

**MAINE STATE INTERNAL PLUMBING CODE  
BASED ON THE 2000 UNIFORM PLUMBING CODE**

**TRAINING PRESENTATION**



Department of Professional and Financial Regulation  
Office of Licensing and Registration

**PLUMBERS' EXAMINING BOARD**

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Augusta, ME 04333-0035

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STATE OF MAINE  
DEPARTMENT OF PROFESSIONAL  
AND FINANCIAL REGULATION  
OFFICE OF LICENSING & REGISTRATION  
PLUMBERS EXAMINING BOARD  
35 STATE HOUSE STATION  
AUGUSTA, MAINE  
04333-0035

John Elias Baldacci  
GOVERNOR

ANNE L. HEAD  
DIRECTOR

PERCY BROWN JR.  
BOARD CHAIR

To: Brianne Hasty

From: Dana Tuttle

Subject: Objectives for Local Plumbing Inspectors

Chapter 1 Administration

1. How an internal plumbing permit is filed out.
2. What to charge for a permit.
3. Who to issue a permit to.
4. When inspections are required.

Chapter 2 Definitions

1. Understand all definitions and be able to refer to them when needed.

Chapter 3 General Regulations

1. Material listing and labeled and marked.
2. Disposal of waste.
3. Prohibited fittings and practices.
4. Protection of piping and materials.
5. Table 3-2
6. Backfilling
7. Joints and connections/ soldered, solvent cement.

Chapter 4 Plumbing Fixtures and Fixture Fittings

1. Quality of fixtures.
2. Installations
3. Water closet seats.
4. Flushing devices required.
5. Floor drain and shower stalls.
6. Size of showers.
7. Separate facilities.
8. Tub and shower control valves.
9. Table 4-1



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Chapter 6 Water Supply and Distribution

1. Running water required.
2. Unlawful connections.
3. Cross connection control.
4. Materials
5. Valves
6. Tables 6-4 & 6-5
7. Size of water distribution piping.

Chapter 7 Sanitary Drainage

1. Tables 7-3 & 7-5
2. Size of drainage piping.
3. Change in direction of drainage flow.
4. Cleanouts
5. Grade of horizontal drainage piping.

Chapter 8 Indirect Wastes

1. Airgap or airbreak.
2. Food and beverage handling establishments.
3. Indirect waste piping.
4. Indirect waste receptors.
5. Chemical waste.

Chapter 9 Vents

1. Vents required.
2. Size of vent.
3. Vent pipe grades and connections.
4. Vent termination.
5. Venting for island fixtures.

Chapter 10 Traps and Interceptors

1. Traps required.
2. Traps protected by vent pipes.
3. Traps prohibited and trap seals.
4. Grease Traps and interceptors.

Chapter 11 Storm Drainage

1. Where required.
2. Roof drains.

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STATE OF MAINE  
DEPARTMENT OF PROFESSIONAL  
AND FINANCIAL REGULATION  
OFFICE OF LICENSING & REGISTRATION  
PLUMBERS' EXAMINING BOARD  
35 STATE HOUSE STATION  
AUGUSTA, MAINE  
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JOHN ELIAS BALDACCI  
GOVERNOR

ANNE L. HEAD  
DIRECTOR

November 4, 2005

TO: ALL LICENSED PLUMBERS  
SUBJECT: New Maine State Internal Plumbing Code

The State of Maine Plumbers' Examining Board has adopted a new Maine State Internal Plumbing Code based on the 2000 edition of the Uniform Plumbing Code.

In order to transition to the new code, any plumbing projects in process prior to January 1, 2006 can be completed under the old State of Maine Internal Plumbing Code.

After January 1, 2006, the plumbing code requirements of the Maine State Internal Plumbing Code, which is based on the 2000 edition of the Uniform Plumbing Code, must be followed.

Listed below are materials in the new internal plumbing code that may affect what you install.

- All materials installed shall be listed by an approved listing agency.
- Drum trap: The use of drum traps is limited to repair or direct replacement of a trap when first approved by the Local Plumbing Inspector.
- Floor drains shall be installed in conjunction with trap primers and shall be required in toilet rooms containing two or more water closets or a combination of one water closet and one urinal and all commercial kitchens.
- PVC primer with an ASTM 656 listing is required when joining PVC to PVC. Primer may be purple but not required in the new internal plumbing code. Local jurisdiction may require otherwise.
- Stud guards or nail plates are required as stated.
- Thermal expansion tanks shall be required if, when heating domestic water, excessive water pressure is present.
- Offset closet flangs are prohibited unless listed by an approved testing agency.
- Recessed PVC and ABS bushings are prohibited. Reducing couplings shall be installed.
- Left and right handed side inlet sanitary tees may be installed in the drainage system.
- Test gauges shall meet the requirements listed in the new internal plumbing code.
- Mechanical water hammer arrester devices.

Sincerely,

*Dana Tuttle*

Dana Tuttle  
Senior Plumbing Inspector



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## Maine's Plumbing Code moves into the 21<sup>st</sup> century

Training prepared by: Office of Licensing and  
Registration  
Department of Professional and Financial Regulations  
November 2005

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### Purpose of training

- To better understand the contents of the recently adopted Maine Internal Plumbing Code, based on the 2000 edition of the Uniform Plumbing Code.

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### Administrative Authority

Chapter 2

The individual official, board, department, or agency established and authorized by a state, county, city, or other political subdivision created by law to administer and enforce the provisions of the plumbing code as adopted or amended. This definition shall include the Administrative Authority's duly authorized representative.

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**“Administrative Authority Having Jurisdiction”**

- Plumbers' Examining Board
- State Plumbing Inspectors
- Local Plumbing Inspectors

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**Building Drain**

Chapter 2

That part of the lowest piping of a drainage system which receives the discharge from soil, waste and other drainage pipes inside the walls of the building and conveys it to the building sewer beginning **two (2) feet** outside the building wall.

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**Private or Private Use**

Chapter 2

Applies to plumbing fixtures in residences and apartments, to private bathrooms in hotels and hospitals, and to restrooms in commercial establishments where the fixtures are intended for the use of a family or an individual.

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## General Regulations

Chapter 3

- 301.1.1 All pipe, pipe fittings, traps, fixtures, materials, and devices used in a plumbing system shall be listed or labeled by a listing agency.
- 301.1.3 A list of accepted plumbing materials standards is included in Table 14-1.

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## Existing Buildings

- 301.1.4 In existing buildings or premises in which plumbing installations are to be altered, repaired, or renovated, the Administrative Authority has discretionary powers to permit deviation from the provisions of this code, provided that such a proposal to deviate is first submitted for proper determination in order that health and safety requirements, as they pertain to plumbing, shall be observed.

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## Protection of Piping, Materials and Structures

- 313.2 No piping shall be directly embedded in concrete or masonry .  
No structural member shall be seriously weakened or impaired by cutting, notching or otherwise, as defined in the building code.
- 313.10.1 Sleeves shall be provided to protect all piping through concrete and masonry walls.

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**Protection of Piping, Materials and Structures (cont.)**

- 313.9 Plastic and copper piping run through framing members to within one (1) inch of the exposed framing shall be protected by steel plates not less than 18 gauge.

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**Hangers and Supports  
Table 3-2**

- Refer to Table 3-2 for the maximum distances allowed for supporting horizontal and vertical piping in the plumbing systems.

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**Solvent Cement Plastic Pipe Joints**

- 316.1.6 CPVC and PVC pipe and fittings shall be cleaned and joined with listed primer(s) and solvent cement(s)

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## Food Handling Establishments

- 318.0 Food or drink shall not be stored, prepared or displayed beneath soil or drain pipes, unless those areas are protected against leakage or condensation from such pipes reaching for food or drink as described in sections 318.1 through 318.7.

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## Test Gauges

- 319.1 Required pressure tests of ten (10)psi or less shall be performed with gauges of 1/10 pound incrementation or less.
- 319.2 Required pressure tests exceeding ten (10) pounds but less than one hundred (100) psi shall be performed with gauges of one (1) psi incrementation or less.

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## Water-Conserving Fixtures and Fittings

Chapter 4

- 402.3 Water closets, either flush tank, flushometer tank, or flushometer valve operated, shall have an average consumption of not more than 1.6 gallons of water per flush.
- 402.4 Urinals shall have an average water consumption of not more than 1.0 gallons of water per flush.

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### Installation

- 408.2 Where a fixture comes in contact with a wall or floor, the joint between the fixture and the wall or floor shall be made watertight.
- 408.6 The clear space in front of any water closet or bidet shall not be less than twenty-four (24) inches.

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### Water Closets

- 409.1 Water closet bowls for public use shall be of the elongated type.
- 409.2.2 All water closet seats, except those within dwelling units, shall be of the open front type.

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### Location of Floor Drains

- 412.2 Floor drains shall be installed in the following areas:
  - Toilet rooms containing two (2) or more water closets or a combination of one (1) water closet and one (1) urinal, except in a dwelling unit.
  - Commercial kitchens
  - Laundry rooms in commercial buildings and common laundry facilities in multi-family dwelling buildings.

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### Shower Compartments

- 412.7 All shower compartments, regardless of shape, shall have a minimum finished interior of one thousand twenty-four (1024) square inches and shall also be capable of encompassing a thirty (30) inch circle.

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### Separate Facilities

- 413.3 Separate toilet facilities shall be provided for each sex.
- **Exceptions:**
  - (1) Residential installations.
  - (2) In occupancies serving ten(10) or fewer people, one (1) toilet facility, designed for use by no more than one (1) person at a time, shall be permitted for use by both sexes.
  - (3) In business and mercantile occupancies with a total floor area of 1500 square feet or less, one toilet facility, designed for use by no more than one person at a time, shall satisfy the requirements for serving customers and employees of both sexes.

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### Toilet Facilities for Workers

- 413.7 Suitable toilet facilities shall be provided and maintained in a sanitary condition for the use of workers during construction.

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### Shower and Tub/Shower Combination Control Valves

- 420.0 Showers and tub-shower combinations in all buildings other than single family dwellings shall be provided with individual control valves of the pressure balance or the thermostatic mixing valve type. Handle position stops shall be provided on such valves and shall be adjusted per the manufacture's instructions to deliver a maximum water setting of 120 degrees F.
- The water heater thermostat shall not be considered a suitable control for meeting this provision.

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### Water Supply and Distribution

Chapter 6

- 601.3 Faucets and diverters shall be connected to the water distribution system so that hot water corresponds to the left side of the fittings.

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### Excessive Water Pressure

- 608.2 Where local static water pressure is in excess of eighty pounds per square inch, an approved type pressure regulator preceded by an adequate strainer shall be installed and the static pressure reduced to eighty pounds per square inch or less.

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### Excessive Water Pressure

- 608.3 Any water system provided with a check valve, backflow preventer or a pressure regulating device which does not have a bypass feature at its source shall be provided with an approved, listed, adequately sized pressure relief valve or a means to control expansion.

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### Vacuum Relief Valves

- 608.7 All hot water storage tanks shall be equipped with a vacuum relief valve.
- The vacuum relief valve shall always be installed in the cold water supply line at a level at least six inches above the top of the tank.

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### Testing

- 609.4 Upon completion of a section or of the entire hot and cold water supply system, it shall be tested and proved tight under a water pressure not less than the working pressure under which it is to be used.
  - A fifty (50) PSI air pressure may be substituted for the water test.
  - The piping shall withstand the test for a period of not less than fifteen minutes.

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### Unions

- 609.5 Union shall be installed in the water supply within twelve inches of regulating equipment, water heating, conditioning tank, and similar equipment which may require service by removal or replacement.

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### Water Hammer

- 609.10 All building supply systems in which quick-acting valves are installed shall be provided with devices to absorb the hammer caused by high pressures resulting from the quick closing of these valves.  
These pressure-absorbing devices shall be either air chambers or approved mechanical devices.

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### Size of Potable Water Piping

- 610.3 The quantity of water required to be supplied to every fixture shall be represented by fixture units, as shown in Table 6-4. Equivalent fixture unit values in Table 6-4 include both hot and cold water demand.

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### Point of Use Drinking Water Treatment Units

- 611.2 Airgap discharge from all drinking water treatment units shall enter the drainage system through an airgap or an airgap device which meets the requirements of the appropriate standards referenced in Table 14-1.

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### Changes in Direction of Drainage Flow

- 706.2... No fitting having more than one inlet at the same level shall be used unless such fitting is constructed so that the discharge from one inlet cannot readily enter any other inlet. Double sanitary tees may be used when the barrel of the fitting is at least two pipe sizes larger than the largest inlet.

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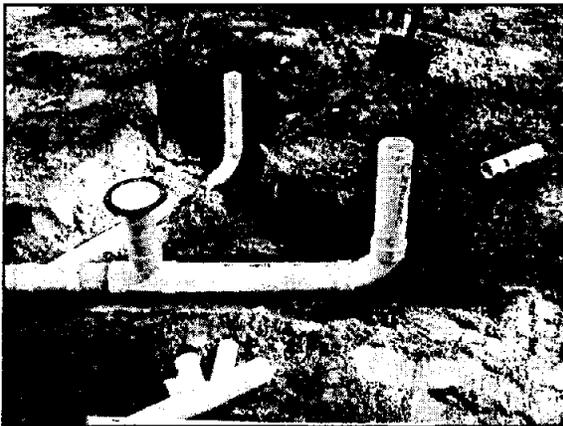
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### Cleanouts

- 707.4 Each horizontal drainage pipe shall be provided with a cleanout at its upper terminal and each run of piping, which is more than one hundred feet in total developed length, shall be provided with a cleanout for each one hundred feet, or fraction thereof, in length of such piping.

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### Cleanouts (cont.)

- 707.5 An additional cleanout shall be provided in a drainage line for each aggregate horizontal change of direction exceeding one hundred and thirty-five degrees.

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### Cleanouts (cont.)

- 707.10 Each cleanout in piping two inches or less in size shall be so installed that there is a clearance of not less than twelve inches in front of the cleanout. Cleanouts in piping larger than two inches shall have a clearance of not less than eighteen inches in front of the cleanout.

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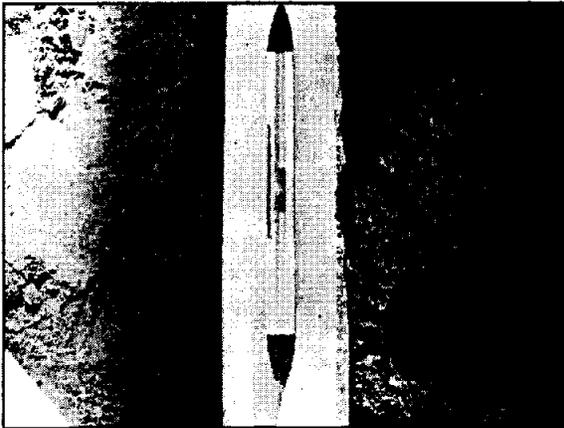
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### Grade of Horizontal Drainage Piping

- 708.0. Horizontal drainage piping shall be run in practical alignment and a uniform slope of not less than one-fourth of an inch per foot for pipe three inches and smaller. 4 inch and larger pipe may be run at not less than one-eighth of an inch per foot when first approved by the Administrative Authority.



### Testing

- 712.2 The water test shall be applied to the drainage and vent systems either in its entirety or in sections. No section shall be tested with less than a ten (10) foot head of water. The test shall be applied for a minimum of fifteen (15) minutes.

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### Testing (cont.)

- 712.3 The air test shall be made by forcing air into the system until there is a uniform gauge pressure of five (5) pounds per square inch. The pressure shall be held without introduction of additional air for a period of at least fifteen (15) minutes.

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### Indirect Waste

Chapter 8

- 801.1 Where a drainage airgap is required by this Code, the minimum vertical distance as measured from the lowest point of the indirect waste pipe or the fixture outlet to the flood level rim of the receptor shall be not less than one (1) inch.

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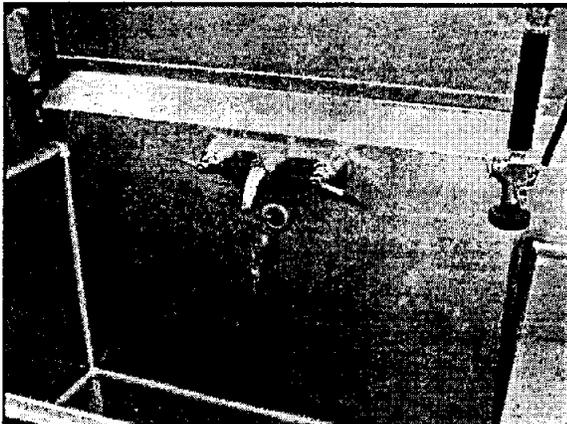
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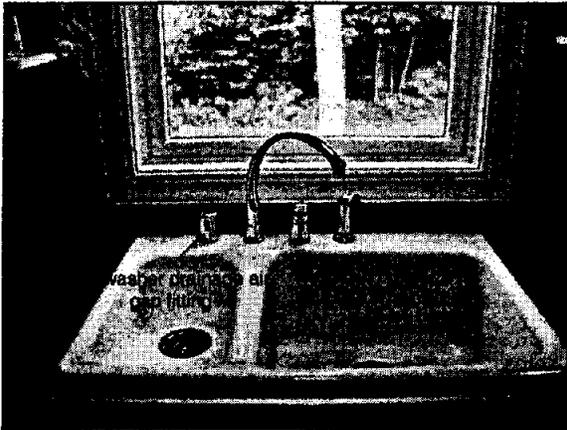
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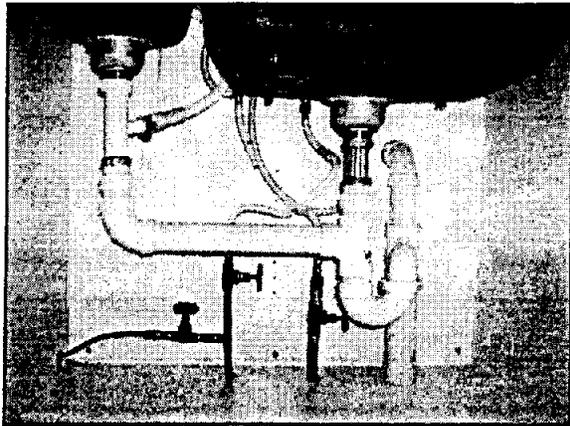
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### Indirect Waste Piping

- 803.0 No vent from indirect waste piping shall combine with any sewer connected vent, but shall extend separately to the outside air.

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### Indirect Waste Receptors

- 804.1 No trap for any clotheswasher standpipe receptor shall be installed below the floor, but shall be roughed in not less than six inches and not more than eighteen inches above the floor.

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### Vents

Chapter 9

- 901.0 Each plumbing fixture trap, except as otherwise provided in the Code, shall be protected against siphonage and back-pressure, and air circulation shall be assured throughout all parts of the drainage system by means of vent pipes installed in accordance with the requirements of this chapter and as otherwise required by this code.

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### Size of Vents

- 904.1 The drainage piping of each building and each connection to a public sewer or a private sewerage disposal system shall be vented by means of one or more vent pipes, the aggregate cross-sectional area of which shall not be less than that of the largest required building sewer, as determined from Table 7-5

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### Vent Pipe Grades and Connection

- 905.2 Where vents connect to a horizontal drainage pipes, each vent pipe shall have its invert taken off above the drainage center line of such pipe downstream of the trap.
- 905.3 Unless prohibited by structural conditions, each vent shall rise vertically to a point not less than six (6) inches above the flood level rim of the fixture being served before offsetting horizontally.

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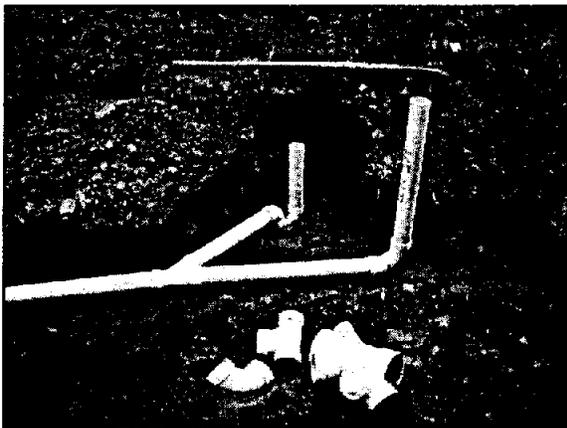
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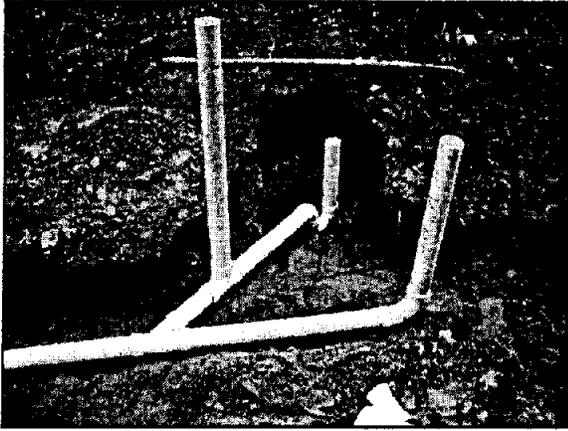
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**Vertical Wet Venting**

- 908.1 Wet venting is limited to vertical drainage piping receiving the discharge from the trap arm of one and two (2) fixture unit fixtures that also serves as a vent.
- No wet vent shall exceed six (6) feet in developed length.

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**Combination Waste and Vent Systems**

- 910.1 Combination waste and vent systems shall be permitted only where structural conditions preclude the installation of conventional systems as otherwise prescribed by this Code.
- 910.2 Plans and specifications for each combination waste and vent system shall first be approved by the Administrative Authority before any portion of any such system is installed.

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## Traps and Interceptors

Chapter 10

- 1001.1 Each plumbing fixture, excepting those having integral traps or as permitted in Section 1001.2, shall be separately trapped by an approved type waterseal trap. Not more than one (1) trap shall be permitted on a trap arm.

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## Traps and Interceptors (cont'd)

- 1001.4 The vertical distance between a fixture outlet and the trap weir shall be as short as practical, but in no case shall the tailpiece from any fixture exceed twenty-four (24) inches in length.

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## Traps Protected by Vent Pipes(cont'd)

- 1002.2 Each fixture trap shall have a protecting vent so located that the developed length of the trap arm from the trap weir to the inner edge of the vent shall be within the distances given in Table 10-1, but in no case less than two (2) times the diameter of the trap arm.
- 1002.4 The vent pipe open from a soil or waste pipe, except for water closets and similar fixtures, shall not be below the weir of the trap.

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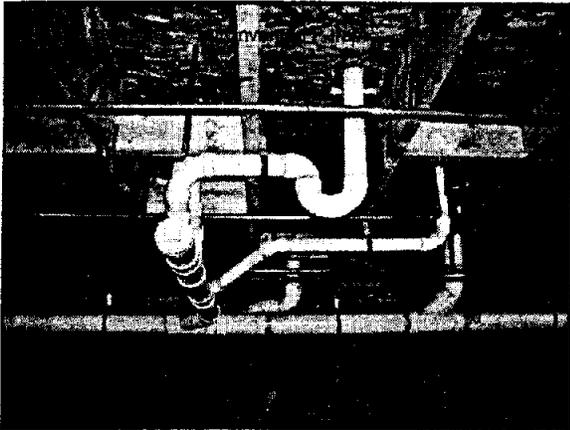
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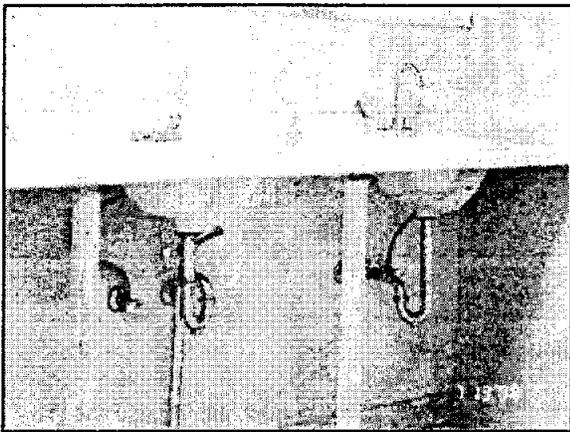
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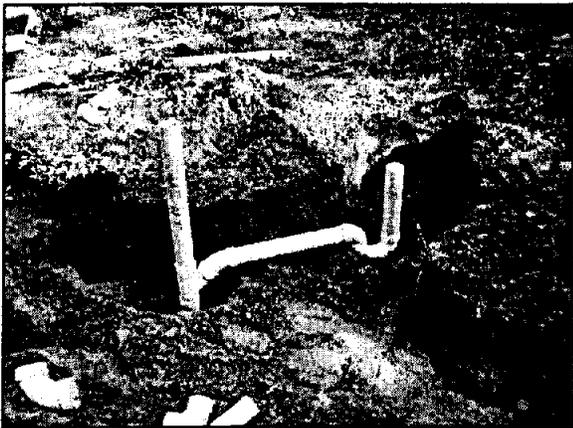
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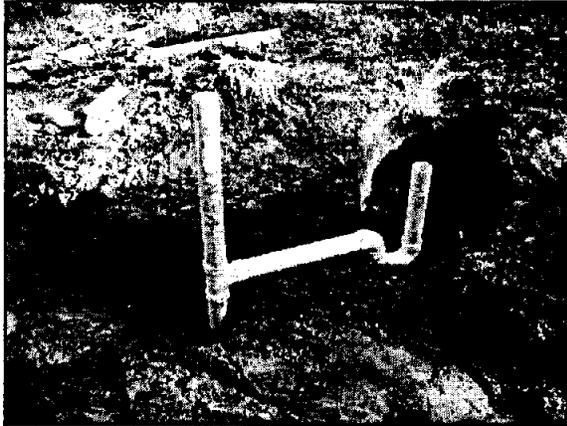
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**Trap Seal Protection (cont'd)**

- 1007.0 Floor drains or similar traps directly connected to the drainage system and subject to infrequent use shall be provided with an approved automatic means of maintaining their water seals, except where not deemed necessary for safety or sanitation by the Administrative Authority.

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**Appendix L**

- Fixture Unit Values for Bathroom Groups
- L 4.1 Tables L-1 and L-2 reflect the fixture unit loads for the fixtures in bathrooms as groups, rather than as individual fixtures. Such fixtures include water closets, lavatories and bathtubs or showers.

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**Single Bathroom or Single Toilet Room**

- L 6.2.1 An individually-vented lavatory in a single bathroom or single toilet room shall be permitted to serve as the wet vent for one (1) water closet and or / one (1) bathtub or shower-stall, or one (1) water closet and / or one (1) bathtub or shower combination if all of the following conditions are met:

(1) The wet vent, and the dry vent extending from the wet vent, shall be two (2) inch minimum pipe size.

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**Single Bathroom or Single Toilet Room (cont'd)**

- (2) The wet vent pipe opening shall not be below the weir of the trap that it serves. Vent sizing, grade, and connections shall comply with Section 904.0 and 905.0
- (3) The horizontal branch drain serving both the lavatory and the bathtub or shower stall shall be two (2) inch minimum pipe size.
- (4) The length of the trap arm from the bathtub or shower stall complies with the limits in Table 10-1

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**Single Bathroom or Single Toilet Room (cont'd)**

- (5) The distance from the outlet of the water closet to the connection of the wet vent complies with the limits in Table 10-1
- (6) The horizontal branch drain serving the lavatory and the bathtub or shower stall shall connect to the horizontal water closet branch above its centerline.
- (7) No fixture other than those listed in L 6.2.1 shall discharge through a single bathroom or single toilet room wet vented system.

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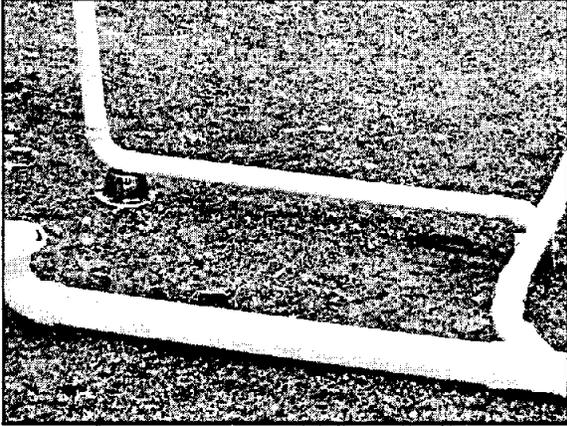
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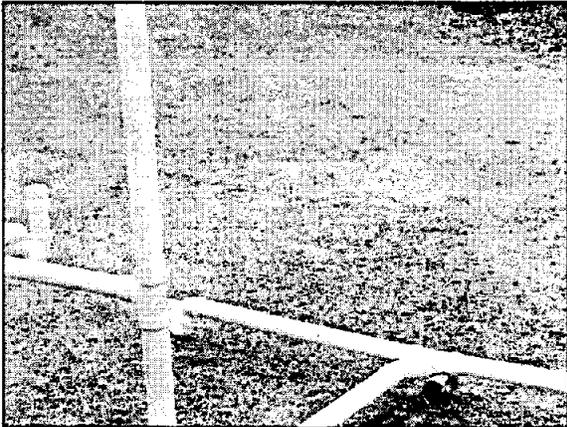
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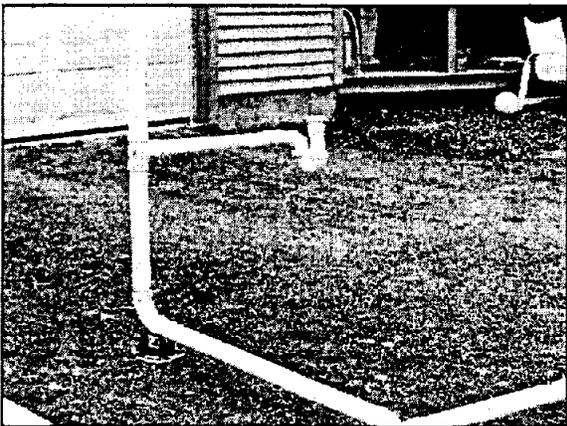
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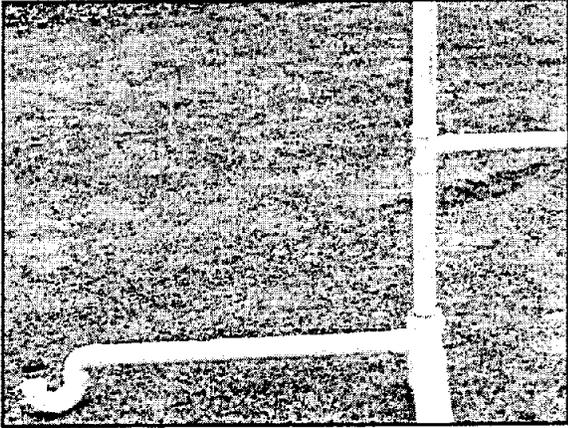
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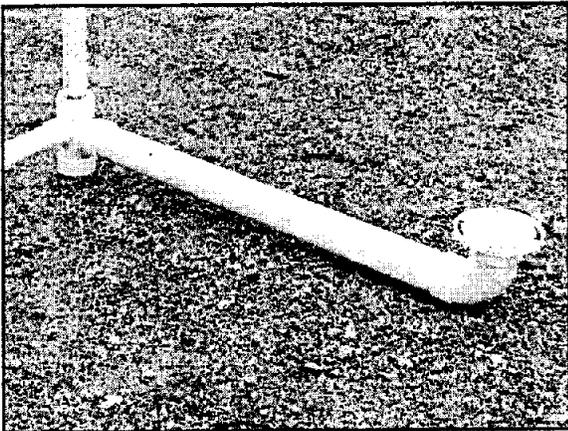
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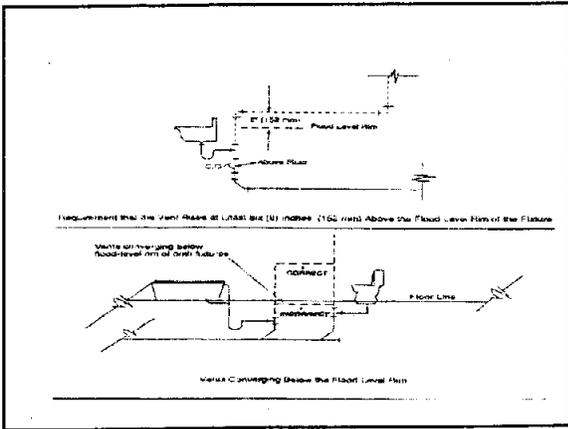
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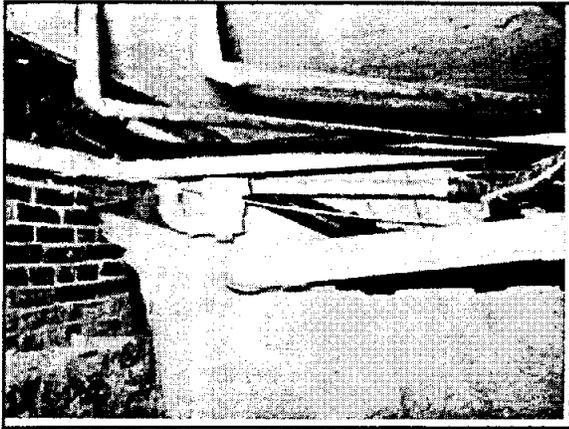
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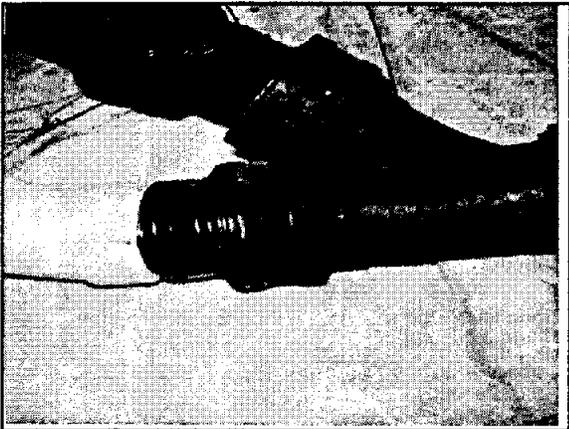
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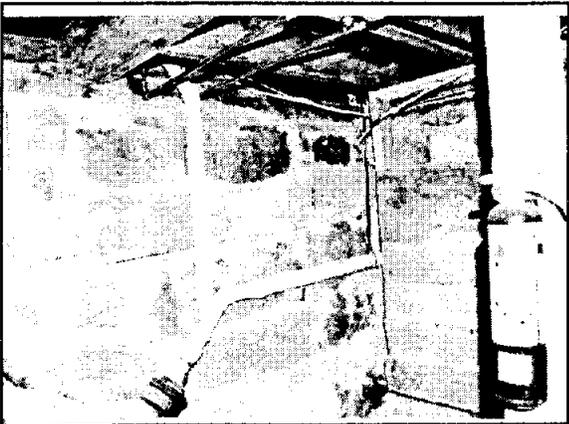
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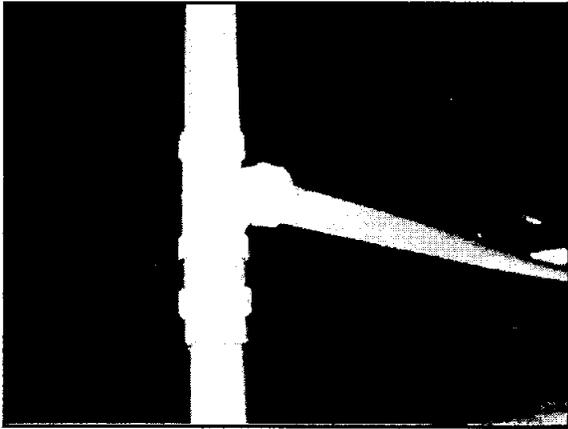
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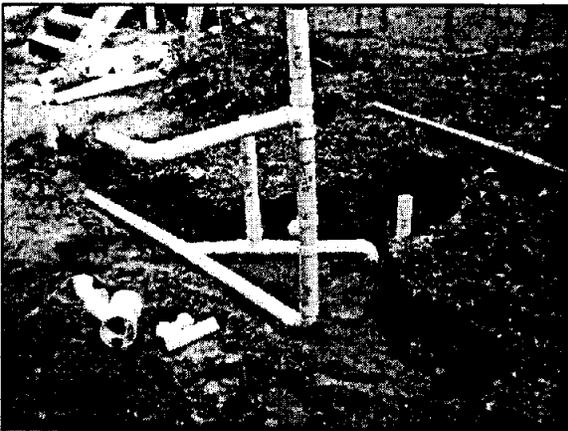
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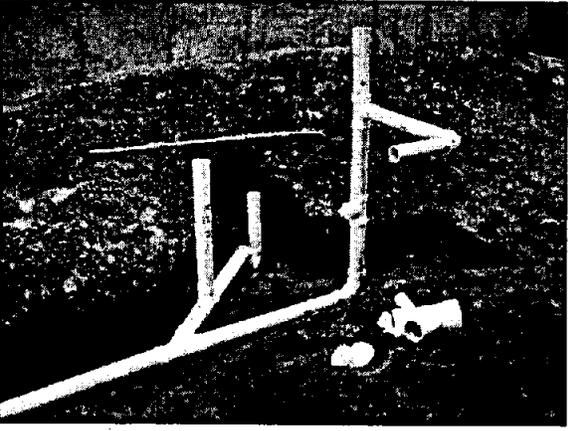
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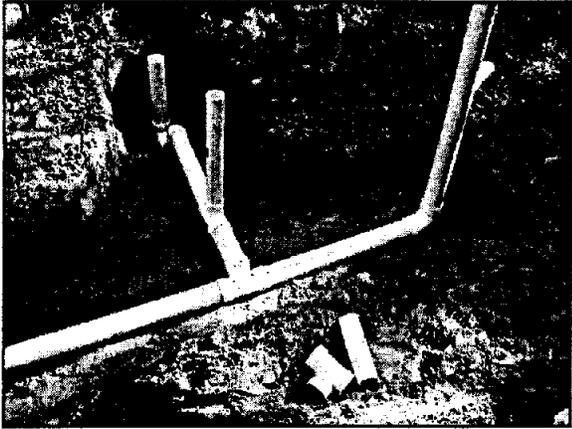
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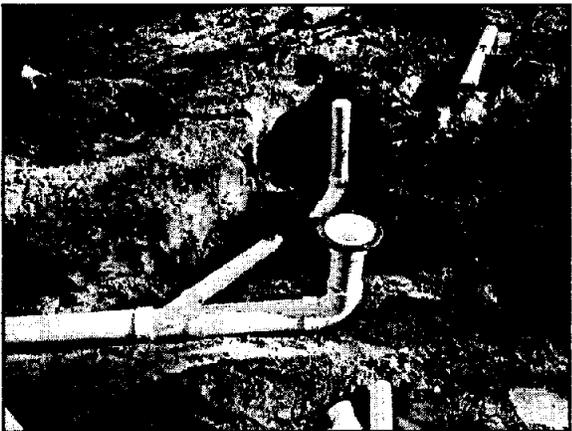
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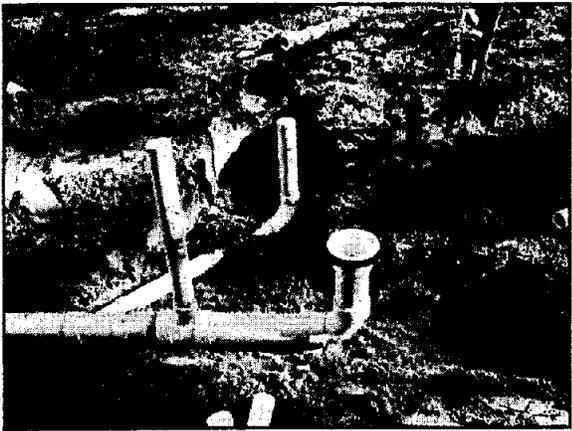
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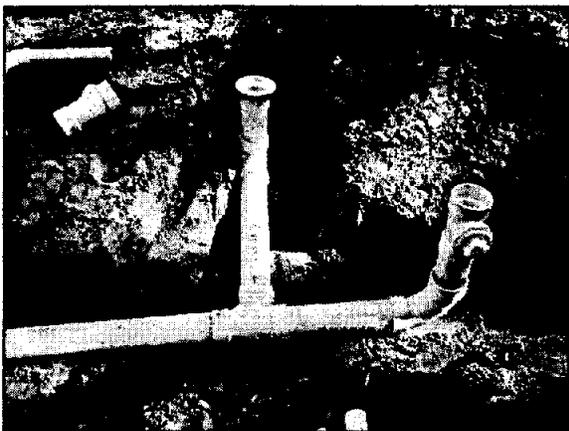
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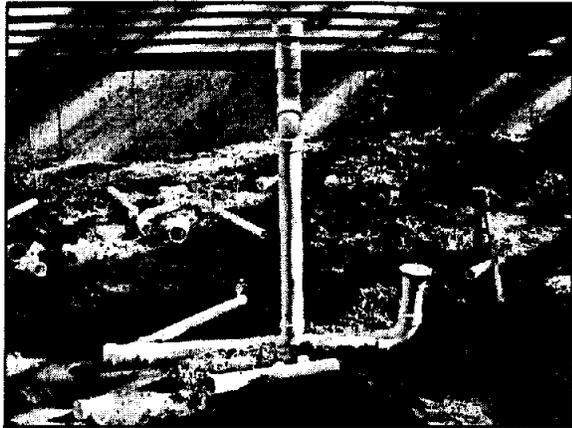
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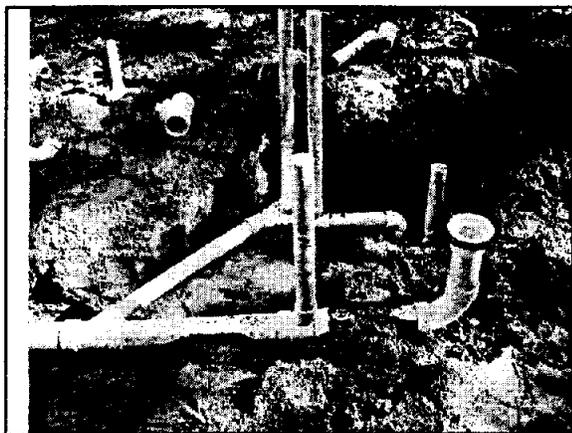
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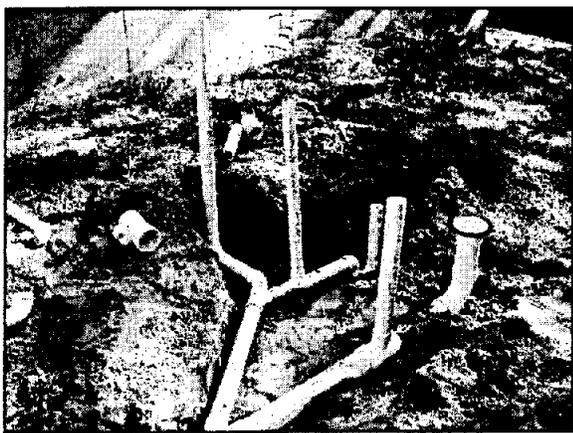
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Office of Licensing and  
Registration  
State Plumbing Inspectors

- Dana Tuttle, cellular 592-6362
- Bruce Greeley, cellular 592-6518
- 624-8639, office voice mail
- Board Clerk, 624-8627
- 207-624-8637 Fax

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Addresses

- [www.maineprofessionalreg.org](http://www.maineprofessionalreg.org)
- [dana.c.tuttle@Maine.gov](mailto:dana.c.tuttle@Maine.gov)
- [bruce.a.greeley@Maine.gov](mailto:bruce.a.greeley@Maine.gov)
- Physical Address:
- 122 Northern Avenue
- Gardiner, Maine 04345
- Mailing address:
- #35 State House Station
- Augusta, ME 04333-0035

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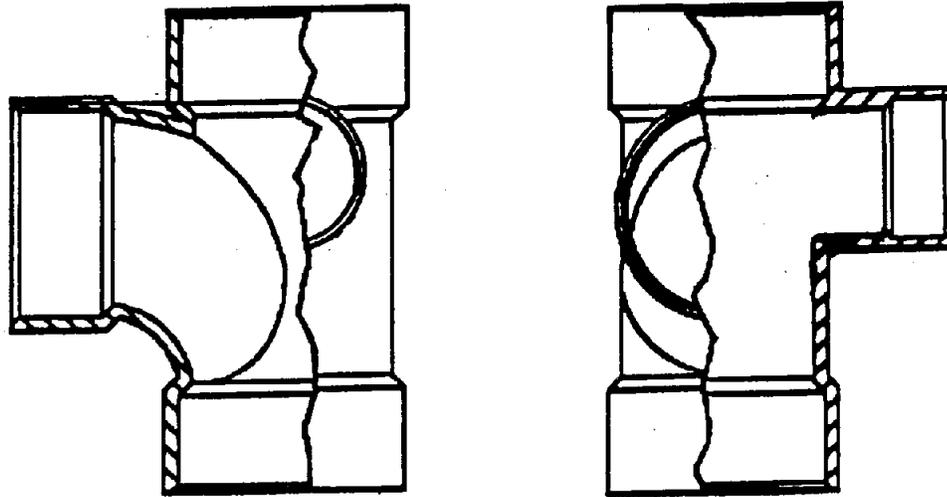
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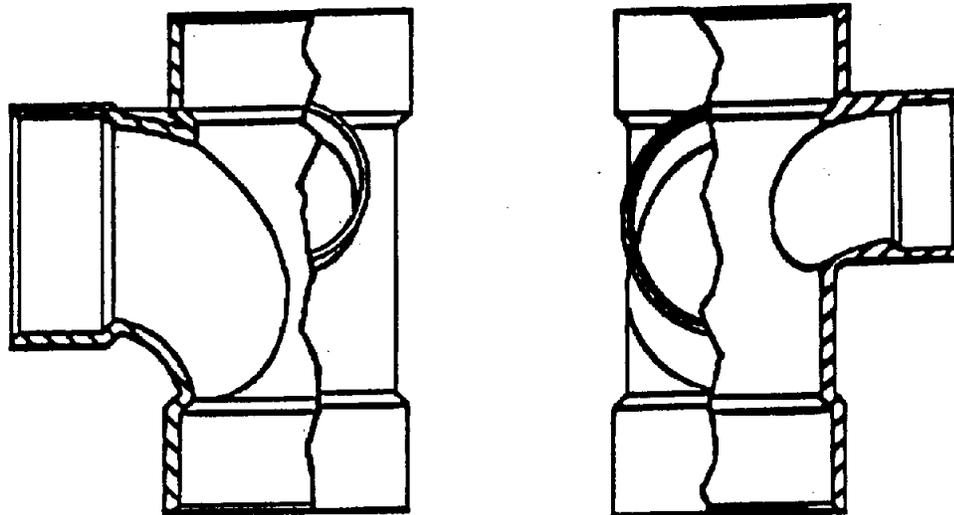
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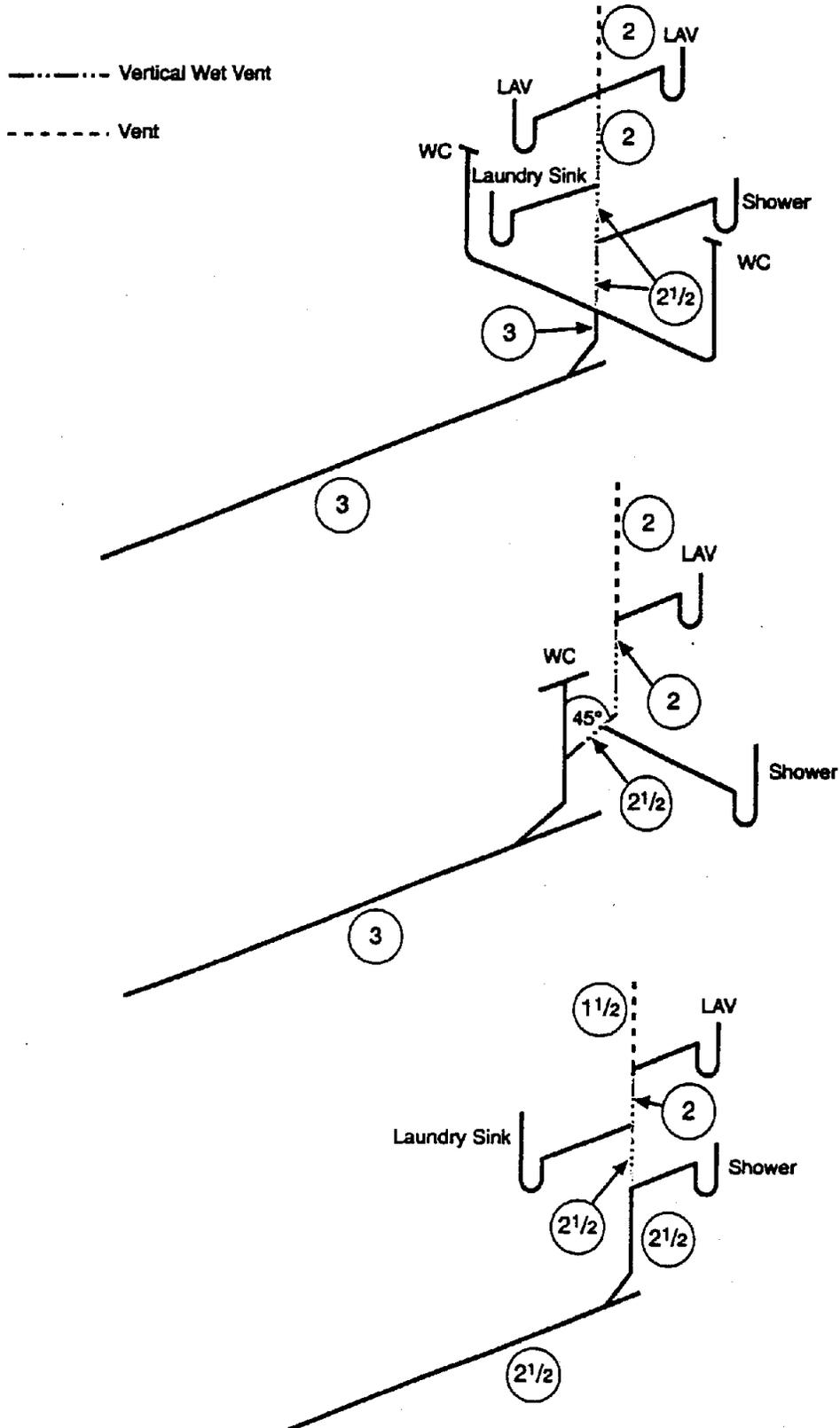
**THIS FITTING IS NOT APPROVED FOR DWV INSTALLATIONS**



**THIS FITTING IS APPROVED FOR DWV INSTALLATIONS**

# UPC SEMINAR ANSWER KEY (CONTINUED)

Page 29



**Horizontal to Vertical**

Fittings A through E may be used for vertical drain piping picking up horizontal branches.

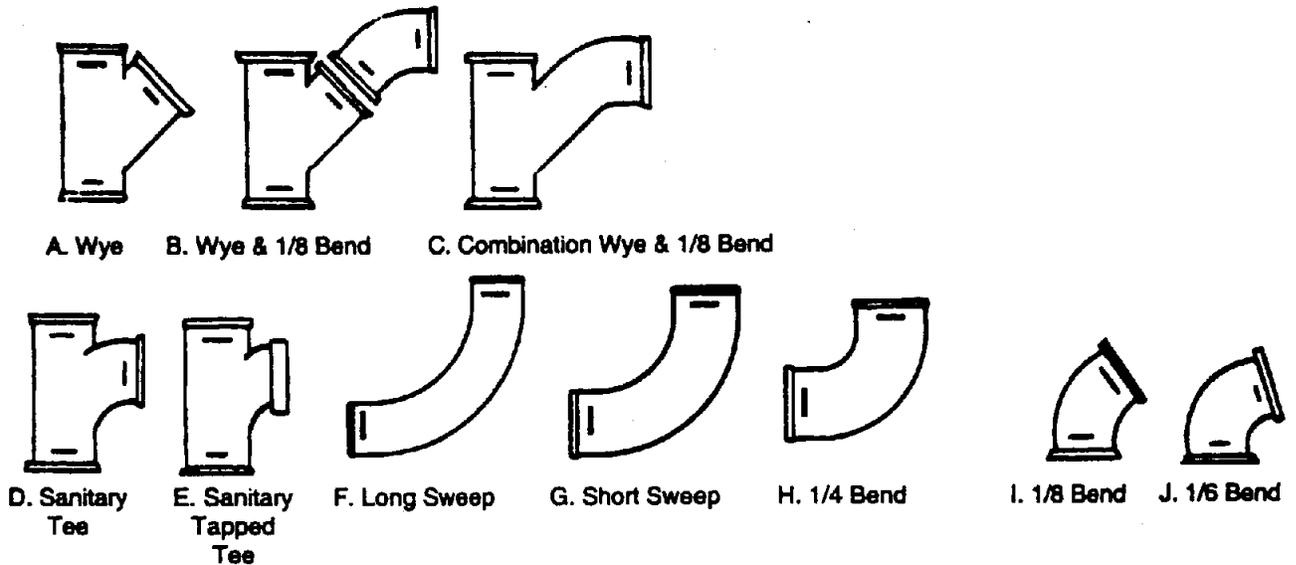
Fittings F to J may be used for horizontal drain piping changing to a vertical direction.

**Vertical to Horizontal**

Fittings A, B, C, F, G and J may be used for this type of change in direction. Fitting J may be used when installed in a true vertical position.

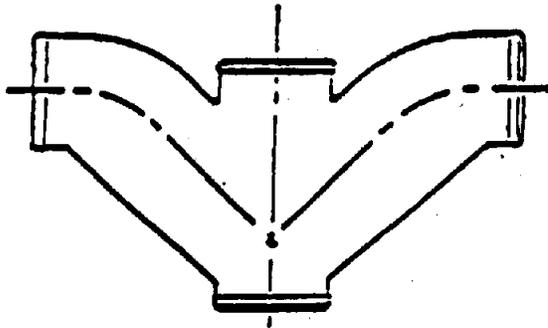
**Horizontal to Horizontal**

Fittings A, B, C, F, G and I may be used for this type of change in direction.

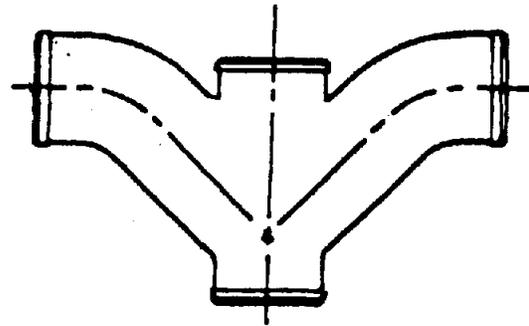


**Figure 7-13**  
Fittings for Changes of Direction of Flow

**704.2** Two fixtures set back-to-back, or side-by-side, within the distance allowed between a trap and its vent, may be served by a single vertical drainage pipe provided that each fixture wastes separately into an approved double fixture fitting having inlet openings at the same level.



**DOUBLE FIXTURE FITTING - ENLARGED CHAMBER TO PREVENT CROSS-FLOW FROM ONE FIXTURE TO ANOTHER**



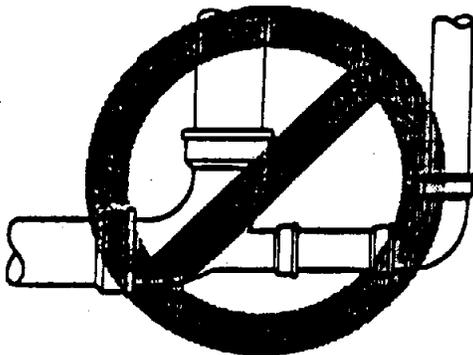
**DOUBLE COMBINATION WYE & 1/2 BEND - HORIZONTAL DRAINAGE TO VERTICAL DRAINAGE**

**Heel or Side-Inlet Bends**

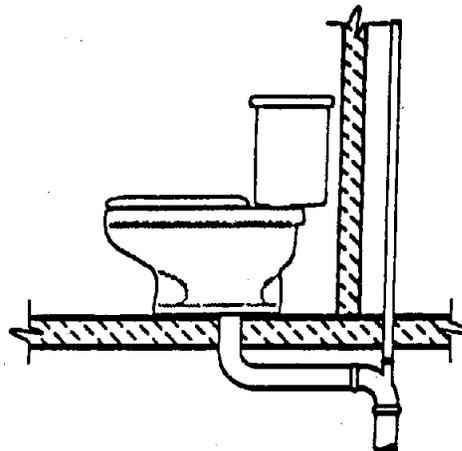
a. A heel or side-inlet quarter bend shall not be used as a dry vent when the inlet is placed in a horizontal position or any similar arrangement of pipe or fittings producing a similar effect, unless the entire fitting is part of a dry vent arrangement.

When it is used as part of a wet vent system, the heel or side-inlet bend shall be acceptable.

See Figures 2.4.2a and 2.4.2b



**FIGURE 2.4.2a HEEL OR SIDE INLET IN DRY VENT ARRANGEMENT— PROHIBITED IF VENT IS NOT WASHED**



**FIGURE 2.4.2b AN EXAMPLE OF HEEL INLET IN VERTICAL POSITION— APPROVED USE**

**NOTE:** IN A HORIZONTAL POSITION, THE VENTING EFFECT COULD BE NEGATED IN THE EVENT OF A LINE STOPPAGE.

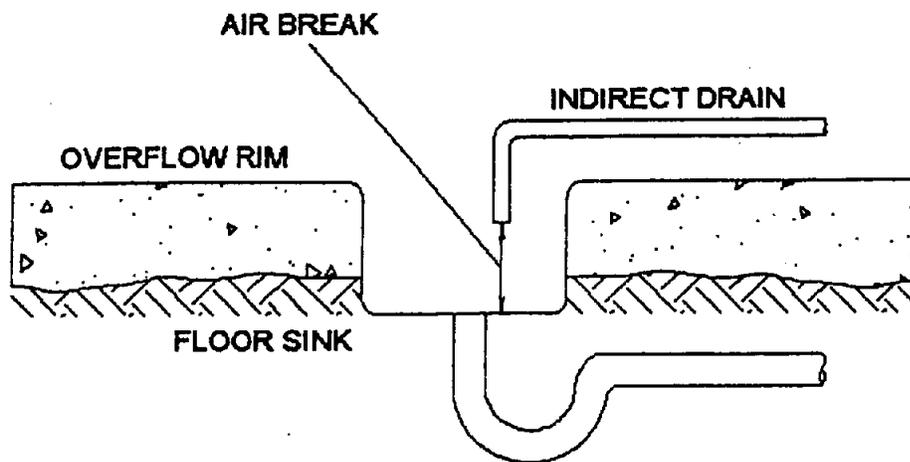


FIG. 7-6

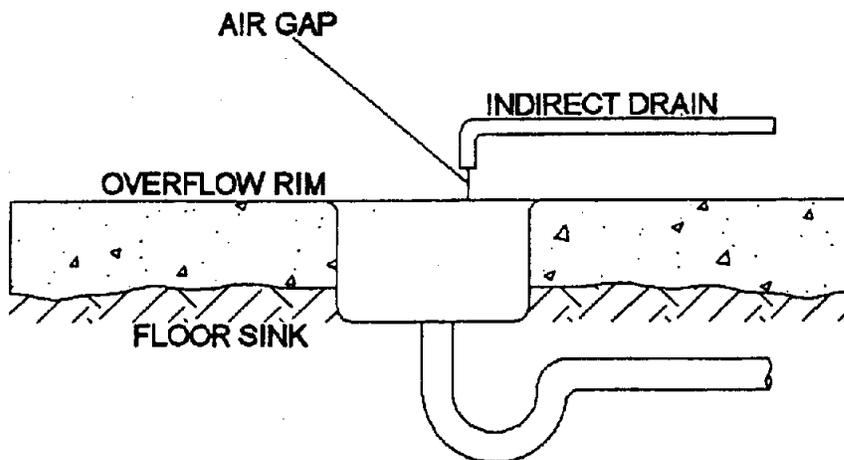


FIG. 7-7

If the pipe is installed at 32°F (0°C) (freezing) and the operating temperature of the hot water is 180°F (82°C), there is almost a 150°F (65.5°C) temperature rise. This is fifty percent (50%) more than the values expressed in the example. Connections to the hot water piping system shall be made with offsets, swing joints or flexible tubing.

Voids around piping passing through concrete floors on the ground shall be appropriately sealed. This must be done in a manner which is durable and water proof. Consideration must also be given to prevent the entry of vermin and insects into the room or into the building.

**313.2** Provision must be made for settlement or expansion and contraction of piping. (See Figure 3-17) Pipe passing through a wall to an underground location should pass through a box or sleeve.

Regardless of the method used to pass pipe through walls above the ground, there must be provision to allow movement of the pipe.

All piping in connection with a plumbing system shall be so installed that piping or connections will not be subject to undue strain and stress. Examples of methods to avoid strain on pipes are illustrated in Figure 3-18.

→ No piping shall be directly embedded in concrete or masonry. This includes, but is not limited to slabs, walls or footings. Piping may pass at an

approximate right angle through a concrete or block wall if sleeved per Section 313.0. The intention here is that piping shall not be located longitudinally within or pass through concrete walls or in concrete slabs where a slight shifting or settlement can result in a major plumbing pipe failure. A pipe chase must be provided in the concrete wall when piping is to be recessed. In no case shall the building impose a load on the pipe which could result in breakage or leaks in the piping system. Figure 3-18 shows some recommended and prohibited piping installations.

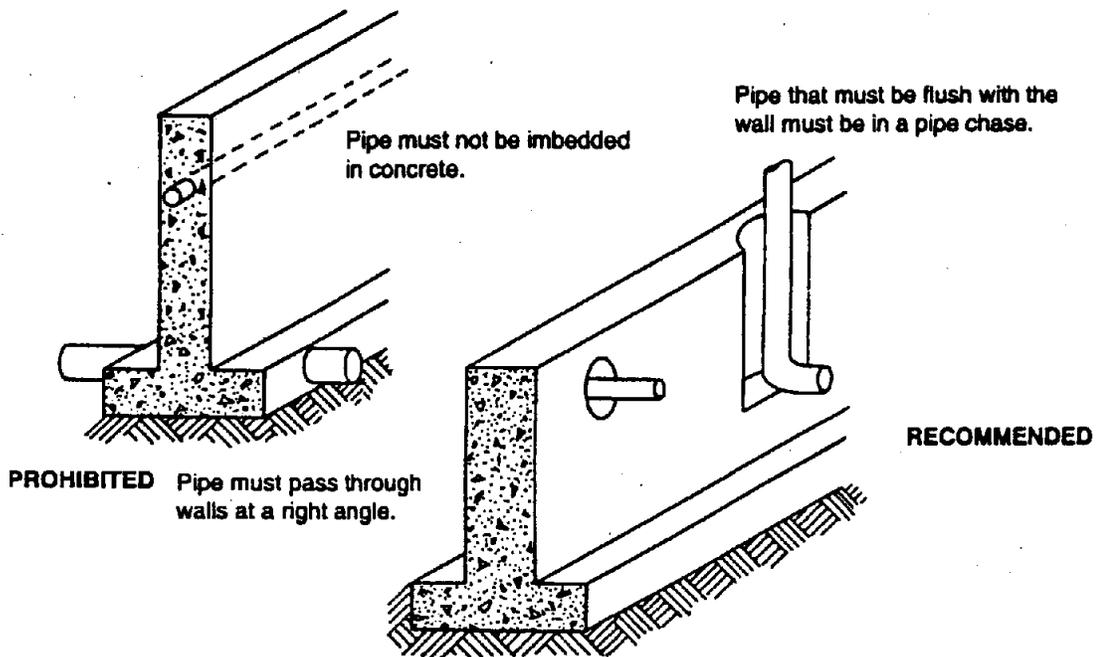
The building shall not impose a load on the pipe which could result in breakage or leaks in the piping system.

**313.3** All trenches deeper than the footing of any building or structure and paralleling the same must be at least 45° (0.79 rad) therefrom, unless permission is otherwise granted by the Administrative Authority.

The weight of a structure is not simply imposed vertically, directly below the base pad of its footing. Weight loading radiates from the base pad the proportion of the load being variable from maximum in the vertical plane to minimum at a point radiating forty-five degrees (45°) from the vertical.

Consequently piping installed within this forty-five degree (45°) arc would carry some portion of the load imposed at the footing pad. This could result in eventual pipe failure, building settlement, or both.

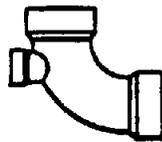
The Administrative Authority may grant permis-



**Figure 3-18**  
Recommended and Prohibited Piping Installations Allowing for Expansion and Contraction of Piping and Settlement of Buildings

## 311.0 Prohibited Fittings and Practices.

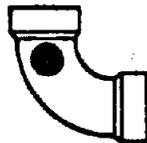
### GENERAL REGULATIONS



**Hi-Heel Inlet 1/4 Bend**  
Prohibited in drainage system.  
May be used in vent system.



**Cast Iron Double Hub**  
Prohibited in drainage system.



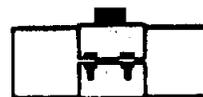
**Hi-Side Inlet 1/4 Bend**  
This fitting is made with single or double side inlets. It is prohibited in drainage system.  
May be used in vent system.



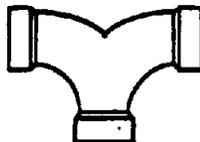
**Cast Iron Twin Tapped Tee**  
Prohibited in drainage system



**Side Inlet 1/4 Bend**  
This fitting is made with single or double side inlets. It is prohibited in drainage system.  
May be used in vent system.



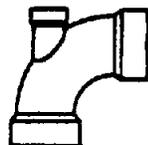
**Saddle on Pipe**  
Saddle fittings are prohibited in drainage and vent systems



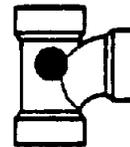
**Twin Ell or Double 1/4 Bend**  
This fitting is prohibited in the drainage system. May be used in vent system.



**Offset Closet Flange**  
Offset closet flanges are prohibited in drainage and vent systems.



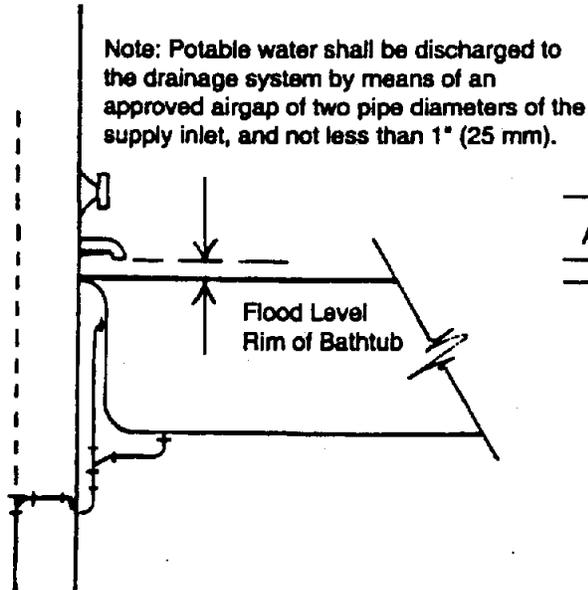
**Low-Heel Inlet 1/4 Bend**  
May be used in the drainage system but only with heel inlet installed in the vertical position facing upwards.  
May be used in vent system.



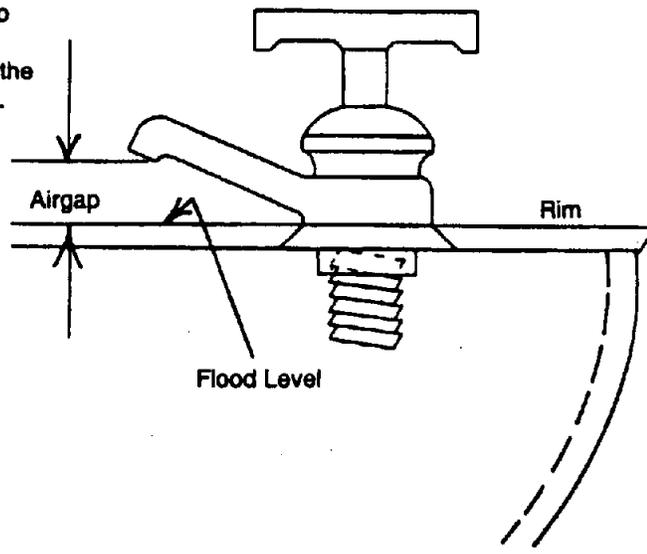
**Sanitary Tee with Single or Double Side Inlet**  
Manufactured as single or double sanitary tee with either single or double side inlet. Prohibited in drainage system if side inlets are straight pattern. Allowed in drainage system if side inlets are drainage pattern. Must be installed in vertical position in the drainage system. Either side inlet pattern may be used in vent system.

Figure 3-11

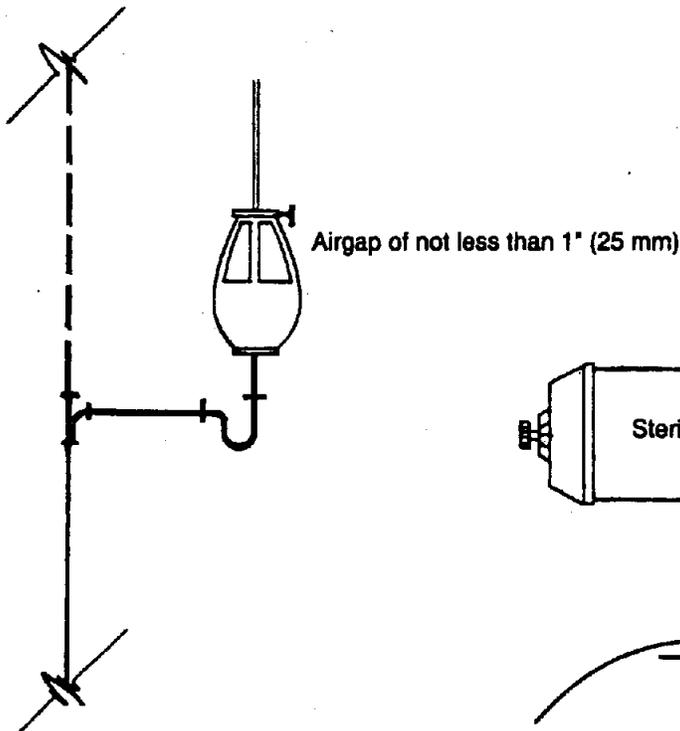
Proper and Improper Uses of Fittings in Drainage and Vent System



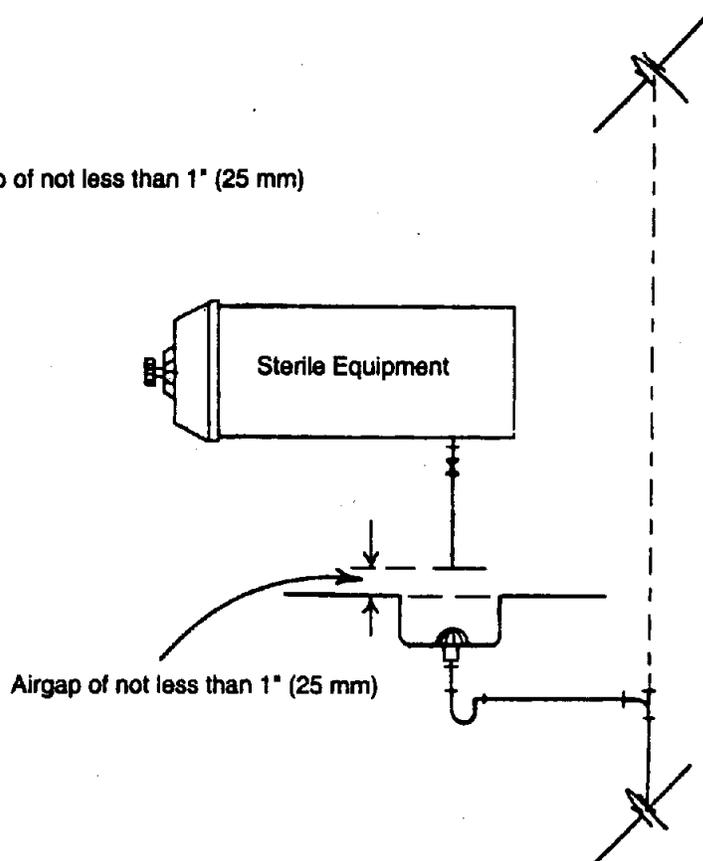
**Figure 8-2A**  
Airgap as Applied to Water Supply



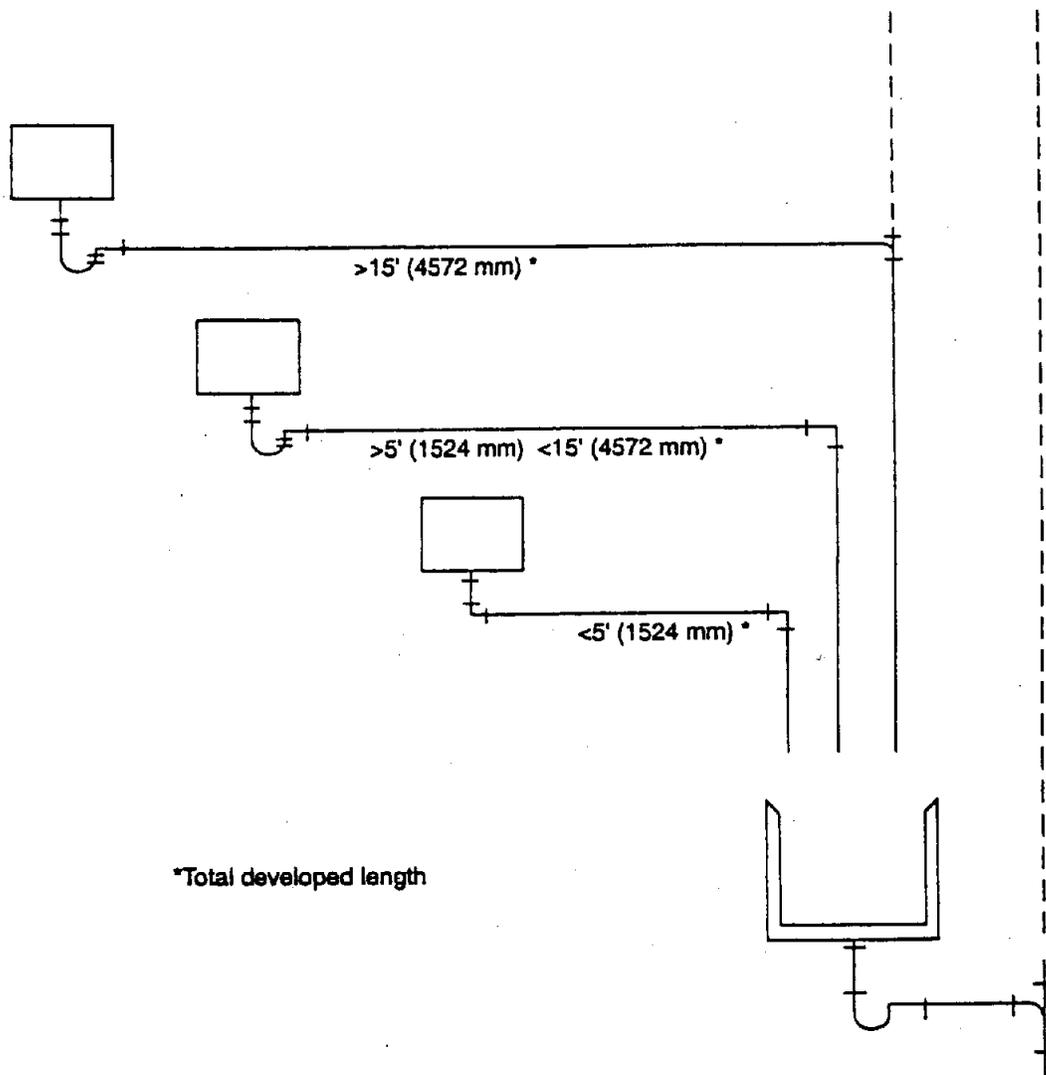
**Figure 8-2B**  
Airgap as Applied to Water Supply



**Figure 8-2C**  
Typical Airgap as Applied to Waste  
Using an Approved Airgap Fitting



**Figure 8-2D**  
Airgap as Applied to the Installation of a Floor Sink  
Where Sterile Equipment is Used



**Figure 8-3**  
Trapping and Venting of Indirect Waste Pipe of Different Sizes

**801.5 Sterilizers**

Sterilizers, stills and similar equipment which require drains and used for sterile equipment must be indirectly wasted through an approved airgap and each fixture drains shall be individually drained to the receptor and drain should not exceed fifteen (15) feet (4572 mm). (See Section 806.0.)

**801.6 Drip or Drainage Outlets**

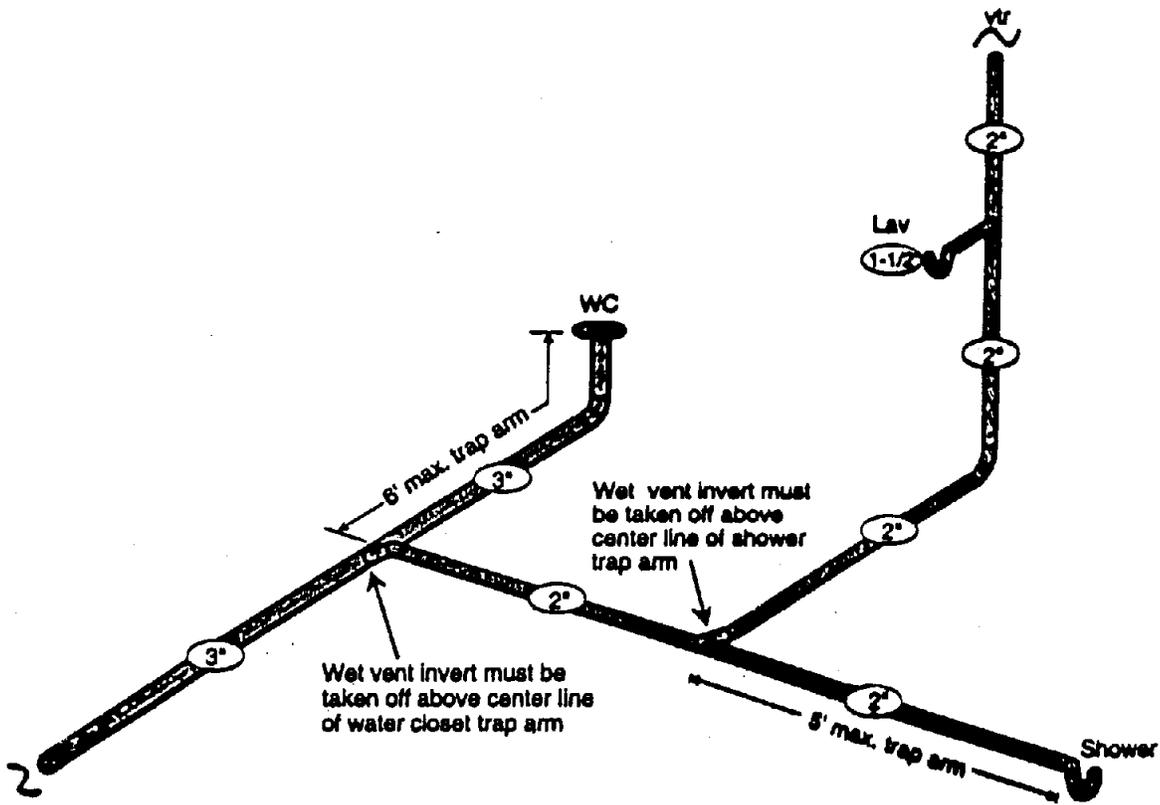
Any appliance or device which is not usually classed as a plumbing fixture but has drain outlets may be indirectly connected to the drainage system through an approved receptor by means of an approved airgap.

The drains from any potable water device including pressure tanks, treatment devices, relief valves and any other similar equipment will

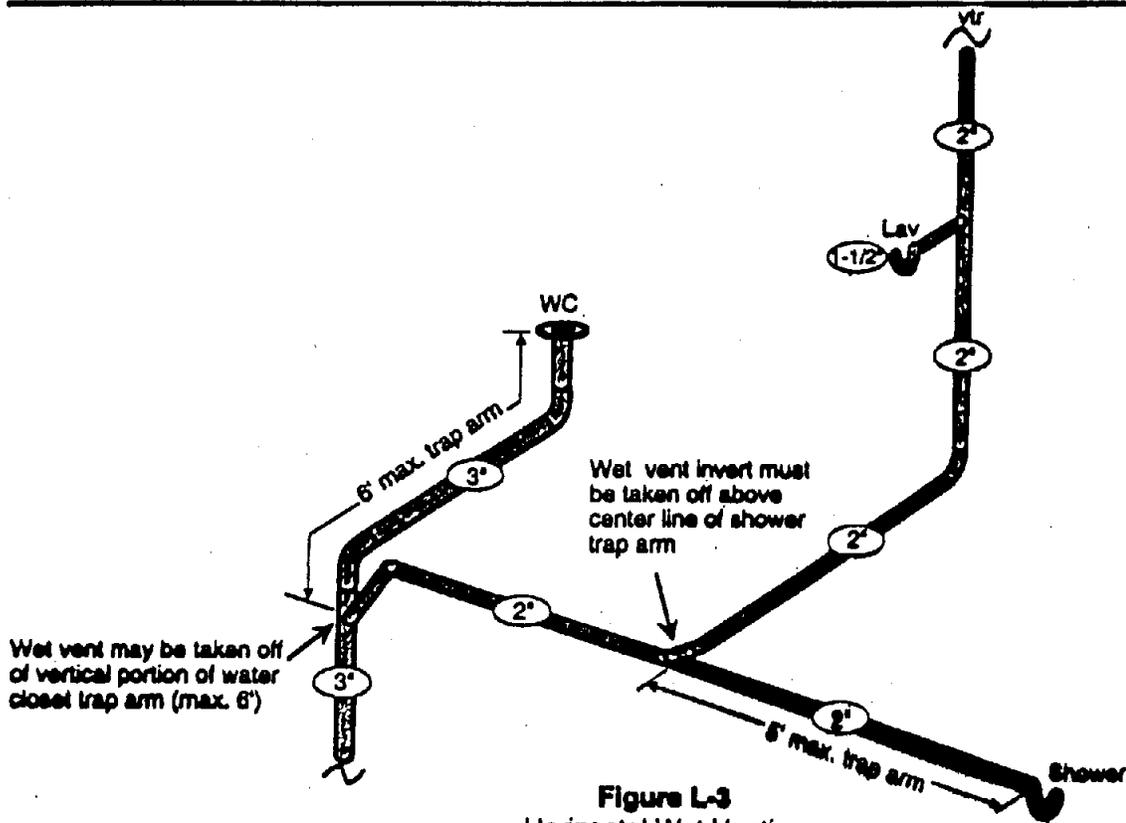
discharge into an approved receptor through an approved airgap.

**802.0 Approvals**

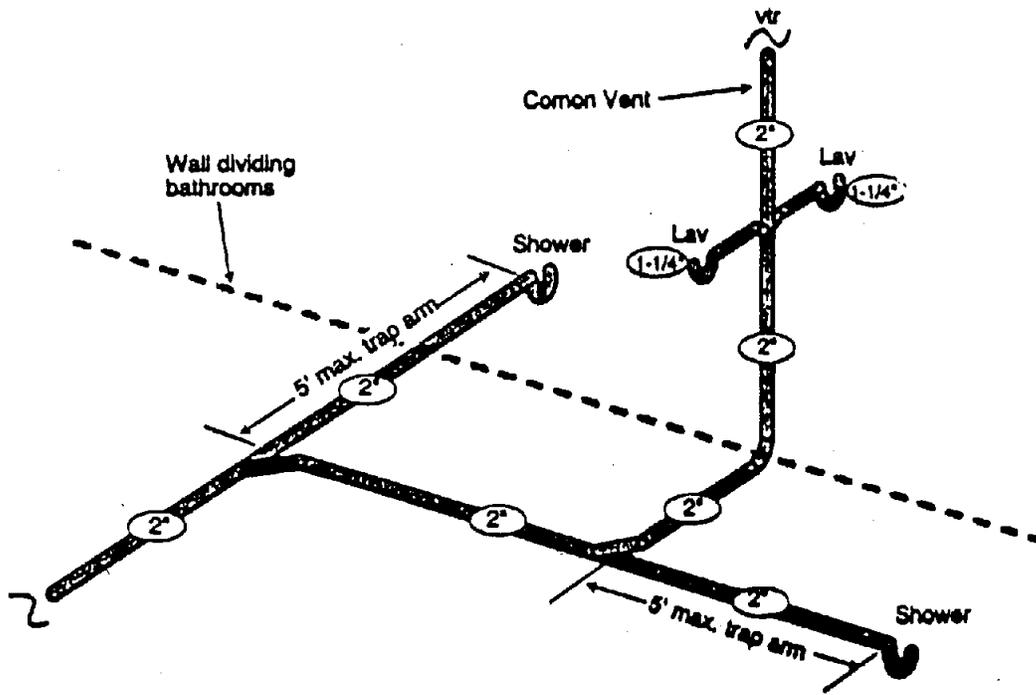
Before any plumbing fixture that requires an indirect waste pipe or any fixture that receives the discharge from any indirect waste pipe is installed, approval from the Administrative Authority is required. Section 103.2.2 requires that plans and specifications be submitted for approval prior to the installation. In some areas of the country it is also required that the health department review and approve the plans and specifications prior to submitting them to the Administrative Authority for their approval.



**Figure L-2**  
Horizontal Wet Venting  
Single Bathroom Group



**Figure L-3**  
Horizontal Wet Venting  
Single Bathroom Group



**Figure L-4**  
Horizontal Wet Venting of Showers and Bathtubs by Lavatories  
Showers and Lavatories Located in Adjacent Bathrooms

## Questions and Answers from Maine Plumbing Code Training

**Q: Is foam core pipe approved for underground use?**

A: Yes: Listed in Table 14-1 ASTM F 891-96

**Q: Are trough urinals allowed under the new code?**

A: No: Section 406.2

**Q: Are water-free urinals allowed?**

A: Yes, under a letter from the Dept. of Health and Engineering.

**Q: Are two-handle valves allowed under the new code, and does this apply to remodeling as well as new work?**

A: Only allowed for single family residences. Yes: Section 420.0

**Q: What is the maximum temperature allowed in a tub and/or shower?**

A: The maximum mixed water temperature in, other than single family dwellings is 120° (49°C) Section 420.0

**Q: Are vacuum relief valves required?**

A: Yes: Section 608.7

**Q: Are stop and waste valves allowed under the new code?**

A: Yes, but **not** in underground applications and shall only be used as a shut-off for one fixture. Section 603.4.22.

**Q: Do dishwashers require a water hammer arrestor?**

A: Yes, and shall be installed where quick acting valves are installed. Section 609.10

**Q: Can a sewer ejector pump into a 3" line?**

No, if receiving the discharge from a water closet. If the sewerage ejector pump receives the discharge of a water closet, the minimum discharge capacity is 20 gallons per minute and two fixture units shall be allowed for each gallon per minute. Section 710.3

**Q: Can you still install air admittance valves (Pro-Vent, Studor, etc.)?**

A: No, they are prohibited, but check with your LPI.

**Q: Can you vertically vent a water closet?**

A: Yes, as long as it is within 6 feet of the closet flange. Section 1002.4, Table 10-1

**Q: How do you size rain leaders?**

A: Area of the surface being drained (x) rainfall amount, for that area. Section 11 and Appendix D

**Q: Can a renter do their own plumbing or only the property owner?**

A: No, for health and safety requirements. Remember, if a permit is required, a license is required.

**Q: Are bathroom requirements based on number of parking spaces?**

A: No, the total load shall be determined by minimum exiting requirements. Table 4-1

**Q: Are safe pans/safe pan drains required under washing machines?**

A: Not required under washing machines.

**Q: What is the maximum number of seats allowed before you need a restroom?**

A: It depends on the occupancy or the type of business.

**Q: Chapter 5 – Water Heaters**

A: Deleted from code. Reference Water Distribution section or check with Oil & Solid Fuel Board rules.

**Q: What is a “mobile home trap”?**

A: A trap to which you hook a mobile home sewer line.

**Q: If you move a manufactured home (first time), what plumbing code applies?**

A: Maine / UPC

**Q: Dishwasher discharge**

A: Air gap drainage required. Section 807.4

**Q: Proper sleeving through cement walls (PVC) (footings and foundation walls)**

A: You are **not** permitted to run a drainage pipe through a footing. If through a foundation wall, the sleeve shall allow for expansion and/or contraction. Section 313.0

**Q: What is a “blow-out urinal”?**

A: When the valve is tripped, it washes out the waste under the pressure of water.

**Q: Can you use type M tubing outside for water service?**

A: Yes, underground outside of the structure. Section 604.2

**Q: Will the new code provisions be posted on the State of Maine website?**

A: NO, but the Office of Licensing and Registration’s website will provide information on where to purchase a new code book. Go to: [www.maineprofessionalreg.org](http://www.maineprofessionalreg.org)

## Title 32, Chapter 49, PLUMBERS

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### Chapter 49: PLUMBERS

#### Subchapter 1: GENERAL PROVISIONS

#### §3301. Definitions

As used in this chapter, unless the context otherwise indicates, the following terms have the following meanings. [1999, c. 386, Pt. L, §1 (amd).]

**1. Apprentice plumber.** [1983, c. 468, §11 (rp).]

**1-A. Commissioner.** "Commissioner" means the Commissioner of Professional and Financial Regulation. [1985, c. 389, §16 (new).]

**1-B. Department.** "Department" means the Department of Professional and Financial Regulation. [1985, c. 389, §16 (new).]

**2. Board.** "Board" means the Plumbers' Examining Board appointed under section 3401. [1999, c. 386, Pt. L, §1 (amd).]

**2-A. Journeyman-in-training.** "Journeyman-in-training" means a person who is licensed under this chapter to assist in making plumbing installations under the direct supervision of a journeyman plumber or a master plumber who may not act as or represent that the person is a journeyman plumber, as defined in subsection 3. [1999, c. 386, Pt. L, §1 (amd).]

**3. Journeyman plumber.** "Journeyman plumber" means any person who customarily performs the work of installing plumbing and drainage under the employment and direction of a master plumber or, not being a master plumber, does plumbing repair work as a regular part-time occupation. [1999, c. 386, Pt. L, §1 (amd).]

**4. Limited license.** "Limited license" means a limited plumber's license to install and service plumbing work related to a specific type of plumbing equipment or to specific plumbing installations granted to any person who has passed a satisfactory examination before the board. It must specify the name of the person who is limited to engage in the occupation of installing and servicing the plumbing work related to the type of equipment or to specific plumbing installations only as authorized by the license. [1999, c. 386, Pt. L, §1 (amd).]

**5. Master plumber.** "Master plumber" means any person, firm or corporation, qualified under this chapter, engaging in, or about to engage in, the business of installing plumbing or plumbing systems. The license must specify the name of the person, firm or corporation to whom the license is issued and in the case of a firm or corporation the license must further specify the licensed master plumber in whose name it is issued, pursuant to the requirements of section 3507. [1999, c. 386, Pt. L, §1 (amd).]

**5-A. Propane and natural gas installer.** A "propane and natural gas installer" means a person licensed under chapter 130 when installing propane and natural gas utilization equipment, subject to the restrictions of that person's license. [1999, c. 386, Pt. L, §1 (amd).]

**6. Trainee plumber.** "Trainee plumber" means any person who is engaged in assisting in making plumbing installations under the direct supervision of a journeyman plumber or master plumber, whether for the purpose of learning the trade or otherwise. [1999, c. 386, Pt. L, §1 (amd).]

## Title 32, Chapter 49, PLUMBERS

7. **Trainee plumber.** [1983, c. 468, §15 (rp).]

### §3302. Applicability

1. **License required.** A license is required for any person, corporation, partnership or other entity who is engaged in plumbing or performing plumbing installations. No license is required for any activity for which a permit is not required under Title 30, section 3223 or its successor. This section does not apply to the following: [1999, c. 386, Pt. L, §2 (amd).]

A. Plumbing by regular employees of public utilities as defined in Title 35-A, section 102, when working as such; [1987, c. 141, Pt. B, §33 (amd).]

B. Plumbing by oil burner technicians, duly licensed under chapter 33, and propane and natural gas installers, licensed under chapter 130, except that this exception only applies to hot and cold water connections to existing piping in the same room where the installation is taking place and does not apply beyond any existing branch connection supplying water; and [1999, c. 386, Pt. L, §2 (amd).]

C. Plumbing by a person in a single-family residence occupied or to be occupied by that person as that person's bona fide personal abode provided that installation conforms with board laws and rules. [1999, c. 386, Pt. L, §2 (amd).]

2. **Municipal licenses not required.** A municipality may not require plumbers to be municipally licensed nor may any municipality issue a permit for any plumbing installation unless satisfied that the person, firm or corporation applying for the permit complies with this chapter. [1999, c. 386, Pt. L, §2 (amd).]

3. **Supervision of trainee plumber.** A master or journeyman plumber may not have more than 3 trainee plumbers working under the master or journeyman plumber's direct supervision. [1999, c. 386, Pt. L, §2 (amd).]

### §3303. Provisions in city charters not affected (REPEALED)

### §3304. Penalties; injunction

1. **Penalties.** Any person who engages in or works in plumbing without first obtaining a license as required by this chapter, or after the license has expired or has been suspended or revoked or temporarily suspended or revoked, is guilty of a Class E crime. [1983, c. 413, §140 (rpr).]

2. **Injunction.** The State may bring an action in Superior Court to enjoin any person from violating this chapter, regardless of whether proceedings have been or may be instituted in the District Court or whether criminal proceedings have been or may be instituted. [1983, c. 413, §140 (rpr); 1999, c. 547, Pt. B, §78 (amd); §80 (aff).]

### §3305. Exceptions (REPEALED)

#### Subchapter 2: REGULATIONS

### §3351. Local ordinance or bylaws (REPEALED)

### §3352. Permits; fees; hearings on regulations (REPEALED)

### §3353. Law governing; local inspectors (REPEALED)

#### Subchapter 3: EXAMINING BOARD

### §3401. Membership; vacancies; removal; compensation

## Title 32, Chapter 49, PLUMBERS

The Plumbers' Examining Board, as established by Title 5, section 12004-A, subsection 32, consists of 5 members, who are appointed by the Governor as follows. [2003, c. 446, §1 (rpr); §4 (aff).]

**1. Representative of public.** One of the members of the board must be a representative of the public. [2003, c. 446, §1 (new); §4 (aff).]

**2. Master plumbers.** Two of the members of the board must be master plumbers as defined in section 3301, and one of those 2 members must be a member of a bona fide labor organization. [2003, c. 446, §1 (new); §4 (aff).]

**3. Journeyman plumbers.** [2003, c. 446, §1 (new); §4 (aff); T. 32, §3401, sub-§3 (rp).]

**3-A. Journeyman plumber.** One of the members of the board must be a journeyman plumber, as defined in section 3301, who has been engaged in the business of plumbing for at least 2 years. This subsection takes effect June 19, 2005. [2003, c. 446, §1 (new); §4 (aff).]

**4. Local plumbing inspector.** One of the members of the board must be a local plumbing inspector who has been engaged in plumbing inspections for at least 4 years and is employed by a municipality. This subsection takes effect June 19, 2005. [2003, c. 446, §1 (new); §4 (aff).]

Members are appointed for terms of 4 years. Appointments of members must comply with section 60. [2003, c. 446, §1 (new); §4 (aff).]

Any member of the board may be removed from office for cause by the Governor. [2003, c. 446, §1 (new); §4 (aff).]

### §3402. Employees

State plumbing inspectors appointed under this section have powers throughout the several counties of the State similar to those sheriffs have in their respective counties, relating to enforcement of this chapter and rules adopted under this chapter. These powers are limited to the power to issue citations, the power to serve summonses, to conduct investigations and to order corrections of violations by licensees in accordance with the specific statutory authority set forth in this chapter. If any state plumbing inspector finds any plumbing installation in any building or structure which does not comply with the adopted state plumbing code that inspector shall, with the consent of the local plumbing inspector, order that the installation be removed or remedied and that order must be complied with immediately by the owner or occupant of the premises or building or the installer of the plumbing in violation. If any state plumbing inspector finds any plumbing installation in any building or structure which creates a danger to other property or to the public, the inspector may forbid use of the building or structure by serving a written order upon the owner and the occupant, if any, to vacate within a reasonable period of time to be stated in the order. [1991, c. 509, §23 (amd).]

Any person ordered by a state plumbing inspector to correct a plumbing deficiency or to vacate a building or structure may, within 7 days, appeal to the Plumbers' Examining Board, which shall within a reasonable time review the order and file its decision on the appeal. The decision of the board must be complied with within the time that is fixed in the decision. If any person, firm or corporation fails or refuses to carry out any such order of any state plumbing inspector or decision of the board, a court may order appropriate relief. Any person ordered by the board to correct a plumbing deficiency or to vacate a building or structure may appeal the order to the Superior Court pursuant to the Maine Rules of Civil Procedure, Rule 80B, by filing a petition for review within 48 hours of receipt of the order. The order by the Plumbers' Examining Board may not be stayed unless by order of the Superior Court for good cause. [1999, c. 386, Pt. L, §3 (amd).]

Upon the failure of any person to carry out the final order, the Plumbers' Examining Board may petition the Superior Court for the county in which the premises or building is located from an injunction to enforce that order. If the court determines upon hearing the petition that a lawful final order was issued, it shall order compliance. [1989, c. 483, Pt. A, §51 (new).]

In addition to any other powers, state plumbing inspectors shall have the right of entry during usual business hours to inspect any and all buildings and premises in the performance of their duties. They may enter any building only with the permission of the owner, occupant or person having control of the building or pursuant to an order of court. [1989, c. 483, Pt. A, §51 (amd).]

### §3403. Meeting; chairman; quorum

The board shall meet at least once a year to conduct its business and to elect a chairman and a secretary. Additional meetings shall be held as necessary to conduct the business of the board, and may be convened at the call of the chairman or a majority of the board members. Two members of the board shall constitute a quorum for all purposes. The board shall keep such records and minutes as are necessary to the ordinary dispatch of its function. [1983, c. 553, §40 (amd).]

## Title 32, Chapter 49, PLUMBERS

### §3403-A. Powers and duties

The board shall administer, coordinate and enforce this chapter and shall have the following powers and duties in addition to those otherwise set forth in this chapter. [1983, c. 413, §143 (new).]

**1. Rules.** The board may, in accordance with the Maine Administrative Procedure Act, Title 5, chapter 375, subchapter II, adopt rules commensurate with the authority vested in it by this chapter. These rules may include, but not be limited to, internal plumbing, licensing requirements, examinations and reciprocity of licensing with similar boards of other states that maintain standards equivalent to this State. [1997, c. 727, Pt. C, §8 (amd).]

**2. Hearings.** Hearings may be conducted by the board to assist with investigations, to determine whether grounds exist for suspension, revocation or denial of a license, or as otherwise deemed necessary to the fulfillment of its responsibilities under this chapter. [1983, c. 413, §143 (new).]

The board may not refuse to renew a license for any reason other than failure to pay a required fee, unless it has afforded the licensee an opportunity for an adjudicatory hearing. The board shall hold an adjudicatory hearing at the written request of any person who is denied a license without a hearing for any reason other than failure to pay a required fee, provided that the request for hearing is received by the board within 30 days of the applicant's receipt of written notice of the denial of his application, the reasons for the denial and his right to request a hearing. Hearings shall be conducted in conformity with the Maine Administrative Procedure Act, Title 5, chapter 375, subchapter IV, to the extent applicable. The board may subpoena witnesses, records and documents in any hearing it conducts. [1983, c. 413, §143 (new).]

**3. Contracts.** The board may enter into contracts to carry out its responsibilities under this chapter. [1983, c. 413, §143 (new).]

**4. Fees.** [1999, c. 386, Pt. L, §4 (rp).]

**5. Orders.** [1999, c. 386, Pt. L, §5 (rp).]

### §3403-B. Plumbing code

**1. Plumbing and plumbing code.** The board shall adopt minimum rules relating to plumbing, including a plumbing code. All rules, including installation and inspection rules, must be consistent with this chapter and Title 30-A, chapter 185, subchapter III, except that the authority of municipalities to adopt more restrictive ordinances under Title 30-A, section 3001 is not preempted. Notwithstanding the Maine Administrative Procedure Act, the adoption of a national or international published plumbing code as a new plumbing code for the State constitutes a major substantive rule and must receive affirmative action by the Legislature before adoption. Subsequent technical amendments to any national or international published plumbing code that may be adopted pursuant to this section are routine technical rules as defined in Title 5, chapter 375, subchapter II-A. [2001, c. 215, §1 (amd).]

**2. Plumbing code violations.** Any person who violates the rules adopted pursuant to this section or who violates a municipal ordinance adopted pursuant to Title 30-A, sections 4201 and 4211 must be penalized in accordance with Title 30-A, section 4452. Enforcement of the rules is the joint responsibility of the municipalities and the board. The board or a municipality may seek to enjoin violations of the rules or municipal ordinances. In the prosecution of a violation by a municipality, the court shall award reasonable attorney's fees to a municipality if that municipality is the prevailing party, unless the court finds that special circumstances make the award of fees unjust. [1997, c. 727, Pt. C, §9 (new).]

### §3404. Investigation of complaints; revocation of license

The board shall investigate or cause to be investigated all complaints made to it and all cases of noncompliance with or violation of this chapter. The board may suspend or revoke a license pursuant to Title 5, section 10004. The board may refuse to issue or renew a license or the District Court may suspend, revoke or refuse to renew the license of any licensed plumber for any of the following reasons: [1983, c. 413, §144 (rpr); 1999, c. 547, Pt. B, §78 (amd); §80 (aff).]

**1. Fraud or deceit.** The practice of any fraud or deceit in obtaining a license; [1983, c. 413, §144 (rpr).]

**2. Negligence or misconduct.** Any gross negligence, incompetency or misconduct in the performance of the work of making plumbing installations; [1983, c. 413, §144 (rpr).]

**3. Violation of law.** Any violation of this chapter or any rule adopted by the board; or [1983, c. 413, §144 (new).]

## Title 32, Chapter 49, PLUMBERS

**4. Conviction of crime.** Subject to the limitations of Title 5, chapter 341, conviction of a crime which involves dishonesty or false statement or which relates directly to the practice of plumbing, or conviction of any crime for which incarceration for one year or more may be imposed. [1983, c. 413, §144 (new).]

The board, for reasons it may deem sufficient, may reissue a license to any person whose license has been revoked, providing 2 or more members of the board vote in favor of the reissuance. [1983, c. 553, §41 (amd).]

### §3405. Disposal of fees (REPEALED)

### §3406. Records

The board shall keep a record of the names and residences of all persons registered under this chapter and a record of all moneys received and disbursed by it, and said records or duplicates thereof shall be open for inspection during office hours.

#### Subchapter 4: PLUMBING INSPECTORS

### §3451. Appointment (REPEALED)

### §3452. Compensation; duties (REPEALED)

### §3453. Approving own work forbidden; additional inspector (REPEALED)

### §3454. Annual reports (REPEALED)

#### Subchapter 5: LICENSES

### §3501. Issuance of licenses

**1. License required.** [1999, c. 386, Pt. L, §6 (rp).]

**1-A. Application; qualifications.** The board shall issue a license to any person who files a sworn application, who passes an examination approved by the board and who meets the qualifications set forth in this section. [1999, c. 386, Pt. L, §6 (new).]

**2. Journeyman or limited license.** The board may issue a journeyman plumber or limited plumber license to persons who submit an application on a form prescribed by the board with the required fee as set under section 3501-B and who provide satisfactory evidence of the following qualifications: [2003, c. 688, Pt. A, §37 (amd).]

A. A minimum of at least 2 years with 4,000 hours of work in the field of plumbing installations as a licensed trainee plumber under the supervision of a master plumber, or the equivalent thereof, and obtaining a passing grade as determined by the board on the journeyman's examination; or

[1999, c. 386, Pt. L, §6 (amd).]

B. A minimum of 2,000 hours of work in the field of plumbing installations as a journeyman-in-training under the supervision of a licensed master plumber, as long as the work experience is obtained within 4 years of the date upon which the applicant was issued a journeyman-in-training license. A journeyman-in-training license must be issued upon sworn application to any person who has satisfactorily completed one academic year of instruction in plumbing at a board-approved technical college or community college and who has obtained a passing grade, as determined by the board on the journeyman's examination.

[2003, c. 688, Pt. A, §37 (amd).]

**2-A. Master plumber license.** The board may issue a master plumber license to a person who submits an application on a form prescribed by the board with the required fee as set under section 3501-B and who provides satisfactory evidence of the following qualifications: [2003, c. 250, Pt. B, §1 (amd).]

## Title 32, Chapter 49, PLUMBERS

A. A minimum of at least one year with 2,000 hours of work in the field of plumbing installations as a journeyman plumber or a minimum of at least 4 years with 8,000 hours of work in the field of plumbing installations as a trainee plumber under the supervision of a master plumber, or the equivalent; and

[1987, c. 597, §11 (amd).]

B. Obtaining a passing grade, as determined by the board on the master's examination.

[1983, c. 468, §18 (new).]

**2-B. Journeyman-in-training.** The board may issue a journeyman-in-training license to a person who provides satisfactory evidence of completion of a plumbing course consisting of one year or 2 semesters at a board-approved technical college or community college and who submits the required fee set under section 3501-B. A journeyman-in-training license is valid for a single nonrenewable period of 4 years and may be issued only once to any individual. [2003, c. 688, Pt. A, §38 (amd).]

**3. Trainee license.** The board may issue a trainee plumber license without examination to any person who submits a written application on a form supplied by the board with the required fee set under section 3501-B and who provides satisfactory evidence that the person has entered the employ of a licensed master plumber to assist the licensed master plumber as a plumber's trainee. Any person employed as a trainee plumber shall apply for a license within 10 business days after the day the person commences employment. [2003, c. 250, Pt. B, §3 (amd).]

**4. License certificate.** All persons licensed by the board must receive a license certificate that must be publicly displayed at the principal place of business of the plumber, if any, and a pocket card license that must be carried on the person and displayed at any time upon request. [1999, c. 386, Pt. L, §6 (amd).]

**5. Examinations.** [1999, c. 386, Pt. L, §6 (rp).]

**6. Installation, repair or replacement of well pumps.** A person licensed under this subchapter who performs the installation, repair or replacement of a pump in a well, as defined in section 4700-E, subsection 8, shall install, repair or replace that pump in compliance with the code of performance adopted by the Maine Water Well Commission pursuant to section 4700-H, subsection 5. Any person, company, firm, partnership or corporation who installs, alters, repairs or replaces a pump system without being licensed as provided in this chapter or in violation of the code of performance, except for an apprentice pump installer as set forth in this chapter, or any person, firm, partnership or corporation who procures a license as provided in this chapter wrongfully or by fraud commits a civil violation punishable by a fine of not more than \$1,000. [2001, c. 209, Pt. A, §4 (amd).]

This subsection does not prevent a person from making pump system installations, alterations, repairs or replacements in a single-family residence occupied by that person or to be occupied by that person as a bona fide personal abode, providing the installation, alteration, repair or replacement conforms to the standards set forth in this chapter and any rules adopted by the Maine Water Well Commission or the department. [2001, c. 209, Pt. A, §4 (amd).]

This subsection does not prevent a person from removing and replacing an existing pump for the purpose of well inspection or to test pumping if the pump and electrical system are not being modified. [2001, c. 209, Pt. A, §4 (amd).]

### §3501-A. Examinations

An applicant for a master, journeyman or journeyman-in-training plumbing license shall present to the board a written application for examination, containing information that the board requires, accompanied by the prescribed fee as set under section 3501-B. Examinations must be in whole or in part in writing and of a thorough and practical character commensurate with the responsibilities of the prospective license holder. [2003, c. 250, Pt. B, §4 (amd).]

The passing grade on a master plumbing license examination may not be less than 75%. The passing grade on a journeyman plumbing license examination may not be less than 70%. A candidate failing one examination may apply for reexamination, which may be granted upon payment of a fee established by the board. Any candidate for licensure having an average grade of less than 50% may not apply for reexamination for one year. [1999, c. 386, Pt. L, §7 (new).]

### §3501-B. Fees

The Director of the Office of Licensing and Registration within the Department of Professional and Financial Regulation may establish by rule fees authorized under this chapter in amounts that are reasonable and necessary for their respective purposes, except that the fee for any one purpose may not exceed \$200 biennially. Rules adopted pursuant to this section are routine technical rules as defined in Title 5, chapter 375, subchapter 2-A. [2003, c. 250, Pt. B, §5 (rpr).]

**1. Application.** [2003, c. 250, Pt. B, §5 (rp).]

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2. **Examination.** [2003, c. 250, Pt. B, §5 (rp).]
3. **Licensure.** [2003, c. 250, Pt. B, §5 (rp).]
4. **Plan review fee.** [2003, c. 250, Pt. B, §5 (rp).]

### §3502. Examination (REPEALED)

### §3503. Master plumbers (REPEALED)

### §3504. Renewals

All licenses expire 2 years from the original date of issue or at such other time as the commissioner may designate. [1999, c. 386, Pt. L, §9 (amd).]

The board shall notify everyone registered under this chapter of the date of expiration of his license and the fee required for its renewal for a 2-year period. The notice shall be mailed to the person's last-known address at least 30 days in advance of the expiration date of his license. [1977, c. 469, §18 (rpr).]

A license may be renewed up to 90 days after the date of its expiration upon payment of a late fee in addition to the renewal fee. Any person who submits an application for renewal more than 90 days after the license expiration date is subject to all requirements governing new applications under this chapter, except that the board may in its discretion, giving due consideration to the protection of the public, waive examination or other requirements. The board may assess penalties for late renewal that is more than 90 days after the date of expiration. Notwithstanding any other provision of this chapter, the board shall waive examination if a renewal application is made within 90 days after separation from the United States Armed Forces, under conditions other than dishonorable, by a person who has failed to renew the person's license because the person was on active duty in the United States Armed Forces; the waiver of examination may not be granted if the person served more than 4 years in the United States Armed Forces, except if the person is required by some mandatory provision to serve a longer period and the person submits satisfactory evidence to the board. [2003, c. 250, Pt. B, §6 (amd).]

Any master plumber giving up his master plumber's license for a lower grade license shall be required to successfully pass an examination in order to reinstate his master plumber's license. [1977, c. 469, §18 (rpr).]

All journeyman-in-training licenses shall be issued for a single nonrenewable period of 4 years and shall not be subject to the requirements of this section, except that each person holding such a license shall be notified by the board of the date of its expiration in the manner provided in this section. [1983, c. 468, §20 (new).]

### §3504-A. Reciprocity

The board shall issue a license to any person who files a sworn application and who is licensed under the laws of another state or territory of the United States as long as that state or territory has licensing standards and experience requirements at least equivalent to this State's and as long as that state or territory grants similar privileges to persons licensed under this chapter. Reciprocal licenses may not be denied on the basis of current residency. [1999, c. 386, Pt. L, §11 (new).]

### §3505. Journeymen plumbers (REPEALED)

### §3505-A. Apprentice and trainee plumbers; fees (REPEALED)

### §3506. Renewal (REPEALED)

### §3507. Corporations, firms and partnerships

The board may issue a company license to a corporation, firm, partnership, limited partnership or limited liability company. Such a license may not be issued unless the applicant provides satisfactory evidence that it has a licensed master plumber directly in charge of its

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plumbing business activities who is an officer or full-time employee, in the case of a corporation, or a partner, member or full-time employee, in the case of a firm or partnership, and the license must be issued in the name of that master plumber. A master plumber may only be affiliated with one corporation. Upon the death or severance from the company of the licensed master plumber in whose name the company license is held, the company license automatically terminates 30 days from the date of that death or severance, unless the company applies for reissuance of its license in the name of another licensed master plumber who is qualified under this section. [1999, c. 386, Pt. L, §12 (amd).]

**02 DEPARTMENT OF PROFESSIONAL & FINANCIAL REGULATION**

**395 PLUMBERS' EXAMINING BOARD**

**CHAPTER 1 - GENERAL PROVISIONS**

Summary: This rule establishes guidelines relating to meetings, advisory rulings, and maintenance of records.

**1. MEETING NOTICES**

The Department shall be responsible for distributing meeting notices to the board members and to others as required by statute or rule. Upon request, notices may also be provided to others deemed to have an interest in the business before the Board.

**2. MEETING AGENDAS**

A. An agenda for meetings shall be prepared by the Department and shall include business requiring consideration or action by the board members. The agenda shall also include all business items requested by the board members provided such request is received by the Board at least ten days in advance of the meeting.

B. Business not included on the agenda may be considered following an affirmative vote of a majority of the board members present.

**3. RECORDS**

The Department shall maintain a record of all business conducted by the Board and shall preserve, subject to the provisions of 5 M.R.S.A. Chapter 6, all books, documents and papers entrusted to their care. Records shall be opened to public inspection subject to 1 M.R.S.A. Chapter 13. Delays in making records available for inspection may be occasioned by action necessary to preserve the security of records, to obtain legal advice, or to avoid disrupting regular business activities and for these reasons, it is recommended that requests be submitted three business days in advance of anticipated inspection.

Access to written communication with the Department of the Attorney General, criminal history records, materials relating to license examinations, pending complaints, and other records may be restricted subject to 1 M.R.S.A. Chapter 13 and other applicable laws.

#### 4. **ADVISORY RULINGS**

##### A. Authority and Scope

The Board may issue an advisory ruling pursuant to 5 M.R.S.A. § 9001 concerning the applicability to an existing factual situation of any statutes or rule it administers. Each request shall be reviewed individually by the Board to determine whether an advisory ruling is appropriate. The Board may, at its discretion, decline the request for an advisory ruling. An advisory ruling is not legally binding upon the Board pursuant to Title 5 M.R.S.A. §9001 of the Administrative Procedure Act.

##### B. Submission

A request for an advisory ruling shall be submitted to the Board in writing and shall set forth in detail all facts pertinent to the question. The Board may require the submission of additional information as necessary to complete a factual background for a ruling by the Board.

##### C. Ruling

An advisory ruling shall be in writing and shall include a statement of facts or assumptions, or both, upon which the ruling is based. The statement, without reference to other documents, shall be sufficiently detailed to apprise the reader of the basis of the opinion. A ruling shall be rendered with the assent of four members of the Board. An advisory ruling shall be signed by the Chairperson of the Board, shall be identified specifically as an advisory ruling, and shall be numbered serially.

##### D. Publication

An advisory ruling shall be mailed to the requesting party and a copy shall be kept by the Board Administrator. An advisory ruling is a public document and shall be available for public inspection during the normal working hours of the Board. In addition, the Board, as it deems appropriate, may otherwise publish or circulate an advisory ruling.

AUTHORITY: 32 M.R.S.A. Chapter 49, §3403-A  
EFFECTIVE DATE: April 28, 1997

**02 DEPARTMENT OF PROFESSIONAL & FINANCIAL REGULATION**

**395 PLUMBERS' EXAMINING BOARD**

**CHAPTER 2 - COMPLAINTS, INVESTIGATIONS AND ADJUDICATORY HEARINGS**

Summary: This Chapter describes the procedure by which complaints and adjudicatory hearings will be handled by the Board.

**1. WRITTEN COMPLAINTS.**

Complaints are filed in accordance with the procedures established by the Department of Professional & Financial Regulation, Office of Licensing and Registration. Members of the public may receive materials for initiating a complaint from:

Office of Licensing & Registration  
Complaints & Investigations Unit  
35 State House Station  
Augusta, ME 04333-0035  
Tel: 207/624-8603

**2. GROUNDS FOR DISCIPLINE.**

In addition to the grounds for discipline set forth in 32 M.R.S.A. Section 3404, the Board may refuse to issue or renew a license or may take disciplinary action against a licensee for any of the following reasons:

**A. Fraud or Deceit**

The practice of fraud or deceit in connection with service rendered as a plumber.

**B. Addiction**

Addiction, as confirmed by medical findings, to the use of alcohol or other drugs, which has resulted in the licensee being unable to perform his or her duties in a manner that does not endanger the health or safety of consumers or the public.

**C. Mental Incompetency**

A medical findings of mental incompetency.

**D. Aiding or abetting**

Aiding or abetting a person not duly licensed as a plumber in representing him- or herself to be a licensed plumber.

**E. Violation of plumbing code**

Violation of any provision of the International Association of Plumbing and Mechanical Officials Uniform Plumbing Code, 2000 edition, State of Maine Internal Plumbing Code, as adopted by the Board in Chapter 4 of these rules.

**3. OTHER INVESTIGATIONS**

An investigation may be conducted based upon information other than a written complaint if such information provides prima facie evidence of a violation of 32 M.R.S.A. Chapter 130, or if the information raises a substantial question regarding the qualifications of any applicant or licensee.

**4. BOARD MEMBER REQUEST FOR INVESTIGATION**

A member of the Board may file a complaint or request an investigation, but such complaint or request shall serve to disqualify that member from participating in the Board's disposition of that complaint. The complaining board member shall be prohibited from discussing the issue with other members, except as a witness or party to the proceeding, until after final agency action and the time for appeal has lapsed or appeal rights have been exhausted.

**5. PROHIBITED COMMUNICATIONS**

The board members shall avoid discussing, except with adequate notice and opportunity for all parties to participate, any specific case under investigation, or any case which may reasonably be expected to be the subject of investigations, until after final agency action and the time for filing an appeal has lapsed or appeal remedies have been exhausted, except in accordance with the Standard Complaint Procedure of the Department of Professional and Financial Regulation, Office of Licensing and Registration. This rule shall not be construed to limit the board members at a Board meeting from discussion among themselves or with the attorney for the Board. This rule shall not be construed to limit communications regarding matters which have reached final disposition, investigatory procedures in

general, inquiries regarding the procedural status of a specific case, or other matters not relating to issues of fact or law concerning a specific case.

**6. ADJUDICATORY HEARINGS**

Board hearings shall conform to the requirements of the Maine Administrative Procedure Act, 5 M.R.S.A. Chapter 375.

AUTHORITY: 32 M.R.S.A. §§3403-A, 3403-B, and 3404

EFFECTIVE: January 20, 2002

**02 DEPARTMENT OF PROFESSIONAL & FINANCIAL REGULATION**

**395 PLUMBERS' EXAMINING BOARD**

**CHAPTER 3 –LICENSING REQUIREMENTS**

Summary: This chapter sets forth the requirements for licensure to be a plumber for the following categories: Trainee, Journeyman-in-Training, Journeyman, and Master.

[Note: See 32 M.R.S.A. §3501 for additional requirements for licensure.]

**1. TRAINEE PLUMBER.**

- A. Each applicant for a trainee license shall make application on forms supplied by the Board together with payment of the application and license fee.
- B. A person may be issued a trainee license without examination, upon submission of the appropriate fee and application signed by a licensed master or journeyman plumber. By the signature, the signing master or journeyman plumber acknowledges supervisory responsibility for the work ethics, performance, and training required of the trainee.
- C. Whenever a licensed trainee plumber is no longer employed or supervised by a licensed master or journeyman plumber, the trainee may not actively perform any plumbing work. To continue would be a violation of 32 M.R.S.A. §3304 and Board rules.
- D. Hours accumulated by a trainee plumber shall commence from the date of licensure.
- E. The minimum age for a trainee plumber license is 16. Hours of work applicable toward licensure as work experience are only valid after the applicant's 16th birthday.

**2. JOURNEYMAN-IN-TRAINING.**

- A. Upon successful completion of the journeyman examination, an applicant for a journeyman-in-training license shall make application on forms supplied by the Board, with payment of the license fee. The applicant must apply for a journeyman-in-training license to gain the required licensed practical experience to be eligible for licensure as a journeyman plumber.

- B. Whenever a licensed journeyman-in-training is no longer supervised by a licensed master or journeyman plumber, the journeyman-in-training may not actively perform any plumbing work. To continue would be a violation of 32 M.R.S.A. §3304 and Board rules.

**3. JOURNEYMAN PLUMBER.**

- A. Upon successful completion of the journeyman examination, an applicant for a journeyman license shall make application on forms supplied by the Board, with payment of the license fee.
- B. Whenever a licensed journeyman plumber is no longer employed by a licensed master plumber, or not being a master plumber, does plumbing repair work as a regular part-time occupation, the journeyman may no longer perform the work of installing plumbing and drainage. To continue would be a violation of 32 M.R.S.A. §3304 and Board rules.

**4. MASTER PLUMBER.**

Upon successful completion of the master examination, an applicant for a master license shall make application on forms supplied by the Board, with payment of the license fee.

**5. RESPONSIBILITY OF THE MASTER OR JOURNEYMAN PLUMBER REGARDING SUPERVISION.**

- A. By the supervising master's or journeyman's signature on a journeyman-in-training and trainee application, that master or journeyman acknowledges supervisory responsibility for the work ethics, performance, and training required of the trainee being supervised.
- B. By the supervising master's signature on a journeyman application, that master acknowledges employment and supervisory responsibility for the work ethics, performance, and training required of the journeyman being supervised.
- C. The master or journeyman plumber, as the case may be, shall be responsible for making sure that all journeyman, journeyman-in-training or trainees in his/her employ or under his/her supervision are licensed.
- D. Upon request, the signing supervisory master or journeyman, as the case may be, must provide to the journeyman, journeyman-in-training or trainee, a signed affidavit for all practical experience performed under the master's or journeyman's supervision.

- E. Whenever the signing supervisory master or journeyman plumber, as the case may be, ceases to provide supervision to the journeyman, journeyman-in-training, or trainee, the master or journeyman shall notify the Board in writing.

**7. LICENSE EXPIRATION.**

All Master, Journeyman and Trainee licenses expire two years from the date of issuance. Journeyman-in-Training licenses expire four years from the date of issuance and cannot be renewed.

**8. RENEWALS.**

- A. The Board shall notify licensees of the date of expiration of their licenses and the renewal fee amounts. The notice shall be mailed to the licensee's last known address at least thirty (30) days prior to the expiration of the license.
- B. A person may renew a license for up to 90 days after the date of expiration upon payment of the license renewal fee and a late fee of \$10.00. **The 90-day period is for the purpose of expediting license renewals only and does not postpone the license expiration date.**

**9. LICENSE REINSTATEMENT.**

- A. An individual whose license has lapsed for more than 90 days but less than two (2) years from the date of expiration may again obtain a license by choosing one of the following options:
  - 1. Reinstatement without examination by filing and paying the application fee, license fee, and late fee; or
  - 2. By filing a new application, taking and passing the examination, and paying the application, examination, and license fees.
- B. Individuals wishing to reinstate a license two (2) years or more after the date of expiration will be treated as new applicants and must fulfill all requirements of 32 M.R.S.A. Chapter 49 and these rules.

AUTHORITY: 32 M.R.S.A. §§ 3301, 3403-A, 3501, and 3504

EFFECTIVE DATE: January 20, 2002

**02 DEPARTMENT OF PROFESSIONAL & FINANCIAL REGULATION**

**395 PLUMBERS' EXAMINING BOARD**

**CHAPTER 4 - INSTALLATION STANDARDS**

Summary: This Chapter adopts standards for plumbing installations in the State of Maine.

**1. PLUMBING INSTALLATIONS**

- A. The Plumbers' Examining Board adopts and incorporates herein the International Association of Plumbing and Mechanical Officials Uniform Plumbing Code, 2000 edition, State of Maine Internal Plumbing Code as the standard for plumbing installations in the State of Maine, effective September 17, 2005.

The above Code may be purchased from:

International Association of Plumbing and Mechanical Officials  
5001 E. Philadelphia Street  
Ontario, CA 91761-2816  
Telephone: 909/472-4100 or 1-800-85-IAPMO  
Webpage: [www.iapmo.org](http://www.iapmo.org)

- B. Plumbing installations must also comply with all applicable statutes or rules of the State and all applicable ordinances, orders, rules and regulations of local municipalities.

AUTHORITY: 32 M.R.S.A. §§3403-A and 3403-B

EFFECTIVE DATE: September 17, 2005

**02 DEPARTMENT OF PROFESSIONAL AND FINANCIAL REGULATION**

**395 PLUMBERS' EXAMINING BOARD**

**CHAPTER 5 – EXAMINATION REQUIREMENTS**

SUMMARY: This chapter sets forth specific information pertaining to the examination.

**1. TRAINEE PLUMBER.**

An examination is not required to become licensed as a trainee plumber.

**2. JOURNEYMAN-IN-TRAINING.**

Applicants are eligible to sit for the journeyman examination once they have completed a plumbing course consisting of one year or two semesters at a technical college; however, they must apply for a journeyman-in-training license to gain the required licensed practical experience.

**3. JOURNEYMAN PLUMBER.**

Applicants for a Journeyman Plumber's examination must meet the requirements of 32 M.R.S.A. §3501(2)(A) or (B).

**4. MASTER PLUMBER.**

Applicants for a Master Plumber's examination must meet the requirements of 32 M.R.S.A. §3501(2-A)(A).

**5. APPLICATION FOR EXAMINATION.**

A. Applicants for an examination(s) must submit all of the following:

1. Completed Application;
2. Application Fee (nonrefundable);
3. Examination Fee(s);
4. Completed Examination Registration Form;
5. School Certificate(s) (if applicable);
6. Out-of-state license certification (if applicable); and

7. Affidavit(s).

- B. Incomplete or illegible applications will be returned to the applicant together with any attachments and the examination fee. Resubmission of the application may result in a change in the scheduled examination date.

**6. EXAMINATION.**

- A. The Board may contract out its testing services to a nationally recognized testing agency to conduct exams for the Board as needed.
- B. The examination will cover the theory of installing plumbing.
- C. Applicants who fail to pass an examination will be required to reapply on a form provided by the outside testing agency. Failure to retake the examination within two years from approval will necessitate a new application.
- D. Any candidate who fails to appear for a scheduled examination without appropriate notification to the testing agency may forfeit the examination fee.

**7. REJECTED APPLICATIONS**

Rejected applications requiring no further Board action will be destroyed after six months. An applicant must file a new application in order to reapply.

AUTHORITY: 32 M.R.S.A. §§3403-A, 3501 and 3501-A

EFFECTIVE DATE: January 20, 2002

**02 DEPARTMENT OF PROFESSIONAL AND FINANCIAL REGULATION**

**395 PLUMBERS' EXAMINING BOARD**

**CHAPTER 6 - RECIPROCITY**

**SUMMARY:** This Chapter defines the procedures for qualifying for licensure by reciprocity.

**1. RECIPROCAL AGREEMENTS**

- A. The Board may enter into reciprocal licensing agreements with other states, provided that the Board finds that the standards and conditions for licensure of plumbers for the other state are at least equal to those of this Board. In making this determination, the factors the Board shall consider include, but need not be limited to, the type of examination administered, the passing score and provisions (if any) for waiver of examination, and the length of time those standards have been in effect.
- B. If the reciprocal state uses different terminology for its licensing grades than Maine uses, or uses the same terms with different meanings, a reciprocity agreement shall specify which degrees of licensure are subject to reciprocity.
- C. An individual licensed by reciprocity shall comply with the Maine statutes and rules governing plumbers while engaged in plumbing installations in the State of Maine.
- D. If a reciprocity agreement is terminated by either Maine or the reciprocal state, no new licenses shall be granted on the basis of that agreement, but the termination of the agreement shall not impair the validity or renewability of licenses previously issued under the agreement.

**2. APPLICATION**

- A. If a reciprocity agreement has been ratified by both the Board and the licensing authority in the reciprocal state, any plumber licensed in the reciprocal state shall be issued a Maine license of the equivalent degree in Maine. Applicants for reciprocity must submit all of the following:
  - 1. Completed application;
  - 2. Application fee (nonrefundable);

3. License fee;
4. Documentation of experience;
5. Certified statement verifying licensure from the reciprocal state.

AUTHORITY: 32 M.R.S.A. §§3403-A(1), 3504-A, and 3501

EFFECTIVE DATE: January 20, 2002

**02 DEPARTMENT OF PROFESSIONAL & FINANCIAL REGULATION**

**395 PLUMBERS' EXAMINING BOARD**

**CHAPTER 8 - CONFLICT OF INTEREST**

Summary: This Chapter contains the Conflict of Interest Policy which sets the professional standards for Plumbers' Examining Board members.

Any duly appointed and sworn member of the Maine Plumbers' Examining Board is charged with responsible conduct commensurate with the trust placed in him/her by the Governor. Such Board member is entrusted with the security, safety, health, prosperity and general well-being of the people of the State of Maine. With such a trust, high moral and ethical standards producing the public's confidence, with the reduction to a minimum of any conflict between private interests and official duties, should be observed. No Board Member will accept any employment which can possibly impair his/her independence and integrity of judgement nor will he/she exercise his/her position of trust to secure unwarranted privileges for himself/herself or for others. The Maine Plumbers' Examining Board member will endeavor conscientiously to pursue the highest standards of Board conduct.

STATUTORY AUTHORITY: 32 M.R.S.A. Chapter 49, §3403-A

EFFECTIVE DATE: April 28, 1997