



AMENDMENTS TO:

2006 EDITION OF THE UNIFORM PLUMBING CODE

Ordinance No. 6092
Effective Date: February 13, 2009

CITY OF RENO
Community Development Department
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Original Copies of Referenced Ordinances on file with
the City Clerk

"EXHIBIT D"

AMENDMENTS TO THE 2006 EDITION OF THE "UNIFORM PLUMBING CODE"

CHAPTER 1

ADMINISTRATION

102.1 Authority Having Jurisdiction. Change sentence to read:

The "Building Official" shall be "the administrative authority".

102.4 Qualification of Plumbers. Add as new section:

102.4.1 Definition of Plumbers and Contractors.

Master Plumber is a person who has been conducting, carrying on or engaging in the business of plumbing.

Certified Plumbing Contractor is a person who has been licensed by the State of Nevada to conduct, carry on, or engage in the business of plumbing.

Sewer or Sewage Disposal Contractor is a person who may conduct, carry on, or engage in the business of installing, altering, or repairing sewers and private sewage disposal systems.

Journeyman Plumber is a person who holds a valid Journeyman Plumber Certificate issued by this department. All such Journeymen shall be in the employ and under the supervision of a valid State of Nevada Certified Plumbing Contractor.

Apprentice Plumber is a person who labors at the trade of plumbing as an employee under the direct supervision and in the immediate presence of a certified plumbing contractor or journeyman plumber, and participates in a Nevada State or federally approved Apprenticeship Program.

102.4.2 General Provisions.

102.4.2.1 It shall be unlawful for any person to conduct, carry on, or engage in the business of plumbing, or act in the capacity of a plumbing contractor, without first having a Master Plumber's Certificate of Qualification or Registration and a valid State of Nevada Plumbing

Contractor's License.

102.4.2.2 It shall be unlawful for any person to labor at the trade of plumbing in the capacity of a Journeyman Plumber without first having had issued to him a valid Journeyman Plumber's Certificate of Qualification or Registration by the Administrative Authority of the City of Reno, Nevada.

102.4.2.3 It shall be unlawful for any person to work or labor at the trade of plumbing in the capacity of an Apprentice Plumber without first having had issued to him a valid Apprentice Plumber's Certificate of Qualification or Registration by the Administrative Authority of the City of Reno, Nevada.

102.4.2.4 The Administrative Authority shall issue Journeyman Plumber's Certificates of Qualification or Registration to such persons as may be entitled thereto, and conduct examinations for the purpose of determining the competency and knowledge of plumbing and drainage work of persons who are required by this ordinance to take such examination. The Administrative Authority shall determine the character of the examination to be given.

102.4.2.5 The Board of Appeals, with the approval of the City Council of Reno, Nevada, may cancel or revoke any Certificate of Qualification or Registration issued by the City to any person, if such person later shows incompetency or lack of knowledge in matters relevant to such certificate or if such certificate was obtained by fraud. If the Certificate of Qualification or Registration of any person be so canceled or revoked, another such Certificate shall not be granted to such person within twelve months after the date of cancellation or revocation.

102.4.2.6 Certificates of Qualification or Registration are not transferable from one person to another and the lending of any certificate or the obtaining of permits thereunder for any other person shall be deemed cause for revocation.

102.4.3 Application for Certificate of Qualification or Registration.

102.4.3.1 Any person who is required by this Code to possess a Master Plumber's Certificate of Qualification or Registration shall make application therefore to the Administrative Authority and pay the fee as hereinafter provided.

102.4.3.2 Any applicant for Master Plumbing Contractor's Certificate of Qualification or Registration shall show proof of at least five (5) years experience as a Certified Journeyman and holder of a Journeyman Plumber's Certificate card or a Sanitary Engineer holding a Certificate as a Professional Engineer and valid State Contractor License.

102.4.3.3 Any applicant for a Journeyman Certificate of Qualification shall show proof of at least four (4) years practical experience in the plumbing industry. Applicant, after providing verification of experience and paying the prescribed fee must take and pass the examination within 30 days of application. Applicant may work during this 30 day period. The passing grade for a Journeyman's Certificate of Qualification or Registration shall be 75% passing.

102.4.3.4 Apprentice Plumber's Certificate of Qualification shall be issued to every person who is participating in a Nevada State or Federally approved Apprenticeship Program, makes application, and pays the required fee.

102.4.5 Re-Examinations. Any person, who fails to pass the examination as prescribed by the Administrative Authority, may apply for re-examination after the expiration of five (5) days. Should such person fail to pass the second time, the administrative authority may refuse a third application until after the expiration of one (1) month.

Application fees shall not be refunded upon failure of examinations.

102.4.6 Expiration of Certificates of Qualification or Registration. Every Certificate of Qualification or Registration shall remain in effect until its expiration date, unless canceled or revoked. Master Plumbers, Journeyman Plumbers, and Apprentice Plumbers Certificate of Qualification or Registration shall expire on December 31st of each year. Renewals shall be made within one (1) year from the date this ordinance expires. Failure to do so will necessitate re-examination and payment of all fees.

102.4.7 Business License Required. Before any person, firm, partnership, or corporation shall carry on, or engage in the business of Plumbing, they shall first procure a business license and pay to the Department having Jurisdiction the annual license fee imposed on such business.

Before applying for a Plumbing Business License, the applicant must have a valid State of Nevada Contractor's License of the proper classification for the work to be performed. Before a Specialty Contractor shall carry on or engage in business, he shall first procure a Business License and pay to the Department having jurisdiction of the annual License fee imposed on such business, and before applying for a business license he must have a valid State of Nevada Contractor's License in the appropriate classification. Any plumber doing business in the City of Reno shall have displayed on his business vehicles an appropriate sign showing the business name of said plumber.

No person, firm, partnership or corporation engaged in the business of plumbing as defined by the Uniform Plumbing Code of the City of Reno, Nevada shall employ a Journeyman or Apprentice Plumber who does not have a valid Certificate of Qualification or Registration issued by the Administrative Authority of the City of Reno.

103.3.1 Issuance. Add as last paragraph:

The Building Official may require that a comprehensive permit (including permits for specialty contractors) be taken out by the general contractors on all construction covered by the adopted construction codes. Before such permit is issued, the NAMES, ADDRESSES, AND CITY BUSINESS LICENSE NUMBERS of all subcontractors to be used by the General Contractor may be required by the Building Official. The address of the Building shall be posted by the Contractor in the location designated by the Building Department. Permits for commercial work shall be issued only to persons in conformance with State Contractor's Laws.

CHAPTER 2

DEFINITIONS

205.0 COMBUSTIBLE CONSTRUCTION. Add as new definition:

Combustible Construction shall mean work within any building or structure classified by the Building Code as Type III, Type IV, and Type V.

209 GRAVITY GREASE INTERCEPTOR. Revise to read as follows:

750 gallon minimum

CHAPTER 3

GENERAL REGULATIONS

301.1.3 STANDARDS. Add as last paragraph:

In addition to the standards listed in Chapter 14, the following standards listed below shall be labeled as a recognized Plumbing Code Standard.

1. The California-Nevada American Water Works Association (CA-NV Section) standards governing the certification of backflow prevention testers and cross-connection control program.
2. The University of Southern California's Foundation for Cross-Connection Control and Hydraulic Research current edition Manual of Cross-Connection Control.

The primary product and performance standard for the design, installation and testing of the backflow assembly shall be the University of Southern California's Manual of Cross-Connection Control current edition. When conflicts arise between the provisions of the Uniform Plumbing Code and the U.S.C. Manual of Cross-Connection Control, the most restrictive shall govern.

301.2 Alternate Materials and Methods of Construction Equivalency. Change the last sentence of the first paragraph to read:

The Authority Having Jurisdiction shall have the authority to approve or disapprove the system, method or device for the intended purpose.

CHAPTER 4

PLUMBING FIXTURES AND FIXTURE FITTINGS

411.2 Location of Floor Drains. Add as new paragraphs.

411.2.4 Floor drains shall be provided in public boiler rooms, in commercial boiler rooms, boiler room areas of multi-family buildings, and adjacent to area where meat or poultry processing is conducted.

411.2.5 In rooms containing a reduced pressure backflow device the designer shall consider the backflow device manufacturer's recommendation for sizing of the floor sink to accommodate a full port discharge.

Table A. Occupant Load Factor: Delete Group A

413.1 Limitation of Hot Water Temperature for Public Lavatories. Change first sentence to read:

Hot water delivered from public-use lavatories shall be limited to a maximum temperature of 110°F.

CHAPTER 6

WATER SUPPLY AND DISTRIBUTION

603.3.3 Change paragraph to read:

The premise owner or responsible person shall have the backflow prevention assembly tested by a "Certified Backflow Assembly Tester" at the time of installation, repair, or relocation, and at least on an annual schedule thereafter or more often when required by the water Purveyor, Utility, or the District Health Department. The periodic testing shall be performed in accordance with procedures referenced in the University of Southern California Manual of Cross-Connection Control current edition by a tester qualified in accordance with those standards and the CA-NV Section of AWWA Backflow Prevention Assembly Tester and Cross-Connection Control Program Specialist.

604.1 Add as last sentence to first paragraph:

Plastic piping shall not be permitted in Type I and Type II buildings.

604.6 Add as last sentence:

All galvanized water pipe and fittings shall be kept at least six (6) inches above finish grade.

605.1. Add as last sentence to paragraph:

Saddle valves shall be prohibited for use in any potable water system.

608.6 Change paragraph to read:

Any water heating device connected to a storage tank, whether integral or separate, shall be provided with, in addition to the primary temperature control, an approved combination over-temperature and pressure relief device, constructed, listed and installed in accordance with nationally recognized and applicable standards for such devices. See listings for “Tankless” water heaters.

609.1 Installation. Change the last two sentences in the paragraph to read:

All water service yard piping shall be at least six (6) inches (.15m) below the local frost depth. The minimum depth shall be thirty (30) inches (.75m).

612.0 Service Water Heating. Add as new section:

612.1 Water heating system shall be designed in a manner conducive to conserving energy and shall meet the minimum requirements of section 804.1 of the International Energy Conservation Code.

612.2 Circulating Hot Water Systems. When a hot water system exceeds forty (40) feet to the point of use, a method of recirculation shall be employed, either by gravity flow, circulatory pump, or other method acceptable to the Authority Having Jurisdiction.

612.3 Pump Operation. Circulating hot water systems shall be designed and installed so that the circulating pumps can be conveniently turned off, automatically or manually, when the hot water system is not in operation.

612.4 Insulation. For recirculation systems, piping heat loss shall be limited to a maximum of 25BTUH/Sq. Ft. of external pipe surface for above ground piping and a maximum of 35 BTUH/Sq. Ft. of external pipe surface for underground piping. Maximum heat loss shall be determined at Δt equal to the maximum water temperature minus a design ambient temperature no higher than 65° F.

CHAPTER 7

SANITARY DRAINAGE

701.1 Add as first sentence to paragraph:

Plastic piping used for drainage and waste shall not be permitted in Type I and Type II buildings.

701.1.6 Add as new paragraph:

“Sovent Plumbing System” submitted for plan review shall be sent out to a Nevada Licensed Mechanical/Plumbing Engineer for plan review. Plans shall be prepared by the “Sovent Manufacturing Co.” stamped and signed by a Mechanical/Plumbing Engineer, licensed with the State of Nevada. Prior to the issuance of the permit, a special inspection program, in accordance with the Building Code, shall be approved by the Building official.

701.2 Add as first sentence to paragraph:

Plastic fittings used for drainage and waste shall not be permitted in Type I and Type II buildings.

712.2 Water Test. Add as last sentence to paragraph:

Water test method shall utilize “Gray Water” only when “Stage Two” drought restrictions are required.

717.0 Size of Building Sewers. Change first paragraph to read:

The minimum size of any building sewer shall be determined on the basis of the total number of fixture units drained by such sewer, in accordance with Table 7-8, but in no event less than four (4) inches in diameter. No building sewer shall be smaller than the building drain.

CHAPTER 8

INDIRECT WASTES

809.0 Drinking Fountains. Add as first sentence:

All drinking fountains shall be equipped with self-closing valves.

CHAPTER 9

VENTS

903.1 Add as first sentence to paragraph:

Plastic piping used for venting systems shall not be permitted in Type I and Type II buildings.

CHAPTER 10

TRAPS AND INTERCEPTORS

1007.0 Trap Seal Protection. Add as last sentence to paragraph:

All trap primers shall have a physical one (1) inch air gap.

1014.1 Add as last sentence to paragraph:

When drains for trash enclosures are located outside of the building, the P-Trap may be omitted.

1014.1.3 Food Waist Disposal Units and Dishwashers: Change paragraph to read as follows:

On and after August 15, 1994, before a new industrial/commercial discharger may obtain a waste discharge permit in connection with a business which discharges waste which may contain grease, including but not limited to, scullery sinks, pot and pan sinks, dishwashing machines, soup kettles, garbage grinders and floor drains where grease containing material may exist, said discharger shall present to the director proof that an approved grease interceptor exists for use by the business name in said permit.

1014.2 – Delete this section.

1014.3.2.1 – Delete this section.

1014.3.6 Sizing Criteria

1014.3.6.1 Sizing – Change paragraph to read as follows:

The volume of the interceptor shall be determined by using revised Table 10-3 (minimum size shall be 750 gallons). Refer to Table 7-5, Drainage Piping, Horizontal.

**REVISED TABLE 10-3
Sizing of Grease Interceptors**

	Number of meals per peak hour¹	x	Waste flow rate²	x	Retention time³	x	Storage factor⁴	=	Interceptor size (liquid capacity)
¹	Meals Served at Peak Hour								
²	Waste Flow Rate								
	a. With dishwasher						6 gallon (22.7 L) flow		
	b. Without dishwasher						5 gallon (18.9 L) flow		
	c. Single service kitchen.....						2 gallon (7.6 L) flow		
	d. Food waste disposer						1 gallon (3.8 L) flow		
³	Retention Times								
	Commercial kitchen waste								
	Dishwasher							2.5 hours	
	Single service kitchen								
	Single serving							1.5 hours	
⁴	Storage Factors								
	Fully equipped commercial kitchen.....						0-8 hour operation: 1.5 8-16 hour operation: 2 16-24 hour operation: 3		
	Single Service Kitchen							1.5	

1016.2 Construction and Size – Change section to read as follows:

This formula is based upon square footage area of the facility and other factors. The size calculation is listed below:

Size = square footage area of the facility/facility factor x 7.48 gal/cu ft x 2 (minimum size shall be 750 gallons).

Facility Factor	Facility
15	Truck washes, heavy equipment wash
50	Automatic car wash
75	Manual car was
100	Machine shop, work area, automotive workshops
2000	Parking garages where cars are washed
3000	Parking garages

CHAPTER 11

STORM DRAINAGE

1101.3 Material Uses. Add as first sentence to paragraph:

Plastic piping used for rainwater systems shall not be permitted in Type I and Type II buildings.

1104.3 Combining Storm with Sanitary Drainage. Delete this section.

1102.2.2 Leaders – Add as first sentence to paragraph:

Plastic piping used for rainwater systems shall not be permitted in Type I and Type II buildings.

1105.1.2 Delete "lead".

CHAPTER 12

FUEL PIPING

1209.6.2 Location. Add as last sentence to paragraph (B).

When exposed to probable vehicular damage, aboveground gas meters, and system piping shall be suitably protected.

1214.3 Test Pressure. Change paragraphs to read:

1214.3.1 High Pressure Gas Test. This test shall be made before any fixtures, appliances or shut-off valves have been attached and before being concealed. This test shall include an air, CO₂, or nitrogen pressure test at which time the gas piping shall stand at a pressure of not less than twenty-five (25) PSI (68.9 kPa) gauge pressure for no less than thirty (30) minutes.

1214.3.2 A manometer test shall be made after all valves, unions, connectors and piping to the appliances are complete. A pressure test shall be made with the use of a manometer gauge measuring inches of water column. With all valves including gas cock and gas control valves in the open position a pressure of at least eleven (11) to fifteen (15) inches of water column shall be measured for at least fifteen (15) minutes, with no perceptible drop in pressure.

Manometer testing shall be performed by a person holding a valid Washoe County or City of Fernley Manometer Tester card for which the number is to be provided at the time of inspection is requested. A visual manometer test, witnessed by the authority having jurisdiction may be allowed by the Building Official. A manometer test does not need to be reported when the serving gas utility performs a manometer test prior to providing service.

1214.3.3 Where gas piping is to be welded, a pressure test shall be conducted. The test pressure shall not be less than sixty (60) psi (413.4 kPa) gauge pressure and shall be continued for one (1) hour with no perceptible drop in pressure

1217.0 Required Gas Piping Size. Change table references in first sentence from "Table 12-7" to "Table 12-8" and "Table 12-15" to "Table 12-13".

Tables 12-19 through 12-23 and Tables 12-36 through 12-38 Corrugated Stainless Steel Tubing. Delete Tables 12-19 through 12-23 and 12-36 through 12-38. All Corrugated Stainless Steel Tubing systems shall be sized per the manufacturer's listings.

APPENDIX

The following Appendixes are specifically adopted:

Appendix A
Recommended Rules for Sizing the Water Supply System

Appendix B
Explanatory Notes on Combination Waste and Vent Systems

Appendix D
Sizing Stormwater Drainage Systems

Table D-1 Maximum Rates of Rainfall for Various Cities

Change Nevada – Reno. Inches/hour 3.0 and GPM/ sq. ft. 0.031.

Appendix E
Manufactured/ Mobile Home Parks and Recreational Vehicle Parks

Appendix F
Firefighters Breathing Air Replenishment System

F1 Scope – Add as last sentence:

Contact Reno Fire Department, Division of Fire Prevention, for applicability and design criteria.

Appendix K
Private Sewage Disposal Systems