

**AN ORDINANCE TO ADOPT A PLUMBING CODE  
FOR THE CITY OF MOBILE, ALABAMA**

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF MOBILE,  
ALABAMA, AS FOLLOWS:

**SECTION ONE:** That, pursuant to Alabama Code Section 11-44-8 (1975), the 2000 International Plumbing Code, along with the amendments to the same contained in this Ordinance, has been on file in the office of the City Clerk of the City of Mobile, Alabama, pursuant to a resolution adopted by the City Council of the City of Mobile, Alabama on May 15, 2001, is hereby adopted as the “Plumbing Code of the City of Mobile.”

**SECTION TWO:** A copy of this Ordinance shall be published pursuant and according to law, after its adoption, but it shall not be necessary for the said Plumbing Code to be published in a newspaper, nor shall the same be spread at length upon the minutes of this Council, but this Ordinance shall be recorded in said minutes.

**SECTION THREE:** The said Plumbing Code shall be in full force and effect on and after the 12th day of June, 2001, and all ordinances heretofore adopted by the City of Mobile in conflict are hereby repealed.

**SECTION FOUR:** Chapter 1 of the 2000 International Plumbing Code shall be amended as follows:

**Change Section 101 General to read as follows:**

**101.1 Title.** These regulations shall be known as the International Plumbing Code of the City of Mobile herein after referred to as, “this code.”

**101.2 Scope.** The provisions of this code shall apply to the erection, installation, alteration, repairs, relocation, replacement, addition to, use or maintenance of plumbing systems within this jurisdiction.

**Change Section 102 Applicability to read as follows:**

**102.6 Historic buildings.** The provisions of this code relating to the construction, alteration, repair, enlargement, restoration, relocation or moving of buildings or structures shall not be mandatory for existing buildings or structures identified and classified by the state or local jurisdiction as historic buildings, including those listed on the National Register of Historic Places or eligible for listing on the National Register of Historic Places, when such buildings or structures are judged by the Code Official to be safe and in the public interest of health, safety and welfare regarding any proposed construction, alteration, repair, enlargement, restoration, relocation or moving of buildings.

**102.7 Moved buildings.** Plumbing systems that are part of buildings or structures moved into, or moved within, the jurisdiction shall comply with the provisions of this code for new installations.

**Change Section 106 Permits to read as follows:**

**106.4 By whom application is made.** Application for a permit shall be made by the person or agent to install all or part of any plumbing system. The applicant shall meet all qualifications established by statute, or by rules promulgated, by this code, or by ordinance, or by resolution. The full name and address of the applicant shall be stated in the application. An Alabama Master Plumbing License and Business License shall be required, except for home - owners personally doing work on the residence they occupy. All others must be duly registered, licensed plumbers with the City of Mobile.

**106.4.1 For the Purposes of Water Heater Installations Only.** A Master gas fitter may purchase the permit for water heater installation as long as his gas fitter qualifications match 106.7 for plumbers.

**106.5 Permit issuance.** The application, construction documents and other data filed by an applicant for permit shall be reviewed by the code official or his designated representative. If the proposed work conforms to the requirements of this code and all laws and ordinances applicable there to, the application has been signed by a licensed master plumber, the street address of the location is included, and applicable fees have been paid, a permit shall be issued to the applicant. If the application does not conform to the requirements a permit shall not be issued, and the application with reason for refusal shall be returned to the applicant. The code official may also refuse to issue permits to any individual who has failed to arrange for necessary inspections, as required by the code, on previous permits.

**106.5.3 Expiration.** Every permit issued by the code official under the provisions of this code shall expire by limitation and become null and void if the work authorized by such permit is not commenced within 180 days from the date of such permit, or if the work authorized by such permit is suspended or abandoned at anytime after the work is commenced for a period of 180 days. Before such work can be re-commenced, a new permit shall be first obtained and the fee therefore shall be the full amount required for such work, provided no changes have been made or will be made in the original construction documents for such work, and provided further that such suspension or abandonment has not exceeded one year. Such permit shall expire by limitation and become null and void one year from date of issue or date of last inspection. Before such work can be re-commenced, a new permit shall be first obtained and the fee therefore shall be the full amount required for such work.

**106.5.4 Extensions.** Any permittee holding an unexpired permit shall have the right to apply for an extension of the time within which the permittee will commence work under that permit when work is unable to be commenced within the time required by this section for good and satisfactory reasons. The code official shall extend the time for action by the permittee for a period not exceeding 180 days if there is reasonable cause.

**106.6.2 Fee Schedule.** On all plumbing installations requiring a plumbing permit, a fee for each plumbing permit shall be paid as required at the time of filing the application, in accordance with the following schedule:

Computer usage fee	\$ 1.00
For issuance of a permit	10.00
Each fixture unit	5.00
Additional fixtures	5.00
Sewer (new, extension or replacement)	5.00
Water Service	5.00
Installation, alteration or repair of water	
Piping and/or water treating equipment	
Except in public right-of-way	5.00
Each inspection will be	5.00
Each additional inspection (after permit issuance)	7.00
Filled septic tank inspection	5.00
Re-inspection Fees	25.00
Weekend, after hours inspections	50.00 First hour
	25.00 each addit. Hr.
Swimming pool, irrigation meter, fill inspection	20.00
Manufactured Building Act #81-706, Section V(8)	
Installation permit (this does not include	
Plumbing site work)	50.00

NOTE: A separate permit shall be required for each building or tenant unit for shell buildings.

\*All roof drain and conductor pipes must be marked on permit.

\*All additional fixtures and inspections must be paid before release to Water Board or letter of inspection is issued.

All commercial permits must be approved by the Plumbing Official or his representative.

**106.6.3 Fee Refunds.** The amount to be specified in notes 2 and 3 will be 80%.

**106.6.4. Registration Fees.**

Master	\$30.00
Journeyman	20.00
Apprentice	10.00

**106.6.5 Contractor Responsibilities.** Before any person, firm, or corporation shall engage in the plumbing business, he/she shall be qualified as set forth herein, and a license shall

be obtained from the City, County, or State as required, and a proper bond posted. Where any plumbing work is being done, a Master or Journeyman Plumber shall at all times be present on the job and in actual control and in charge of the work being done. All plumbers shall be duly registered with the City of Mobile. A Master or Journeyman Plumber need not be present at the time of the inspection except in the case of the sewer inspection.

**106.6.6 Contractor License.** It shall be the duty of every contractor who shall make contracts for the installation or repair of plumbing systems for which a permit is required and every contractor making such contracts and subletting the same, or any part thereof, to pay a license tax as provided in the general license ordinance, and to register his name in a book provided for that purpose, with the Building Official, giving full name, residence, and place of business, and, in case of removal from one place to another to have made corresponding change in said register accordingly; and before a person, firm or corporation shall engage in the business of plumbing, he/she, it, or they shall deposit with the local governing body a good and sufficient bond of surety from a company qualified to do business in the State of Alabama in the sum of Ten Thousand and No/100 (\$10,000.00) Dollars, in the form to be approved by the City Attorney conditioned that the person, firm, or corporation engaged in the plumbing business will faithfully observe all the laws pertaining to plumbing, drain laying, and excavation; further, that the local governing body shall be indemnified and saved harmless from all claims arising from accidents and damage of any character whatsoever caused by the negligence of such person, firm, or corporation engaged in the plumbing business or by any other unfaithful, inadequate work done either by themselves or their agents or employees.

**106.8 Contractor vehicular signs.** All trucks and similar vehicles used by plumbing contractors shall have signs on the body on both sides of same, displaying the full name, address and telephone number of the firm to which it belongs. Lettering may be any color in contrast to the color of the body, but letters must be at least one and one-half inches high on firm's name.

**Amend Section 107 as follows:**

**Add to 107.1 Required inspections and testing the following:**

4. Building sewer inspection shall be made after piping is installed, and before any back fill is put in place.
5. Water service inspection shall be made after piping, valves, and back flow preventors are installed, and before any back fill is put in place.

**Amend Section 108 as follows:**

**Change Section 108.4 Violation to read as follows:**

**108.4 Violation penalties.** Any person who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter or repair plumbing work in violation of the approved construction documents or directive of the Plumbing Official, or of a permit or certificate issued under the provisions of this code, shall be guilty of a misdemeanor punishable by a fine of not more than [AMOUNT] dollars or by imprisonment not

~~exceeding [NUMBER OF DAYS], or both such fine and imprisonment in accordance with Chapter 1 of the Mobile City Code.~~ Each day that a violation continues after due notice has been served shall be deemed a separate offense.

**Change Section 108.5 Stop work orders as follows:**

**108.5 Stop work orders.** Upon notice from the code official, work on any plumbing system that is being done contrary to the provisions of this code or in a dangerous or unsafe manner shall immediately cease. Such notice shall be in writing and shall be given to the owner of the property, or to the owner's agent, or to the person doing the work. The notice shall state the conditions under which work is authorized to resume. Where an emergency exists, the code official shall not be required to give a written notice prior to stopping the work. Any person who shall continue any work in or about the structure after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable of a violation penalty in accordance with Section 108.4.

**Amend Section 109 as follows:**

**Change Section 109.1.1 Time limitations for appeals as follows:**

**109.1.1 Time limitations for appeals.** All appeals must be submitted within thirty (30) days of inspection or notification of denial.

*Chapter 2* shall be amended as follows:

**Change Section 202 General Definitions** to read as follows:

**GREASE INTERCEPTOR.** A passive interceptor having a rated flow of 50gpm (189L/m) or less and that is located inside the building.

**GREASE TRAP.** A passive interceptor having a rated flow exceeding 50gpm (189L/m) and that is located outside the building.

**INDIVIDUAL SEWAGE DISPOSAL SYSTEM.** A system of piping, treatment devices, pumps, alarms, or other facilities or devices that convey, store, treat, or dispose of sewage on the property where it originates, or an adjacent or near by property under the legal ownership or legal easement in perpetuity of the same responsible person, where public sewer is not available.

**POTABLE WATER.** Water free from impurities present in amounts sufficient to cause disease or harmful physiological effects and conforming to the bacteriological and chemical quality requirements of the Alabama Department of Environmental Management (ADEM) drinking water standards.

**SECTION FIVE:** Chapter 2 of the 2000 International Plumbing Code shall be amended as follows:

**Amend Chapter 2 – Sewer Definitions to read as follows:**

**Sanitary Sewer.** Beginning three feet from the building or at the exit of the grinder pump, a sewer that carries sewage and excludes storm, surface and ground water.

**SECTION SIX:** Chapter 3 of the 2000 International Plumbing Code shall be amended as follows:

**Add the following to Section 301 General:**

**301.7 Basic Principles.** The basic principles of this code are enunciated as basic goals in environmental sanitation worthy of accomplishment through properly designed, acceptably installed, and adequately maintained plumbing systems. Some of the details of plumbing construction must vary, but the basic sanitary and safety principles are the same. The principles may serve to define the intent.

**301.7.1 Principle No. 1.** All buildings, structures and premises intended for human habitation, occupancy, use for employment, or the preparation or processing of food, drinks or other materials for human consumption shall be provided with an adequate, safe, and potable water supply through a safe system of piping to all fixtures, appliances, appurtenances, etc.

**301.7.2 Principle No. 2.** Every building having plumbing fixtures installed and intended for human habitation, occupancy, or use on premises abutting on a street, alley, or easement in which there is a public sewer shall have a separate connection with the sewer.

**301.7.3 Principle No. 3.** A dwelling type building provided with a drainage system, a public sewer connection or a private sewage disposal system, shall have at least one water closet, one bathtub or shower, one lavatory, one kitchen-type sink, and an adequate source of hot water for each family unit to meet minimum basic requirements for health, sanitation, and personal hygiene. Water heating facilities shall be accessible for emergency maintenance without entering any individual apartment or living unit, except that water heaters may be located within an apartment or living unit when supplying hot water to that unit only. All other buildings, structures, or premises intended for human occupancy or use shall be provided with adequate sanitary facilities, as may be required, but not less than one water closet and one hand-washing lavatory.

**301.7.4 Principle No. 4.** Plumbing fixtures shall be made of smooth non-absorbent material, shall be free from concealed fouling surfaces, and shall be located in ventilated enclosures.

**301.7.5 Principle No. 5.** Each fixture directly connected to the drainage system shall be equipped with a water-seal trap.

**301.7.6 Principle No. 6.** No substance, which will clog the pipes, produce explosive mixtures, destroy the pipes or their joints, or interfere unduly with the sewage disposal process, shall be allowed to enter the building drainage system.

**301.7.7 Principle No. 7.** Proper protections shall be provided to prevent contamination of food, water, sterile goods, and similar materials by backflow of sewage. When necessary, the fixture, device or appliance shall be connected indirectly with the building drainage system.

**301.7.8 Principle No. 8.** No water closet shall be located in a room or compartment which is not properly lighted and ventilated.

**301.7.9 Principle No. 9.** If water closets or other plumbing fixtures are installed in buildings where there is no sewer within a reasonable distance, suitable provision shall be made for disposing of the building sewage by some accepted method of sewage treatment and disposal.

**301.7.10 Principle No. 10.** Where a plumbing drainage system may be subject to backflow of sewage, suitable provisions shall be made to prevent its overflow in the building.

**301.7.11 Principle No. 11.** Plumbing shall be installed with due regard to preservation of the strength of structural members and prevention of damage to walls and other surfaces through fixture usage.

**301.7.12 Principle No. 12.** Sewage or other waste from a plumbing system, which may be deleterious to surface or subsurface waters, shall not be discharged into the ground or into any waterway unless it has first been rendered innocuous through subjection to some acceptable form of treatment.

**301.7.13 Principle No. 13.** All plumbing fixtures, devices, appliances, and appurtenances shall be adequately supplied with water in sufficient volume and pressure to enable them to function properly.

**301.7.14 Principle No. 14.** The pipes conveying water to plumbing fixtures, appliances, devices and appurtenances shall be of sufficient size as to supply water at rates that will prevent undue pressure drops at any one fixture, when any other fixture, appliance, device or appurtenance, or group, is being flushed, operated or used.

**301.7.15 Principle No. 15.** There shall be no direct or indirect cross connections, either existing or potential, between a safe potable water supply and an unsafe, nonpotable supply. No private water well shall be connected by any means to the public water supply.

**301.7.16 Principle No. 16.** Adequate protection shall be provided to prevent possible backflow or back siphonage of an unsafe or potentially hazardous fluid or material into a safe water system.

**301.7.17 Principle No. 17.** The piping and connections of the plumbing system shall be of durable materials, free from defects in workmanship and materials, and systems shall be

designed and constructed to provide adequate service for a reasonable life under stresses imposed by structural loading temperature variation and other conditions.

**301.7.18 Principle No. 18.** Devices for heating and storing water shall be designed and installed to prevent all danger from overheating and explosion and to prevent undue flow of hot water or steam into the cold water supply pipes.

**301.7.19 Principle No. 19.** Refrigerators, coolers, receptacles, sterilizers, vats, and similar equipment used for storing or holding foods, beverages, sterile goods, and water conditioning equipment, etc., shall discharge into the building drainage system through an indirect waste.

**301.7.20 Principle No. 20.** Water closets, bathtubs, showers, urinals, and similar fixtures shall be suitably enclosed and screened for privacy.

**301.7.2 Principle No. 21.** Plumbing systems, including fixtures, shall be maintained in sanitary conditions and proper working order.

**301.7.22 Principle No. 22.** Sewage and wastes from plumbing and drainage systems shall be adequately treated and disposed of in accordance with the requirements of the Code Official.

**Change Section 305 Protection of pipes and plumbing system components to read as follows:**

**305.6.1 Sewer depth.** Building sewers that connect to private sewage disposal systems shall be a minimum of schedule 40 and have a minimum of 12" inches (305mm) cover at the point of grease trap or septic tank connection. Building sewers, less than schedule 40, that connect to public sewage systems shall have a minimum of 18" inches (458mm) cover, and shall not be placed under driveways or parking lots.

**Change Section 312 Tests and inspections to read as follows:**

**312.2 Drainage and vent water test.** A water test shall be applied to the drainage system either in its entirety or in sections. If applied to the entire system, all openings in the piping shall be tightly closed, except the highest opening, and the system shall be filled with water to a point of overflow. If the system is tested in sections, each opening shall be tightly plugged except the highest openings of the section under test, and each section shall be filled with water, but no section shall be tested with less than 5' foot (1524mm) head of water. In testing successive sections, at least the upper 5' feet (1524mm) of the next preceding section shall be tested so that no joint or pipe in the building, except the uppermost 5' feet (1524mm) of the system shall have been submitted to a test of less than a 5' foot (1524mm) head of water. The water shall be kept in the system, or in the portion under test, for at least 15 minutes before inspection starts. The system shall then be tight at all points.

**312.6 Gravity sewer test.** Gravity sewer tests shall consist of plugging the end of the building sewer at the point of connection with the public sewer, filling the building sewer with

water, testing with not less than a 5 – foot (1524mm) head of water and maintaining such pressure for 15 minutes.

**Delete Section 312.8 Storm drainage system test, in its entirety.**

**Delete Section 312.9 Inspection and testing of back flow prevention assemblies, in its entirety.**

**Delete Section 313 Equipment efficiencies, in its entirety.**

**Change Section 314 Condensation disposal to read as follows:**

**314.2.1 Condensation disposal.** Condensation from all cooling coils and evaporators shall be conveyed from the drip pan outlet to an approved place of disposal. Condensate shall not discharge into a street or alley or ditch, onto the surface of the ground, or other area so as to cause a nuisance, nor into a private sewage disposal system.

**SECTION SEVEN:** Chapter 4 of the 2000 International Plumbing Code shall be amended as follows:

**Add to Section 401 General:**

**401.2.1 Condemned equipment.** All plumbing equipment condemned by the Code Official because of wear, damage, defects or sanitary hazards shall not be reused.

**401.2.2 Abandoned equipment.** All septic tanks and cess pools shall be pumped and filled, by the permit holder, when connecting to an existing public sewer system.

**Change Section 403 Minimum plumbing facilities to read as follows:**

**403.4 Location of employee toilet facilities in occupancies other than assembly or mercantile. Delete exception.**

**Add the following to Section 403. 5 Location of employee toilet facilities in mercantile and assembly occupancies:**

**403.5.1 Prohibited location** Toilet facilities shall not open directly into a food preparation area.

**Add to Section 403.6 Public facilities:**

**403.6.3 Prohibited location** In restaurants, night clubs, and other food establishments, public facilities shall not be located in employee areas. Public facilities shall be accessible by customers, patrons, and visitors without going behind counters/bars, or through food preparation areas.

**Change Section 404 Accessible plumbing facilities to read as follows:**

**404.2.2.1 Unisex toilet rooms. Delete exception.**

**Change Section 406 Automatic clothes washers to read as follows:**

**406.2 Water connection. Delete.**

**406.3 Waste connection.** The waste from an automatic clothes washer shall discharge through an air-break into a stand pipe in accordance with Section 802.4.

**Change Section 409 Dishwashing machines to read as follows:**

**409.2 Water connection.** The water supply to a commercial dishwashing machine shall be protected against back flow by an air gap or back flow preventer in accordance with Section 608.

**Change Section 410 Drinking fountains to read as follows:**

**410.1 Approval.** Drinking fountains shall conform to ASME A112.19.1, ASME A112.19.2, or ASME A112.19.9, and water coolers shall conform to ARI 1010. Where water is served in restaurants or where bottled water coolers are provided in other occupancies, at no cost to the public, drinking fountains shall not be required.

**Change Section 412 Floor drains to read as follows:**

**Add 412.5 Restrooms.** In restrooms with urinals, other than residential, floor drains shall be provided in accordance with 412.1, 412.2, and 412.3, and floors shall be sloped to the drain.

**Change Section 419 Urinals to read as follows:**

**Add 419.4 Additional requirements.** See Section 412 for additional requirements involved with use of urinals.

**Change Section 426 Manual food and beverage dispensing equipment to read as follows:**

**Add 426.2 Waste drains.** Waste drains for manual food and beverage dispensing equipment shall discharge to the grease trap.

**SECTION EIGHT:** Chapter 5 of the 2000 International Plumbing Code shall be amended as follows:

**Change Section 501 General to read as follows:**

**501.4 Location.** Water heaters and storage tanks shall be located and connected so as to provide ready access for observation, maintenance, servicing and replacement.

**Change Section 502 Installation to read as follows:**

**502.1 General.** Water heaters shall be installed in accordance with the manufacturer's installation instructions. Oil-fired water heaters shall conform to the requirements of this code and the *International Mechanical Code*. Electric water heaters shall conform to the requirements of this code and provisions of the *1999 NEC* listed in Chapter 13. For reference only, gas fired water heaters shall conform to the requirements of the *International Fuel Gas Code*.

**502.4 Prohibited location. Delete exception.**

**502.5 Water heaters installed in attics.** Attics containing a water heater shall be provided with a readily accessible opening and unobstructed passage way large enough to allow removal of the water heater. The passage way shall not be less than 30" inches (762mm) high and 22" inches (559mm) wide and not more than 20' feet (6096mm) in length when measured along the center line of the passage way from the opening to the water heater. The passage way shall have continuous solid flooring not less than 24" inches (610) wide. A level service space at least 30" inches (762mm) deep and 30" inches (762mm) wide shall be present at the front or service side of the water heater. The clear access opening shall be of sufficient dimensions to allow removal and replacement of the water heater, but in no case less than 20" inches by 30" inches (508mm by 762mm).

**Add 502.7 Water heaters installed in restaurants, bars, lounges, etc.** In establishments with food permits, water heaters shall be caulked to the floor or raised a minimum of 6" inches (152mm) above the floor.

**Change Section 503 Connections to read as follows:**

**Add 503.3 Non-metallic pipe as follows:**

**503.3 Non-metallic pipe.** Non-metallic pipe shall not be installed within 6" inches (152mm) of the inlet, outlet, or vent of a water heater.

**Change Section 504.3 Shutdown as follows:**

**504.3 Shutdown.** A means of disconnecting an electric hot water supply system from its power supply shall be provided in accordance with the *1999 NEC* A separate valve shall be provided to shut off the fuel supply to all other types of hot water supply systems. Required electrical disconnect and fuel shut off shall be located within 5' feet (1524mm) of the water heater with identifying label.

**504.6.1 Discharge.** The relief valve shall discharge full size to a safe place of disposal outside the building or to an indirect waste receptor. Relief valve shall not discharge into a private sewage disposal system. The discharge pipe shall not have any trapped sections and shall have a visible air gap or air gap fitting located at termination. The discharge shall be installed in a manner that does not cause personal injury to occupants in the immediate area or structural damage to the building.

**504.7 Required pan.** Where water heaters or hot water storage tanks are installed in locations where leakage of the tanks or connections will cause damage, the tank or water heater shall be installed in a galvanized steel pan having a thickness of 24 gage, or other AGA approved pans.

**504.7.1 Pan size and drain.** The pan shall not be less than 1.5” inches (38mm) deep and shall be of sufficient size and shape to receive all dripping or condensate from the tank or water heater. The pan shall be drained by an indirect waste pipe having a minimum diameter of 1 ½ “ inches (38mm). Pan drain shall not discharge into a private sewage disposal system.

**Add new Section 506 Minimum capacities as follows;**

**506.1 Residential.** Water heaters installed in residential occupancies shall be sized in accordance with TABLE 506.

**506.2 Commercial.** Water heaters installed in commercial occupancies shall be sized by an engineer, all food establishments shall have a 30 gallon minimum.

**Table 506**  
**Minimum Capacities for Water Heater<sup>1</sup>**

FUEL	ELEC			GA ELEC			GA ELEC			GA ELEC OI			
	GAS	T.	OIL	S	T.	OIL	S	T.	OIL	S	T.	L	
NUMBER OF BEDROOMS	1			2			3						
1 to 1 ½ Baths	Storage(gph)	20	20	30	30	30	30	40	30				
	Input	27	2.5	70	36	3.5	70	36	4.5	70			
	Draw(gph)	43	30	89	60	44	89	60	58	89			
	Recovery(gph)	23	10	59	30	14	59	30	18	59			
NUMBER OF BEDROOMS	2			3			4			5			
2 to 2 ½ Baths	Storage(gph)	30	40	30	40	50	30	40	50	30	50	66	30
	Input	36	4.5	70	36	5.5	70	38	5.5	70	47	5.5	70
	Draw(gph)	60	58	89	70	72	89	72	72	89	90	88	89
	Recovery(gph)	30	18	59	30	22	59	32	22	59	40	22	59
NUMBER OF BEDROOMS	3			4			5			6			
3 to 3 ½ Baths	Storage(gph)	40	50	30	50	66	30	50	66	30	50	80	40
	Input	38	5.5	70	38	5.5	70	47	5.5	70	50	5.5	70
	Draw(gph)	72	72	89	82	88	89	90	88	89	92	102	99
	Recovery(gph)	32	22	59	32	22	59	40	22	59	42	22	59

1 gph = 1.05 mL/s

**Note:**

1. Storage capacity, input and the recovery requirements indicated in the table are typical and may vary with each individual manufacturer. Any combination of these requirements to produce the 1 hour draw

stated shall be satisfactory. Recovery is based on 100°F (37.8°C) water temperature rise. The input rating is in units of one thousand Btus per hour for gas and oil, and one thousand watts per hour for electric.

**Example:** For a 3-bedroom, 2 bath residence there are three choices as follows: A 40 gal storage/30gph recovery gas heater; a 50 gal storage/22gph recovery electric heater; or a 30 gal storage/59gph recovery oil heater; or an equivalent combination which will produce at least a 70 gph total draw.

**SECTION NINE:** Chapter 6 of the 2000 International Plumbing Code shall be amended as follows:

**Change Section 603 Water service to read as follows:**

**603.1 Size of water service pipe and fixtures.** The water service pipe and fixtures shall be sized to supply water to the structure in the quantities and at the pressures required by this code. The minimum inside diameter of the water service shall be ¾ inch (19.1mm).

**603.1.1 Fittings.** All service lines with insert fittings having less than ¾" inch (19.1mm) inside diameter shall require a minimum of 1" inch (25.4mm) pipe to the first manifold.

**603.2.1 Water service near sources of pollution.** Potable water services pipes shall be separated from septic tanks, and septic tank disposal fields in accordance with Alabama Department of Public Health (ADPH) rules. See section 605.2 for soil and ground water conditions.

**Change Section 604 Design of building water distribution system to read as follows:**

**604.3 Water distribution system design criteria.** The water distribution system shall be designed, and pipe and fitting sizes shall be selected such that under conditions of peak demand, the capacities at the fixture supply pipe outlets shall not be less than shown in Table 604.3. The minimum flow rate and flow pressure provided to the fixtures and appliances not listed in table 604.3 shall be in accordance with manufacturer's installation instructions.

**604.5 Size of fixture supply.** The minimum size of a fixture supply pipe and fittings shall be as shown in Table 604.5. The fixture supply pipe shall not terminate more than 30" inches (762mm) from the point of connection to the fixture. A reduced size flexible connector installed between the supply pipe and the fixture shall be of an approved type. The supply pipe shall extend to the floor or wall adjacent to the fixture. The minimum size of individual distribution lines and fittings utilized in parallel water distribution systems shall be as shown in Table 604.5.

**604.10.1 Manifold sizing.** Hot water and cold water manifolds and fittings shall be sized in accordance with Table 604.10.1. The total gallons per minute is the demand of all outlets supplied.

**Change Section 605 Materials, joints and connections to read as follows:**

**605.4 Water service pipe.** Water service pipe shall conform to NSF61 and shall conform to one of the standards listed in Table 605.4. All water service pipe or tubing, installed

under ground and outside of the structure, shall have a minimum working pressure of 200psi (1375kPa) at 73.4°F(23°C). Where the water pressure exceeds 200psi (1375kPa), piping material shall have a minimum rated working pressure equal to the highest available pressure. All ductile iron water pipe shall be cement mortar lined in accordance with AWWA C104.

**Table 605.4 Water Service Pipe. Delete:** Acrylonitrile butadiene styrene (ABS) plastic pipe.

**Note:** All galvanized steel pipe shall be accessible.

**Table 605.5 Water Distribution Pipes. Delete:** Acrylonitrile butadiene styrene (ABS) plastic pipe.

**Table 605.6 Pipe fittings. Delete:** Acrylonitrile butadiene styrene (ABS) plastic pipe.

**Change Section 606 Installation of the building water distribution system to read as follows:**

**606.2 Location of shutoff valves.** Shutoff valves shall be installed in the following locations:

1. On the fixture supply to all fixtures.
2. On the water supply pipe to each appliance or mechanical equipment.

**Exception:** Shutoff valves shall not be required for concealed valves.

**606.3 Access to valves.** Access shall be provided to all required full-open valves and shut off valves, with a minimum 6" inch (152mm) access.

**Change Section 607 Hot water supply system to read as follows:**

**607.1 Where required.** In occupied structures, hot water shall be supplied to all plumbing fixtures and equipment utilized for bathing, washing, culinary purposes, cleansing, laundry or building maintenance. Tempered water shall be delivered to accessible hand-washing facilities.

**Exception:** In nonresidential occupancies, hot water or tempered water shall be supplied for bathing and washing purposes. This shall apply to all food establishment can washes and dumpster pads. This shall not apply to accessible hand washing facilities, except for food establishments and day care centers.

**Add to Section 608.17 Protection of potable water supply.**

**NOTE:** This section is for reference only, water supplies are regulated by the Alabama Department of Environmental Management (ADEM).

Table 608.17.1  
 DISTANCE FROM SOURCES OF CONTAMINATION TO PRIVATE  
 WATER SUPPLIES AND PUMP SUCTION LINES

SOURCE OF CONTAMINATION	DISTANCE (feet)
Barnyard	100
Farm silo	25
Pasture	100
Pump house floor drain of cast iron draining to ground surface	2
Seepage pits	100
Septic tank	50
Sewer	10
Subsurface disposal fields	100
Subsurface pits	100

For SI: 1 foot = 304.8mm.

**SECTION TEN:** Chapter 7 of the 2000 International Plumbing Code shall be amended as follows:

**Change Section 701 General to read as follows:**

**701.2 Sewer required.** Every building in which plumbing fixtures are installed and all premises having drainage piping shall be connected to a public sewer, where available. An approved private sewage disposal system in accordance with Alabama Department of Public Health rules shall be required where public sewer is not available.

**Exception:** At time of adoption of this code, existing private sewage systems shall be allowed to remain in use until failure or repairs are necessary. Then connection to public sewer shall be required if it is available.

**Change Section 702 Materials to read as follows:**

**Table 702.1 Aboveground drainage and vent pipe.** **Delete:** Acrylonitrile butadiene styrene (ABS) plastic pipe.

**Table 702.2 Underground building drainage and vent pipe.** **Delete:** Acrylonitrile butadiene styrene (ABS) plastic pipe.

**Table 702.3 Building sewer pipe.** **Delete:** Acrylonitrile butadiene styrene (ABS) plastic pipe.

**Table 702.4 Pipe fittings.** **Delete:** Acrylonitrile butadiene styrene (ABS) plastic pipe.

**Change Section 706 Connections between drainage piping and fittings to read as follows:**

**706.3 Installation of fittings.** Fittings shall be installed to guide sewage and waste in the direction of flow. Change in direction shall be made by fittings installed in accordance with Table 706.3. Change in direction by combination fittings, side inlets or increasers shall be installed in accordance with Table 706.3 based on pattern of flow created by the fitting. Double sanitary tee pattern of 2" inches (50.8mm) or less shall not receive discharge from fixtures or appliances with pumping action discharge.

**Add to Section 708 Cleanouts.**

**708.3.5.1 Building sewer and property service lateral connection.** There shall be a clean out located at sewer conjunction of service lateral and building sewer outside of right of way.

**Change to Table 709.1 Drainage fixture units for fixtures and groups.** Minimum trap size for all kitchen sinks shall be 2"inch.

**Change Section 710 Drainage system sizing to read as follows:**

**Add Notes to Table 710.1 (1) as follows:**

**Note b** The maximum number of water closets on a 3" inch (76.2mm) line shall be 3.

**Note c** No building sewer shall be less than 4" inch (101.6mm) diameter.

**Note d** Minimum size of building drain, in a commercial building of 1,500 square feet or larger, shall be 4" inches (101.6mm).

**Change Section 712 Sumps and ejectors to read as follows:**

**712.2 Full open valve required. Delete Exception.**

**712.3.2 Sump pit.** The sump pit shall be not less than 18" inches (457mm) in diameter and 24" inches (610mm) deep, unless otherwise approved. The pit shall be accessible and located such that all drainage flows into the pit by gravity. The sump pit shall be constructed of tile, concrete, steel, plastic or other approved materials. The pit bottom shall be solid and provide permanent support for the pump. The sump pit shall be fitted with a gas-tight removable cover adequate to support anticipated loads in the area of use. The sump pit shall be vented in accordance with Chapter 9, Section 916.5.

**Change Section 715 Backwater valves to read as follows:**

**Section 715 Sewage backflow.**

**715.1 Sewage backflow.** Where a plumbing drainage system may be subject to a back-flow of sewage including, but not limited to the installation fixtures below the level of the nearest upstream manhole cover, suitable provisions shall be made by the contractor or property

owner, ~~or the public sewer authority to prevent its overflow into the building~~ all on-premise (private property) generated effluent from entering the building. For off-premise generated effluent (not private property) either the owner, contractor, or, if part of the public sewer system, the public sewer authority may be required to install overflow protection for the premises. Check valves or mechanical devices shall not be allowed in the sanitary sewer system.

**SECTION ELEVEN:** Chapter 8 of the 2000 International Plumbing Code shall be amended as follows:

**Change Section 802 Indirect wastes to read as follows:**

**802.1.1 Food handling.** Equipment and fixtures for the storage, preparation and handling of food shall discharge through an indirect waste pipe by means of an air gap.

**Exception:** This requirement shall not apply to dishwashing machines, with built in air breaks.

**802.1.2 Floor drains in food storage areas. Delete Exception**

**803.4 Special Wastes for Swimming Pools.** All pool waste, either backwash of filters or pool drainage, shall be taken to an approved pool waste receptor. This waste receptor may connect to city sewer, storm drain, or on-site irrigation. Pool waste shall not be placed on streets, on or across neighboring properties, or any place in the estimation of the Building Official where it is considered a nuisance. All discharged waste to irrigation or storm drain shall comply with ADEM rules and regulations.

**SECTION TWELVE:** Chapter 9 of the 2000 International Plumbing Code shall be amended as follows:

**Change Section 903 Vent stacks and stack vents to read as follows:**

**903.1 Stack required.** Every building in which plumbing is installed shall have at least one stack the size of which is not less than 3" inches (76mm) in diameter. Such stack shall run undiminished in size and as directly as possible from the building drain through to the open air or to a vent header that extends to the open air.

**903.3 Vent termination** Every vent stack or stack vent shall extend outdoors and terminate to the air above the roof line.

**Change Section 904 Vent terminals to read as follows:**

**904.1 Roof extension.** All open vent pipes that extend through a roof shall be terminated at least 6" inches (152mm) above the roof; except that where a roof is to be used for any purpose other than weather protection, the vent extensions shall be run at least 7' feet (2134mm) above the roof.

**Change Section 907 Individual vent to read as follows:**

**907.2 Where required.** All fixtures discharging downstream from a water closet shall be individually vented except as provided in 907.3.

**907.3 Battery venting.** A branch or waste pipe of uniform diameter throughout its length, to which are connected in battery a number of fixtures not exceeding 50% of the fixture units allowed by column two of Table 710.1(2), may be vented by a circuit or loop vent system connected in front of the last upstream fixture drain. In addition, battery vented branches serving three or more fixtures shall be provided with a relief vent connected in front of the first fixture connection. When lavatories or similar fixtures having a fixture unit rating of four or less and a maximum 2" inch (51mm) fixture drain discharge from above such branches, each vertical branch shall be provided with a continuous vent. Fixtures having fixture unit ratings greater than four shall not discharge into such branch from above unless all fixtures in the battery group are individually vented. Fixtures from an upper floor shall not discharge into a battery vented branch.

**Exception:** The relief vent may be omitted provided a stack vent or vent stack is located down stream of the first horizontal fixture connection.

**Change Section 912 Combination drain and vent system to read as follows:**

**912.2.2 Connection.** The combination drain and vent pipe shall connect to a horizontal drain that is vented or a vent shall connect to the combination drain and vent. The vent connecting to the combination drain and vent pipe shall extend vertically a minimum of 6" inches (152mm) above the flood level rim of the highest fixture being vented before offsetting horizontally.

**Change 917 Air admittance valves to read as follows:**

**917.7 Vent required.** Within each plumbing system a minimum of two stack vents or vent stack shall extend outdoors to the open air. There shall be a minimum of one vent to the open air downstream of, and a minimum of one vent to the open air upstream of an air admittance valve.

**917.8 Prohibited installations.** Air admittance valves shall not be installed in non-neutralized special waste systems as described in Chapter 8. Valves shall not be located in spaces utilized as supply or return air plenums, nor in commercial food preparation or storage areas.

**SECTION THIRTEEN:** Chapter 10 of the 2000 International Plumbing Code shall be amended as follows:

**Change Section 1003 Interceptors and separators to read as follows:**

**1003.3.4 Grease Interceptors.** Grease interceptors shall conform to PDI G101.

**1003.3.4.1 Grease Interceptor capacity.** Grease interceptors shall have the grease retention capacity indicated in Table 1003.3.4.1 for flow-through rates indicated. The minimum requirement shall be a 200 pound interceptor, unless designed by an engineer.

**Change Table 1003.3.4.1 to read: Table 1003.3.4.1 Capacity of Grease Interceptors.**

**1003.3.4.2 Rate of Flow Controls.** Grease interceptor shall be equipped with devices to control the rate of water flow so that the water flow does not exceed the rated flow. The flow-control device shall be vented and terminate not less than 6 inches (152 mm) above the flood rim level or installed in accordance with the manufacturer's instructions.

**1003.3.5 Grease Traps.** Grease traps shall conform to the applicable ASTM standards.

**1003.3.5.1 Grease Trap Capacity.** Grease trap (GT) size shall be determined by using the following formula and table:

$$D \times MF \times GL \times RT \times ST = \text{GT size (gallons)}$$

CODE	EXPLANATION
D	Total number of seats
MF	Meal Factor, based on establishment type and average time per meal 1.33 Fast Food/Cafeteria (45 min) 1.00 Restaurant (60 min) 0.67 Leisure Dining (90 min) 0.50 Dinner Club (120 min)
GL	Gallons of wastewater per meal 6 With dishwashing machine 5 Without dishwashing machine 2 Single service kitchen 1 Food Waste Disposal
RT	Retention time 2.5 Commercial kitchen 1.5 Single service kitchen
ST	Storage factor, based on hours of operation 1.0 Operation of 8 hours 1.5 Operation of 12 hours 2.0 Operation of 16 hours 1.5 Single service kitchen

**Notes:** 1. Minimum grease trap size, if connected to a septic tank system shall be 1000 gallons.

2. Minimum grease trap size, if connected to public sewer, shall be 1000 gallons, unless designed by an engineer.

3. The construction plans submitted with the permit application shall show the capacity of the grease trap and the above grease trap capacity formula with all formula code values identified.

**1003.4 Baffling Requirements for Grease Traps.** All grease traps/interceptors shall have a minimum of two (2) baffles. The nearest baffle from entry point of effluent shall allow flow under the baffle wall. The second baffle will allow flow over the top of baffle wall. Exit fittings (tees) shall have a drop pipe 12” long. All grease traps shall be accessible for pumping and cleaning with access covers at each end of trap.

**1003.4.1 Grease Trap, Interceptor Installations.** All grease traps/interceptors shall be installed as per manufacturer’s recommendations. This includes wall sizing for high traffic areas and location.

**Add 1003.5 as follows:**

**1003.5 Grease trap Sampling Port.** A clean-out shall be installed immediately downstream of the grease trap for the purpose of acquiring grease trap effluent samples.

#### **SEPARATION CLAUSE**

If any section, subsection, sentence, clause, or phrase of this Code is for any reason held to be unconstitutional, such decision shall not affect the validity of the remaining portions of this code. The City Council of the City of Mobile hereby declares that it would have passed this code and each section, subsection, clause, or phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, or phrases be declared unconstitutional.

Adopted: June 12, 2001

/s/ Glenda A. Morgan, City Clerk