

ABILENE PLUMBING CODE



**TO BE USED IN CONJUNCTION WITH THE
2003 INTERNATIONAL PLUMBING CODE**

This pamphlet is to be used in conjunction with the *2003 International Plumbing Code*, published by the International Code Council, Inc. This pamphlet and the *2003 International Plumbing Code* comprise the Plumbing Code for the City of Abilene, Texas.

This code was adopted by the City Council on **August 11, 2005**, Ordinance No. **40-2005** of the Municipal Code.

TELEPHONE


Building Inspections---676-6232/676-6271
Plumbing Inspectors---676-6274/676-6354/676-6320

FAX NUMBER

676-6288

BUILDING INSPECTIONS

**555 Walnut, Room 100
Abilene, Texas 79601**



The following Chapters of the *2003 International Plumbing Code* are adopted in their entirety:

Chapter 12, 13

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2003 INTERNATIONAL PLUMBING CODE

Adopt the *2003 International Plumbing Code* in its entirety, with the following amendments:

CHAPTER 1 ADMINISTRATION

Section 101 General

{Amend this to read as follows.}

101.Title These regulations shall be known as the International Plumbing Code of the City of Abilene, Texas, hereinafter referred to as “this code”.

101.2 Scope *{Add the following to the end of the first sentence.}*
...or connected to the water supply of the City of Abilene.

{Amend this to read as follows.}

SECTION 103 PLUMBING INSPECTIONS

{Amend to read as follows.}

103.1 General Plumbing inspections shall be a part of the Building Inspection Department and the executive official in charge thereof shall be known as the code official.

{Amend to read as follows.}

103.2 Appointment The code official shall be appointed by the chief appointing authority of the jurisdiction.

{Add the following subsection .}

103.3.1 Plumbing inspector requirements. The plumbing and/or plumbing/mechanical inspectors are hereby made a part of the Building Inspection Department of the City of Abilene. They shall have had at least 5 years of satisfactory experience as a journeyman and/or master plumber and shall hold a plumbing inspector’s license issued by the State Board of Plumbing Examiners.

Section 104 Duties and Powers of the Code Official

104.2 Rule-Making authority. *{Delete the first sentence and insert the following.}*

The code official shall have authority, as necessary, in the interest of public health, safety and general welfare, to interpret and implement the provisions of this code to secure the intent thereof, and to designate requirements applicable because of local climatic or other conditions.

Section 106
Permits

106.1 When required. {Add the following subsection.}

106.1.1 Plumbing license required. All persons who engage in or work at the actual installation, alteration, repair and/or renovation of all piping, fixtures, appurtenances, and appliances that supply gas, water, liquids, or any combination of these, or dispose of waste water or sewage, shall possess a master or journeyman plumber's license, in accordance with the State of Texas Plumbing License Law, *Title 8, Chapter 1301*. Any business engaging in the work of a plumbing contractor shall employ a person holding a current master plumber's license.

{Add the following subsection.}

106.1.1.1 Exemptions. *(Reference State Plumbing License Law, Sec. 365.2 Exemptions.)*

The following plumbing work shall be permitted without a license but shall be subject to inspection and approval in accordance with local, city or municipal ordinances:

- (1) Plumbing work done by a property owner in the property owner's homestead;
- (2) Plumbing work that is not performed in conjunction with new construction and done on a property that is:
 - (A) located in a subdivision or on a tract of land that is not required to be platted under Section 232.0015, Local Government Code; or
 - (B) not connected to a public water system and is located outside a municipality, or
 - (C) located outside a municipality and connected to a public water system that does not require a license to perform plumbing; or
 - (D) inside a municipality with fewer than 5,000 inhabitants, unless an ordinance of the municipality requires the person to be licensed;
- (3) Verification of medical gas and vacuum piping integrity and content;
- (4) Work done on existing plumbing by a maintenance man or maintenance engineer, as defined in Board Rule Section 361.1, that is incidental or connected to other maintenance duties, provided that such an individual does not engage in cutting into fuel gas plumbing systems, the installation of gas fueled water heaters or plumbing work for the general public;
- (5) Plumbing work done by a railroad employee on the premises or equipment of a railroad, provided such an individual does not engage in plumbing work for the general public;
- (6) Plumbing work done by a person engaged by a public utility company to:
 - (A) lay, maintain, or operate its service mains or lines to the point of measurement; and
 - (B) install, change, adjust, repair, remove or renovate appurtenances, equipment, or appliances;
- (7) Appliance installation or appliance service work done by bona fide appliance dealers and their employees that do not offer to perform plumbing work to the general public, in connecting appliances to existing openings with a code approved appliance connector without cutting into or altering the existing plumbing system.;
- (8) Irrigation work done by an individual working and licensed by the Texas Commission on Environmental Quality under Chapter 1903, Occupations Code, as an irrigator or installer;

(9) LP Gas service and installation work done by an individual working and licensed by the Texas Railroad Commission under Chapter 113 of the Natural Resources Code as a LP Gas Installer; and

(10) Water Treatment Specialists licensed by the Texas Commission on Environmental Quality under Section 341.034 of the Health and Safety Code may engage in residential, commercial or industrial water treatment activities including making connections necessary to complete the installation of a water treatment system.

(11) Water well pump installation and service work performed by an individual licensed by the Texas Commission on Environmental Quality under Chapter 1902 of the Occupations Code. 25.

(12) Residential potable water supply or residential sanitary sewer connections performed by an organization certified by the Texas Commission on Environmental Quality to perform self-help project assistance on a Self-Help Project which complies with Section 1301.057 of the Occupations Code (Plumbing License Law).

Source: The provisions of § 365.2 adopted to be effective May 18, 1982, 7 TexReg 1748; amended to be effective September 1, 1983, 8 TexReg 3186; amended to be effective August 25, 1993, 18 TexReg 5399; amended to be effective December 8, 1993, 18 TexReg 8786; amended to be effective August 8, 1994, 19 TexReg 5711; amended to be effective June 7, 1996, 21 TexReg 4688; § 365.2 repealed to be effective December 30, 2001, 26 TexReg 10592; New § 365.2 adopted to be effective February 12, 2004, 29 TexReg 1200.

{Add the following subsection.}

106.1.2 Bond Required. All plumbing contractor's desiring to engage in the business of a plumbing contractor shall first file with the building official of the City of Abilene, a surety bond in the amount of \$5,000, or proof of \$300,000 general liability insurance, to insure that the person engaged in the plumbing business will faithfully observe all the laws pertaining to plumbing; further, that the City shall be indemnified and saved harmless from all claims arising from accidents and damage of any character whatsoever caused by negligence of such person engaged in the plumbing business, or by any other unfaithful, inadequate work done either by themselves, their agent, or their employees. A \$5,000 surety bond, or proof of \$300,000 general liability insurance, is also required for irrigation contractors.

{Add the following subsection.}

106.1.3 Contractor's registration required. All plumbing contractors shall first file with the code official of the City of Abilene, as a registered contractor, as per Section 8-161 of the Municipal Code, Article IV, Licenses and Registration.

106.3 Application for permit. *{Delete in its entirety and insert the following.}*

Each application for a permit, with the required fee, shall be filed with the code official on a form furnished for that purpose and describe the nature of the work to be performed prior to commencing any work. Permits may also be obtained in accordance with the Procedural Guidelines for the Voucher/Permit Program.

106.6 Fees. *{Add the following at the end of the paragraph.}*

Permits may be obtained by charge account with the following restrictions:

- (a) The applicant shall make a deposit of \$150.00 with the City of Abilene.
- (b) The deposit is security for the account and shall not be applied to the account of the applicant.
- (c) Every applicant shall be billed each month for the total balance of his/her account and a written list of permits shall be identified on the invoice.
- (d) All accounts shall be payable within 10 days after the billing date; any account not paid within 10 days, and upon notice from the Accounting Department to the Building Inspection Department, shall not be eligible for further issuance of permits by charge account. Failure to pay said account shall result in the applicant's deposit being forfeited to the City of Abilene. Charging privileges are therefore revoked, and a new deposit and all bills paid to the City before any additional charges are permitted.

106.6.1 Work commencing before permit issuance. *{Add the following.}*

Further work performed by the same contractor without permits will result in a penalty and investigation fee of 10 times the amount of the permit fee required by this code if a permit had been issued. At the end of 12 months from the issuance of the 10 times fee, a contractor with no further violations shall be determined to start without previous penalties.

106.6.2 Fee schedule. *{Add the following.}*

Fees shall be set by Abilene City Council resolution. Appendix A references approved fees at the time of adoption of this code. Fees published in this document are subject to change by Council action.

106.6.3 Fee refunds. *{Amend as follows.}*

- 2. Insert 80 %.
- 3. *{Delete in its entirety.}*

**Section 108
Violations**

108.3 Prosecution of violations. *{Delete in its entirety and insert the following.}*

If notice of violation is not complied with promptly, the code official or his/her deputies may issue citations regarding the offense/offences. In addition, legal counsel of the jurisdiction may be requested to institute the appropriate proceeding at law or in equity to restrain, correct, or abate such violation.

108.4 Violation penalties. *{Amend to identify the following.}*

"Specific Offense"	Misdemeanor – Class C
"Fine"	Not to exceed \$2,000 per offense day pay
"Number of Days Imprisonment"	<i>{Delete in its entirety.}</i>

108.5 Stop Work Orders. *{Amend the last sentence to read as follows.}*

...Any person who shall continue any work on the system 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 subject to a citation for a Class C Misdemeanor.

{Delete Sec. 109 in its entirety and insert the following.}

**Section 109
Board of Appeals**

109.1 General. The Board of Appeals may hear appeals of any decision of the code official or his/her representatives regarding the electrical, mechanical, plumbing, or swimming pool ordinance. The board does not have the authority to waive code requirements, but may consider alternate materials and methods for the purpose of complying with the provisions of this code. The board shall be as is established in the Municipal Code, Article V, Division 3, Section 8-391 through Section 8-407 for the Mechanical, Plumbing, Electrical, and Swimming Pool Board of Appeals.

**CHAPTER 2
DEFINITIONS**

**Section 202
General Definitions**

{Add the following definition.}

LICENSED IRRIGATOR: A person licensed by the Texas Board of Irrigators under the Licensed Irrigators Act, Article 8751, Section 7, Vernon's Texas Civil Statutes, who sells, designs, consults, installs, maintains, alters, repairs or services an irrigation system, including the connection of such system in and to a private or public, raw or potable water supply system or any water supply.

**CHAPTER 3
GENERAL REGULATIONS**

**Section 302
Exclusion of Materials Detrimental to the Sewer System**

{Amend to read as follows.}

302.2 Industrial wastes. Waste products from manufacturing or industrial operations shall not be introduced into the public sewer until it has been determined it is in compliance with the City of Abilene Industrial Waste Ordinance, Chapter 32, Article 3, Sec. 32.57.

**Section 304
Rodent Proofing**

{Amend to read as follows.}

304.4 Openings for pipes. In or on structures where openings have been made in walls, floors or ceilings for the passage of pipes, such openings shall be closed and protected by the installation of approved collars that are securely fastened to the adjoining structure.

Section 305
Protection of Pipes and Plumbing System Components

{Delete in its entirety and insert the following.}

305.6.1 Sewer depth. Building sewers that connect to private sewage disposal systems shall meet the State of Texas regulations for Private On-Site Sewage Disposal Facilities. Building sewers shall be a minimum of 12 inches below grade.

305.8 Protection against physical damage. *{Amend last sentence to read as follows.}*
...Protective shield plates shall be a minimum of 0.062 (1/16)-inch-thick (1.6mm) steel, shall cover the area of the pipe where the member is notched or bored, and shall be a minimum of 3 inches (51mm) at sole plates and top plates.

Section 310
Washroom and Toilet Room Requirements

310.4 Water closet compartment. *{Delete in its entirety.}*

Section 312
Tests and Inspections

{Delete in its entirety and insert the following.}

312.2 Drainage and vent water test. The water test shall be applied to drainage and vent systems either in its entirety or in sections. If applied to the entire system, all openings in the piping shall be tightly plugged except the highest opening of the section under test, and each section shall be filled with water, but no section shall be tested with less than 6" above the highest fixture rim. The water shall be kept in the system or in the portion under test for at least fifteen (15) minutes before inspection starts. The system shall then be tight at all points.

312.6 Gravity sewer test. *{Delete in its entirety.}*

{Amend to read as follows.}

312.9.1 Inspections. Annual inspections shall be made of all backflow prevention assemblies and air gaps to determine whether they are operable. In the absence of local provisions, the owner is responsible to ensure that testing is performed.

{Amend to read as follows.}

312.9.2 Testing. Reduce pressure principle backflow preventer assemblies, double check-valve assemblies, pressure vacuum breaker assemblies, reduced pressure detector fire protection backflow prevention assemblies, double check detector fire protection backflow prevention assemblies, hose connection backflow preventers, and spill-proof vacuum breakers shall be tested at the time of installation, immediately after repairs or relocation and at least annually. The testing procedure shall be performed in accordance with applicable local provisions. In the absence of local provision, the owner is responsible to ensure that testing is done in accordance with one of the following standards:

{List of standards unchanged.}

[M]Section 314
Condensate Disposal

314.2.1 Condensate disposal. *{Amend the last sentence to read as follows.}*

Condensate shall not discharge into a street, alley, sidewalk or other areas so as to cause a nuisance.

{Add the following.}

Approved places of disposal of condensate are as follows:

1. French drains.
2. Landscape area.
3. Storm sewers.
4. fixture side of properly installed trap.
5. Existing buildings may drain condensate on the roof.

**CHAPTER 4
FIXTURES, FAUCETS AND FIXTURE FITTINGS**

**Section 404
Accessible Plumbing Facilities**

{Delete in its entirety and add the following.}

404.1 Where required. Plumbing systems required to be accessible shall be in accordance with Chapter 11 of the International Building Code, as amended, to reference the Texas Accessibility Standards (TAS).

**Section 410
Drinking Fountains**

{Amend to read as follows.}

410.1 Approval. Drinking fountains shall conform to ASME A112.19.1M, ASME A112.19.2M or ASME A112.19.9M, and water coolers shall conform to ARI 1010. Drinking fountains and water coolers shall conform to NSF 61, Section 9. Where water is served in restaurants or where bottled water coolers are provided in other occupancies, drinking fountains shall not be required.

**Section 413
Food Waste Grinder Units**

{Amend to read as follows.}

413.4 Water supply required. All food waste grinders shall be provided with a supply of cold water. The water supply shall be protected against backflow by an air gap or with the installation of a backflow preventer in accordance with Section 608.

**Section 417
Showers**

{Amend to read as follows.}

417.3 Shower waste outlet. Waste outlets serving showers shall be at least 2 inches (51 mm) in diameter and, for other than waste outlets in bathtubs, shall have removable strainers not less than 3 inches (76 mm) in diameter with strainer openings not less than 0.25 inch (6.4 mm) in

minimum dimension. Where each shower space is not provided with an individual waste outlet, the waste outlet shall be located and the floor pitched so that waste from one shower does not flow over the floor area serving another shower. Waste outlets shall be fastened to the waste pipe in an approved manner.

Section 419 Urinals

{Amend to read as follows.}

[B]419.3 Surrounding Material. Wall and floor space to a point 2 feet (610 mm) in front of a urinal lip and 4 feet (1219 mm) above the floor and at least 2 feet (610 mm) to each side of the urinal shall be water proofed with a smooth, hard, readily cleanable, nonabsorbent material.

CHAPTER 5 WATER HEATERS

Section 502 Installation

502.1 General *{Amend next to last sentence in this paragraph to read as follows.}*

...Electric water heaters shall conform to the requirements of this code and provisions of the Electrical Code, adopted by the City of Abilene. ...

Sec. 502.3 Water heaters installed in attics. *{Delete in its entirety and insert the following.}*

Attics containing water heaters requiring access shall be provided with an opening and an unobstructed passageway large enough to allow removal of the water heater. The access opening dimensions shall be a minimum of 22 inches by 30 inches clear, provided such dimensions allow removal of the water heater. The area from the attic way access to the water heater shall be constructed of a minimum ½" plywood/wafer board, of continuous unobstructed solid flooring not less than 24 inches wide, with a minimum head clearance of 30 inches from the entrance opening to the water heater.

A level working platform not less than 30 inches deep and 30" wide shall be present at the front or service side of the water heater.

Exception: A working platform need not be provided when the water heater can be serviced from the required access opening.

Provide one lighting fixture per 20 linear foot of passageway, in addition to a lighting fixture at or near the equipment, and a receptacle in accordance with the Electrical Code, as adopted by the City of Abilene.

Section 504 Safety Devices

504.3 Shutdown. *{Amend the first sentence as follows.}*

A means for disconnecting an electric hot water supply system from its energy supply shall be provided in accordance with the Electrical Code adopted by the City of Abilene. ...

504.7 Required pan. *{Delete in its entirety and insert the following.}*

When a water heater is located in an attic or furred space where damage may result from a leaking water heater, the tank or connections, the water heater shall be installed in a galvanized steel or other pan approved for such use.

504.7.1 Pan size and drain. *{Change the last sentence in this paragraph to read as follows.}*

... The pan shall be drained by an indirect waste pipe having a minimum diameter of 1 inch.

**CHAPTER 6
WATER SUPPLY AND DISTRIBUTION**

**Section 603
Water Service**

603.2 Separation of water service and building drain/sewer. *{Delete 5 feet and insert 3 feet.}*

Exception: *{Delete 5 feet and insert 3 feet.}*

**Section 604
Design of Building Water Distribution System**

604.5 Size of fixture supply. *{Amend the second sentence to read as follows.}*

...The fixture supply pipe shall not terminate more than 36 inches from the point of connection to the fixture. *{The rest of the paragraph remains the same.}*

{Add the following Exception.}

Exception: Allow up to a maximum of 72" from the point of connection for appliances.

604.9 Water hammer. *{First sentence remains the same - second sentence changed as follows.}* A water-hammer arrestor or an air chamber with a minimum 12 inches in height and a minimum diameter equal to the fixture valve shall be installed where quick-closing valves are utilized, unless otherwise approved. *{The rest of the paragraph remains the same.}*

**Section 605
Materials, Joints and Connections**

605.3 Water service pipe. *{Amend next to the last sentence to read as follows.}*

...Plastic water service piping shall terminate within 3 feet outside the point of entry into a building. *{The rest of the paragraph remains the same.}*

**Section 606
Installation of the Building Water Distribution System**

606.1 Location of full-open valves. *{Delete 1, 3, 4 & 5 in their entirety.}*

606.2 Location of shutoff valves. {Amend 1 to read as follows}

1. On the fixture supply to each plumbing fixture.

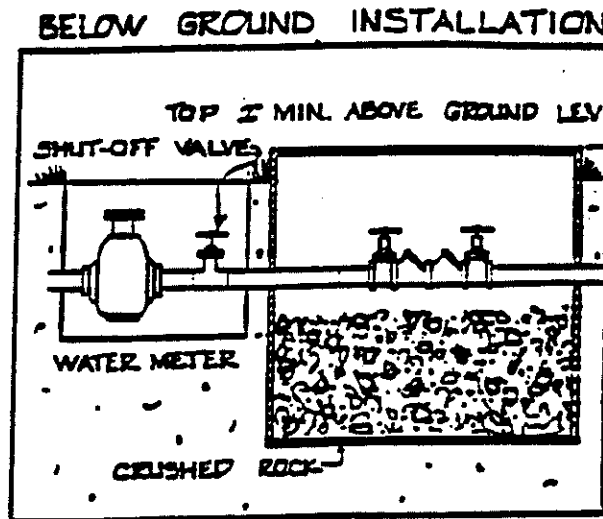
{Delete 2 in its entirety.}

**Section 608
Protection of Potable Water Supply**

{Add the following subsection.}

608.14.2 Double check back-flow preventer installed below grade. Double check valve assemblies shall be installed in accordance with Figure 608.14.2.

FIGURE 608.14.2



608.16.5 Connections to lawn irrigation systems. {Delete the first sentence and insert the following.}

The potable water supply to lawn irrigation systems shall be protected against backflow by an atmospheric-type vacuum breaker, a pressure type vacuum breaker, a reduced pressure principle backflow preventer, or a double-check valve assembly.

**Section 610
Disinfection of Potable Water Systems**

610.1 General.

2. *{Delete in its entirety.}*
3. *{Delete in its entirety.}*
4. *{Delete in its entirety.}*

**CHAPTER 7
SANITARY DRAINAGE**

**Section 701
General**

701.2 Sewer required. *{Amend this to read as follows.}*
...or an approved private sewage disposal system in accordance with the **Texas Commission on Environmental Quality.**

**Section 703
Building Sewer**

703.1 Building sewer pipe near the water service. *{Amend the first sentence as follows.}*
Where the building sewer is installed within 3 feet of the water service, ...*{The remainder stays the same}*

**Section 708
Cleanouts**

708.3.1 Horizontal drains within buildings. *{Amend as follows.}*
All horizontal drains shall be provided with cleanouts located not more than 75 feet (30 480 mm) apart.

708.3.2 Building sewers. *{Amend the first sentence as follows.}*
Building sewers shall be provided with cleanouts located not more than 75 feet apart . . . *{The remainder stays the same.}*

708.3.4 Base of stack. *{Delete in its entirety.}*

708.3.6 Manholes. *{Delete in its entirety and insert the following.}*
Manholes shall comply with City of Abilene Engineering standards.

**Section 709
Fixture Units**

Table 709.1 DRAINAGE FIXTURE UNITS FOR FIXTURES AND GROUPS
{Amend as follows.}

Fixture type	Drainage fixture unit value as load factors	Minimum size of trap (inches)
Bathtub (with or without overhead shower or whirlpool attachments)	2	2
Shower	2	2

**Section 712
Sumps and Ejectors**

712.2 Full Open valve required. *{Delete the Exception in its entirety.}*

**CHAPTER 8
INDIRECT/SPECIAL WASTE**

**Section 803
Special Wastes**

803.1 Waste-water temperature. *{Delete in its entirety and insert the following.}*

Steam pipes shall not connect to any part of a drainage or plumbing system, nor shall any water above 120 degrees F. (48 degrees C.) at the point of connection to the sanitary sewer be discharged under pressure directly into any part of a drainage system.

**CHAPTER 9
VENTS**

**Section 904
Vent Terminals**

904.1 Roof extension. *{Amend to read as follows.}*

All open vent pipes that extend through a roof shall be terminated at least 6 inches (152mm) above the roof, . . . *{The remainder to stay the same.}*

**Section 905
Vent Connections and Grades**

905.4 Vertical rise of vent. *{Amend to read as follows.}*

Where structurally possible, the dry vent shall rise vertically to a minimum of 6 inches (152 mm) above the flood level rim of the highest trap or trapped fixture being vented.

**Section 912
Combination Drain and Vent Systems**

912.1 Type of fixture. *{Amend as follows.}*

A combination drain and vent system shall not serve fixtures other than floor drains, standpipes, and indirect waste receptors. *{The last sentence remains the same.}*

912.2 Installation. *{Amend as follows.}*

The only vertical pipe of a combination drain and vent system shall be the connection between the fixture drain of a standpipe, and the horizontal combination drain and vent pipe. *{The last sentence remains the same.}*

912.2.2 Connection. *{Amend last sentence to read as follows.}*

Where structurally possible, the vent connection to the combination drain and vent pipe shall extend vertically a minimum of 6 inches (152 mm) above the flood level rim of the highest fixture being vented before offsetting horizontally.

**Section 913
Island Fixture Venting**

913.2 Vent connection. *{Amend the last sentence to read as follows.}*

Where structurally possible, the vent or branch vent for multiple island fixture vents shall extend to a minimum of 6 inches above the highest island fixture being vented before connecting to the outside vent terminal.

**CHAPTER 10
TRAPS, INTERCEPTORS AND SEPARATORS**

**Section 1002
Trap Requirements**

1002.8 Recess for trap connection. *{Delete in its entirety.}*

**Section 1003
Interceptors and Separators**

{Add the following subsection.}

1003.3.4.3 Standards for grease traps - *{See attached Pages 14 thru 17.}*

1. Appendix to Standard PDI-G101
 - A1.0 – Sizing
 - A2.0 – Installation
2. City of Abilene Standard Grease Trap Design

**CHAPTER 11
STORM DRAINAGE**

**Section 1113
Sumps and Pumping Systems**

1113.1.3 Electrical. *{Amend as follows.}*

Electrical service outlets, when required, shall meet the requirements of the Electrical Code as adopted by the City of Abilene.

1113.1.4 Piping.

Exception: *{Delete in its entirety.}*

9.2 PDI Certification Seal

Grease interceptors which are certified by the manufacturer as being identical in the relevant respects considered in Standard PDI-G101 to the unit tested and certified as detailed herein by an independent labor-

atory approved by the *Institute* may bear the Institute's Certification Seal as exemplified in Fig. 3, provided such manufacturer also executes the Institute's current Standard Certification Mark License Agreement.

APPENDIX

Realizing the need for uniform sizing, installation and maintenance data for Plumbing and Drainage Institute certified grease interceptors conforming to the testing and rating procedures outlined in Standard PDI-G101, it was deemed advisable to cover this information in an appendix. The recommendations for sizing, installation and maintenance of grease interceptors contained in this appendix are based on experience of the Industry.

AI .O Sizing

AI. 1 Sizing Considerations

AI.1.1 A grease interceptor conforming to Standard PDI-G101 is designed and certified to operate efficiently at its rated capacity. The larger the interceptor the higher the flow rate it will handle efficiently with a greater quantity of grease retained before cleaning is required. While a small interceptor, undersized, can accommodate a flow of waste water well in excess of its rated capacity, it will not intercept grease efficiently under such overload conditions.

AI.1.2 Fixture drainage period in combination with the service required and the quantity of waste water involved, establishes the rate of flow through the grease interceptor. Flow rate is therefore the primary gauge; and flow rate establishes interceptor size or capacity.

AI.1.3 The link between flow rate and installation to produce satisfactory grease interceptor operation is a Flow Control Fitting. A correctly sized grease interceptor will not regulate the flow of water discharged from the fixture it is serv-

ing. Therefore, to ensure that the flow rate does not exceed the grease interceptor's rated capacity, a flow control fitting is required. The flow control fitting is essential for protection against overloading the grease interceptor which could otherwise occur from sudden surges from the fixture. The flow control fitting will control the flow of waste water at all times, enabling the interceptor to operate at its certified capacity.

AI.2 Size Symbols

It has been determined through the testing and rating procedure that eight (8) different sized grease interceptors are required for normal domestic, commercial, and institutional installations. These sizes are based on certification standard flow rates and grease retention capacity ratings for grease interceptors. See Table I, page 8, Standard PDI-G101. Table AI.2 lists the PDI size symbol for each of the standard rated grease interceptors.

Table AI.2
Sizing and Rating

PDI Size Symbol	4	7	10	15	20	25	35	50
Flow Rate GPM	4	7	10	15	20	25	35	50
L/s	.25	.44	.63	.95	1.26	1.58	2.20	3.16
Grease Capacity Pounds	8	14	20	30	40	50	70	100
Kg	3.6	6.4	9.1	13.6	18.2	22.7	31.8	45.4

AI.3 Sizing Procedure

Table AI.3 is provided to show the standard formula in steps for sizing grease interceptors to suit requirements of specific fixtures. An example of this sizing formula application is included to illustrate the steps.

Table A1.3
Procedure for Sizing Grease Interceptors
 (Metric Equivalents Omitted for Simplicity)

Steps	Formula	Example
1	Determine cubic content of fixture by multiplying length x width x depth.	A sink 48" long by 24" wide by 12" deep. Cubic content $48 \times 24 \times 12 = 13,824$ cubic inches.
2	Determine capacity in gallons. 1 gal. = 231 cubic inches.	Contents in gallons $\frac{13,824}{231} = 59.8$ gallons
3	Determine actual drainage load. The fixture is normally filled to about 75% of capacity with water. The items being washed displace about 25% of the fixture content, thus actual drainage load = 75% of fixture capacity.	Actual drainage load $.75 \times 59.8 = 44.9$ gallons
4	Determine flow rate and drainage period. In general, good practices dictate a one (1) minute drainage period; however, where conditions permit, a two (2) minute drainage period is acceptable. Drainage period is the actual time required to completely drain the fixture. $\text{Flow rate} = \frac{\text{Actual Drainage Load}}{\text{Drainage Period}}$	Calculate flow rate for one-minute period $\frac{44.9}{1} = 44.9$ GPM Flow Rate Two-minute period $\frac{44.9}{2} = 22.5$ GPM Flow Rate
5	Select interceptor. From Table A1.2 select interceptor which corresponds to the flow rate calculated. Note: Select next larger size when flow rate falls between two sizes listed.	For one-minute period—44.9 GPM requires PDI size "50." For two-minute period—22.5 GPM requires PDI size "25."

A1.4 Selection

Table A1.4 is included as a selection chart for standard PDI Certified grease interceptors applicable to various size fixtures commonly used in domestic, commercial and institutional installations. The selections listed are based on the sizing formula covered in Table A1.3.

A1.5 Dishwashers

A separate grease interceptor is recommended for each commercial dishwasher. The size of the interceptor is determined by the GPM discharge rate of the dishwasher as specified by the manufacturer. Select proper interceptor of equivalent or next higher rate from Table A1.2.

Table A1.4
Selection Chart
 (Metric Equivalents Omitted for Simplicity)

Fixture Compartment Size (inches)	Number of Compartments	Drainage Load (Gallons)	Recommended PDI Size Grease Interceptor	
			One-minute drainage period	Two-minute drainage period
18 x 12 x 6	1	4.2	7	4
18 x 14 x 8	1	5.8	7	4
20 x 18 x 8	1	9.4	10	7
18 x 16 x 8	2	15.0	15	10
20 x 18 x 8	2	18.7	20	10
30 x 20 x 8	1	15.5	20	10
24 x 20 x 12	1	18.7	20	10
22 x 20 x 8	2	23.0	25	15
22 x 20 x 12	2	34.0	35	20
24 x 24 x 12	2	44.9	50	25

A1.6 Multiple Fixtures

Where multiple fixtures are served by a single interceptor, calculate the total capacity of all fixtures, establish the maximum number of fixtures that may be drained simultaneously and apply this factor to the total capacity to determine the maximum simultaneous capacity. Then proceed with sizing and selection of interceptor using sizing formula Table A1.3.

A1.7 Alternate Sizing Method Based on Drainage Fixture-Units

Most plumbing codes list drainage Fixture-Unit values for plumbing fixtures and for fixtures not listed, these values are given for drain outlet or trap size. Fixture-Unit values are converted to discharge rates on the basis of one Fixture-Unit equaling 7.5 GPM. See Table A1.7 for recommended PDI size grease interceptor based on drainage Fixture-Unit sizing method.

Table A1.7

Fixture Outlet or Trap Size (inches)	Drainage Fixture-Unit Value	GPM Equivalent	PDI Size Grease Interceptor
1 $\frac{1}{4}$	1	7.5	10
1 $\frac{1}{2}$	2	15.0	15
2	3	22.0	25
2 $\frac{1}{2}$	4	30.0	35
3	5	37.5	50
4	6	45.0	50

A2.0 Installation

A2.1 Installation Considerations

A2.1.1 Install interceptor as close as practical to fixture or fixtures being served, see figures A2.5.1 through A2.5.5. The interceptor may be set on the floor, partially recessed in the floor, with top flush

with the floor, or fully recessed below the floor to suit piping and structural conditions.

- A2.1.2 Anticipate sufficient clearance for removal of interceptor cover for cleaning.
- A2.1.3 Avoid installation wherein long runs of pipe (exceeding 25 feet) are necessary to reach interceptor. This precaution will preclude the possibility of pipeline becoming clogged with congealed grease that will collect before reaching the grease interceptor.
- A2.1.4 Do not install grease interceptor in waste line from garbage grinder. Garbage grinder waste must bypass interceptor, for rapid accumulation of solid matter will greatly reduce grease interceptor efficiency preventing operation in compliance with rated capacity.

A2.2 Flow Control

- A2.2.1 The flow control fitting furnished with PDI certified interceptors must be installed ahead of interceptor in the waste line beyond the last connection from the fixture and as close as possible to the underside of lowest fixture. When waste of two or more sinks or fixtures are combined to be served by one interceptor, a single flow control fitting should be used.
- A2.2.2 Air intake for flow control may terminate under sink drain board as high as possible to prevent overflow or terminate in a return bend at the same height and on outside of building. When fixture is individually trapped and back-vented, air intake may intersect vent stack. All installation recommendations subject to approval of code authority.

A2.3 Venting

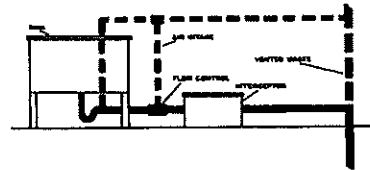
Grease interceptors must have a vented waste, sized in accordance with code requirements for venting traps to retain water seal and prevent siphoning.

A2.4 Multiple Fixture Installation

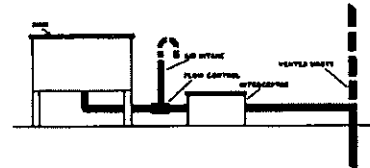
One interceptor to serve multiple fixtures is recommended only where fixtures are located close together. In such installations, each fixture should be individually trapped and back-vented.

A2.5 Installation Diagrams

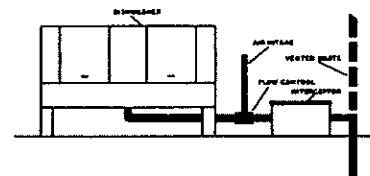
Figures A2.5.1 through A2.5.5 are included to illustrate various grease interceptor installations normally encountered in domestic, commercial and institutional systems. These figures will serve as a guide to practical application of grease interceptors.



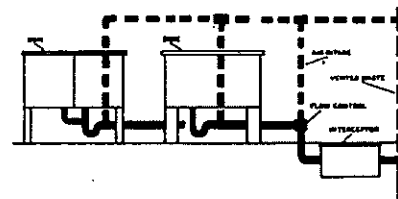
Interceptor Serving Trapped and Vented Sink-Flow Control Air Intake Intersects Vent
Fig. A2.5.1



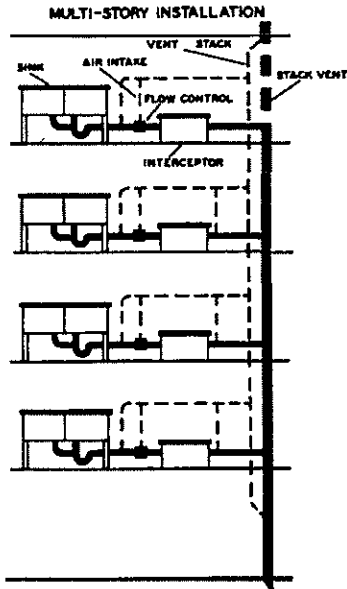
Interceptor Serving Sink-Flow Control Air Intake Terminates in a Return Bend Above Flood Level
Fig. A2.5.2



Interceptor Serving Dishwasher-Flow Control Air Intake Terminates Above Flood Level
Fig. A2.5.3



Interceptor Serving Two Individually Trapped and Vented Sinks-Flow Control Air Intake Intersects Vent
Fig. A2.5.4



Interceptors Sewing Trapped and Vented Sinks-Flow Control Air intakes Intersect Vent
Fig. A2.5.5

A3.0 Maintenance

A3.1 General Considerations

To obtain optimum operating efficiency of a properly sized and installed PDI certified grease interceptor, a regular schedule of maintenance must be

adhered to. All PDI certified grease interceptors are furnished with manufacturer's operating and maintenance instructions, which must be followed to insure efficient satisfactory operation.

A3.2 Cleaning

All grease interceptors must be cleaned regularly. The frequency of grease removal is dependent upon the capacity of the interceptor and the quantity of grease in the waste water. Grease removal intervals may therefore vary from once a week to once in several weeks. When the grease removal interval has been determined for a specific installation, regular cleaning at that interval is necessary to maintain the rated efficiency of the interceptor. After the accumulated grease and waste material has been removed, the interceptor should be thoroughly checked to make certain that inlet, outlet and air relief ports are clear of obstructions.

A3.3 Disposition of Intercepted Materials

Grease and other waste matter that has been removed from the interceptor should not be introduced into any drain, sewer, or natural body of water. This waste matter should be placed in proper containers for disposal. Where recovery of grease is desired, it can be handled in a manner suitable to the authorities.



THE PLUMBING AND DRAINAGE INSTITUTE
45 Bristol Drive • Suite 101 • South Easton, MA 02375
Tel: (800) 589-8956 • Fax: (508) 230-3529

Appendix A. {Amend as follows.}

EXHIBIT "A"

**CITY OF ABILENE
PLUMBING PERMIT FEES**

The permit and inspection fees, herein provided, shall be paid to the City before the issuance of a permit and before any work is started.

Minimum Permit Fee	\$30.00
Reinspection Fee	30.00
Water Heater	5.00
Each Plumbing Fixture	2.00
Sand Trap, Grease Trap, Interceptors	5.00
Sewer	5.00
Trenchless Sewer System	40.00
Alley Cuts, Paved	5.00
Alley Cuts, Gravel	5.00
Water Service Line	5.00
Gas Service Line	5.00
Gas Test	7.50
Each Gas Opening	1.50
Gas Dryer	3.00
Outside Appliance	3.00
Boiler to 3 HP	6.00
Boiler 3 HP, to/and including 15 HP	10.00
Boiler over 15 HP, to/and including 30 HP	15.00
Boiler over 30 HP, to/and including 50 HP	25.00
Boiler over 50 HP	50.00
Sprinkler Permit Through 2"	25.00
Sprinkler Permit Over 2"	35.00
Mobile Home Sewer P-Trap	5.00
Septic Tank	10.00
Water Softener	10.00
Rain Water Roof Drain	3.00
Infrared Radiant Heaters	5.00
Wall Heaters	5.00
Floor Furnaces	8.00
Unit Heaters	5.00
Backflow Prevention Device	15.00
Temporary Gas Service	15.00

OTHER INSPECTIONS AND FEES

Inspections outside of normal business hours (Minimum Charge-one hour)	\$50.00
Special Request Inspections (Minimum Charge-one hour)	50.00
Contractor's Registration (annually, due by December 31 of each year)	50.00
Board of Building Standards and Mechanical, Plumbing, Electrical, and Swimming Pool	
Pool Board of Appeals request for hearing for alternate methods and materials	50.00

**APPENDIX C
GRAY WATER RECYCLING SYSTEMS**

{Add the following.}

C102

GREY WATER SYSTEMS FOR RESIDENTIAL WASHING MACHINE DRAINS

These guidelines pertain only to graywater systems for residential laundry washing machine drains for surface irrigation. Only the wastewater from residential laundry washing machines shall be utilized for this graywater system. All other waste must drain to the public sewer in accordance with the City of Abilene Plumbing Code.

Installation

- Piping installed inside or within a structure shall comply with this guideline and with the International Plumbing Code, as adopted by the City of Abilene.
- All piping shall be installed by a licensed, bonded plumbing contractor, or a homeowner at his/her homestead.
- A permit shall be obtained from the Building Inspection Department.
- An inspection shall be made before any piping work can be covered up.
- Piping outside the structure shall be installed in accordance with the TCEQ on Site Sewage Facilities Rules and the Environmental Health Section, Community Enhancement Division.
- A Certified OSSF Installer or a homeowner of a single-family residence shall install all piping outside the structure.

Graywater Disposal

Disposal shall comply with TCEQ Guidelines as follows:

- Graywater from residential laundry washing machines may be discharged directly onto the ground surface under the following conditions:
 1. Irrigation must not create a public health nuisance such as surface ponding.
 2. The irrigated area must support plant growth such as bushes or be overlaid with vegetative cover. The area must be of a limited access and use by residents, pets, and to foot traffic.
 3. Graywater from soiled diapers must be treated in accordance with 30 TAC 285.32 (relating to Criteria for Sewage Treatment Systems), 30 TAC 285.33 (relating to disposal processes-non-standard for surface irrigation systems), and disinfected in accordance with 30 TAC 285.7 (relating to Additional Requirements for Surface Irrigation Systems) prior to irrigation.
 4. Do not irrigate an area if the soil is already wet.
 5. The use of detergents, which contain a significant amount of phosphorus, sodium, or boron, should be avoided.
 6. A lint trap at the end of the discharge line is required.
 7. Residences or commercial laundry operations utilizing permanently installed surface irrigation systems shall adhere to all 30 TAC 285 requirements for surface irrigation.
- Material for exterior piping shall be ADS polyethylene drainage pipe by Advanced Drainage Pipe that meets ASTM F405 and F667 or equal.

Specific Requirements for Piping Installation Inside and on the Structure

- **Trap and Standpipe**

1. Each standpipe shall be trapped, and the trap shall be a minimum 2".
2. Each standpipe shall be installed a minimum of 18" and a maximum of 42" above the trap.
3. The trap must be installed above the floor.

- **Drain**

1. Horizontal drain must have a minimum slope of 1/4" per foot of fall.
2. PVC and ABS must be supported every 4'. Cast Iron must be supported every 5" (may be extended to 10' where 10' lengths are installed). Copper must be supported every 12' horizontal and 10' vertical.
3. Piping shall be installed to be protected from physical damage.
4. The maximum distance of the fixture drain (the horizontal piping from the vertical drain stack to the p-trap shall be 6".

- **Vent**

1. Each standpipe trap shall have a vent.
2. Each vent shall vent to the outside and be installed by one of the following methods:
3. Vent to the outside independently, and extend a minimum of 6" above the roof terminating in an approved flashing.
4. Revent to an existing sanitary vent. A vent that is to be revented must extend a minimum of 6" above the height of the standpipe before the vent can be offset horizontally, and must be connected to the existing vent with a proper fitting such as a solvent cemented tee for PVC and ABS, soldered tee for copper, and a tee installed with no-hub clamps for cast iron. Or an approved transition fitting listed and approved for the use. The existing vent must terminate outside the structure.
5. An approved Air Admittance Valve conforming to ASSE 1051, and installed a minimum of 4" above the weir of the trap and in a ventilated area. The air Admittance Valve shall be installed in accordance with the manufacturer's installation instructions, which are supplied with each valve.

- **Rerouting of the Existing Drain**

1. If the existing drain is to be rerouted to the graywater system, provisions must be made to permanently cap the existing abandoned drain line with an approved method:
 - a. PVC and ABS lines shall be capped by soldering a permanent cap on the drain line.
 - b. Copper drain lines shall be capped by soldering a permanent cap on the drain line.
 - c. Cast iron shall be capped by installing a clean-out plug or a cast iron blind plug on the end of the drain.
 - d. Different material may be used to cap the line if a proper transition fitting is used. The manufacturer's instruction will show which material may be joined by the use of these fittings.

- **Independent Graywater Piping System**

1. If the graywater system is installed independently of the existing laundry washing machine drain line, measures must be taken to ensure that sewer gas will not enter the structure through the abandoned drain system by capping or plugging the drain line or installing a trap primer to the existing standpipe.

Appendix E *{Amend as follows.}*

APPENDIX E SIZING OF WATER PIPING SYSTEM

{Add the following.}

E103.2.3

TABLE P2903.6
WATER-SUPPLY FIXTURE-UNIT VALUES FOR VARIOUS PLUMBING FIXTURES AND FIXTURE GROUPS

TYPE OF FIXTURES OR GROUP OF FIXTURES	WATER-SUPPLY FIXTURE-UNIT VALUE (w.s.f.u.)		
	Hot	Cold	Combined
Bathrub (with/without overhead shower head)	1.0	1.0	1.4
Clothes washer	1.0	1.0	1.4
Dishwasher	1.2	—	1.4
Full-bath group with bathrub (with/without shower head) or shower stall	1.5	2.7	3.6
Half-bath group (water closet and lavatory)	0.5	2.5	2.6
Hose bibb (allecock) ^a	—	2.5	2.5
Kitchen group (dishwasher and sink with/without garbage grinder)	1.9	1.0	2.5
Kitchen sink	1.0	1.0	1.4
Laundry group (clothes washer standpipe and laundry tub)	1.3	1.3	2.5
Laundry tub	1.0	1.0	1.4
Lavatory	0.5	0.5	0.7
Shower stall	1.0	1.0	1.4
Water closet (tank type)	—	2.2	2.2

For SF: 1 gallon per minute = 3.785 L/m.

a. The fixture unit value 2.5 assumes a flow demand of 2.5 gpm, such as for an individual lawn sprinkler device. If a hose bibb/allecock will be required to furnish a greater flow rate, the equivalent fixture-unit value may be obtained from Table P2903.5 or Table P2903.7.

TABLE P2903.6(1)
CONVERSIONS FROM WATER SUPPLY FIXTURE UNIT TO GALLON PER MINUTE FLOW RATES

SUPPLY SYSTEMS PREDOMINANTLY FOR FLUSH TANKS			SUPPLY SYSTEM PREDOMINANTLY FOR FLUSH VALVES		
Load	Demand		Load	Demand	
(Water supply fixture units)	(Gallons per minute)	(Cubic feet per minute)	(Water supply fixture units)	(Gallons per minute)	(Cubic feet per minute)
1	5.0	0.04104	—	—	—
2	5.0	0.0684	—	—	—
3	6.5	0.56892	—	—	—
4	8.0	1.05944	—	—	—
5	9.4	1.256592	5	15.0	3.0052
6	10.7	1.450376	6	17.4	3.326032
7	11.3	1.577424	7	19.8	3.646364
8	12.3	1.711304	8	22.2	3.967696
9	13.7	1.831416	9	24.6	3.288528
10	14.6	1.951728	10	27.0	3.60936
11	15.4	2.058672	11	27.8	3.716304
12	16.0	2.13888	12	28.6	3.823248
13	16.5	2.20572	13	29.4	3.930192
14	17.0	2.27256	14	30.2	4.037136
15	17.5	2.3394	15	31.0	4.14408
16	18.0	2.40624	16	31.8	4.241024
17	18.4	2.459712	17	32.6	4.357968
18	18.8	2.513184	18	33.4	4.464912
19	19.2	2.566656	19	34.2	4.571856
20	19.6	2.620128	20	35.0	4.6788
25	21.5	2.87412	25	38.0	5.07984
30	23.5	3.114744	30	42.0	5.61356
35	24.9	3.328632	35	44.0	5.88192
40	26.5	3.515784	40	46.0	6.14928
45	27.7	3.702936	45	48.0	6.41664
50	29.1	3.890088	50	50.0	6.684

For 50: 1 gallon per minute = 3.785 L/m, 1 cubic foot per minute = 0.4719 L/s.

TABLE P2903.7
MINIMUM SIZE OF WATER METERS, MAINS AND DISTRIBUTION PIPING
BASED ON WATER SUPPLY FIXTURE UNIT VALUES

Pressure Range—50 to 69 psi

METER AND SERVICE PIPE (inches)	DISTRIBUTION PIPE (inches)	MAXIMUM DEVELOPMENT LENGTH (feet)									
		40	60	80	100	150	200	250	300	400	500
3/4	3/2*	2.5	2	1.5	1.5	1	1	.5	.5	0	0
3/4	3/2	9.5	7.5	6	5.5	4	3.5	3	2.5	2	1.5
3/4	1	32	28	20	16.5	11	9	7.5	6.5	5.5	4.5
1	1	52	32	27	21	13.5	10	8	7	5.5	5
3/2	1 1/2	32	32	32	32	30	24	20	17	13	10.5
1	1 1/2	80	80	70	61	45	34	27	22	16	12
1 1/2	1 1/2	80	80	80	75	54	40	31	25	17.5	13
1	1 1/2	87	87	87	87	84	73	74	56	45	36
1 1/2	1 1/2	151	151	151	151	117	92	79	69	54	43

(continued)

TABLE P2903.7—continued
 MINIMUM SIZE OF WATER METERS, MAINS AND DISTRIBUTION PIPING
 BASED ON WATER SUPPLY FIXTURE UNIT VALUES

Pressure Range—40 to 49 psi

METER AND SERVICE PIPE (inches)	DISTRIBUTION PIPE (inches)	MAXIMUM DEVELOPMENT LENGTH (feet)									
		40	60	90	100	150	200	250	300	400	500
3/4	1/2 ^a	3	1.5	2	1.5	1.5	1	1	.5	.5	.5
3/4	3/4	9.5	9.5	8.5	7	5.5	4.5	3.5	3	2.5	2
3/4	1	32	32	32	26	18	13.5	10.5	9	7.5	6
1	1	32	32	32	31	21	15	11.5	9.5	7.5	6.5
3/4	1 1/2	32	32	32	31	31	32	32	27	21	16.5
1	1 1/2	80	80	80	80	65	52	42	35	26	20
1 1/2	1 1/2	80	80	80	80	75	59	45	39	28	21
1	1 1/2	87	87	87	87	87	87	87	78	65	55
1 1/2	1 1/2	151	151	151	151	151	130	109	95	75	63

Pressure Range—50 to 60 psi

METER AND SERVICE PIPE (inches)	DISTRIBUTION PIPE (inches)	MAXIMUM DEVELOPMENT LENGTH (feet)									
		40	60	90	100	150	200	250	300	400	500
3/4	1/2 ^a	3	3	2.5	2	1.5	1	1	1	.5	.5
3/4	3/4	9.5	9.5	9.5	8.5	6.5	5	4.5	4	3	2.5
3/4	1	32	32	32	31	25	18.5	14.5	12	9.5	8
1	1	32	32	32	31	30	22	16.5	13	10	8
3/4	1 1/2	32	32	32	31	31	32	32	32	29	24
1	1 1/2	80	80	80	80	80	66	57	48	35	28
1 1/2	1 1/2	80	80	80	80	80	75	65	55	39	29
1	1 1/2	87	87	87	87	87	87	87	87	82	70
1 1/2	1 1/2	151	151	151	151	151	151	139	120	94	79

Pressure Range—greater than 60 psi

METER AND SERVICE PIPE (inches)	DISTRIBUTION PIPE (inches)	MAXIMUM DEVELOPMENT LENGTH (feet)									
		40	60	90	100	150	200	250	300	400	500
3/4	1/2 ^a	3	3	3	2.5	2	1.5	1.5	1	1	.5
3/4	3/4	9.5	9.5	9.5	9.5	7.5	6	5	4.5	3.5	3
3/4	1	32	32	32	31	31	24	19.5	15.5	11.5	9.5
1	1	32	32	32	31	31	26	22	17	12	9.5
3/4	1 1/2	32	32	32	31	31	32	32	32	32	30
1	1 1/2	80	80	80	80	80	80	69	60	46	36
1 1/2	1 1/2	80	80	80	80	80	80	76	65	50	38
1	1 1/2	87	87	87	87	87	87	87	87	87	84
1 1/2	1 1/2	151	151	151	151	151	151	151	144	114	94

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound per square inch = 6.895 kPa.

a. Minimum size for building supply is 3/4-inch pipe.

TABLE P2903.8.1
 MANIFOLD SIZING

PLASTIC		METALLIC	
Nominal Size ID (inches)	Maximum ^a gpm	Nominal Size ID (inches)	Maximum ^a gpm
3/4	17	3/4	11
1	29	1	20
1 1/4	46	1 1/4	31
1 1/2	66	1 1/2	44

For SI: 1 inch = 25.4 mm, 1 gallon per minute = 3.785 L/min, 1 foot per second = 0.3048 m/s.

NOTE: See Table P2903.6 for main and Table P2903.6(1) for gallon-per-minute (gpm) flow rates.

a. Based on velocity limitation: plastic—12 fps; metal—8 fps.

APPENDIX H MOBILE HOMES

Section H101 Sewer Connection

1. Shall be a 3" line with a 3" trap.
2. Shall have a 3" two-way clean out downstream of trap.
Exception: An existing clean out complying with other provisions of this section is acceptable.
3. Connection to trap shall be air tight and made by mechanical means.
4. Clean out and trap shall be no more than 4' from the mobile home.
Exception: Trap and clean out may be under the mobile home if there is a minimum 18" vertical and 30" horizontal clearance.
5. When the drain line from the mobile home to the trap is exposed above grade, it shall be protected from sunlight and physical damage.

Section H102 Water Connection

1. Shall not be less than ¾" nominal size.
2. Shall have an accessible shut-off valve, within 4' of the mobile home.
3. Connection shall be made with PVC, copper or approved plastic piping.
4. Connecting line from valve to mobile home hook-up shall be insulated where exposed above grade.

Section H103 Gas Connection

1. Gas piping shall be rigid black pipe, and shall be the same size (or not less than) the mobile home inlet.
2. Gas lines shall not be buried under the mobile home.
3. Each mobile home equipped for gas shall have a gas valve and union upstream of said valve.
4. The riser shall be so located that the horizontal piping from the riser to the mobile homes does not exceed 4'.
5. The test pressure to be used shall be not less than 10 psig (68.9 kPa gauge), or at the direction of the code Official, the piping and valves may be tested at a pressure of at least 6 inches (152mm) of mercury, measured with a manometer or slope gauge. For welded piping, and for piping carrying gas at pressures in excess of 14 inches water column pressure (3.48 kPa), the test pressure shall not be less than 60 pounds per square inch (413.4 kPa).

ORDINANCE NO. 40-2005

EXHIBIT "C"

ABILENE CODE

**ARTICLE VI. CODES AND OTHER REGULATIONS
DIVISION 5. MECHANICAL CODE**

Replace Sec. 8-526 as follows:

Sec. 8-526. Adopted.

The International Mechanical Code, 2003 Edition, published by the International Code Council, Inc., together with a mechanical code pamphlet amending and supplementing that code, are hereby enacted and adopted by reference, as the mechanical code for the City of Abilene, and is hereby incorporated herein. The mechanical code pamphlet, along with the International Mechanical Code, are on file in the Building Official's and City Secretary's Offices.