benzene, naphtha, fuel oil or other flammable or explosive liquid, solid or gas.
2. Any waters or wastes containing toxic or poisonous solids, liquids or gases in sufficient quantity, either singly or by interaction with other wastes, to injure or interfere with any sewage treatment process, constitute a hazard to humans or animals, create a public nuisance or create any hazard in the receiving waters of the sewage treatment plant including, but not limited to, cyanides in excess of two (2) mg/l as CN in the wastes as discharged to the public sewer.
3. Any waters or wastes having a pH lower than five and five-tenths (5.5) or having any other corrosive property capable of causing damage or hazard to structures, equipment and personnel of the sewage works.
4. Solid or viscous substances in quantities or of such size capable of causing obstruction to the flow in sewers or other interference with the proper operation of the sewage works such as, but not limited to, ashes, cinders, sand, mud, straw, shavings, metal, glass, rags, feathers, tar, plastics, wood, unground garbage, whole blood, paunch manure, hair and fleshings, entrails and paper dishes, cups, milk containers, etc., either whole or ground by garbage grinders. (Ord. No. 87 Art. V §3, 1-9-73)

SECTION 705.270: UNLAWFUL DISCHARGE

No person shall discharge or cause to be discharged the following described substances, materials, waters or wastes if it appears likely in the opinion of the Superintendent that such wastes can harm either the sewers, sewage treatment process or equipment, have an adverse effect on the receiving stream or can otherwise endanger life, limb, public property or constitute a nuisance. In forming his/her opinion as to the acceptability of these wastes, the Superintendent will give consideration to such factors as the quantities of subject wastes in relation to flows and velocities in the sewers, materials of construction of the sewers, nature of the sewage treatment process, capacity of the sewage treatment plant, degree of treatability of wastes in the sewage treatment plant and other pertinent factors. The substances prohibited are:

1. Any liquid or vapor having a temperature higher than one hundred fifty degrees Fahrenheit (150°F);
2. Any water or waste containing fats, wax, grease or oils whether emulsified or not, in excess of one hundred (100) mg/l or containing substances which may solidify or become viscous at temperatures between thirty-two degrees Fahrenheit (32°F) and one hundred fifty degrees Fahrenheit (150°F) (zero degrees Celsius (0°C) and sixty-five degree Celsius (65°C)).
3. Any garbage that has not been properly shredded. The installation and operation of any garbage grinder equipped with a motor of three-fourths ($\frac{3}{4}$) horsepower (0.76 hp metric) or greater shall be subject to the review and approval of the Superintendent.
4. Any waters or wastes containing strong acid iron pickling wastes or concentrated plating solutions whether neutralized or not.
5. Any waters or wastes containing iron, chromium, copper, zinc and similar objectionable or toxic substances or wastes exerting an excessive chlorine requirement to such degree that any

such material received in the composite sewage at the sewage treatment works exceeds the limits established by the Superintendent for such materials.

6. Any waters or wastes containing phenols or other taste- or odor-producing substances, in such concentrations exceeding limits which may be established by the Superintendent as necessary, after treatment of the composite sewage, to meet the requirements of the State, Federal or other public agencies of jurisdiction for such discharge to the receiving waters.
7. Any radioactive wastes or isotopes of such half-life or concentration as may exceed limits established by the Superintendent in compliance with applicable State or Federal regulations.
8. Any waters or wastes having a pH in excess of nine and five-tenths (9.5).
9. Materials which exert or cause:
 - a. Unusual concentrations of inert suspended solids (such as, but not limited to, Fuller's earth, lime slurries and lime residues) or of dissolved solids (such as, but not limited to, sodium chloride and sodium sulfate).
 - b. Excessive discoloration (such as, but not limited to, dye wastes and vegetable tanning solutions).
 - c. Unusual BOD, chemical oxygen demand or chlorine requirements in such quantities as to constitute a significant load on the sewage treatment works.
 - d. Unusual volume of flow or concentration of wastes constituting "slugs" as defined herein.
10. Waters or wastes containing substances which are not amenable to treatment or reduction by the sewage treatment processes employed or are amenable to treatment only to such degree that the sewage treatment plant effluent cannot meet the requirements of other agencies having jurisdiction over discharge to the receiving waters. (Ord. No. 87 Art. V §4, 1-9-73)

SECTION 705.280: OBJECTIONABLE WASTES OPTION

If any waters or wastes are discharged or are proposed to be discharged to the public sewers, which waters contain the substances or possess the characteristics enumerated in Section 705.270 and which in the judgment of the Superintendent may have a deleterious effect upon the sewage works, processes, equipment or receiving waters or which otherwise create a hazard to life or constitute a public nuisance, the Superintendent may:

1. Reject the wastes,
2. Require pretreatment to an acceptable condition for discharge to the public sewers,
3. Require control over the quantities and rates of discharge, and/or
4. Require payment to cover the added cost of handling and treating the wastes not covered by existing taxes or sewer charges under the provisions of Section 705.330.

If the Superintendent permits the pretreatment or equalization of waste flows, the design and

installation of the plants and equipment shall be subject to the review and approval of the Superintendent and subject to the requirements of all applicable codes, ordinances and laws. (Ord. No. 87 Art. V §5, 1-9-73)

SECTION 705.290: INTERCEPTORS

Grease, oil and sand interceptors shall be provided when, in the opinion of the Superintendent, they are necessary for the proper handling of liquid wastes containing grease in excessive amounts or any flammable wastes, sand or other harmful ingredients; except that such interceptors shall not be required for private living quarters or dwelling units. All interceptors shall be of a type and capacity approved by the Superintendent and shall be located as to be readily and easily accessible for cleaning and inspection. (Ord. No. 87 Art. V §6, 1-9-73)

SECTION 705.300: PRELIMINARY TREATMENT FACILITIES

Where preliminary treatment or flow-equalizing facilities are provided for any waters or wastes, they shall be maintained continuously in satisfactory and effective operation by the owner at his/her expense. (Ord. No. 87 Art. V §7, 1-9-73)

SECTION 705.310: BUILDING SEWERS CARRYING INDUSTRIAL WASTES

When required by the Superintendent, the owner of any property serviced by a building sewer carrying industrial wastes shall install a suitable control manhole together with such necessary meters and other appurtenances in the building sewer to facilitate observation, sampling and measurement of the wastes. Such manhole, when required, shall be accessibly and safely located and shall be constructed in accordance with plans approved by the Superintendent. The manhole shall be installed by the owner at his/her expense and shall be maintained by him/her so as to be safe and accessible at all times. (Ord. No. 87 Art. V §8, 1-9-73)

SECTION 705.320: MEASUREMENTS OF WATERS AND WASTES

All measurements, tests and analyses of the characteristics of waters and wastes to which reference is made in this Chapter shall be determined in accordance with the latest edition of "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association and shall be determined at the control manhole provided or upon suitable samples taken at said control manhole. In the event that no special manhole has been required, the control manhole shall be considered to be the nearest downstream manhole in the public sewer to the point at which the building sewer is connected. Sampling shall be carried out by customarily accepted methods to reflect the effect of constituents upon the sewage works and to determine the existence of hazards to life, limb and property. (Ord. No. 87 Art. V §9, 1-9-73)

SECTION 705.330: SPECIAL ARRANGEMENTS

No statement contained in this Chapter shall be construed as preventing any special agreement or arrangement between the City any industrial concern whereby an industrial waste of unusual strength

or character may be accepted by the City for treatment, subject to payment therefor, by the industrial concern. (Ord. No. 87 Art. V §10, 1-9-73)

SECTION 705.340: PROTECTION FROM DAMAGE

No unauthorized person shall maliciously, willfully or negligently break, damage, destroy, uncover, deface or tamper with any structure, appurtenance or equipment which is a part of the sewage works. (Ord. No. 87 Art. VI §1, 1-9-73)

SECTION 705.350: PERMISSION TO INSPECT

The Superintendent and other duly authorized employees of the City bearing proper credentials and identification shall be permitted to enter all properties for the purposes of inspection, observation, measurements, sampling and testing in accordance with the provisions of this Chapter. The Superintendent or his/her representatives shall have no authority to inquire into any processes including metallurgical, chemical, oil, refining, ceramic, paper or other industries beyond that point having a direct bearing on the kind and source of discharge to the sewers or waterways or facilities for waste treatment. (Ord. No. 87 Art. VII §1, 1-9-73)

SECTION 705.360: LIMITS ON COMPANY'S LIABILITY TO INSPECTOR

While performing the necessary work on private properties referred to in Section 705.350, the Superintendent or duly authorized employees of the City shall observe all safety rules applicable to the premises established by the company. (Ord. No. 87 Art. VII §2, 1-9-73)

SECTION 705.370: EASEMENT ENTRY RIGHTS

The Superintendent and other duly authorized employees of the City bearing proper credentials and identification shall be permitted to enter all private properties through which the City holds a duly negotiated easement for the purposes of, but not limited to, inspection, observation, measurement, sampling, repair and maintenance of any portion of the sewage works lying within said easement. All entry and subsequent work, if any, on said easement shall be done in full accordance with the terms of the duly negotiated easement pertaining to the private property involved. (Ord. No. 87 Art. VII §3, 1-9-73)

SECTION 705.380: VIOLATION OF SECTIONS

Any person found to be violating any provision of this Chapter except Section 705.340 shall be served by the City with written notice stating the nature 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 violations. (Ord. No. 87 Art. VIII §1, 1-9-73)

SECTION 705.390: LIABILITY

Any person violating any of the provisions of this Chapter shall become liable to the City for any expense, loss or damage occasioned the City by reason of such violation. (Ord. No. 87 Art. VIII §3, 1-9-73)

SECTION 705.400: ARBITRATION

The City Board and Mayor shall constitute a Hearing Board as needed for arbitration of differences between the Superintendent and sewer users on matters concerning interpretation and execution of the provisions of this Chapter by the Superintendent. (Ord. No. 87 Art. IX §1, 1-9-73)

SECTION 705.410: APPLICATION FEE FOR ARBITRATION

The application for arbitration of differences shall be accompanied by a twenty-five dollar (\$25.00) fee. (Ord. No. 87 Art. IX §2, 1-9-73)

ARTICLE II. WELLS

SECTION 705.420: PERMISSION TO DIG, ETC.–REQUIRED

It shall be unlawful for any person to dig, bore or drill a well for the purpose of obtaining water within the City without first applying for and obtaining the consent and permission of the Board of Aldermen to do so; provided, that no permission shall be issued for a well of greater depth than two hundred fifty-five (255) feet.

SECTION 705.430: PERMISSION TO DIG, ETC.–CONTENTS OF APPLICATION

Every application for permission to drill a well shall contain the averment that the applicant will observe and obey all of the provisions of this Article, and all amendments thereto, and any all rules and regulations promulgated by the County Board of Health, the State Board of Health and the State Division of Geological Survey and Water Resources. Such application shall be signed by both the real estate owner and the contractor.

**SECTION 705.440: CONFORMANCE TO CERTAIN REGULATIONS AND CONDITIONS–
GENERALLY**

Any well dug, bored or drilled in the City shall conform to the regulations and conditions of the County Board of Health, the State Board of Health and the State Division of Geological Survey and Water Resources.

**SECTION 705.450: DUTY OF PERSONS DIGGING WELLS TO MAKE TESTS, ETC.—
SUPERVISION BY CERTAIN AGENCIES, ETC.**

Every person who shall have a well drilled, bored or dug in the City, and every contractor digging such well, shall furnish samples to the State Division of Geological Survey and Water Resources and make all tests required by the City and at all times follow the directions of the City in reference to tests of the water flow in the City-owned wells, and at all times be under the supervision of the Water Department of the City, the State Board of Health and the State Division of Geological Survey and Water Resources and their agents and representatives.

**SECTION 705.460: TESTING EFFECT OF DIGGING, ETC., ON CITY WATER SUPPLY—
SEALING OF DETRIMENTAL WELLS**

The County Board of Health, the State Board of Health or the State Division of Geological Survey and Water Resources shall have the authority to determine, upon proper tests, what effect the digging, boring or drilling of any well is having, or will have, on the flow of water from City-owned wells. Upon their finding that the drilling, boring or digging of any well is detrimentally affecting the flow of the City-owned wells and the City water supply, the Board of Aldermen shall immediately order any person digging, drilling or boring such well to cease work and to cause such well to be hermetically sealed.

SECTION 705.470: REDIGGING, REBORING, ETC., GOVERNED BY ARTICLE

The redigging, reborings or re-drilling of any well for the purpose of obtaining water within the City shall be governed in all cases in the same manner as in the case of digging, boring or drilling a well for such purpose, as provided in this Article.

SECTION 705.480: PRIVATELY OWNED WELL—METER REQUIRED—PURPOSE

Any person having a privately owned well or any person using water from a privately owned well, which is connected to the sewer system of the City, shall be required to equip such well or water supply pipe with a water meter, for the purpose of ascertaining the amount of money due the City under its sewer service charge authorized by Section 700.020.

**SECTION 705.490: PRIVATELY OWNED WELL—FAILURE TO VOLUNTARILY EQUIP
WELL OR WATER SUPPLY PIPE WITH WATER METER—
PROCEDURE**

- A. If the owner of such well or the user of water from such well does not voluntarily equip such well or water supply pipe with a water meter, the Board of Aldermen may, after following the notice and hearing procedure hereinafter set forth, authorize the City Clerk, or other officer or representative of the City designated to prepare and render bills for sewer services, to bill the owner of such well or the user of water from such well, as shown by the City tax records or by the most recent City sewer bill for sewage disposal service, at six (6) times the monthly minimum sewage rate authorized by ordinance.

- B. Before proceeding to bill in accordance with Subsection (A) of this Section, there shall be a hearing before the Board of Aldermen at a regular Board of Aldermen meeting. The owner of such well or the user of water from such well, as shown by the City tax records or by the most recent City sewer bill, shall be given twenty (20) days' written notice of the meeting by the Chief of Police for the purpose of presenting reasons for not equipping such well or water supply pipe with a water meter, to present evidence of the exact number of gallons of water such well owner or water user uses each month, and for presenting alternate methods by which the City can determine the exact number of gallons of water used each month by such well owner or such water user. After the hearing, the Board of Aldermen may proceed by motion and affirmative majority vote thereon to authorize the City Clerk, or other officer or representative of the City designated to prepare and render bills for sewer services, to bill in accordance with Subsection (A) of this Section.
- C. Thereafter, whenever the owner of such well or the user of water from such well equips such well or water supply pipe with a water meter in accordance with this Article, the City Clerk shall, commencing with the next regular monthly sewer billing, cause such well owner or such water supply user to be billed for sewage disposal service in accordance with the City's regular sewer service charge authorized by Section 700.020.
- D. The City shall have the power to sue the owner of such well or the user of water from such well in a civil action to recover any sums due for sewage disposal service, plus a reasonable attorney's fee, to be fixed by the court.

**SECTION 705.500: PRIVATELY OWNED WELL—CITY TO FURNISH—OWNER OF WELL
OR USER OF WATER FROM WELL TO BEAR COSTS**

Such water meter and appurtenances shall be provided by the City and installed by the owner, and the cost of such meter, together with the cost of the installation thereof, shall be borne by the owner of such well or the user of water from such well. The City shall inspect and approve said installation. The owner shall provide the City with accessibility.

**SECTION 705.510: PRIVATELY OWNED WELL—WATER METERS TO REMAIN
PROPERTY OF CITY**

All water meters installed under the provisions of this Article shall remain the property of the City.

**SECTION 705.520: PRIVATELY OWNED WELL—CROSS-CONNECTIONS PROHIBITED
BETWEEN PRIVATE WELLS AND CITY WATER SYSTEM**

Any person owning or operating a private well or using water from a private well is hereby prohibited from making or causing to be made any cross-connection between such private well system and the water system of the City.

SECTION 705.530: PRIVATELY OWNED WELL—INSPECTIONS BY CITY

The City shall have the right to inspect at any time all privately owned wells and premises using water from a privately owned well to determine whether or not the provisions of this Article are

being complied with and to determine the existence or non-existence of cross-connections between such private well system and the City water system. It shall be the duty of the Superintendent of Water and Sewers, under the direction of the City Clerk, to make such inspection.

SECTION 705.540: PRIVATELY OWNED WELL—VIOLATIONS

Any person violating the provisions of this Article or any order made pursuant to the provisions of this Article shall be deemed guilty of a ordinance violation and shall be punished accordingly.

SECTION 705.550: PRIVATELY OWNED WELL—VIOLATIONS—CITY MAY PUNISH

In the event that any seal on a water meter is broken by anyone other than the designee of the Board of Aldermen or in the event that any person violates the provisions of this Article prohibiting cross-connections, the designee of the Board of Aldermen, under the direction of the City Clerk, is hereby authorized to cut off the water from such meter or order the owner or user of such private well system to forthwith cease and desist further operation thereof.

**SECTION 705.560: PRIVATELY OWNED WELL—CONDITIONS FOR RESTORING
DISCONTINUED SERVICE**

If the designee of the Board of Aldermen has cut off the water from any meter or if he/she has ordered the owner or user of any private well system to cease and desist from further operation thereof, such owner or user may not resume operation until all of the provisions of this Article are fully complied with and all fines imposed on account of any violation hereof are paid, together with such court costs as are adjudged against him/her.

CHAPTER 710: CROSS-CONNECTION CONTROL

SECTION 710.010: CROSS-CONNECTION CONTROL—GENERAL POLICY

A. *Purpose.* The purpose of this Chapter is:

1. To protect the public potable water supply from contamination or pollution by containing within the consumer's internal distribution system or private water system contaminants or pollutants which could backflow through the service connection into the public potable water supply system.
2. To promote the elimination, containment, isolation or control of existing cross-connections, actual or potential, between the public or consumer's potable water system and non-potable water systems, plumbing fixtures and industrial process systems.
3. To provide for the maintenance of a continuing program of cross-connection control which will systematically and effectively prevent the contamination or pollution of all potable water systems.

B. *Application.* This Chapter shall apply to all premises served by the public potable water system of the City of Marthasville.

C. *Policy.* This Chapter will be reasonably interpreted by the Water Purveyor. It is the Water Purveyor's intent to recognize the varying degrees of hazard and to apply the principle that the degree of protection shall be commensurate with the degree of hazard.

The Water Purveyor shall be primarily responsible for protection of the public potable water distribution system from contamination or pollution due to backflow or contaminants or pollutants through the water service connection. The cooperation of all consumers is required to implement and maintain the program to control cross-connections. The Water Purveyor and consumer are jointly responsible for preventing contamination of the water system.

If, in the judgment of the Water Purveyor or his/her authorized representative, cross-connection protection is required through either piping modification or installation of an approved backflow prevention device, due notice shall be given to the consumer. The consumer shall immediately comply by providing the required protection at his/her own expense and failure, refusal or inability on the part of the consumer to provide such protection shall constitute grounds for discontinuing water service to the premises until such protection has been provided. (Ord. No. 189 §I, 9-10-91)

SECTION 710.020: DEFINITIONS

The following terms shall have the following meanings unless otherwise defined by context:

AIR-GAP SEPARATION: The unobstructed vertical distance through the free atmosphere between the lowest opening from any pipe or faucet supplying water to a tank, plumbing fixture or other device and the overflow level rim of the receptacle and shall be at least double the diameter of the supply pipe measured vertically above the flood level rim of the vessel, but in no case less than one (1) inch.

AUXILIARY WATER SUPPLY: Any water source or system, other than the public water supply, that may be available in the building or premises.

BACKFLOW: The flow, other than the intended direction of flow, of any foreign liquids, gases or substances into the distribution system of a public water supply.

BACKFLOW PREVENTION ASSEMBLY: Any double-check valve or reduced pressure principle backflow preventer having resilient-seated shut-off valves on both the upstream and downstream end and the necessary test cocks as integral parts of the assembly.

CONSUMER: The owner or person in control of any premises supplied by or in any manner connected to a public water system.

CONTAINMENT: Protection of the public water supply by installing a backflow prevention assembly or air-gap separation on the main service line to a facility.

CONTAMINATION: An impairment of the quality of the water by sewage, process fluids or other wastes to a degree which could create an actual hazard to the public health through poisoning or through spread of disease by exposure.

CROSS-CONNECTION: Any physical link between a potable water supply and any other substance, fluid or source which makes possible contamination of the potable water supply due to the reversal of flow of the water in the piping or distribution system.

HAZARD, DEGREE OF: An evaluation of the potential risk to public health and the adverse effect of the hazard upon the potable water system.

HAZARD, HEALTH: Any condition, device or practice in the water supply system and its operation which could create or may create a danger to the health and well-being of the water consumer.

HAZARD, PLUMBING: A plumbing type cross-connection in a consumer's potable water system that has not been properly protected by a vacuum breaker, air-gap separation or backflow prevention assembly.

HAZARD, POLLUTIONAL: An actual or potential threat to the physical properties of the water system or to the potability of the public or the consumer's potable water system but which would constitute a nuisance or be aesthetically objectionable or could cause damage to the system or its appurtenances, but would not be dangerous to health.

HAZARD, SYSTEM: An actual or potential threat of severe damage to the physical properties of the public potable water system or the consumer's potable water system or of a pollution or contamination which would have a protracted effect on the quality of the potable water in the system.

INDUSTRIAL PROCESS SYSTEM: Any system containing a fluid or solution which may be chemically, biologically or otherwise contaminated or polluted in a form or concentration such as would constitute a health, system, pollutional or plumbing hazard if introduced into a potable water supply.

ISOLATION: Protection of a facility's internal plumbing system by installing a backflow prevention

assembly, air-gap separation or other backflow prevention device on an individual fixture, appurtenance or system.

POLLUTION: The presence of any foreign substance (organic, inorganic or biological) in water which tends to degrade its quality so as to constitute a hazard or impair the usefulness of the water to a degree which does not create an actual hazard to the public health, but which does adversely and unreasonably affect such waters for domestic use.

PUBLIC POTABLE WATER SYSTEM: Any publicly or privately owned water system supplying water to the general public which is satisfactory for drinking, culinary and domestic purposes and meets the requirements of the Missouri Department of Natural Resources.

SERVICE CONNECTION: The terminal end of a service line from the public water system. If a meter is installed at the end of the service, then the service connection means the downstream end of the meter.

WATER PURVEYOR: The owner, operator or individual in responsible charge of a public water system. (Ord. No. 189 App. A, 9-10-91)

SECTION 710.030: CROSS-CONNECTIONS PROHIBITED

- A. No water service connection shall be installed or maintained to any premises where actual or potential cross-connections to the public potable or consumer's water system may exist unless such actual or potential cross-connections are abated or controlled to the satisfaction of the Water Purveyor and as required by the laws and regulations of the Missouri Department of Natural Resources.
- B. No connection shall be installed or maintained whereby an auxiliary water supply may enter a public potable or consumer's water system unless such auxiliary water supply and the method of connection and use of such supply shall have been approved by the Water Purveyor and the Missouri Department of Natural Resources.
- C. No water service connection shall be installed or maintained to any premises in which the plumbing system, facilities and fixtures have not been constructed and installed using acceptable plumbing practices considered by the Water Purveyor as necessary for the protection of health and safety. (Ord. No. 189 §III, 9-10-91)

SECTION 710.040: SURVEY AND INVESTIGATIONS

- A. The consumer's premises shall be open at all reasonable times to the Water Purveyor or his/her authorized representative for the conduction of surveys and investigations of water use practices within the consumer's premises to determine whether there are actual or potential cross-connections to the consumer's water system through which contaminants or pollutants could backflow into the public potable water system.
- B. On request by the Water Purveyor or his/her authorized representative, the consumer shall furnish information on water use practices within his/her premises.

- C. It shall be the responsibility of the water consumer to conduct periodic surveys of water use practices on his/her premises to determine whether there are actual or potential cross-connections to his/her water system through which contaminants or pollutants could backflow into his/her or the public potable water system. (Ord. No. 189 §IV, 9-10-91)

SECTION 710.050: TYPE OF PROTECTION REQUIRED

The type of protection required by this Chapter shall depend on the degree of hazard which exists, as follows:

1. An approved air-gap separation shall be installed where the public potable water system maybe contaminated with substances that could cause a severe health hazard.
2. An approved air-gap separation or an approved reduced pressure principle backflow prevention assembly shall be installed where the public potable water system may be contaminated with a substance that could cause a system or health hazard.
3. An approved air-gap separation or an approved reduced pressure principle backflow prevention assembly or an approved double-check valve assembly shall be installed where the public potable water system may be polluted with substances that could cause a pollutional hazard not dangerous to health. (Ord. No. 189 §V, 9-10-91)

SECTION 710.060: WHERE PROTECTION IS REQUIRED

- A. An approved backflow prevention assembly shall be installed on each service line to a consumer's water system serving premises where, in the judgment of the Water Purveyor or the Missouri Department of Natural Resources, actual or potential hazards to the public potable water system exist. The type and degree of protection required shall be commensurate with the degree of hazard.
- B. An approved air-gap separation or reduced pressure principle backflow prevention assembly shall be installed at the service connection or within any premises where, in the judgment of the Water Purveyor or the Missouri Department of Natural Resources, the nature and extent of activities on the premises, or the materials used in connection with the activities or materials stored on the premises, would present an immediate and dangerous hazard to health should a cross-connection occur, even though such cross-connection may not exist at the time the backflow prevention device is required to be installed. This includes, but is not limited to, the following situations:
1. Premises having an auxiliary water supply, unless the quality of the auxiliary supply is acceptable to the Water Purveyor and the Missouri Department of Natural Resources.
 2. Premises having internal cross-connections that are not correctable or intricate plumbing arrangements which make it impractical to ascertain whether or not cross-connections exist.
 3. Premises where entry is restricted so that inspection for cross-connections cannot be made with sufficient frequency or at sufficiently short notice to assure the cross-connections do not exist.
 4. Premises having a repeated history of cross-connections being established or re-established.

5. Premises which, due to the nature of the enterprise therein, are subject to recurring modification or expansion.
 6. Premises on which any substance is handled under pressure so as to permit entry into the public water supply or where a cross-connection could reasonably be expected to occur. This shall include the handling of process waters and cooling waters.
 7. Premises where materials of a toxic or hazardous nature are handled such that if backsiphonage or backpressure should occur, a serious health hazard may result.
- C. The types of facilities listed in Subsection (D) of Section 710.060 fall into one (1) or more of the categories of premises where an approved air-gap separation or reduced pressure principle backflow prevention assembly is required by the Water Purveyor and the Missouri Department of Natural Resources to protect the public water supply and must be installed at these facilities unless all hazardous or potentially hazardous conditions have been eliminated or corrected by other methods to the satisfaction of the Water Purveyor and the Missouri Department of Natural Resources.
- D. *Types Of Facilities Representing Cross-Connection Hazards.*
1. Aircraft and missile manufacturing plants;
 2. Automotive plants, including those plants which manufacture motorcycles, automobiles, trucks, recreational vehicles and construction and agricultural equipment;
 3. Potable water dispensing stations which are served by a public water system;
 4. Beverage bottling plants, including dairies and breweries;
 5. Canneries, packing houses and reduction plants;
 6. Car washes;
 7. Chemical, biological and radiological laboratories including those in high schools, trade schools, colleges, universities and research institutions;
 8. Hospitals, clinics, medical buildings, autopsy facilities, morgues, mortuaries and other medical facilities;
 9. Metal or plastic manufacturing, fabrication, cleaning, plating or processing facilities;
 10. Plants manufacturing paper and paper products;
 11. Plants manufacturing, refining, compounding or processing fertilizer, film, herbicides, natural or synthetic rubber, pesticides, petroleum or petroleum products, pharmaceuticals, radiological materials or any chemical which would be a contaminant to the public water system;
 12. Commercial facilities that use herbicides, pesticides, fertilizers or any chemical which would be a contaminant to the public water system;

13. Plants processing, blending or refining animal, vegetable or mineral oils;
14. Commercial laundries and dye works;
15. Sewage, stormwater and industrial waste treatment plants and pumping stations;
16. Waterfront facilities including piers, docks, marinas and shipyards;
17. Industrial facilities which recycle water;
18. Restricted or classified facilities or other facilities closed to the supplier of water or the department;
19. Fire sprinkler systems using any chemical additives;
20. Auxiliary water systems;
21. Irrigation systems with facilities for injection of pesticides, herbicides or other chemicals or with provisions for creating back pressure;
22. Portable tanks for transporting water taken from a public water system; and
23. Facilities which have pumped or repressurized cooling or heating systems that are served by a public water system, including all boiler systems. (Ord. No. 189 §VI, 9-10-91; Ord. No. 189 App. B, 9-10-91)

SECTION 710.070: BACKFLOW PREVENTION ASSEMBLIES

- A. Any backflow prevention assembly required to protect the facilities listed in Section 710.060(D) shall be of a model or construction approved by the Water Purveyor and the Missouri Department of Natural Resources.
 1. Air-gap separation to be approved shall be at least twice the diameter of the supply pipe, measured vertically above the top rim of the vessel, but in no case less than one (1) inch.
 2. A double-check valve assembly or a reduced pressure principle backflow prevention assembly shall be approved by the Water Purveyor and shall appear on the current "list of approved backflow prevention assemblies" established by the Missouri Department of Natural Resources.
- B. Existing backflow prevention assemblies approved by the Water Purveyor at the time of installation and properly maintained shall, except for inspection and maintenance requirements, be excluded from the requirements of this Chapter so long as the Water Purveyor is assured that they will satisfactorily protect the water system. Whenever the existing assembly is moved from its present location or requires more than minimum maintenance or when the Water Purveyor finds that the maintenance constitutes a hazard to health, the unit shall be replaced by a backflow prevention assembly meeting the requirements of this Chapter. (Ord. No. 189 §VII, 9-10-91)

SECTION 710.080: INSTALLATION

- A. Backflow prevention assemblies required by this Chapter shall be installed at a location and in a manner approved by the Water Purveyor and shall be installed at the expense of the water consumer.
- B. Backflow prevention assemblies installed on the service line to the consumer's water system shall be located on the consumer's side of the water meter, as close to the meter as is reasonably practical and prior to any other connection.
- C. Backflow prevention assemblies shall be located so as to be readily accessible for maintenance and testing, protected from freezing. No reduced pressure principle backflow prevention assembly shall be located where it will be submerged or subject to flooding by any fluid. (Ord. No. 189 §VIII, 9-10-91)

SECTION 710.090: INSPECTION AND MAINTENANCE

- A. It shall be the duty of the consumer at any premises on which backflow prevention assemblies required by this Chapter are installed to have inspections, tests, and overhauls made in accordance with the following schedule or more often where inspections indicate a need.
 - 1. Air-gap separations shall be inspected at the time of installation and at least every twelve (12) months thereafter.
 - 2. Double-check valve assemblies shall be inspected and tested for tightness at the time of installation and at least every twelve (12) months thereafter.
 - 3. Reduced pressure principle backflow prevention assemblies shall be inspected and tested for tightness at the time of installation and at least every twelve (12) months thereafter.
- B. Inspections, tests and overhauls of backflow prevention assemblies shall be made at the expense of the water consumer and shall be performed by a State of Missouri certified backflow prevention assembly tester.
- C. Whenever backflow prevention assemblies required by this Chapter are found to be defective, they shall be repaired or replaced at the expense of the consumer without delay.
- D. The water consumer must maintain a complete record of each backflow prevention assembly from purchase to retirement. This shall include a comprehensive listing that includes a record of all tests, inspections and repairs. Records of inspections, tests, repairs and overhauls shall be made available to the Water Purveyor upon request.
- E. Backflow prevention assemblies shall not be by-passed, made inoperative, removed or otherwise made ineffective. (Ord. No. 189 §IX, 9-10-91)

SECTION 710.100: VIOLATIONS

- A. The Water Purveyor shall deny or discontinue, after reasonable notice to the occupants thereof, the

water service to any premises wherein any backflow prevention assembly required by this Chapter is not installed, tested and maintained in a manner acceptable to the Water Purveyor or if it is found that the backflow prevention assembly has been removed or by-passed or if an unprotected cross-connection exists on the premises.

- B. Water service to such premises shall not be restored until the consumer has corrected or eliminated such conditions or defects in conformance with this Chapter to the satisfaction of the Water Purveyor. (Ord. No. 189 §X, 9-10-91)