

CITY OF ST. CHARLES

ORDINANCE NO. 1991-M-3

AN ORDINANCE AMENDING TITLE 15,
"BUILDING AND CONSTRUCTION," CHAPTER 15.04
"BUILDING CODE" OF THE ST. CHARLES
MUNICIPAL CODE

ADOPTED BY THE

CITY COUNCIL

OF THE

CITY OF ST. CHARLES

THIS 7TH DAY OF JANUARY, 1991

PUBLISHED IN PAMPHLET FORM BY
AUTHORITY OF THE CITY COUNCIL
OF THE CITY OF ST. CHARLES,
KANE AND DU PAGE COUNTIES,
ILLINOIS, THIS 11TH DAY OF
JANUARY, 1991



CITY CLERK

(S E A L)

DATE OF PUBLICATION 11/19/91
NEWSPAPER / Sample to MC

REFER TO:
MINUTES 1-7-91
PAGE 3000

ORDINANCE NO. 1991-M-3
An ordinance amending Title 15, "Building and Construction", Chapter 15.04 "Building Code" of the St. Charles Municipal Code

Be it Ordained by the City Council of the City of St.

Charles, Kane and DuPage Counties, Illinois as follows:

- I. Title 15, "Building and Construction", Chapter 15.04 "Building Code" of the St. Charles Municipal Code be and is hereby amended by deleting Section 15.04.050 and substituting the following therefore:

"15.04.050 Plumbing Code; Adopted - Modifications.

The provisions of the 1986 Edition of the Illinois State Plumbing Code compiled by the State Department of Public Health, not less than three (3) copies of which have been and now are filed in the office of City Clerk of the City of St. Charles, Illinois for more than thirty (30) days are hereby adopted together with the special regulations listed below modifying said Illinois State Plumbing Code - 1986 Edition, as the regulations governing the installation of plumbing in and around buildings.

Amendments to the Illinois State Plumbing Code.

1. Section 890.410 - revised to read:

Section 890.410 "Sewer and/or Water Required"

Every building with an installed plumbing system and intended for human habitation or occupancy, shall have a connection to a public water and/or public sewer system when available and accessible and within two hundred (200) feet of the property line of the structure to be served or with the approval of the local administrative authority may connect to a private water well constructed to the requirements of the Illinois Water Well Construction Code (77 Illinois Administration Code 920) and a private sewage disposal system constructed to the requirements of the Illinois Private Sewage Disposal Code (77 Illinois Administration Code 905). All installations shall be in accordance with applicable State and local laws, ordinances, resolutions, rules and regulations and codes.

2. Section 890.530 - Revised "Plastic Pipe, Tubing and Fittings for Potable Water Piping See Exhibit G: Table D " to read:

Section 890.530 "Plastic Pipe, Tubing, and Fittings"
See Exhibit G: Table D.

3. Section 890.620 (e) and (m) (2)- Revised to read:

Section 890.620 "Type of Joints"

- e) Flared joints. Flared joints for soft copper water tubing shall be made with approved fittings. The tubing shall be expanded with a proper flaring tool. See Exhibit B. Illustration I.
- m) Plastic Pipe Joints.
- 2) Joints and Fittings in Plastic Pipe. Fittings and joints shall be in accordance with the manufacture's recommendations subject to the following: See Exhibit G: Table D.
- A) Polyethylene (PE) pipe shall be installed only with insert and clamp type fittings or thermal welded joints and fittings. All clamps shall be of corrosion resistant material. The inside diameter (I.D.) of any insert fitting will not be allowed to be below the minimum allowable size for water service/distribution piping. (See Exhibit G, Table H for minimum allowable sizes for water service/distribution piping).
- B) Polyvinyl chloride (PVC) pipe shall be installed with solvent welded or flanged joints only. The pipe shall not be threaded. Transition to metallic or other piping shall be made with the use of adaptor fittings. The fittings shall be molded from the same basic material as the pipe. The solvent cement used shall be specific for polyvinyl chloride piping.

C) Polybutylene (PB) pipe shall be installed only with compression type, flanged type, or thermal welded joints and fittings. All clamps shall be of corrosion resistant material. The inside diameter (I.D.) of any insert fitting shall not be less than the minimum allowable size for water service/distribution piping. (See Exhibit G, Table H and Table Q for minimum allowable sizes for water service/distribution piping).

4. Section 890.650 (b) - Revised to read:

Sections 890.650 "Unions"

b) Water Supply System. Unions in the water supply system shall be metal to metal with ground seats, except that dielectric unions may utilize durable, nontoxic impervious gaskets. Fittings between dissimilar metals must be dielectric.

5. Section 890.820 - Revised to read:

Section 890.820 "Grease Interceptors Required"

All new or altered installations serving institutions or commercial establishments in which grease, fats, culinary oils, or similar waste products from kitchens or food processing areas, or in which grease, fats, or culinary oils are wasted in connection with utensils, vat, dish, or floor cleaning processes shall install grease interceptors. All waste lines and drains carrying culinary oil, grease, or fats in the above type establishments shall be directed to one or more interceptors before connecting to the plumbing system. Whenever possible grease interceptors shall be located outside of the building and shall be accessible for maintenance purposes. See Exhibit C: Illustrations I and J.

a) Minimum Required Features:

- 1) Flow Rate. The flow rate of the interceptors shall be sufficient to handle the maximum demand of the connected system.
- 2) Material and Covers. Grease interceptors shall be constructed of durable, corrosion-resistant materials and shall have water tight covers securely fastened in place.

- b) Prohibited Discharge. No grease interceptor shall receive the discharge from a food waste grinder or a commercial dish washing machine.
 - c) Prohibited Type. Water cooled grease interceptors are prohibited.
 - d) Residential Units. A grease interceptor is not required for individual dwelling units or any private living quarters.
6. Section 890.830 (a) - Revised to read.

Section 890.830 Gasoline, Oil and Flammable Liquids, Interceptors/Separators.

Interceptors/Separators Required.

- a) Enclosed loading docks, commercial vehicle storage or repair garage and gasoline stations with grease racks or pits and all facilities which have oil and/or flammable waste shall be provided with floor drains. Floor drains provided for such areas shall be intercepted by an approved interceptor or a series of three (3) basins before discharging into the building drainage system and shall be of cast iron or equally durable materials. Each interceptor or basin shall be provided with a heavy metal cover which shall be bolted into place and made gas and water tight with a soft metal gasket. Each interceptor and, if provided with separate compartments, each compartment and basin shall be provided with a vent of not less than two (2) inches. Two or more vents may be connected to a header which shall be six (6) inches or higher than the lowest floor drain served. The vent shall extend independently to the outer air. The outlet of an interceptor or each basin shall have a seal of not less than eighteen (18) inches. The inlet of the interceptor or the first basin shall be trapped, except when floor drains are individually trapped. In areas of garages where motor fuels are dispensed or where motor vehicles are serviced, each floor drain shall be properly trapped. Floor drains above the level of the interceptor or basins shall connect to a stack extending independently to the outer air.

7. Add Section 890.1220 - Water Conservation.

- a) When applying for a permit, new fixtures shall comply with the following standards of water use:
- 1) Water closets tank type: Maximum 3.5 gallons (13.2 liters) per flush.
 - 2) Water closets flushometer: Maximum 3.0 (11.4 liters) per flush.
 - 3) Urinals, all types operated with flushometers: Maximum 1.5 gallons (5.7 liters) per flush.
 - 4) Urinals, Trough Type: Maximum 1.5 gallons (5.7 liters) per flush. The water operating the flush pipe for trough urinals shall be of the metering self closing type.
 - 5) Urinals, tank operated: prohibited.
 - 6) Lavatory faucets mixing type: Maximum 3.0 gallons (11.4 liters) per minute. Flow shall be measured with both hot and cold water supply fully open.
 - 7) Lavatory faucets, single type: Maximum 1.5 gallons (5.7 liters) per minute, measured with the valve fully opened. (Lavatory faucets installed for public use shall be of the metering self closing type.)
 - 8) Kitchen sink faucets: Maximum flow 3.0 gallons (11.4 liters) per minute.
 - 9) Bath tub filler. Maximum flow 4.0 gallons (15.1 liters) per minute.
 - 10) Shower heads. Maximum flow 3.0 gallons (11.4 liters) per minute. (Shower heads for public use are to be supplied by self closing control valves. The cycle of the valve shall not exceed 60 seconds. Water supplying each shower head shall be thermostatically controlled and the water temperature shall not exceed 105 degrees F (400).
 - 11) Laundry tub and janitor sink faucets: mixing type: Maximum flow 4.0 gallons (15.1 liters) per minutes, measured in both hot and cold water supply fully opened.
 - 12) Laundry tub and janitor sink faucets, single type: Maximum flow 2.0 gallons (7.6 liters) per minute, measured with valve fully opened.

- 13) Water softener (residential): Residential water softeners shall use no more than 75 gallons (285 liters) per generation cycle and shall be sized so as not to cycle more than three times per seven day week.
- 14) Water softeners Commercial and Industrial: Technical data including, but not limited to the following information shall be submitted to the Building Commissioner for approval. Flow rate, tank capacity, number of gallons per minute, per generation cycle, number of cycles per seven day week, etc.
- 15) Dishwashers Residential: Residential dishwashers shall not use more than 15 gallons (56.8 liters) of water per cycle.
- 16) Dishwashers Commercial: Commercial dishwashers shall use a minimum amount of water per complete cycle.
- 17) Automatic yard sprinkler systems: Automatic yard sprinkler heads shall be of the latest water conservation type.
- 18) Special fixtures: Special plumbing fixtures and/or water operated equipment serving hospitals, nursing homes, industrial, business, etc. may be exempt from water conservation requirements upon request in writing and approval of the Building Commissioner. Technical data on water including, but not limited to gallons per minute usage, amount wasted, amount recirculated, etc., shall be submitted with the request for exemption.

8. Section 890.1540 (2) (c) - Revise to read:

Section 890.1540 Protection of Potable Water.

- 2) Fire Safety System. The installation of a fire safety system involving the potable water system shall be in accordance with NFPA Standard No. 13 (1975), and the potable water supply system shall be protected against backflow or back siphonage by a minimum of a double check valve assembly. If a fire department connection is part of the fire safety system, the potable water supply system must be protected by an approved backflow device. (See Section 890.1540 (c) (1).

The installation of any fire safety system involving the potable water supply system shall be protected against backflow or back siphonage follows:

- A) A fire sprinkler that does not have a fire department hose connection, no method of supplying additives to the system, piping material that conforms with Section 890, Table D of this Part for Potable water distribution, less than five (5) sprinkler heads and a return line connecting the fire system with the potable water distribution system does not require a backflow preventer or a check valve.
- B) A fire sprinkler system that does not have a fire department hose connection, no method of supply additives to the system, piping material that conforms with Section 890, Table D of the Plumbing Code for potable water distribution, and five or more sprinkler heads shall have a single check valve and a detector check valve between the potable water supply and the sprinkler system. The fire system shall be cleaned and chlorinated before use and the fire system shall be drained and flushed at least every twelve months in the presence of a licensed plumbing inspector. The fire system shall be kept free from accumulations of sand, silt, and stagnant water which would nullify the action of chlorine content of the potable water supply.
- C) A sprinkler system or standpipe system of piping material not conforming with Section 890, Table D of the Plumbing Code for potable water distribution and does not have a fire department hose connection shall have a double check valve assembly (DCV) listed by and bearing a label or seal of a testing laboratory as listed in Section 890.1540 (c)(1) of the Plumbing Code.
- D) A reduced pressure backflow preventer (RP-BFP) listed by and bearing a label or seal of a nationally recognized testing laboratory as listed in Section 890.1540(c)(1), of the Plumbing Code shall isolate the potable water system from all fire safety systems, sprinkler, or standpipe which the fire system contains anti-freeze, water is pumped into the system from another source or there is a hose connection whereby another source can be connected to the sprinkler system.

9. Section 890.1560 (b) (2) and (d)- Revise to read.

Section 890.1560 - Water Service Pipe.

b) Potable Water Piping Sewer Crossings.

- 1) Where crossings are necessary the potable water piping shall be installed above the sewer with a minimum vertical separation of eighteen (18) inches.
- 2) Where it is necessary for the potable water piping to pass beneath a sewer, the sewer shall be ductile iron, and shall extend on each side of the crossing to a distance of not less than ten (10) feet as measured at right angles to the water line. The potable water piping shall comply with Exhibit G: Table D as specified for a water service pipe.

- d) Private Water Supply Interconnection. A private water supply shall not be interconnected with a public water supply.

10. Section 890.1720 (b) - Revise to read:

Section 890.1720 Building Drain and Sewer Installation.

- b) Drain - Filled Ground. A building drain installed in filled ground shall be ductile iron, cast iron or type K copper. Except for ductile iron and cast iron, such installation shall be laid on a continuous supporting system.

11. Section 890.1750 (b) (4) and (F)- Revise to read.

Section 890.1750 Determination of Sizes for Drainage System.

- b) Minimum Size of Building Drain, Horizontal Branch.

- 1) The minimum size of any gravity building drain shall be four (4) inches.

- 2) Pressure building drains shall not be used where gravity drains may be installed. Pressure building drains shall be sized in accordance with the ejector pump manufacturer's recommendation but shall not be less than two (2) inches in size.
 - 3) Gravity drained horizontal branches of the building drain shall be sized in accordance with Section 890. Table K.
 - 4) No portion of the drainage system installed underground or below a basement or cellar shall be less than four (4) inches in size.
- f) Minimum Size of Stack Vent. Each structure in which building drains are installed shall have one (1) stack vent not less than three (3) inches in diameter. The stack vent shall be increased by one size through the roof, but in no case shall any vent be less than four (4) inches where it passes through the roof to the outside atmosphere. See Exhibit G: Table L.
- 12) Section 890. Table D is revised as attached to this Chapter.

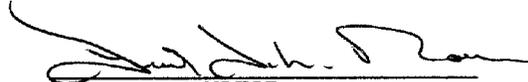
II. That after the adoption and approval hereof the Ordinance shall (A) be printed or published in book or pamphlet form, published by the authority of the City Council, or (B) within thirty (30) days after the adoption and approval hereof, be published in a newspaper in and with a general circulation within the City of St. Charles.

PRESENTED to the City Council of the City of St.
Charles, Illinois this 7th day of January, 1991.

PASSED by the City Council of the City of St.
Charles, Illinois this 7th day of January, 1991.

ORDINANCE NO. 1991-M-3 _____
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APPROVED by the Mayor of the City of St. Charles,
Illinois this 7th day of January . 1991.


MAYOR

ATTEST:


CITY CLERK

COUNCIL VOTE:

AYES: (10)
NAYS: (0)
ABSTAIN: (0)
ABSENT: (0)
HOLDING OFFICE: (10)

Section 890.TABLE D Plumbing Materials, Equipment, Use Restrictions and Applicable Standards

The listings of items in Table D are approved for usage as plumbing materials. Usage of certain items is restricted as to the use in accordance with the footnotes referenced in the table. These footnotes appear at the end of the table. Each item has limitations (per standard(s) cited) as to its use. Such limitations (standard(s)) shall be taken into consideration prior to selection and use in plumbing. Copies of standards may be obtained from the issuing organization and/or manufacturer or local distributor.

SECTION 890, TABLE D

PLUMBING MATERIAL, EQUIPMENT, USE RESTRICTIONS AND APPLICABLE STANDARDS

The listings of items in Table D are approved for usage as plumbing materials. Usage of certain items is restricted as to the use in accordance with the footnotes referenced in the table. These footnotes appear at the end of the table. Each item has limitations (per standard(s) cited) as to its use. Such limitations (standard(s)) shall be taken into consideration prior to selection and use in plumbing. Copies of standards may be obtained from the issuing organization and/or manufacturer or local distributor.

NO.	MATERIAL/EQUIPMENT	FOR RESTRICTED USE (See Footnotes as indicated)			STANDARDS FS	OTHER
		ANSI	ASTM			
FERROUS PIPE, FITTINGS & VALVES						
1	Cast Iron Drainage Fittings, Threaded	A B C D3	B16.12/1977	None	WW/P/491b/1967	None
2	Cast Iron Fittings (UPC Specials)	None	None	None	None	IAPMO PS 5/66
3	Cast Iron Screwed Fittings, Threaded	F	B16.4/1971	None	WW/P/501b/1967	None
4	Cast Iron Pipe (Threaded) DWV	A B C D3	A40.5/1973	None	WW/P/356a/1967	None
5	Cast Iron Pipe (High Silicone Content)	A C	None	A74/76	None	None
6	Cast Iron Pipe, Thickness Design of		A21.1/1967/ (R1972)	None	WW/P/421c/1967	AWWA H1/67
7	Cast Iron Soil Pipe & Fitting Extra Heavy & Service Weights/Hub Spigot	A B C D3	See ASTM	A74/30	WW/P/401e/1974	None
8	Cast Iron Water Pipe (2 inches)	E F G	C600/80	A377/79	WW/P/3601b/1968	See ASTM
9	Cast Iron Water Pipe (Cast in Metal Molds)	E F G	C600/80	A377/79	WW/P/421c/1967	AWWA C106/75
10	Cast Iron Water Pipe (Cast in Sand-Lined Molds)	E F G	C600/80	A377/79	WW/P/421c/1967	AWWA C108/75
11	Cast Iron Water Pipe Fittings	E F G	A21.10/1971	A377/79	None	AWWA C110/77
12	Cast Iron Coupling (No Hub Sanitary Systems)	A B C D	None	None	None	IAPMO PS 11/77
13	Ductile Iron Pipe	A B C D E F G	C600/80	A377/79	WW/P/421c/1967	AWWA C151/76
14	Hubless Cast Iron Sanitary System with No Hub System Fittings	A B C D	None	None	WW/P/401e/1974	CISPI 310/78
15	Malleable Iron Screwed Fittings No. 150 Galvanized	F	B16.3/1977	None	WW/P/521f/1968	None
16	Nipples, Pipe, Threaded, Galvanized	F	None	None	WW/N/3511b (1)/1970	CS/5/65
17	Pipe Fittings, Ferrous (Bushings, Plugs & Locknuts) Threaded 125 & 150lb. Galvanized	A F	B16.14/1977	None	WW/P/471b/1970	None
18	Pipe Threads, Galvanized (Except Dry Seal)	A D3 F	B2.1/1968	None	None	H28/PtII/1966
19	Steel Pipe, Stainless	F	B36.19/76	A312/80b	None	None
20	Steel, Stainless, DWV Tubes	A	None	A651/79	None	None
21	Steel Pipe Welded or Seamless (For Coiling) Black or Galvanized (For Galvanized Only)	A F	See ASTM	A53/80	WW/P/471b/1970 Int. Amend. 3/1971	None

SECTION 890.TABLE D

NO.	MATERIAL/EQUIPMENT	FOR RESTRICTED USE (See Footnotes as indicated)		STANDARDS FS	OTHER
		ANSI	ASTM		
FERROUS PIPE, FITTINGS & VALVES					
22	Steel Pipe Welded or Seamless (Black or Galvanized)	Black D3 Galvanized A D3 F	See ASTM	A120/80	WW/P/404c(1)/1962 None
23	Steel Pipe (Cement/Mortar Lining & Reinforced Cement/Mortar Coating)	E G	A21.4/1980	None	SS/P/385a(1)/1968 AWWA C104/80
24	Steel Pipe (Coal Tar Enamel or Cement Mortar Linings & Coal Tar Enamel Coated and Wrapped)	E G	See Other	None	WW/P/1432/1970 AWWA C203/78
25	Unions, Pipe, Steel or Malleable Iron	A F	None	None	WW/U/531c/1965 None WW/V/35a/1965 Int.
26	Valves, Ball	F	None	None	Amend. 2/1970 None
27	Valves, Cast Iron Gate, 125, 250lbs	E F G	A126/66	None	WW/V/581b/1971 MSS/SP/70/1970
28	Valves, Cast Iron, Swing Check	F	None	None	None MSS/SP/71/1970
NON-FERROUS PIPE FITTINGS & VALVES					
29	Brass Tube, Seamless	A	See ASTM	B135/81	WW/T/791a/1971 None
30	Brass, Red, Seamless, Standard Sizes	A B C D E F G	See ASTM	B43/80	WW/P/351a/1963 None
31	Bronze Flanges & Flanged Fittings	A B C D E F G	B16.24/1979	None	None None
32	Cast Bronze Fittings For Flared Copper Tubes	F-See 77 Ill. Adm. Code 890.640(F)	B16.26/1975	None	None None
33	Cast Bronze Solder/Joint, Pressure Fittings	E F G	B16.18/1978	None	WW/T/00725/1967 None
34	Cast Bronze Solder/Joint, Drainage Fittings	A B C D	B16.23/1976	None	None MSS/SP/74/1970
35	Copper Pipe, Seamless, Standard Sizes	A B C D E F G	See ASTM	B42/81	WW/P/377d/1962 None
36	Copper Pipe, Threadless	A B C D E F G	See ASTM	B302/81	WW/P/377d/1962 None
37	Copper Tube, Drainage DWV	D3	See ASTM	B306/81	None None
38	Copper Tube Seamless, Round, Type K L Only	F	See ASTM	B75/81	WW/T/797c/1963 None
39	Copper Tube, Water, Seamless, Types K L M For Types K&L For Type M	A B D E F G A	See ASTM	B88/81	WW/T/799d/1971 None
40	Copper & Copper Alloy Tube, Welded	A F	See ASTM	B587/80	None None
41	Glass Pipe, Fittings & Compression Couplings (Prestressed, Low Expansion, Borosilicate)	A C	See ASTM	C601/80	DD/G/541/b Chicago Bldg. Code Sec.82/21.1
42	Lead Pipe, Bends, & Traps	A C	None	None	WW/P/325a/1967 None
43	Pipe Fittings, Brass & Bronze, 125 & 250lbs, Cast or Wrought	F G	B16.15/1978	None	WW/P/460b/1967 None
44	Pipe Nipples: Brass & Copper	F G	None	None	None CS/5/65

SECTION 890.TABLE D

NO.	MATERIAL/EQUIPMENT	FOR RESTRICTED USE (See Footnotes as indicated)			STANDARDS FS	OTHER
		ANSI	ASTM			
NON-FERROUS PIPE, FITTINGS & VALVES						
45	Solder/Joint Fittings, Pressure, Copper Alloy	E F G	B16.22/1980	None	WW/T/00725/1967	None
46	Solder/Joint Fittings, Drainage Copper Alloy	A B D3	B16.29/1980	None	None	None
47	Unions, Brass or Bronze, 250lbs	F	None	None	WW/U/516a/1967	None
48	Valve, Ball, Copper Alloy	F	None	None	WW/V/35a/1965	MSS/SP/72/1970
NON-METALLIC PIPE & FITTINGS						
49	Valves, Gate, Bronze, Threaded & Flanged	F	C500/80	None	WW/V/54c/1966 Int. Amend.1/1970	AWWA C500/80
50	Valves, Check, Angle & Globe, Bronze 125lbs, Screwed, Flanged or Solder	F	None	None	WW/V/51d/1967	None
51	Asbestos Cement Non-Pressure Sewer Pipe	D1 D2	See ASTM	C428/80	SS/P/331c/1967	None
52	Asbestos, Cement Non-Pressure, Small Diameter Sewer Pipe (4 in., 5 in., 6 in.)	D1 D2	See ASTM	C644/80	None	None
53	Asbestos Cement, Perforated Underdrain Pipe	D1 D2	See ASTM	C508/78a	SS/P/340lb/1969	None
54	Asbestos Cement Pressure Pipe		C603/78	C296/78	SS/P/351c/1974	AWWA C603/78
55	Asbestos Cement Storm Drain Pipe	D1 D2	See ASTM	C663/79	None	None
56	Asbestos Cement Storm Drain Pipe	D1 D2	See ASTM	C668/79	None	None
57	Bituminized Fiber Drain & Sewer Pipe, Homogeneous Wall		See ASTM	D1861/79	SS/P/1540a/1969 Int. Amend 1/1970	None
58	Bituminized Fiber Drain & Sewer Pipe, Laminated Wall		See ASTM	D1862/77	SS/P/1540a/1969	
59	Bituminized Fiber Pipe, Perforated For Septic Tank Disposal Fields, Homogeneous Wall	For disposal field only	See ASTM	D2312/77	SS/P/1540a/1969	None
60	Bituminized Fiber Pipe, Perforated, For Septic Tank Disposal Fields, Laminated Wall	For disposal field only	See ASTM	D2313/77	SS/P/1540a/1969	None
61	Clay Drain Tile, Specifications for	See ASTM	C4/62/(75)	SS/P/1299a/1968	None	
62	Clay Drain Tile, Perforated	D1	See ASTM	C498/75	SS/P/359b/1960	None
63	Clay Pipe, Standard & Extra Strength	D1	See ASTM	C700/78a	SS/P/361E	None
64	Clay Pipe, Perforated, Standard & Extra Strength	Standard/D1 Ex Strength/D1 D2	See ASTM	C700/78a	SS/P/361E	None
65	Concrete Drain Tile	D1	See ASTM	C412M/80	SS/P/361E	None
66	Concrete Pressure Pipe, Low Head, Reinforced	D	C303/78	C361M/78	None	AWWA C303/78
67	Concrete Pipe, Perforated	D1	See ASTM	C444/80	None	None
68	Concrete Pipe (Sewer, Storm Drain & Culvert) Non-Reinforced	D1	See ASTM	C14/80	SS/P/371e/1968	None
69	Concrete Pipe, Pressure, Reinforced Concrete, Pretensioned Reinforce- ment (Steel Cylinder Type)	D1 E	None	None	SS/P/381a(1)/1969	None

SECTION 890.TABLE D

NO.	MATERIAL/EQUIPMENT	FOR RESTRICTED USE (See Footnotes as indicated)		STANDARDS FS	OTHER
		ANSI	ASTM		
FERROUS PIPE, FITTINGS & VALVES					
70	Concrete Pipe, Reinforced (Culvert, Storm Drain & Sewer)	B D1	See ASTM C76/80	SS/P/375d/1970	None
71	Acrylonitrile/Butadiene/Styrene (ABS) Plastic Pipe, Schedules 40 & 80	A D	See ASTM D1527/77	None	PS/18/69-NSF14
72	Acrylonitrile/Butadiene/Styrene (ABS) Plastic Pipe (SDR/PR & Class T)		See ASTM D2282/77	None	PS/19/69-NSF14
73	Socket-Type Acrylonitrile/Butadiene/Styrene (ABS) Plastic Pipe Fittings, Schedule 40	D	See ASTM D2468/80	None	NSF 14
74	Socket-Type Acrylonitrile/Butadiene/Styrene (ABS) Plastic Pipe Fittings Schedule 80	D	See ASTM D2469/76	None	NSF 14
75	Threaded Acrylonitrile/Butadiene/Styrene (ABS) Plastic Pipe Fittings Schedule 80		See ASTM D2465/79	None	NSF 14
76	Acrylonitrile/Butadiene/Styrene (ABS) Plastic Pipe & Fittings (Building Sewer)		See ASTM D2751/80 D2321/80	None	None
77	Acrylonitrile/Butadiene/Styrene (ABS) Plastic Drain, Waste & Vent Pipe & Fittings (Schedule 40)	A D	See ASTM D2661/78	L/P/322a/1966	CS270/75-NSF 14
78	Solvent Cement for Acrylonitrile/Butadiene/Styrene (ABS) Plastic Pipe & Fittings	ABS Only	See ASTM D2235/80	None	None
79	Polybutylene (PB) Tubing		None D2666/75	None	AWWA 902/78
80	Polybutylene (PB) Pipe/SDR I.D.Base		None D2662/78	None	NSF
81	Polybutylene (PB) Pipe/SDR O.D.Base		None D3000/73	None	NSF
82	Polybutylene (PB)		See ASTM D3309/80a	None	NSF 14
83	Polyethylene (PE) Corrugated Tubing & Fittings	D1	See ASTM F405/76b	None	None
84	Polyethylene (PE) Plastic Pipe, Schedules 40 & 80. Based on Outside Diameter		See ASTM D2447/74	None	NSF 14 PS12/69
85	Polyethylene (PE) Plastic Pipe (SDR/PR) I.D. Base		See ASTM D2239/74	L/P315a/1966 L/P/C0315b/1937	PS11/69 NSF 14
86	Butt Fusion Polyethylene (PE) Plastic Pipe Fittings, Sched. 40		See ASTM D3261/78	None	None
87	Butt Fusion Polyethylene (PE) Plastic Pipe Fittings, Sched.80		See ASTM D3261/78	None	None
88	Socket Fusion, Polyethylene (PE), Plastic Pipe Fittings, SDR 11		None D2683/80	None	NSF
89	Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe		See ASTM D3350/80	L/F/001546/1968	NSF 14
90	Polyethylene (PE) Plastic Tubing		None D2737/74	None	NSF 14
91	Polypropylene (DWV)	Recommended for Chemical use only	D/2146		

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NO.	MATERIAL/EQUIPMENT	FOR RESTRICTED USE (See Footnotes as indicated)		STANDARDS FS	OTHER
		ANSI	ASTM		
FERROUS PIPE, FITTINGS & VALVES					
92	Chlorinated (Polyvinyl Chloride) (PVC) Pipe, Tubings & Fittings		See ASTM D2846/80	None	NSF 14
93	Polyvinyl Chloride (PVC) Plastic Pipe Sched. 40, 80 and 120	A B	See ASTM D1785/76	None	PS21/70 NSF 14
94	Polyvinyl Chloride (PVC) (DWV) Single Family Residence Only	A	See ASTM D2949/78	None	None
95	Polyvinyl Chloride (PVC) Pipe & Fittings	D1	See ASTM D2729/80	None	NSF
96	Polyvinyl Chloride (PVC) Tubing		See ASTM D2740/80	None	NSF
97	Polyvinyl Chloride (PVC) Plastic Pipe SDR/PR		See ASTM D2241/80	None	NSF
98	Socket Type Polyvinyl Chloride (PVC) Plastic Pipe Fittings, Sched. 40		See ASTM D2466/78	None	NSF 14
99	Socket Type Polyvinyl Chloride (PVC) Plastic Pipe Fittings, Sched. 80		See ASTM D2467/76a	None	NSF 14
100	Solvent Cements for Polyvinyl Chloride (PVC) Plastic Pipe & Fittings	E PVC Only	See ASTM D/2564/80	None	None
101	Threaded Polyvinyl Chloride (PVC) Plastic Pipe Fittings, Sched. 80		See ASTM D2464/76	None	NSF 14
102	Bell/End Polyvinyl Chloride (PVC) Pipe		B72.20/1971 D2672/80	None	None
103	Polyvinyl Chloride (PVC) Plastic Line Couplings, Socket Type		See ASTM D3036/73	None	NSF
104	Polyvinyl Chloride (PVC) Plastic Drain, Waste, & Vent Pipe & Fittings	A	See ASTM D2665/78	L/P320a/1966	NSF 14
105	Type PSP Polyvinyl Chloride (PVC) Sewer Pipe & Fittings (Bldg Sewer)		See ASTM D3033/80 D2321/80	None	None
106	Type PSM PVC Sewer Pipe & Fittings (Building Sewer)		See ASTM D2321/80 D3034/80	None	None
107	Styrene/Rubber Plastic Drain Pipe & Fittings		See ASTM D2852/77	None	None
108	Solvent Cement for Styrene Rubber Plastic Pipe & Fittings	Applies to 107 only	See ASTM D3122/80	None	None
109	Elastomeric Seal for PVC	B	See ASTM D3212/76	None	None
PIPE JOINTING MATERIALS, GASKETS AND SUPPORTS					
110	Caulking, Lead Wood & Pig Lead		See ASTM B29/79	QQ/C/40(2)/1970	None
111	Compression Joints for Vitrified Clay Bell & Spigot Pipe	B D1	See ASTM C425/77	None	None
112	Compression Joints for Vitrified Clay Plan/End Pipe	B D1	See ASTM C425/77	None	None

NO.	MATERIAL/EQUIPMENT	FOR RESTRICTED USE (See Footnotes as indicated)			
		ANSI	ASTM	STANDARDS FS	OTHER
FERROUS PIPE, FITTINGS & VALVES					
113	Flexible Elastomeric Joints Pressure/Non-Pressure	See ASTM	D3139/77 D3212/76	None TT/P/001536/(1968) Revision of HHC	None
114	Fixture Setting Compound	None	None	536a/1954	None
115	Non-Metallic Gaskets for Pipe Flanges	B16.21/1978	None	None	None
116	Rubber Gaskets for Cast Iron Soil Pipe & Fittings	None	C564/76	None	None
117	Rubber Gasket Joints for Cast Iron Pressure Pipe & Fittings	See Other	None	None	AWWA C111/80
118	Rubber Gaskets, Molded or Extruded for Concrete Non-Pressure Sewer Pipe	None	C443M/80	HH/G/160b/1968	None
119	Rubber Rings for Asbestos Cement Pipe	See ASTM	D1869/78	None	None
120	Rubber Gaskets, Sheet	See ASTM	D1330/78	None	None
121	Sealing Compound, Performed Plastic for Expansion Joints & Pipe Joints	None	None	SS/S/00210/(1965)	None
122	Sealing Compound, Sewer Bituminous, Two/Component, Mineral Filled, Cold Applied	None	None	SS/S/168(2)/1962	None
123	Pipe Hangers, Supports & Anchors	None	None	WW/H/171d/1970	None
PLUMBING APPLIANCES & APPURTENANCES					
124	Dishwashing Machines, Commercial	ANSIUL921/80	None	SS/S/168(2)/1962	ASSE/1004
125	Dishwashing Machines, Household	ANSI1006/80	None	OO/D/431c(2)/1970	UL749/1971
126	Drinking Water Coolers, Self- Contained Mechanically Refrigerated	A112.11.1/73 UL 207/75	None	None	ARI/1010/73 UL430/1970
127	Food Waste Disposal Units, Household	ANSI1008/80	None	None	ASSE/1008
128	Food Waste Disposal Units, Commercial	ANSIUL430/79	None	None	ASSE/1009 UL560/1972
129	Home Laundry Equipment	ANSI1007/80	None	None	ASSE/1007
130	Tanks for Domestic Use, Porcelain Enamel	A112.19.4/77	None	None	CS115/60
131	Hot Water Dispenser, Household, Electric Storage	A1023/79	None	None	Sec ANSI
132	Water Heaters, Automatic Storage Type	Z21.10.1/74	None	None	None
133	Water Heaters, Circulating Tank	Z21.10/3/74	None	None	None
134	Water Heaters, Electric/Automatic	C72/1	None		W/H/1961.1/71
135	Water Heater Drain Valves 3-4 in.	None	None	None	ASSE/1005
136	Water Heater, Electric Storage Tank	None	None	W/H/196h/1971	UL174/1972
137	Water Heater, Instantaneous	None	None	WW/H/191b/1970	None

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NO.	MATERIAL/EQUIPMENT	FOR RESTRICTED USE (See Footnotes as indicated)			STANDARDS FS	OTHER
		ANSI	ASTM			
FERROUS PIPE, FITTINGS & VALVES						
138	Water Heater, Gas, Automatic	75,000 BTU per hour or less	Z21.10.1/74	None	None	None
PLUMBING FIXTURES AND APPURTENANCES						
139	Accessories for Plumbing Fixtures		None	None	WW/P/541-8a/1974	None
140	Bathtubs		A112.19.1/73	None	WW/P/541-3a/1971	None
141	Bathtub Units, Gel/Coated, Glass/ Fiber Reinforced Polyester Resin		A124.1.1974	None	WW/P/541-3a/1971	None
142	Drinking Fountains		A112.11.1/73	None	WW/P/541-6a/1971	None
143	Fittings, Plumbing Fixtures, Finished & Rough Brass		A112.18.1M/79 A112.21.1/68	None	WW/P/541-ALL/1971	None
144	Floor Drains		R1974	None	None	None
145	Lavatories		None	None	WW/P/541-4a/1971	None
146	Lavatory, Cultured Marble		None	None	None	IAPMOPS18/66
147	Plumbing Fixture, General Specification		None	None	WW/P/541-GEN/1971	None
148	Plumbing Fixtures, Enameled Cast Iron		A112.19.1M/79	None	WW/P/541-3a&5a/71	CS 77/63
149	Plumbing Fixtures, Stainless Steel		A112.19.3-76	None	None	CS 243-62
150	Plumbing Fixtures, Staple Vitreous China		A112.19.2/73	None	WW/P/541-1a,2a,4a &6a/1971	CS 20/63
151	Plumbing Fixtures, Plastic		Z/124.4/80 Tubs Show. 124.1 124.2 Lav. Stool 124.3 124.4	None	None	None
152	Plumbing Fixtures, Aluminum		None	None	FS/6a/71	None
153	Shower Baths, Heads & Water Control Valves		A1016/79	None	WW/P/541-7b/1974	See ANSI
154	Shower Receptors, Shower Enclosures & Metallic Bathtubs, Prefabricated		None	None	None	IAPMOPS11/39
155	Shower Receptor & Shower Stall Units Gel Coated, Glass Fiber Reinforced Polyester Resin		Z124.2/1980	None	None	None
156	Sinks, Kitchen & Service & Laundry Tub		A112.19.1/73	None	WW/P/541-5a/1971	None
157	Supports for Off-the-Floor Plumbing Fixtures for Public Use		A112.8.1/79	None	None	None
158	Urinals		A112.19.5/79	None	WW/P/541-2a/1971	None
159	Ballcock, W.C. Flush Tank		None	None	None	ASSE/1002
BACKFLOW PREVENTERS						
160	Vacuum Breakers, Anti-Siphon		A112.1.1/71	None	None	ASSE/1001
161	Vacuum Breakers, Hose Connection		None	None	None	ASSE/1011

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NO.	MATERIAL/EQUIPMENT	FOR RESTRICTED USE (See Footnotes as indicated)			
		ANSI	ASTM	STANDARDS FS	OTHER
FERROUS PIPE, FITTINGS & VALVES					
162	Double Check with Atmosphere Vent	None	None	None	ASSE/1012
163	Reduced Pressure Zone Device	None	None	None	ASSE/1013
164	Double Check Valve Assembly	None	None	None	ASSE/1015
165	Vacuum Breakers, Pressure Type	None	None	None	ASSE/1020
166	Silcocks, Frost Proof, Anti-Siphon, Self-Draining	None A112.1.2/42	None	None	ASSE/1019/78
MISCELLANEOUS					
167	Air Gap Standards	(R1979)	None	None	None
168	Arrestors, Water Hammer	A203/78	None	None	ASSE/1010/67
169	Enamel, Coal/Tar (Protective Coating)	None	None	None	AWWA/C203/78
170	Coating, Pipe, Thermoplastic Resin or Thermosetting, Epoxy	None	None	L/C/530B/1970	None
171	Connector, Water, Flexible Copper	None	None		PS/14/73
172	Clamps, Hose	None	None	WW/C/440B9a/1969	None
173	Copper, Sheet & Strip for Bldg. Construction	None	B270	None	None
174	Clay Pipe, Installation	A106.2/1972	C12/77	None	None
175	Clay Pipe, Testing	A106.5/1972	C301/79	None	None
176	Drain for Prefabricated & Precast Showers	None	None	None	IAPM0 PS4/68
177	Drain, Roof	A112.21.2/71	None	None	None PDI G 101
178	Interceptors, Grease	None	None	None	IAPM0 PS13/66
179	Lead, Sheet, Grade A	None	None	QQ/L/201f(2)/1970	None
180	Plugs, Brass Cleanout	None	None	None	CS 188-66
181	Relief Valves, Automatic	Z21.22/1974	None	None	AGA approved
182	Reducing Valves, Water Pressure for Domestic Water Supply System	A1003 & 1003.1/70	None	None	See ANSI
183	Solder, Soft	Min. of 95.5	None	None	QQ/S/571d/1963
184	Tape, Pipe Coating, Pressure Sensitive Polyethylene	None	None	L/T/0075(1)/1966	None
185	Tee, Diversion & Twin Waste Elbow	None	None	None	IAPM0 PS/9/66
186	Valve, Backwater	A112.14.1/75	None	None	IAPM0 PS58/66
187	Valve, Drain, Water Heater 3/4 in.	None	None	None	ASSE/1005
188	Valve, Shower, Anti-Scald Type	None	None	None	ASSE/1016/79
189	Trap Seal Primer Valve	None	None	None	ASSE/1018/78

SECTION 890.TABLE D

FOOTNOTES:

- A. Drain, Waste and Vent System above ground or basement inside a building.
- B. Drainage System below ground outside a building (building sewer).
- C. Drain, Waste and Vent System Below ground or basement inside a building (building drain).
- D. Underground Storm and Sub-soil Drain System (inside and outside building).
 - 1. Outside underground
 - 2. Inside underground
 - 3. Above ground
- E. Water Service Pipe
- F. Water Distribution System above ground or basement
- G. Water Distribution System below ground or basement.
- H. Cold Water Distribution System only for above and below ground or basement.
Minimum pressure rating 160 psi at 73.4°F.

NOTE: All water service and water distribution piping above and below ground shall be 160 psi minimum at 73.4°F.

STATE OF ILLINOIS)
)
COUNTIES OF KANE AND DU PAGE) SS.

C E R T I F I C A T E

I, Jean M. Connors, certify that I am the duly elected and acting municipal clerk of the City of St. Charles, Kane and DuPage Counties, Illinois.

I further certify that on January 7, 1991 the Corporate Authorities of such municipality passed and approved Ordinance No. 1991-M-3, entitled AN ORDINANCE AMENDING TITLE 15, "BUILDING & CONSTRUCTION," CHAPTER 15.04 "BUILDING CODE" OF THE ST. CHARLES MUNICIPAL CODE

which provided by its terms that it should be published in pamphlet form.

The pamphlet form of Ordinance No. 1991-M-3, including the Ordinance and a cover sheet thereof was prepared, and a copy of such Ordinance was posted in the municipal building, commencing on January 11, 1991, and continuing for at least ten days thereafter. Copies of such Ordinance were also available for public inspection upon request in the office of the municipal clerk.

January DATED at St. Charles, Illinois, this 9th day of January, 1991.

Jean M. Connors
Municipal Clerk

(S E A L)