

**SQUAW VALLEY PUBLIC SERVICE DISTRICT CODE
CHAPTER 1. WATER CODE**

All sections of this Chapter were adopted by Ordinance 88-2, unless noted otherwise.

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Chapter 1 Water Code

DIVISION I ADMINISTRATION

Section 1.01 Title

This chapter shall be known as the "Water Code," and may be cited as such.

Section 1.02 Scope

The provisions of this Chapter shall apply to water supply and service in, upon, or affecting the territory of the Squaw Valley Public Service District, and the design, construction, alteration, use, and maintenance of public water mains, distribution system, reservoirs, booster pump stations, pressure reducing stations, connections and services, and all system appurtenances; the issuance of permits and the collection of fees therefore and fees to pay for the cost of checking plans, inspecting construction, and making record plans of the facilities permitted hereunder; and providing penalties for violation of any of the provisions thereof. [Amended by Ord. 99-01]

Section 1.03 Amendments

This Chapter was adopted by the District on June 30, 1988, by Ordinance 88-2. Any future changes, additions, or deletions to this Chapter will be accomplished by adoption of future Ordinances amending, adding or repealing Sections in this Water Code.

DIVISION II DEFINITIONS

Section 2.01 Scope

The words and phrases appearing in this Chapter shall have the following meanings, unless it shall be apparent from the context that they have a different meaning.

Section 2.02 District

"District" means the Squaw Valley Public Service District. [Amended by Ord. 99-01]

Section 2.03 Board

"Board" means the Board of Directors of the Squaw Valley Public Service District. [Amended by Ord. 99-01]

Section 2.04 District Manager

"District Manager" shall mean the Manager of the District or other person designated by the Board or the Manager to perform the services or make the determinations permitted or required under this chapter by the District Manager.

Section 2.05 Person

"Person" shall mean any person, firm, company, corporation, partnership, association, any public corporation, political subdivision, city, county, district, the State of California, or the United State of America, or any department or agency thereof.

Section 2.06 Owner

"Owner" shall mean any person who by lease, contract of sale, deed, deed with security as trust deed, mortgage, or other evidence of indebtedness, estate or other color of right, or color of title, has fee title or demonstrates, or ostensibly demonstrates the authority to grant, or accept the incidents of ownership to any lot, premises, or parcel of land.

Section 2.07 Premises

"Premises" shall mean any lot, or any piece or parcel of land comprising two or more lots of record in one ownership, or any building or other structure or any part of any building or structure used or useful for human habitation or gathering or for carrying on a business or occupation or any commercial or industrial activity.

Section 2.08 County Health Officer

"County Health Officer" means the County Health Officer of the County of Placer, or his authorized deputy, agent, representative, or inspector.

Section 2.09 Ordinance

"Ordinance" means an ordinance of the Squaw Valley Public Service District. [Amended by Ord. 99-01]

Section 2.10 Section

"Section" means a section of this chapter unless some other ordinance, chapter or statute is mentioned.

Section 2.11 Inspector

"Inspector" means the authorized inspector, deputy, agent or representative of the District.

Section 2.12 Licensed Contractor

"Licensed Contractor" means a contractor having a valid license issued pursuant to Chapter 9, Division 3, of the Business and Professions Code, State of California, which license includes the activities listed on permit applied for.

Section 2.13 Permittee

"Permittee" means the person to whom a permit has been issued pursuant to the provisions of this chapter.

Section 2.14 Lot

"Lot" means any piece or parcel of land bounded, defined, or shown upon a map or deed recorded or filed in the office of the County Recorder of Placer County, provided, however, that in the event any building or structure covers more area than a lot as defined above, the term "lot" shall include all such pieces or parcels of land upon which said building or structure is wholly or partly located, together with the yards, courts and other unoccupied spaces legally required for the building or structure.

Section 2.15 Street Property Line

As used in this chapter, "Street Property Line" means a State or County right-of-way line or a road easement line immediately adjacent to the premises.

Section 2.16 Frontage

"Frontage" means the length or width in feet applied to a lot based on the benefit received from the abutting water line, as determined by the District.

Section 2.17 Approved Water Supply

The potable water supply of safe, sanitary quality approved for human consumption by the authorities having jurisdiction.

Section 2.18 Distribution System

The network of pipes used to convey water throughout the service area operated by the District.

Section 2.19 Water Main

A water supply line in street or easement which is a part of the distribution system.

Section 2.20 Pressure Zone

The area within a boundary where service pressure is controlled within specified limits by reducing or boosting water pressure.

Section 2.21 Pressure Reducing Station

A structure containing pressure reducing valves used to reduce water pressure between pressure zones.

Section 2.22 Pressure Reducing Valve

An automatic device which reduces water pressure to acceptable levels by means of a pressure drop across the valve.

Section 2.23 Booster Pumping Station

Pumping equipment used to increase water system pressures to acceptable levels in a service area.

Section 2.24 Hydropneumatic System

A system comprised of a booster pump, pressure tank, air compressor, and controls used to boost pressure and store water at the increased pressure.

Section 2.25 Reservoir

A tank or basin used for the collection and storage of water.

Section 2.26 Service Connection

The pipeline and other equipment in place necessary to convey water from the District's main to the meter or meter box located on or near the property line, including the tap, corporation stop or shutoff valve at the main, service line, curb stop and drain, but not including the meter or meter box.

Section 2.27 Tapping

The installation of a corporation stop or saddle tee on a pipeline after it is in place.

Section 2.28 Corporation Stop

The valve adjoining the water main on a service connection.

Section 2.29 Curb Stop

The shutoff valve on the service connection at the property line.

Section 2.30 Blowoff

Valved take-off at low points in distribution line.

Section 2.31 Air Release Valve

Automatic valve at high point in line which releases accumulated entrapped air.

Section 2.32 Air and Vacuum Relief Valve

Combination automatic valve at high point in line which releases entrapped air or admits air when a vacuum is created.

Section 2.33 Dielectric Couplings

A non-metallic insert between ferrous and non-ferrous metal with high insulating properties used to interrupt transient currents and to prevent electrolysis.

Section 2.34 Disinfection

Introduction of an oxidizing agent into the system to kill potentially infectious living organisms.

Section 2.35 Water Conservation Devices

The following words and phrases shall have the meanings given herein relative to water conservation equipment and facility uses:

A. Water-saving Shower Head. A shower head equipped with a flow reducing device limiting flow to a maximum of two and one-half (2-1/2) gallons per minute. [Amended by Ord. 01-04]

B. Water-saving Aerator. An aerator equipped with a flow reducing device limiting flow to a maximum of two and two-tenths (2.2) gallons per minute. [Amended by Ord. 01-04]

C. Self-closing Valve. A water valve designed to close by spring or water pressure when left unattended shall be installed in all commercial establishments and shall be rated for not more than .25 gallons per use. [Amended by Ord. 01-04]

D. Water Saving Toilets. Tank-type toilets shall be designed for a maximum one and six-tenths (1.6) gallon flush or equipped with an approved flush-o-meter valve. Urinals shall be designed for a maximum one (1) gallon flush. [Amended by Ord. 01-04]

E. Water Closet Reservoir Device. A device designed to reduce the flush in tank-type toilets to

three and one-half (3-1/2) gallons or less.

F. Pressure Reducing Valve. A valve device providing regulation of water pressure to structures designed to limit the pressure for use within that structure to a range not exceeding 60 psi.

G. Approved Fixtures and Devices. Fixtures and devices approved by the Squaw Valley Public Service District and meeting minimum standards of the Plumbing Code. [Amended by Ord. 99-01]

H. New Uses. Any uses incorporated in new construction or added to existing construction through remodeling taking place after the date of adoption of Ordinance No. 88-2.

I. Existing Uses. All lawful uses existing at the date of adoption of Ordinance No. 88-2.

Section 2.36 Customer

"Customer" shall mean any person described herein to whom water is delivered through the District distribution system.

Section 2.37 Metered Service Connection

The service connection, plus the meter and meter box.

Section 2.38 Private Waterline

That portion of the water distribution system which is located on the private owner's or customer's side of the street property line.

Section 2.39 Residential Condominium

"Residential Condominium" shall mean an estate in real property consisting of an undivided common interest in a portion of a parcel of real property, together with a separate interest in a living unit of the residential multiple unit.

Section 2.40 Commercial Condominium

"Commercial Condominium" shall have the same meaning as a residential condominium with the additional provision that it is managed in such a manner as determined by the District to be of a commercial nature or it is configured such that treating it as a commercial condominium would be the most equitable means of billing the user.

Section 2.41 Single Family Unit

"Single Family Unit (SFU)," for the purpose of this chapter, shall mean a residential housing facility containing no more than one living unit. "Living unit" as used herein means any building or portion thereof containing the following:

- Cooking Facility; and
- A sleeping area or sleeping accommodations, and
- A bathroom facility

“Cooking Facility,” as used herein, shall be defined as containing a stove, oven, microwave or other facilities commonly used for the preparation and service of food and/or an area for the storage, preparation and cooking of food, including a kitchen sink. “Kitchen sink,” as used herein, means any sink that may be utilized for food preparation.

“Bathroom facility,” as used herein, means an area containing a toilet and bathtub or shower.
[Amended by Ord. 94-04 and Ord. 02-02]

Section 2.42 Multiple “Single Family Units”

Multiple “Single Family Units” as used herein means any residential housing facility containing two or more separate living units as defined in Section 2.41. Separate, as used herein, means isolated by means of partition, wall, door, floor, ceiling, or other obstruction, which detaches one living unit from another. [Added by Ord. 02-02]

DIVISION III GENERAL PROVISIONS AND REGULATIONS

Section 3.01 Amendments

Whenever a power is granted to any portion of this chapter, such reference applies to all amendments and additions thereto.

Section 3.02 Delegation of Powers

Whenever a power is granted to or a duty imposed upon the District by provisions of this chapter, the power may be exercised or the duty performed by an authorized person or agent of the District.

Section 3.03 Validity

If any provision of this chapter or the application thereof to any person or circumstance, is held invalid, the remainder of the chapter, and the application of such provisions to other persons or circumstances shall not be affected thereby.

Section 3.04 Enforcement

This District Manager shall enforce the provisions of this chapter and for such purpose shall have the powers of a peace officer. Such powers shall not limit or otherwise affect the powers and duties of the County Health Officer.

Section 3.05 Minimum Standards

The minimum acceptable standards for design and construction of water lines and appurtenances within the District shall be the latest version of the Squaw Valley Public Service District's Standard Specifications. [Amended by Ord. 99-01]

Section 3.06 Penalty for Violation

Every person violating any provision of this chapter or any conditions or limitation of permit issued pursuant thereto is guilty of a misdemeanor punishable in the manner provided by law.

Section 3.07 Continued Violation

Each day during which any violation described in this chapter as willful continues shall constitute a separate offense punishable as provided by this chapter.

Section 3.08 Notice

Unless otherwise provided herein, any notice required to be given by the District Manager under this chapter shall be in writing and may be mailed by regular first-class mail to the last address known to the District Manager. Where the address is unknown service may be made as above provided upon the owner of record of the property.

Section 3.09 Time Limits

Any time limit provided for in this chapter may be extended by mutual written consent of both the District and the permittee or applicant, or other person affected.

Section 3.10 Identification

Inspectors and maintenance men shall identify themselves upon request when entering upon the work of any contractor or property owner for any inspection or work required by this chapter.

Section 3.11 Inspections

The District Manager may inspect, as often as he deems necessary, all construction of water lines, connections, reservoirs, pumping plants, treatment facilities and all other appurtenances. All persons shall permit and provide the District Manager with access to all such facilities at all reasonable times.

Section 3.12 Access Requirements

No physical object or structure, including, but not necessarily limited to, permanent or temporary structures, plantings, landscaping, fill, boulders, rockery walls or irrigation systems, shall be located on or within a District water line easement or placed in such a position as to unreasonably interfere with District's access, maintenance and repair of any facility, located within a water line easement and as described in Section 3.11. Any such obstruction, upon request of the District's General Manager, or his designee, shall immediately be removed by the property owner at no expense to the District and once removed, shall not be replaced on or within the easement. (Revised by Ord 2008-07)

Upon the District's written notification to the property owner, any and all obstructions which impede or prevent access to the utility easement shall be removed by the Owner at no cost to the District. If, after 45-days notice, the Owner has failed or refused to remove the obstruction(s) affecting the utility easement, District shall, at its election, remove said obstructions and bill the Owner to recover District expenses incurred in connection therewith. Owner shall be responsible for payment of all District expenses, including Staff time, administrative fees, legal fees, charges from independent contractors and/or as otherwise associated with removal of Owner's encroachments upon or within District's utility easement. (Added by Ord. 2008-07)

The obligation to pay District expenses shall become due upon presentation of a billing therefor and shall become delinquent if not paid within forty-five (45) days from date of billing presentation. Any delinquent payment shall gather interest at the Annual Percentage Rate of twelve percent (12%) from date of delinquency until paid. If the bill remains unpaid for a period of forty five (45) days from presentation of the original billing, the District will forward the delinquent charges to Placer County for collection on the Owner's property tax bill. (Added by Ord 2008-07)

Section 3.13 Interference with Inspectors

No person shall, during reasonable hours, refuse, resist, or attempt to resist the entrance of the District Manager into any building, plant, yard, field, or other place or portions thereof in the performance of his duty within the power conferred upon him by law or by this chapter.

Section 3.14 Temporary Service

A. Prior to receiving temporary water service from the District or connecting into the District's distribution system for temporary water service, a contractor shall comply with the following:

1. A contractor shall make written application on the forms provided by the District.
2. The contractor shall agree to pay the District a non-refundable connection fee to be determined by the District based on the size of the meter to be used, and all account set-up costs.
3. The contractor shall agree to pay the District for actual consumption at the rate established by the Board from time to time. This rate shall not be less than the actual total cost of the District to produce the water consumed.
4. The contractor may be required to deposit with the District a sum to be determined by the District to cover the cost of the contractor's estimated water usage for the entire period of use. If the actual amount of water used is less than the amount deposited with the District, the District shall refund the difference to the contractor after the contractor disconnects from the District's distribution system and returns the meter to the District. The contractor shall pay such further sums as necessary to cover the actual usage.
5. The contractor shall deposit with the District a sum to be determined by the District equal to the replacement cost of the meter to be used. The District shall refund the deposit if the meter is returned undamaged.

B. In addition to other enforcement provisions of this chapter, the District may terminate the supply of water to any contractor receiving temporary water service in violation of this section.

C. A contractor shall be liable for all reasonable expenses incurred by the District in its enforcement of Section 3.14.B.

D. This section shall not apply to contractors working directly for the District.

Section 3.15 Service to Others

No person shall supply water to any other lot or premises other than that owned or occupied by such person unless written permission is first granted by the District.

Section 3.16 Interruptions in Service

The District shall have the authority to turn off water from mains without notice. The District will not be liable for damage that may result for an interruption in service.

In the event of planned water outages, every effort will be made to notify persons living in affected areas of the shut-off. In such cases, District personnel will go door-to-door or will place the flags notifying individuals of the date and time of the planned shut-off.

Nothing in this section shall require the District to notify affected persons in the event of emergency shut-offs.

Section 3.17 Shut-off Valves

All shut-off valves installed by the District are for District use only. For ordinary usage, all owners shall provide their own shut-off valves.

Section 3.18 Tampering

A. No person shall operate, construct, alter, connect, interfere, or otherwise tamper with the District's main line, fire hydrant, service connection, shut-off valve, disconnection meter lock, or other portion of the District's distribution system which is owned by the District, without prior written District authorization.

B. Any person who, without prior District authorization, operates, constructs, alters, connects, interferes, or otherwise tampers with the District's main line, fire hydrant, service connection, shut-off valve, disconnection meter lock, or other portion of the District's distribution system which is owned by the District, shall pay to the District the minimum cost of investigating and correcting the unauthorized tampering, which rate shall be determined by staff and approved by the Board. This person shall also pay to the District any additional sums which the District incurs to cover the District's administrative, legal, repair, and other related expenses of investigating and correcting the unauthorized tampering.

C. Any person who needs to temporarily close or otherwise utilize any District shut-off valve shall first obtain the District's authorization prior to initiating such action. This person shall pay all District costs relating to the temporary closing or utilizing of any District shut-off valve.

D. Any person who closes or otherwise utilizes any District shut-off valve, without prior District authorization, shall contact the District immediately about the reasons for using the shut-off valve and location of the shut-off valve. A person who fails to contact the District immediately shall pay to the District the minimum cost of investigating an unauthorized and unreported use of a District shut-off valve which rate shall be determined by staff and approved by the Board. This person shall also be subject to the costs identified in Section 3.18.B.

Section 3.19 Water Bleeds

No water bleeds shall be operated by any person for the purpose of freeze prevention without written permission of the District. Water wasted in this manner will be estimated and charged for at the rate set by the Board of Directors.

Section 3.20 Wastage of Water [Amended by Ord. 2007-01]

No person and/or consumer shall cause or permit any water furnished to his property by the District to waste water for any purpose contrary to any provision of this Code, or in quantities in excess of the use permitted by the conservation stage in effect pursuant to Section 3.23. All District customers are encouraged to report to the District all signs or indications of water leaks or water waste. The District may, after two warnings by certified mail or personal service, disconnect the service to any property and/or consumer for failure to comply with the foregoing rule.

Such service shall be restored only upon payment of the current turn-on charge in effect at the time the water is disconnected, plus any assessed fine as specified in Section 3.23.5. The amount of water wasted in this manner will be estimated and charged at the rates set by the Board of

Directors from time to time.

Section 3.21 Water Conservation Devices - Area of Installation

Water conservation requirements concerning installation of devices in new and existing facilities shall apply to all areas within the Squaw Valley Public Service District boundaries. [Amended by Ord. 99-01]

Section 3.22 Installation Requirements for Water Conservation Devices

Requirements for installation in all existing facilities are contained herein. New construction shall conform to these requirements where applicable.

A. Requirements for New Water Use. All new single-family, multi-family, commercial, industrial and public uses shall be equipped with approved water-saving shower heads, water saving aerators on kitchen sinks and lavatories, water saving toilets, shower flow control valves, and pressure reducing valves when such a device is required to maintain 60 psi or less within the system.

B. Insulation of Water Pipes in New Construction. All hot water pipes installed within any new construction shall be insulated to minimum Placer County Building Department standards unless said water pipes are contained within interior walls.

C. Requirements for Existing Water Uses. All existing single-family, multi-family, commercial, industrial and public uses shall be modified so as to be equipped with approved water saving shower head inserts, and water saving toilets or water closet reservoir devices as required by the latest edition of the Uniform Plumbing Code. [Amended by Ord. 01-04]

Section 3.23 Water Conservation [Added by Ord. 01-04; entire section replaced by Ord. 2007-01]

Notwithstanding any other provision of law, and in accordance with Division 1, Chapter 3.5 of the California Water Code, the District finds that a Water Conservation Program is in the public's best interest, will serve a public purpose, and will promote the health, welfare, and safety of the people of Squaw Valley. The District shall strive to educate water users regarding the benefits of water conservation and will notify customers of high usage rates or when water leaks are suspected. In addition to the provisions contained in the Sections above, all District customers shall adhere to the following water conservation measures at all times.

3.23.1 Irrigation Conservation.

1. The Model Water Efficient Landscape Ordinance mandated by the State of California includes a Maximum Applied Water Allowance (MAWA) for any given parcel of land, based on evapotranspiration rates, by region. Appendix A hereto specifies the Maximum Water Allowance Calculation applied to properties located within District boundaries and is incorporated herein by reference. This calculation is used by the District in establishing rate blocks and water usage rates.

2. District shall establish an increasing block rate structure that encourages efficient water uses, and sends a strong price signal to those who waste water based upon the

provisions set forth in 3.23.1.1, above.

3. A dedicated landscape meter shall be required on all new construction on vacant lots. A dedicated meter shall be required on the installation of any new irrigation system.

Any customer using more than 280,000 gallons per year for two (2) consecutive years shall be required to install a dedicated landscape meter.

4. Pressure regulators shall be required on all irrigation systems and set not to exceed 60 psi.

5. Commercial landscaping, both new and existing, shall conform to Chapter 2.7, Sections 490 through 495, of Division 2, Title 23, of the California Code of Regulations.

3.23.2 Stage 1 (Normal Conditions)

During Stage 1 (Normal Conditions), all District customers (residential, commercial, non-profit, and public agencies) shall not waste water in any fashion or in violation of Section 3.20, and shall abide by the following irrigation restrictions:

Note: "Normal Conditions" should be defined.

a. Voluntary Odd-Even Designated Irrigation Encouraged. The District encourages no irrigation, for any purpose, other than for fire safety measures, on Mondays in Stage 1 (Normal Conditions). Properties with street addresses ending with even numbers are encouraged to irrigate on Tuesdays, Thursdays and Saturdays. Properties with street addresses ending with odd numbers are encouraged to irrigate on Wednesdays, Fridays and Sundays. Hand watering is permitted at will. These restrictions shall be mandatory in Stage 2 (Significant Water Shortage) and Stage 3 (Critical Water Emergency).

i. Automatic Irrigation Systems shall not irrigate in one irrigation zone more than two (2) hours in any 24-hour period, unless the method of irrigation or irrigation system is exclusively by drip or other low-flow irrigation system. No outdoor irrigation will be permitted during the hours of 10:00 a.m. and 5:00 p.m.

District customers with automatic irrigation systems are encouraged to operate and maintain such systems as intended by the manufacturer's recommendations and comply with odd-even irrigation requirements.

ii. Drought Resistant Landscapes. The District strongly encourages the use of drought resistant plants, native plants, groundcovers, or naturalized plants. Drip irrigation or low-flow irrigation systems in new landscape areas shall be required. Installation of large turf areas, and/or unused turf areas shall be discouraged.

iii. New Landscape Exemption. An exemption from the provisions of section 3.23.2a.1., above, shall exist under Stage 1 for newly installed landscaping, as follows: lawns, trees and shrubs shall be exempt for a period of: 60 days from date of installation; bedding plants (including vegetable/herb gardens) shall be exempt for a period of: 15 days from date of planting. The property owner, or his/her designee, shall apply to the District for a written exemption.

- b. Excess Flow. District customers shall not allow water to flow over the ground surface, or from sprinklers, onto impervious surfaces or adjacent property.
- c. Leaks. District customers shall repair all leaks in plumbing and irrigation systems occurring on the customer's side of each meter within ten (10) days from date of discovery or notification. A leak detection notice may be given to the property owner.
- d. Hoses shall not be used for any purpose without an automatic shut-off device being attached to the hose. Hoses left running are not permitted.
- e. Undeveloped Property & Vacant Lots. Irrigation of undeveloped property and vacant lots is expressly prohibited unless required or mandated by Placer County Code or other governmental agency.
- f. (Moved to Stage 2 and 3)
- g. Food and Beverage Establishments. Commercial food and beverage establishments should encourage serving water to customers only when requested by the customer.

3.23.3 Stage 2 (Significant Water Shortage)

A Stage 2 level shall be determined by the Board of Directors, after consideration of available water supply, aquifer levels, annual precipitation, long range weather forecasts, or such other factors which may apply in District's discretion. and/or any mechanical defect in operating systems. In addition to restrictions contained in Stage 1, the following restrictions shall become effective immediately upon posting a Stage 2 alert notice at three (3) conspicuous posting locations within the District, and upon notification to the local media:

- a. The filling of all swimming pools, which are not covered during periods of non-use, is prohibited.
- b. The operation of any ornamental fountain or similar decorative water feature is prohibited, unless a water recycling system is used, and a notice to the public of such recycling system is prominently displayed.
- c. Outdoor irrigation of all vegetation, including lawns and landscaping, is limited to three times per week, one hour per irrigation zone, per day. Irrigation restrictions specified in Section 3.23.2.a, Odd-Even Designated Irrigation Established, are mandatory and zones shall be restricted to one hour per zone.
- d. No new landscaping shall be installed during a Stage 2 level.
- e. Hardscapes. Water shall not be used to wash sidewalks, driveways, parking areas, tennis courts, decks, patios or other improved areas, except as required or necessitated by driveway repair or necessary maintenance, or to alleviate immediate fire, sanitation, or health hazards.
- f. Fire Hydrants. Use of fire hydrants for flushing (except for protection of public health),

construction water for compaction, and dust control shall be coordinated with hydrant flushing only.

- g. Lodging Facilities. Lodging facilities subject to registration and payment of transient occupancy taxes to Placer County shall post water conservation literature in each room. Literature to be distributed shall be approved by the General Manager.

h. The Stage 2 declaration and restrictions therein shall be reviewed every 180 days by the Board of Directors. Upon cessation of Stage 2 Conditions, Stage 1 (Normal Conditions) provisions will be re-instated.

i. After imposition of restrictions on water wastage and usage identified above, such restrictions shall stay in effect until the Board of Directors removes such restrictions [Amended by Ord. 01-04].

j. If, after having been notified by the District through certified mail or personal service of a violation of the emergency water restrictions specified above, the customer continues to violate such restriction(s), the Manager or his/her designated representative shall have the power to disconnect water service to such customer or reduce such water service for household purposes only. Disconnected service or reduced service shall be restored only upon payment of the appropriate reconnection charge established from time to time by the Board. [Amended by Ord. 01-04]

3.23.4 Stage 3 (Critical Water Supply Shortage, Emergency Water Conservation Restrictions) [Entire Section added by Ord. 01-04]

A. Notwithstanding any other provision of law and in accordance with Division 1, Chapter 3, of the California Water Code, in the event of a critical water supply shortage, the shortage shall be declared as such by the District Board of Directors. A Special Meeting shall be posted in order to alert and educate the public. Upon declaration of a water shortage emergency the District shall notify all customers by direct mailing, public communication, and personal service. In addition to continued adherence to water conservation measures and water restrictions contained in the above Sections, District customers shall implement and adhere to the following Emergency Water Conservation Restrictions:

1. Implement mandatory reduction in average base water consumption by 20% or more as deemed necessary by the Board of Directors for all water users in Squaw Valley.
2. Implement critical water supply rates and charges as set forth by the Board of Directors upon finding the water supply to be at a critical shortage. Said rates and charges are intended to provide sufficient funding to continue operating and to cover cost to correct the water supply shortage.
3. In case of a critical drought condition that threatens the District's ability to pump sufficient water supply, and in order to ensure sufficient water supply is available for domestic use, sanitation, and fire protection, the District Manager shall implement regulatory authority over the water basin as provided for in the California Water Code, until such time as the aquifer has recovered to a safe operating level.
4. The District may limit or discontinue the issuance of new water supply permits as

deemed necessary by the General Manager.

5. Water supply permits for projects under construction may be suspended or revoked unless the owner can prove the project will not further exacerbate the water supply shortage.
6. Washing of hard surfaces, including sidewalks, driveways, parking areas or decks, shall be discontinued unless required for the health and safety of the occupant.
7. The District shall continue to conduct public meetings regarding the water shortage and solicit the support of the community.
8. The District shall discontinue or limit supply of water outside of District boundaries (service area) except as may be necessary for public health and safety, including fire suppression.

B. After the Manager imposes the restrictions on water wastage and usage identified in the Section above, such restrictions shall stay in effect until the Manager removes such restrictions.

C. If, after having been notified by the District through certified mail or personal service of a violation of the emergency water restrictions specified in the Section above, the customer continues to violate such restrictions(s), the Manager or his/her designated representative shall have the power to disconnect water service to such customer or reduce such water service for household purposes only. Disconnected service or reduced service shall be restored only upon payment of the appropriate reconnection charge established from time to time by the Board.

3.23.5 Enforcement

The General Manager, and other authorized District employees, have the duty and are hereby authorized to enforce all provisions of Section 3.23.

3.23.6 Violations

- a. For the first violation within one calendar year, the District shall issue a written warning to the customer.
- b. For the second violation within one calendar year, a \$100 fine shall be added to the customer's water bill.
- c. For the third violation within one calendar year, a \$500 fine shall be added to the customer's water bill, and the District may install flow restrictors.
- d. For the fourth and any subsequent violation within one calendar year, a \$1,000 fine shall be added to the customer's water bill. The District may also discontinue water service to the property where the violations occurred, in accordance with District procedures. Reconnection shall be permitted only when there is reasonable protection against future violations, such as installation of a dedicated landscape irrigation meter, flow-restricting devices installed on the customer's service connection, or as otherwise determined at the District's discretion.

3.23.7 District Enforcement Costs

In addition to collecting any fines assessed per Section 3.23.5 above, the District shall be reimbursed for its costs and expenses, including legal fees and costs, incurred to enforce the provisions of this Ordinance including all costs for staff to investigate and monitor the customer's compliance with the terms of this Section. Charges for the installation of a dedicated landscape irrigation meter, flow-restricting devices or for discontinuing or restoring water service shall be added to the customer's bill for the property where the enforcement costs were incurred.

Section 3.24 Location of Service Connection Inconsistent With Record Maps

Whenever a service connection is not located as shown on District record maps, District personnel will assist to the extent possible to determine the location of the service connection by use of surface and underground line detectors. However, the District shall bear no expense for equipment, excavation and/or labor expenses incurred by any person in determining the location of District lines and other facilities.

Section 3.25 Non-existent Service Connections Shown on Record Maps

A. Before a service connection, which is shown to exist on District maps, is determined to be non-existent, the person attempting to locate the service connection shall contact the District Manager for a determination relative to the amount of digging and/or research to be required of the person in locating the service connection. The District shall not be liable for any expenses for equipment, excavation, and/or labor incurred by any person in determining the existence of any lines or other facilities.

B. When the District has previously been provided with record maps and the Manager has made a determination that no service connection exists as shown on the District record maps, the Manager may:

1. Waive any applicable main line tap fees; and,
2. Install the service connection at the District's expense if there is an existing main servicing the property.

Section 3.26 Public Relations Program

The District Board of Directors may undertake a public relations program to provide the public with information in an effort to promote knowledge and understanding of the area's water situation in general and methods to conserve the water supply.

Section 3.27 Service to Separate Premises

Each separate single-family unit, commercial business, establishment or other building or portion of building under single control or management shall be supplied through separate, individual service connections and meters, unless the District elects otherwise.

Section 3.28 Service to Multiple Units on Same or Adjoining Premises

Separate houses, buildings, living or business establishments on the same premises or on

adjoining premises under single control or management, or separately owned lots or units in multi-lot or unit structures, may be served at the option of the District by either of the following methods:

- A. Through separate service connections and meters to each and any unit or structure, provided that the piping system from each service connection is independent and not interconnected.
- B. Through one or more service connections or meters which supply the entire premises or lots.

Section 3.29 Division of Presently Serviced Lots or Premises

When a lot or premises which is presently serviced by the District is divided into two or more lots or premises, the existing service connection and/or meter shall be considered as belonging to the lot or premises which the service connection and/or meter directly enters. Prior to the delivery of water to the new lot(s) or premises, the new lot(s) or premises shall require the installation of a service connection and meter, payment of appropriate fees, and compliance with other District ordinances.

Section 3.30 Meters

- A. All equipment associated with metering, including valves, fittings, settings, meter box, and meter shall be approved by the District. The costs of supplying this equipment shall be borne by the applicant.
- B. At the District's option, the meter and related equipment shall be installed by the District at the permittee's expense or by the permittee at the permittee's expense.
- C. If the District elects to allow the permittee to install the meter and related equipment, the District shall inspect and approve the meter and related installation. Until the District inspects and approves the installation, water service shall not be provided to a permittee not yet receiving water service and water service shall not be charged to any permittee based upon metered usage. The District reserves the right, for any meter installation determined to be inadequate by the District, to complete the installation and charge the permittee for the District's installation costs pursuant to Division VI.
- D. The size of the meter and related equipment supplied by the applicant shall be based upon the information provided in the permit, upon existing construction, and upon the estimated water usage computed from this data.
- E. The District reserves the right to require the location of the meter and meter box on the curb line or property line most accessible for the District from existing distribution lines. Existing service connections shall determine the point of delivery of water to the permittee.
- F. When the District is to install the meter, the permittee or the permittee's agent shall notify the District at least seventy-two hours, holidays and weekends excluded, in advance of the time the meter is required for individual installation. Multiple meter installation shall be scheduled with the District at the time the permit is issued.

Section 3.31 Operation and Maintenance of Distribution System

- A. The owner of the property served and the customer served by the District's distribution system shall be responsible for the operation and maintenance of the private water line, and all devices or

safeguards required by the Chapter, which are located upon the property owned by the property owner or occupied by the customer.

B. The District shall be responsible for the operation and maintenance of that portion of the distribution system, which is in the State or County right-of-way or District easement, which has been dedicated to the District, or which is not located upon the property of the person served by the District's distribution system.

C. The property owner served and the customer served by the District's distribution system shall be responsible and liable for all costs involved in the repair of all damage caused by the property owner, the customer, or agents thereof, to any portion of the distribution system, wherever located.

Section 3.32. Restrictions on Use of District Water [Deleted by Ord 2007-01]

Section 3.33. Critical Water Supply Shortage, Emergency Water Conservation Restrictions
[Deleted by Ord 2007-01]

APPENDIX A

MAXIMUM APPLIED WATER ALLOWANCE CALCULATION

MAWA = (ETO)(0.08)(LA)(0.62) where:

ETO = Referenced Evapotranspiration (inches per year)

0.8 = ET Adjustment Factor

LA = Landscaped Area (square feet)

0.62 = Conversion Factor (gallons per square foot)

¼ acre lot LA = 43,560 (0.25) x .33% = 3,600 square feet (using County General Plan)

Average ETO for Truckee and Tahoe City is 35.85"

MAWA for ¼ Acre Lot = (35.85)(0.8)(3,600)(0.62) = 64,000 gallons

DIVISION IV GENERAL POWERS AND DUTIES

Section 4.01 Record of Fees

The District Manager shall keep in proper books a permanent and accurate account of all fees received under this chapter, giving the names and addresses of the persons on whose accounts the same were paid, the date and amount thereof, and the number of permits granted, if any, which books shall be open to public inspection.

Section 4.02 Estimated Valuations

Whenever the fees required by this chapter are based on valuations, the District Manager shall determine the estimated valuation in all cases, and for such purposes he shall be guided by approved estimating practices.

Section 4.03 Joint Action with other Public Agencies

The District Manager may contact, confer, and negotiate with officials of any public agency and may recommend to the Board a contract by which the District and one or more public agencies may jointly exercise any powers pertinent to the enforcement of this chapter and any similar statute, ordinance, rule or regulation of such public agencies, common to all.

Section 4.04 District Manager to Issue Permit

If it appears from the application for any permit required by this chapter that the work to be performed thereunder is to be done according to the provisions of this chapter, the District Manager, upon receipt of the fees hereinafter required, shall issue such permit.

Section 4.05 Certificate of Final Inspection

When it appears to the satisfaction of the District Manager that all work done under the permit has been constructed according to, and meets the requirements of all the applicable provisions of this chapter, and that all fees have been paid, the District Manager, if requested, shall cause to be issued to the permittee constructing such work a certificate of final inspection. The said certificate shall recite that such work as is covered by the permit has been constructed according to this chapter and that said work is in an approved condition.

DIVISION V PERMITS

Section 5.01 Permit Request

No person other than the persons specifically excluded by this Chapter, shall commence, do or cause to be done, construct or cause to be constructed, use or cause to be used, alter or cause to be altered, or connect to any public water main, valve, pressure reducing station, pumping plant, service connection or other similar appurtenance in the Squaw Valley Public Service District without first obtaining a written permit from the District Manager and paying the appropriate fees as set forth in this Chapter. [Amended by Ord. 99-01]

Section 5.02 When Written Contract Required

The District may require a written contract, as described in Chapter 4, from any consumer as a condition precedent to water service in any residential, commercial, industrial or other type use where unusual quantities of water or construction of special facilities are or will be required. Additionally, if upon determination of the District Manager or Board a written contract is appropriate to best serve the District, one may be required.

Section 5.03 When Permit Not Required

The provisions of this chapter requiring permits shall not apply to contractors constructing water facility improvements under contracts awarded by the District.

Section 5.04 Validity of Permits

A. Transfer and Uses of Permits

1. General Transferability

a. Upon prior, written approval of the District, a person to whom a permit has been issued and the work permitted has not been completed or approved by the District, may transfer a permit to another person solely for the same lot or premises for which the permit was issued, subject to all terms and conditions under which the permit was issued. The transferee shall meet all requirements of the District relating to the transfer.

b. Prior to the District's approval of this transfer for the same lot or premises, the District shall inspect the lot or premises for which the permit was issued. The purpose of this inspection shall be for the District to verify that the amount of construction and the number of units, hook-ups, taps, fixture units and facilities has not increased from that authorized by the permit.

2. Unauthorized Use of Permit

a. The usage of a permit for a lot or premises other than that lot or premises for which the permit was issued shall be considered an unauthorized usage and is prohibited.

b. The usage of a permit for a lot or premises which has more construction or an

increased number of units, hook-ups or taps, than that for which the permit was issued shall be considered an unauthorized usage and is prohibited.

c. The usage of a permit for a lot or premises which has more fixture units or facilities than that for which the permit was issued shall be considered an unauthorized usage and is prohibited until and unless fees are paid for the additional fixture units/facilities at the rates set forth in Division VI and for any additional plan checking at the rates set forth in Division VI.

d. The usage of a permit for any lot or premises which has a different design as to its distribution system, fixture units, or facilities from that shown on the plans for which the permit was issued, shall be unauthorized unless the permittee first provides the District with a revised set of plans showing the different design and the permittee pays all administrative fees the District incurs in reviewing and inspecting the revised plans, including, but not limited to, pre-plan check fees and inspection fees. This requirement is in addition to other requirements or limitations imposed upon the usage of permits as set forth in this Code.

This section is declarative of current District policy and shall not be construed to authorize the usage of a permit otherwise prohibited by Section 5.04 of this Code.

3. Resolution of Unauthorized Use of Permit. The unauthorized transfer or usage of a permit in a manner prohibited by Section 5.04 may impose a different or greater demand upon the District's water system. Therefore, a person must:

a. Apply to the District for a new permit prior to a transfer to or use on lot or premises other than that specified in an existing permit, and/or to authorize more construction or an increase in the number of units, hook-ups, or taps specified in the existing permit. A person applying for a new permit must comply with all of the District's most current rules and regulations concerning permits, including, but not limited to, the payment of the appropriate most current fees and charges.

b. Where a new permit is not required, pay the fees set forth in Division VI for any fixture units or facilities other than those authorized in the existing permit, including required plan checking fees at the rates set forth in Division VI.

4. When the District determines that an unauthorized transfer or usage of a permit has occurred, the District shall, in addition to all other enforcement devices set forth in this code, have the option of declaring part, or all, of the unauthorized transfer or usage to be void and demand that the unauthorized acts cease until such time as appropriate permits have been applied for and obtained, if available, and/or all appropriate fees and charges have been paid.

B. Coordination Between Permit and District Improvements. Prior to the District's completion of construction of all of the facility improvements, each permit issued is hereby expressly conditioned upon the following:

1. That the applicant assumes the risk of proceeding prior to completion of the District's facilities; and,

2. That every applicant for or person receiving a permit is to be informed in writing, by receipt of this Division, that he or she may not receive water pursuant to that permit until such time as the District has completed construction of its facilities, despite the fact the applicant for or person has received that permit and proceeded to construct and complete whatever project for which that permit was issued.

C. Will-Serve Commitments and Permits.

1. Assurance of water service issued by the District to any person, developer, and/or corporation, shall be subject to the same conditions stated in Items A. and B. above-ordained.

2. Any assurance of water service issued by the District in any form, in addition to the conditions as ordained heretofore, shall also be issued on the provision that the assurance is given on the statement of facts on the date of that issuance, and that such facts may change subsequent to the date of the assurance.

3. Any permit or assurance of water service shall be issued on a first-come, first-served basis. [Amended by Ord. 94-04]

4. [Deleted by Ord. 94-04]

5. Annual water charges shall commence, shall be billed by the District, and shall be payable by the permittee or successor no later than twelve months following the issuance of any permit(s) or upon actual connection to the water system whether through an existing water lateral or to a water main, whichever occurs first. Water service charges must be paid annually to keep permit valid. In the event of failure to pay applicable water service charges, the District shall be entitled to disconnection or discontinuance of service pursuant to Section 9.04. Reconnection of service shall be subject to the provisions of Section 9.12 of this ordinance. [Amended by Ord. 94-04]

6. [Deleted by Ord. 94-04]

7. A letter of assurance for water availability for a single family residential unimproved lot or subdivision shall, in addition to all other terms and conditions required by District rules, regulations, and ordinances, provide that said letter does not unconditionally guarantee any priority or reservation of capacity but that the developer or subsequent purchaser must acquire a water permit prior to construction of any improvements. Said letter shall further provide that such permits will be issued by the District solely upon a first-come, first-served basis and only to the extent there is then remaining available capacity in the physical facilities for conveyance and treatment. The letter shall also indicate that such permits will be issued only upon payment of all then applicable fees and charges and in accordance with and subject to all then applicable District rules, regulations, and ordinances.

D. Developments - Timing and Conditions for Issuance of Permit. Notwithstanding any other section of the District Code, no permit shall be issued for any development for which the County of Placer requires approval of a final subdivision map except upon the following conditions:

1. The application for issuance of a permit shall be accompanied by a certified copy of

documentation from the County of Placer indicating the County's approval of a tentative map for the proposed development; and,

2. Any permits so issued shall automatically become void upon the expiration or invalidation of the tentative map, unless a valid final map has been approved and recorded in place thereof. This provision shall be in addition to any other section of the District Code pertaining to the issuance, vesting or invalidation of permits.

E. Meter Costs. The cost for each and every water meter required to be installed on any proposed construction shall be approved by the District. The costs of supplying this equipment shall be borne by the applicant.

Section 5.05. Application for Permit

Any person requiring a Permit shall make written application to the District Manager.

The District Manager shall provide printed application forms for the permits provided for by this chapter, indicating thereon the information to be furnished by the applicant. The District Manager may require in addition to the information furnished by the printed form, any additional information from the applicant which will enable the District Manager to determine that the proposed work or use complies with the provisions of this chapter.

Section 5.06 Renewal of Existing Permit [Deleted by Ord. 94-04]

Section 5.07 No Refunds

The District shall grant no refunds on any monies paid pursuant to Division VI, which pertains to securing a permit or paying a connection fee.

Section 5.08 Water Mains in Public Ways

Before granting any permit for the construction, installation, repair or removal of any water main or appurtenances thereto, which will necessitate any excavation of fill, in, upon, or under any public street, highway or right-of-way under the jurisdiction of another public agency, the District Manager shall require the applicant to obtain the encroachment permit required by the public agency.

Section 5.09 Plan Approval Required

No Permit shall be issued until the District Manager has checked and approved the plans in accordance with other applicable provisions of this Chapter.

Section 5.10 Pumping Plants and Other Water Facilities

Before granting a permit for the construction of any water pumping plant, hydropneumatic system, or other water facility to be operated by the District, the District Manager shall check and approve the plans or required modification thereof as to their compliance with county, state, and other governmental laws or ordinances and shall require that the facilities be adequate in every respect for the use intended.

Section 5.11 Pre-Plan Check Policy

Prior to the issuance of a permit, the permittee shall submit two (2) sets of plans to the District for pre-plan check. The plans shall be checked for compliance with all District specifications, rules, and regulations. Prior to the District performing the pre-plan check, the applicant shall pay a fee to the District as specified in Division VI of this Code. Such pre-plan check is not an assurance of water service, nor a water permit for the particular project. The submittal of plans and/or documents for pre-plan check shall not constitute nor be considered an application for a water permit.

Section 5.12 Variance

Any consumer may obtain a variance from any provision of this Chapter pursuant to an application and public hearing before the Board of Directors of the District which application and variance is approved by a 4/5's vote of the members of the Board.

DIVISION VI FEES AND CHARGES

Section 6.01 Plan Checking Fees

Any person required by this chapter to have improvement plans checked by the District shall reimburse the District for the actual total costs to the District of providing such a service. Such costs shall be determined by the District Manager. The District will require a deposit to be applied to plan-checking costs as established from time to time by the Board for all commercial, industrial, public or multi-family proposed improvements.

Applications for plan checking are available at the District Office and are to be filled out by the owner or agent submitting the improvement plans. [Amended by Ord. 94-04]

Section 6.02 Distribution System Improvements Fees

Any person making a permanent or temporary improvement to the District's water distribution system shall reimburse the District for the total costs of field and structure inspection, procuring or preparing record plans, automobile mileage, and all overhead and indirect costs. The applicant shall also be responsible to pay the cost of all labor, equipment, and materials required for the actual improvements. Such costs shall be determined by the District Manager.

Section 6.03 Connection Charges

There is hereby levied and assessed against any premise, or portion thereof, which has been approved for connection to the District water system, a connection charge, as set by the Board from time to time. Connection charges include a connection fee and plant availability charge.

A. Time of Payment. All connection charges shall be paid to the District upon approval of an application and prior to any construction.

B. Water Service When Service Connection is Adequate. Where an existing and adequate service connection and/or meter are properly connected to the District distribution system, and which is or has been legally servicing the premises or for which a District connection permit has been issued, an applicant for water service from the District shall be entitled to such service after the applicant submits an appropriate application to the District, pays a service fee as set by the Board from time to time and complies with all other District regulations. However, if the applicant is delinquent in any bills to the District, the applicant shall pay such bills in full prior to receiving District water service.

C. Water Service When Service Connection is Inadequate. A service is deemed inadequate where the installation or enlargement of a main line, service connection or meter is necessary prior to the District's supplying service to an applicant and or a connection permit has not been issued by the District for service. If the District has sufficient water supply and system capacity to supply water, the District shall accept an application. The District shall furnish the water service subsequent to the applicant's construction, or payment for construction, of the necessary portions of the distribution system; the applicant's payment of all fees to the District; the applicant's compliance with all District rules and regulations; and the applicant's payment in full of all delinquent charges, if any, owed to the District.

D. Meter Connection Fees. When the District installs a service connection or meter, the District shall collect a service connection fee from the applicant prior to the installation of service connections and meters. The service connection fee shall be to cover the District's cost of labor, equipment and materials required to install the connection. The fee shall be set at a rate for a normal service connection cost of its type as determined by the District Manager. In the event that the actual cost is greater than the fee the difference shall be collected by the District prior to providing water service. [Amended by Ord. 94-04]

E. Plant Availability Charge. The District shall collect from all applicants for water service connections under Section C., above, a Plant Availability Charge (PAC) to ensure the continued availability of facilities through periodic system expansion and replacement. The Plant Availability Charge consists of (1) a supply and treatment component, (2) a transmission/distribution component, and (3) a storage component. [Amended by Ord. 96-01]

1. The Plant Availability Charge for a 5/8 x 3/4 inch residential meter shall be the basic unit in determining all other PAC's, including the PAC for multiple dwelling units and commercial/industrial uses. [Amended by Ord. 96-01]

2. The PAC for a residential service connection using a 5/8 x 3/4 inch meter (maximum daily demand for an equivalent dwelling unit (EDU) is 1,000 gallons per day or .69 gallons per minute) shall be: [Amended by Ord. 01-03, 05-04]

Supply and treatment component	\$6,907
Transmission/distribution pipeline component	\$1,150
Storage component	<u>\$ 357</u>
TOTAL	\$8,414

[Amended by Ord. 88-03, 89-03, 94-01, 96-01, 99-04, 01-03, 05-05; 2007-07]

3. PAC charges for enlargement of otherwise adequate service connections shall be the difference in the PAC charges for new and existing uses.

F. Plant Availability Charge for Meters Larger Than 5/8 x 3/4 Inch. The PAC for all services larger than the 5/8 x 3/4 inch metered EDU shall be proportionally based on the projected water use of the new connection and shall be calculated as follows:

$$\frac{\$8,414 \times \text{Projected Maximum Day Demand}}{1,000 \text{ gallons Maximum Day Demand}}$$

[Amended by Ord. 96-01, 99-04, 01-03, 05-05; 2007-07]

1. Residential Meter Size Requirements. Single family residential unit meter size based on the number of equivalent fixture units being served.

less than 30 EFUs	5/8 x 3/4 inch meter
31 EFUs to 54 EFUs	3/4 inch meter
55 EFUs to 127 EFUs	1 inch meter

[Amended by Ord. 96-01]

2. Projected Residential Maximum Day Demand. The projected maximum day demand for residential single family units requiring meters larger than 5/8 x 3/4 inch shall be as follows:

3/4 inch residential meter 2,000 gallons max day demand or 1.4 gpm

1 inch residential meter 2,625 gallons max day demand or 1.8 gpm

[Amended by Ord. 96-01, 05-05]

3. Residential PAC For 3/4 inch and 1 inch Meters:

$$\text{3/4 inch residential meter PAC fee} = \frac{\$8,414 \times 2,000}{1,000} = \$16,828$$

$$\text{1 inch residential meter PAC fee} = \frac{\$8,414 \times 2,626}{1,000} = \$22,087$$

[Amended by Ord. 96-01, 99-04, 01-03, 05-05; 2007-07]

4. PAC for Commercial Connections. This charge shall be determined by the General Manager on a case-by-case basis using the formula in paragraph (F.) above.

The applicant shall provide to the District the projected maximum day demand as certified by a qualified Engineer and subject to approval by the District Engineer, and meter size requested. The maximum day demand shall be at least equivalent to one equivalent dwelling unit (1,000 gpd). [Amended by Ord. 01-03, 05-05]

The maximum day use will be evaluated from time to time, at the sole discretion of the District. Said evaluation shall be complete within five years from the date of actual service. If the actual maximum day use within that period differs from the estimated maximum day use that was the basis for the original connection fee by more than 5%, then an additional charge will be assessed. [Amended by Ord. 96-01, 99-04]

5. Change in Commercial Use. At any time the District becomes aware of a change in the use of a commercial property the District may review and re-evaluate the PAC for that property. In the case where the new use creates a larger maximum day demand than had previously been projected, an additional charge shall be assessed. In the case where a smaller maximum day demand is created there shall be no reimbursement of PAC fees previously paid. [Added by Ord. 96-01]

6. Fire Service Detector Check. In addition to any other charge required by this Chapter, premises equipped with private fire protection systems connected to the District distribution system shall pay a fire service PAC equal to a 5/8 x 3/4 inch basic unit charge for every 500 gpm requirement of the fire protection system.

7. Where meters other than displacement type are used, the ratio shall be based on the AWWA equivalent rating for the meter used and PAC amount adjusted accordingly, as determined by the District Manager.

8. Where a service is to sustain continuous flow, the AWWA's recommendation for size adjustment may be imposed.

9. If, at any time after the date of providing service, the PAC is determined to be insufficient due to an undersized meter, the meter shall be replaced by a properly sized meter at the expense of the owner. The owner shall also be responsible for the difference in PAC of the new and previously undersized meter. The District shall not be held responsible for any rates or charges resulting from an oversized meter installation. [Added by Ord. 88-03]

G. PAC for Multiple Dwelling Units. Service connections for multiple dwelling units including, but not limited to, residential condominiums, townhouses and apartments, shall be assessed a PAC based upon the applicable percentage as provided below of a 5/8 x 3/4 inch connection, multiplied by the number of dwelling units in the size specified in the complex.

<u>Bedrooms Per Unit</u>	<u>Percentage</u>
1. For multiple dwelling units of 3 bedrooms or more	100
2. For multiple dwelling units of 2 bedrooms	90
3. For multiple dwelling units of 1 bedroom and studio	80

[Amended by Ord. 01-03]

Section 6.04 Billing for Water Service

The District shall begin billing for water service when the District first determines water service is available to the permittee or in accordance with Division V.

Section 6.05 Fee for Processing Water Line Easements

For each written contract required by Division V requiring the processing of water line easements, the District shall be reimbursed by the applicant for the total actual costs of processing the required easement(s). In the event it is necessary to rewrite the description, the District again shall be reimbursed by the applicant for the actual total processing cost. A deposit may be required as set forth on Schedule A attached hereto and incorporated herein by reference.

Section 6.06 Application Fee

A. When a person applies for a permit, the applicant shall pay to the District an application fee as determined by the General Manager (see Schedule A) per application made. The District shall not accept an application until it receives the application fee.

B. Any person who has paid an application fee pursuant to this section, and whose application expires or is canceled, withdrawn, voided, terminated, or abandoned, whether voluntarily or involuntarily, shall not be entitled to a refund of or credit from the application fee.

Section 6.07 Fees for Preparing or Checking Special Studies

Before proceeding with the preparation of any special study the District shall collect from the person making the request for the study a fee in the amount of the estimated cost of preparing the study, as determined by the District Manager. If, after the fee is paid, a change in the study is requested which will increase the cost of preparing the study, supplemental fees shall be collected in the amount of the estimated additional cost. Studies prepared by others and submitted for checking by the District shall be subject to the fee requirement stated above.

Section 6.08 Temporary Fire Hydrant or Water Service Fee

A person desiring connection to a fire hydrant or other system appurtenance shall first apply to the District for permission to connect and shall comply with Division V of this Chapter. Temporary connections for water use outside District boundaries, for a period in excess of 28 days or for a quantity of water in excess of one million gallons, shall require Board approval. The District Board will from time to time establish rates, charges and deposits for this service, which are set forth on Schedule A attached hereto and incorporated herein by reference. [Amended by Ord. 92-02]

Section 6.09 Collection of Fees Charged

All connection charges and other applicable fees shall be due prior to connection to and use of the water distribution system of the District.

Section 6.10 Rates and Charges for Water Service

A. Power of Board. For the purposes of providing funds for the maintenance, operation and capital improvements of the District, the Board may from time to time establish rates, charges, and other fees to be levied and assessed against consumers such as are necessary to carry out the provisions of this chapter.

B. For the purposes of this section only, the specified terms shall have the following definitions:

1. "Domestic users" shall mean all residential users, including single family units, residential condominiums, and multi-family dwellings.
2. "Commercial users" shall mean all business or other similar users, commercial condominiums, hotels, laundries, laundromats, service stations, public buildings, and unoccupied storage/warehouses, swimming pools (semi-public), spa/hot tubs (semi-public).
3. "Commercial unit" shall mean each office, store, or other separately owned or operated commercial space or structure, including any commercial user, which is not otherwise specifically identified.
4. "Laundry" shall mean a commercial laundering facility.
5. "Laundromat" shall mean a self-service laundry utilized by the public.
6. "Public building" shall mean any public service building, including a police station or fire station, or any other publicly owned building not otherwise specifically identified.

C. Each lot or premises which is connected to and each owner or customer receiving water from the District's distribution system shall pay an annual water service charge.

1. Residential Water Rate. There is hereby levied and assessed upon all residential users, a residential water rate consisting of a base rate and a uniform usage rate charge.

a. Base Rate Charge. The base rate charge is equal to the unit value assigned by the District to the premise, or class of premises, times the rate for a single family unit

as set forth in Schedule A, which is attached hereto and incorporated herein by reference.

b. Unit Value. The Manager shall assign to each premise within the District subject to a base rate charge a unit value based on the classification system established by the District for such purpose. The basis for such a value shall be that a "living Unit" as defined under the definition of "single family unit" is considered to have a unit value equal to 1.0. [Amended by Ordinance 88-03]

c. Water Consumption. Annual consumption is determined from the previous year's April to April or May to May meter reading period. [Amended by Ord. 05-05]

d. Uniform Usage Rates. The uniform usage rate charge is for consumption greater than the water consumption allowance. The measurement of said consumption shall be done by meter, installed on the premises and approved by the District. The rates for such consumption are set forth on Schedule A, attached hereto and incorporated herein by reference. [Amended by Ord. 89-03]

2. Commercial Water Rate. There is hereby levied and assessed upon all commercial users a commercial water rate, which rate is set forth on Schedule B, attached hereto and incorporated herein by reference. [Amended by Ord. 89-03]

3. Landscaping/Erosion Control Irrigation Rate. There is hereby levied and assessed upon all premises where a separate metered service connection distributes water to a landscaping/ erosion control irrigation system a charge for such use. Said use shall be considered a commercial use and the charge for such use shall be established from time to time by the Board. The charge is set forth on Schedule B, attached hereto and incorporated herein by reference. [Amended by Ord. 89-03]

4. Leak Rate Charge. [Adopted by Ord. 94-04, amended by Ord. 96-01, deleted by Ord. 05-05]

D. Whenever reasonably possible, the annual water service charge shall be determined as stated above. However, when a meter fails to register or a meter cannot be reasonably read, the Uniform Usage Rates shall be based on the average quantity of water supplied for comparable service during the preceding year. When there is no record of water supplied for comparable service, the total annual service charge shall be determined by the District Manager based on other comparable dwellings in the District. [Amended by Ord. 94-04]

- E.**
1. No water shall be furnished to any premises or persons except through a service connection in compliance with the District's rules and regulations.
 2. No water service or facility shall be furnished to any premises or persons free of charge.
 3. Whenever possible, all water supplied by the District shall be measured by means of water meters.
 4. The minimum meter size shall be 5/8 x 3/4 inch meter.

F. Temporary Water Services:

1. Fire Hydrant Use.

Except as provided by Government Code section 53069.9, District shall charge any person who seeks a fire hydrant use permit a basic permit fee for each fire hydrant or hydrants requested. Rates, charges, deposits and rules and regulations thereof may be established from time to time by the Board. Rates, charges and deposits are set forth in Schedule A, attached hereto and incorporated herein by reference. [Amended by Ord. 96-01]

2. Temporary Service.

The District shall charge any person who seeks a temporary water service a basic fee for each service requested. Rates, charges, deposits and rules and regulations thereof may be established from time to time by the Board. Rates, charges and deposits are set forth in Schedule A, attached hereto and incorporated herein by reference. [Amended by Ord. 96-01]

A portion of the deposit charged for Temporary Water Service may be retained by the District for fees, as set forth on Schedule A, or to repair or replace damaged hydrant or meter. Should inspection of both the hydrant and meter prove to be in sound working order without defects, the remainder of the deposit shall be applied to water usage or refunded to the applicant. This deposit may be waived if the applicant is a District customer with no current delinquencies. All fees and damage charges, if any, shall be paid by direct invoice. [Added by Ord. 96-01]

G. Water Service Outside District Boundaries. Water service supplied on a permanent basis for use by properties or customers located outside Water District boundaries shall be charged at a higher rate than water supplied to properties or customers for use within Water District boundaries. The water rate shall include:

1. The appropriate residential or commercial rate structure; and,
2. An additional fee equal to the proportion of property tax revenues applied to those properties within the District in calculating the annual rate structure; and,
3. Any additional charges for costs incurred by the District to maintain and supply water service to those properties and customers outside District boundaries.

Water use outside District boundaries shall require Board approval and, when appropriate, a written contract. [Adopted by Ord. 92-02]

Section 6.11 Billing Procedures and Meter Testing

A. Except as otherwise specified herein, the District shall directly bill each individual owner of each lot or premises connected to the District's distribution system. The annual water charge shall be payable by each owner and each customer. Each owner shall be liable to the District for payment of the annual water charge regardless of whether the owner is also the customer and regardless of whether service is provided through an individual meter or multi-customer meter.

B. Where owners of premises in a multi-unit structure served through a multi-customer meter are billed individually and belong to a homeowner's or similar association, the association shall provide to the District current and updated lists of the owners of each premises. The association shall

inform the District in timely fashion of any change in ownership in its members.

C. Notwithstanding Section A. above, the District may elect to send a composite bill to groups of customers served by individual or multi-customer meters when each of the following conditions is met:

1. The owners to be billed as a group own lots or premises in a multi-unit living structure;
2. The owners are served through one or more individual or multi-customer meters;
3. The owners have formally organized in writing into a homeowners or similar association.
4. The homeowners or similar association, through properly executed covenants, conditions, articles of incorporation or by-laws, has the power to act as the sole agent for the owners concerning water service charges in a manner which binds individual owners; and
5. The association enters into a written agreement with the District which provides, among other matters, that:
 - a. The association shall be responsible for and guarantee payment of all such charges within the time required by the District's rules and regulations, regardless of whether any single owner has paid the owner's share of such charges to the association;
 - b. The District shall bill to and the association shall pay all delinquent penalty and interest charges on the composite bills;
 - c. The District's bill or other notices to the association shall constitute a bill or other notice to each individual owner or customer, who shall agree that no other notice or bill to individual owners or customers shall be necessary for, or a prerequisite to, the District's exercise of its powers to terminate service, or place liens on each owner's property or exercise other legal remedies necessary to preserve the collection of and collect delinquent bills and charges; and
 - d. The bill shall consist of the sum of the total annual water charges for each owner or customer represented by the association, which shall be the sum of the service charge and/or excess charge for each customer, lot, or premises plus the total quantity rate charge for all service through the individual or multi-customer meter. The District shall not be responsible for any disparity among such customers for the amounts of water used or for the size of premises served. Any adjustment for such disparity in water use or in the quantity rate charge shall be the responsibility of the owners or customers served.

D. All applications for service shall constitute a written agreement to pay for all service rendered pursuant to the application and to be bound by all applicable District rules and regulations. An application shall be signed by the person who shall be responsible for the bills for water service provided through that meter, regardless of whether the meter is a single customer or multi-customer meter.

- E. 1. Whenever possible, meters shall be read on a bi-monthly basis. [Amended by Ord. 94-04]
2. At its discretion, the District may test a meter at any time. The District shall test a meter upon the request of a customer, provided the customer first deposits an amount estimated by the Manager to conduct the test with the District. If the District's test shows the meter is registering within 5% of accuracy the amount of water actually passing through the meter, the actual cost to conduct the test shall be retained by the District to cover its costs of testing. If the test shows that the meter is in error by at least 5%, the deposit shall be refunded and the meter replaced or repaired.
3. If, after testing a meter, the meter is found to register 5% more water than the amount of water actually passing through the meter, the District shall replace or repair the meter and refund to the customer the overcharge that may have been made during the preceding three months due to the meter's inaccuracy. If, after testing the meter, the meter is found to register less than 95% of the amount of water actually passing through the meter, the District shall repair or replace the meter and issue a supplemental bill to the customer. The amount of the supplemental bill shall be equal to the difference of the customer's average bill for comparable service and his/her actual bills for the preceding three months. If there is no record of comparable service, the rates set forth earlier in this Section shall be used to establish the amount of the supplemental bill.

Section 6.12—Manual Reading Charge [Deleted by Ord 2007-04]

Section 6.13 Collection of Water Use and Service Charges and Rates

All water use and service charges and rates may be billed on the same bill and collected together with rates and charges for any other District services. If all or any part of such bill is not paid for any service, the District may discontinue any or all of the services for which the bill is rendered.

A. Time of Payment. All annual water services charges are payable in advance on an annual basis or upon presentation of a billing by District to consumer. Payment plans may be prearranged and are payable at the office of the District. [Amended by Ord. 94-04]

B. Issuance of Bills. All bills for water service will be rendered by the District as provided in this chapter. Bills not paid sixty (60) days from billing date, except pursuant to payment plan, are delinquent.

C. Penalty and Administrative Charge. All delinquent bills will be subject to a penalty charge equal to 1% per month on all delinquent sums, plus a \$10.00 administrative service charge for each additional billing that is prepared by District. Any check which is returned to District on the basis of insufficient funds or "refer to maker" is subject to an additional \$25.00 service charge per check. [Amended by Ord. 94-04]

D. Notice of Delinquency, Administrative Charge, and Interest. On each bill for water service, notice will be given of the date upon which the billing shall become delinquent and of applicable administrative and interest charges as provided in this Chapter.

E. Pay First, Litigate Later. No appeal to the Board of Directors, nor legal or equitable process shall issue in any suit, action or proceeding before the District or in any court against the District or

any officer, employee, or director of the District to appeal, prevent or enjoin the collection of any rate or charge, with or without interest, unless the same shall have been paid in full first. (Added by Ord 2010-02)

F. Base Rate Billing. Bills for base rate water will be rendered and are payable yearly in advance. Less than annual bills for base rate service will be pro-rated to the end of the billing year in accordance with the applicable District schedule. Should the pro-rated period be less than one month, no pro-ration will be made and no bill shall be less than the monthly fixed charge. Base rate service may be billed, at the option of the District, at intervals other than yearly.

G. Over Allowance Excess Metered Rate Billing. All over allowance rate bills may be rendered semi-annually or at the option of the District, based on the District's determination by inspection of such meters of the quantity of water used by each consumer. [Amended by Ord. 94-04]

H. Discontinuance of Service. A consumer's water service may be involuntarily discontinued for non-payment of a bill for service rendered at any current or previous location by District, provided said bill has not been paid within sixty (60) days after the billing date and which is presented at the consumer's last known address. Discontinuation of service shall be in accordance with Division IX.

I. Joint and Several Liability. Two or more parties who join in one application for service or who jointly own property served by the District shall be jointly and severally liable for payment of bills and shall be billed by means of single periodic bills.

J. Payment Plan. If consumer is not in default to any other sum due District at the time of the rendering of the annual base rate billing pursuant to the above, and provided further that applicant submits a written request to District within thirty (30) days of the rendering of the bill for a payment plan, District will allow a payment plan for the base rate billing on the following terms:

Payment plan agreement periods will be determined by the District for payment of full service fees due within the fiscal year of billing. One percent (1%) interest per month on the unpaid balance and a \$10.00 service fee per billing shall be included with the payment plan. Requesting a payment plan constitutes an agreement by the customer to make all payments on or before the set due date. Additional service fees shall be charged for each reminder notice or rebilling. Failure to make payments as scheduled constitutes a delinquency of the account whereby all remaining service fees, penalties and interest become immediately due and payable. Water service shall be discontinued for any account over 60 days delinquent.

K. Payment Discounts. Yearly water service charges shown on Schedule A will be billed annually in advance on July 1 of each year. The following is the District policy concerning deposits:

1. Prepayment Discount - if the annual charge is paid in full and received in District office on or before July 31 of the current annual billing period, a discount as may be set by the Board from time to time thereof shall be allowed.
2. Current Payment, No Discount - if the annual charge is paid in full after July 31 and received in District office on or before August 31 of the current annual billing period, no discount shall be allowed. A current payment is not subject to interest or administrative charges.

L. Reduction in Unit Count. District recognizes that a consumer may voluntarily elect to reduce the unit count on a parcel of real property and District will allow such reduction provided consumer:

1. Submits to District in writing a request for reduction, to take effect upon inspection and verification; and,
2. Allows District to inspect the building or buildings, which are subject to the reduction, within thirty (30) days of the request.

If the unit reduction request is granted there will be no reimbursement of connection charges previously paid.

Any reduction of annual service fees as a result of a reduction in unit count will be applied as a credit to the next annual billing. [Amended by Ord. 94-04, Ord. 96-01]

M. Deferral of Service Fees on Structures that are Destroyed. When a residence or commercial structure is destroyed by fire, avalanche, earthquake, or other disaster, the owner of such destroyed structure is allowed a maximum 12-month courtesy period to rebuild without paying service fees. If the structure is rebuilt and approved for occupancy before the 12-month period has passed, service fees will immediately become payable. If the structure is not rebuilt within the 12-month period, minimum service fees must be paid in order to maintain a valid permit. [Adopted by Ord. 94-04]

Section 6.14 Meter Reading Charge

The Board from time to time will set a charge, as shown on Schedule A, for the District to provide an other than normally scheduled meter reading. Any person requesting such a service from the District shall be responsible for such charge. [Amended by Ord. 94-04]

Section 6.15 Deposit

A. Prior to receiving water service, an applicant for water service may be required to deposit with the District a sum equal to 25 percent of the annual rate for water service.

B. A deposit may be required for each lot or premises when any of the following conditions occur:

1. Whenever an owner of property receiving water service from the District transfers the property to a new owner, the new property owner shall pay a deposit to the District as identified in Section A. above.
2. Whenever there is a change in the owner receiving water service, the new owner shall pay a deposit to the District as identified in Section A. above.
3. Any District customer or property owner whose water service is disconnected due to non-payment of District charges shall pay a deposit, as specified in Section A. above, as a pre-requisite for resumption of water service.

C. Notwithstanding Section A, B, B.1, or B.2, an existing customer or property owner within the District who has not incurred any penalties or late charges on any water account with the District for

nine (9) months of the immediately preceding twelve (12) months, shall not be required to deposit with the District an amount as identified in Section A above.

D. The District may use the deposit to pay any District bill, and penalties and interest thereon, which are otherwise unpaid by the customer or property owner. The District may also use the deposit for its costs of collecting the unpaid water bill and penalties. If the District uses part or all of a customer's or property owner's deposit, that customer or property owner shall pay the District a sum adequate to maintain a deposit equal to 25 percent of the annual meter rate as a condition of continued water service.

E. The amount of deposit not used by the District shall be refunded to the customer or property owner when the customer or property owner voluntarily terminates water service with the District.

F. The amount of the deposit not used by the District may be credited to the account of the customer or property owner at such time as the District determines a deposit is no longer required, provided the District has held the deposit for a minimum of twelve (12) months.

DIVISION VII DESIGN STANDARDS

Section 7.01 General Statement

The California Waterworks Standard Requirements for Water Distribution Systems establish the minimum acceptable standards for design and construction of water distribution systems within the Squaw Valley Public Service District. See Code of Regulations Title 22 Division 4 Environmental Health Chapter 16. [Amended by Ord 99-01, amended Ord 2007-04]

Section 7.02 Plans by Registered Civil Engineer

Any plans submitted for approval under the provisions of this Chapter shall be prepared by or under the direction of and shall be signed by a Registered Civil Engineer of the State of California.

Section 7.03 Water Facility Plans

A. Before a Permit may be issued, plans for the proposed construction shall be submitted to and approved by the District. The plans submitted shall become the exclusive property of the District.

B. After the fees required by this Chapter have been paid, the District shall check the submitted plans for compliance with the requirements of this Chapter and other applicable laws and ordinances of the city, county, state and other governmental entities. See 7.01 General Statement, above.

C. The plans submitted shall be identical to plans for the same project submitted to the city, county or other governmental entity. The District shall be notified of any changes in the plans. Any changes in the plans must be checked and approved by the District prior to the issuance or modification of the water permit and shall be subject to Division VI concerning plan checking fees.

D. All structures, facilities, and other appurtenances shown on the plans shall comply with all applicable District standards including, but not limited to, design.

E. The plans submitted shall be adequate for the District to determine the proposed demand to be placed on the District's water system. The plans submitted shall be adequate for the District to calculate the applicable fees and charges.

Section 7.04 Water Line Easement Requirement

A person who wishes to have constructed a water line in an easement under the provisions of this Chapter shall present to the District a request for processing, sufficient information to enable the preparation of a written description, the appropriate fees, and plans showing the locations of all structures in the proximity of the proposed water line.

The location and dimensions of water line easements shall be sufficient to provide present and future water service to abutting areas and adequate access for maintenance, as determined by the District. No easement shall be less than ten feet in width.

Until the required easements have been properly executed and recorded, no plan shall be approved by the District for construction of water lines across private property and no water line

shall be accepted for public use or placed in use by any person.

Section 7.05 Bench Marks

A system of benchmarks on the U.S.C. & G.S. Sea Level Datum of 1929 and adequate to construct the work shall be shown on the drawings.

Section 7.06 Exception May Be Granted

If a literal compliance with any engineering requirements of this Chapter is impossible or impractical because of peculiar conditions in no way the fault of the person requesting an exception, and the purposes of this Chapter may be accomplished and public safety secured by an alternate construction or procedure, and the District Manager so finds that such alternate complies with sound engineering practice, he may grant an exception permitting such alternate construction or procedure.

Section 7.07 Water and Sewer Separation

Water service and sewer connections to District mains shall be separated at a minimum distance of ten (10) feet so that no potential cross connection exists. Water service and sewer line crossings on the applicant's property shall have a vertical separation of three (3) feet minimum between the bottom of the water line and the top of the sewer service lateral (water line on top). If the clearance is less than three (3) feet, the sewer shall be encased in a concrete envelope for a distance of five (5) feet on each side of the water line, measured at right angles from the outside of the water line. The concrete encasement shall provide a minimum of six (6) inches of cover around the periphery of the sewer line. If the vertical and horizontal separation cannot be met the alternative to this section is the acceptable practice of the State of California, Department of Public Health Services Standards. California Code of Regulations, Title 22, Division 4, Chapter 16, Article 4 §64572. (a) New water mains and new supply lines shall not be installed in the same trench as, and shall be at least 10 feet horizontally from and one foot vertically above, any parallel pipeline conveying untreated sewage. (b) New water mains and new supply lines shall be installed at least four (4) feet horizontally from, and one foot vertically above, any parallel pipeline conveying storm drainage. [Rev Ord 2008-06]

Section 7.08 Record Maps

Two sets of blue line prints and one set of reproducible drawings delineating a record of water lines and appurtenances shall be filed with the District prior to and as a condition of approval and acceptance of construction. No final inspection will be issued until record maps have been filed with the District.

Section 7.09 Standards of Design

A. General. These design standards are meant to coordinate with the requirements set by the National Bureau of Fire Underwriters and the State of California, and other regulatory agencies to permit the use of sound engineering judgment in the design of water distribution systems.

The District will require that a review for adequacy of design be made on water distribution systems to be constructed within the District. Sufficient design data and construction details shall be made available to the District to permit determination of completeness of design by the District.

B. Water Demands.

1. Average water demands on a population basis shall provide at least 100 gallons per day per capita. For residential areas at least 3.5 people shall be assumed to live in a house. For areas other than residential, such as business, commercial, or industrial areas, the average water demand may be derived based on expected populations or on an area average water use for that type of development.

2. Peak Demands. Peak water demands for normal service shall be at least equal to the following percentage of yearly average demands:

Average of peak month	150%
Average of peak day	200%
Average of peak hour	300%

3. Fire Flow Demands. Fire flow demands shall be calculated in accordance with the 1988 Uniform Fire Code or most recent revision thereof. These flows shall be assumed to occur simultaneously with the average flow of a peak day.

C. Fire Hydrants.

1. Fire hydrant spacing shall conform to the requirements set by the N.B.F.U. and shall be at least:

Maximum distance between fire hydrants along one street	500 feet
Maximum area covered by one fire hydrant	120,000 square feet

In the higher value areas of multi-family residential and commercial development the requirements shall be generally higher than those shown above.

2. All fire hydrant connections to the water main shall be of 6 inch diameter. Each hydrant connection shall include a gate valve of the same size as connection piping. Shut-off valves for fire hydrants shall be located in accordance with detail W-04. Hydrants shall be protected with two six inch (6") concrete filled standard steel guard posts set in concrete and extending 3 feet above the street or ground level. Posts and hydrants shall be painted as directed by the District. The location of hydrants, distance from edge of paving, and height above finished grade shall be approved by the District. It is the intent that all hydrants be accessible for snow removal, be located so that the hydrants are not buried during snow removal. [Amended by Ord. 99-01]

D. Line Pressure Requirements. Distribution system piping shall be designed to supply the required peak flow quantities and to maintain the following pressures at the water main in the street.

<u>Flow Condition</u>	<u>Minimum Pressure-psig</u>	<u>Maximum Pressure-psig</u>
No flow	--	150
Normal peak flows	35	125
Hourly peak flows	30	125
Fire demand flows	20	125

E. Distribution System Piping should be adequately looped to avoid dead end connections. In general, minimum pipe sizes should be:

Smallest pipe in gridiron (limited service only)	4-inch
Smallest dead end pipe	6-inch
Largest spacing of 6-inch grid	800-feet
Smallest pipes in high-value districts	8-inch

F. Gate Valves shall be provided as required to adequately regulate water flow. In the distribution system three valves should be provided at crosses and two at tee connections. Maximum spacing between valves should be 800 feet on long branches and 500 feet in any high-value districts.

G. Service Connections. The size of the water service connection shall be not less than one inch (1") nominal size for residential use. Actual size shall be determined by total water flow requirements and main pressures in order to maintain adequate service pressure. The water service connection shall be equipped with a ball curb stop valve at the property line with a meter box. A corporation stop shall be directly connected to the water main. Where property will be served by two or more water service connections from different street water mains, but from one source of supply, each service connection shall be equipped with a single check valve to prevent inter-street flow. [Amended by Ord. 99-01]

H. Pressure Reducing Stations. In regions where ground elevations differ greatly, pressure reducing valves shall be used to reduce excessively high pressures in water distribution mains. Normal operating water main pressures should be in the range of 35 to 60 psig with maximum limitations as given herein. Pressure zones have been established by the District and shall be followed in new system design.

1. Wherever feasible, pressures in any water main shall be maintained below maximum limitations. Where pressures in a transmission main must be greater than the above-mentioned limits, any taps into this main shall be followed by a pressure reducing valve installation designed to reduce the line pressure to a reasonable operating pressure. For individual service taps to a high pressure main, a pressure reducing valve shall be installed inside the serviced structure and shall be adequately protected from frost damage.

2. A pressure reducing station shall be used to reduce line pressures on any branch service main 4 inches or larger connecting to a main exceeding the pressure limitations. The pressure reducing station shall consist of at least two pressure reducing valves so sized to pass minimum and maximum flows. The pressure reduction valves and appurtenances shall be enclosed in a concrete vault with ready access and shall be protected against frost

damage.

I. Booster Pump Stations. Wherever, due to high ground elevations, adequate water service to a region cannot be obtained from existing water main pressures, a booster pump station and storage tank shall be installed. The system shall take suction from the low elevation service water main and discharge water at pressures sufficient to serve the high elevation ground. Installed pump capacity shall consist of at least two pumping units with sufficient capacity to pump the expected maximum peak flows with the largest pumping unit out of service. The station may be constructed above or below ground surface. [Amended by Ord. 94-04]

The pumping installation shall comply with recognized standards of design and construction. The entire installation shall be adequately housed and protected against possible damage by weather.

J. Water Pipe.

1. Pressures. All water pipes and fittings used in water distribution mains shall be designed for the pressure transmitted to them. The minimum class of pipe used shall be for 150 psi pressures.

2. Plastic Pipe - Polyvinyl Chloride.

a. All plastic water pipe shall be polyvinyl chloride (PVC). PVC C900 shall conform to ANSI/AWWA Standard C900. The Class shall be as specified by a Licensed Civil Engineer. Pipe shall conform to the requirements of National Sanitation Foundation Standard No. 14. [Amended by Ord. 99-01]

3. Ductile Iron Pipe. Ductile iron pipe shall conform to the following:

- a. AWWA C104: Cement Mortar Lining for Ductile-Iron Pipe and Fittings for Water.
- b. AWWA C111: Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings.
- c. AWWA C115: Flanged Ductile-iron Pipe with Threaded Flanges.
- d. AWWA C150: Thickness Design of Ductile-Iron Pipe.
- e. AWWA C151: Ductile-Iron Pipe, Centrifugally Cast, for Water or Other Liquids.

Unless otherwise noted or required, pipe wall thickness for push-on joint and mechanical joint pipe shall be Pressure Class 350 psi for pipe 12 inches and smaller, and Pressure Class 250 for larger pipe.

Unless otherwise noted, all pipe shall have a cement mortar lining with asphaltic seal coat. [Amended by Ord. 99-01]

4. Ductile Iron Fittings. Fittings and specials shall be ductile iron and shall conform to the following standards as applicable:

- a. AWWA C104: Cement-Mortar Lining for Ductile-Iron Pipe and Fittings for Water.

- b. AWWA C110: Ductile-Iron and Gray Iron Fittings, 3 inch through 48 inch for Water and Other Liquids.
- c. AWWA C111: Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings.
- d. AWWA C153: Ductile-Iron Compact Fittings, 3 inch through 24 inch and 54 inch through 64 inch for Water Service.

Unless otherwise noted or required, either standard or compact fittings may be used.

Unless otherwise noted, all fittings shall have a cement mortar lining with asphaltic seal coat. [Amended by Ord. 99-01]

5. Pressure Pipe Fittings shall conform to either AWWA/ANSI Standard C110/A21.10 or AWWA/ANSI Standard C153/A21.53.

K. Valves.

1. Main Line Gates Valves. All main line gate valves on distribution mains shall be in accordance with AWWA C500-86. Gate valves shall be epoxy coated resilient seat with mechanical joint for connection to PVC C-900 pipe. Construction shall be iron body, non-rising stem with 2" operating nut, turn counter-clockwise to open, as manufactured by Mueller Model A-2360, Waterous Model AFC-2500 or approved equal. [Amended by Ord. 99-01]

2. Valve Boxes and Vaults. Valve Boxes and Extensions shall be precast units, Christy G5, or approved equal. Lid shall be of cast iron construction marked "WATER" unless specified otherwise on the plans or elsewhere herein. Extensions to valve bonnet shall be provided.

All vaults shall be of reinforced concrete construction suitable for any vehicular loads transferred to it. All valve box caps shall be marked with the word "WATER," or a "W," and a suitable identification of the District. [Amended by Ord. 99-01]

3. Air and Vacuum Release Valves shall be installed in the water system at all points where it is indicated that air pockets may form. The design shall be such so as to insure the release of air automatically from the water main. These valves may also insure the entrance of air into the water main when the pressure inside the line is below atmospheric pressure. All valves shall be designed to withstand operating line pressure and for a minimum of 150 psi operating pressure. The inlet to each valve shall be provided with a ball curb stop valve to provide a positive closure between the main and the air and vacuum release valve. A recommended manufacturer would be APCO or approved equal. (See Detail W-07 & W-08 for installation.) [Amended by Ord. 99-01]

4. Check Valves shall set readily and completely to assure water tightness. The face of the closure element and valve seat shall be bronze, composition, or other non-corrodible material which will seat tightly under all prevailing conditions of field use.

Slow-closing check valves shall be used where excessive pressures or water hammer may occur, and the static operating pressure is within 20 percent of the pressure class or rating

of the pipe. All check valves, 4-inch and larger in size for use on distribution mains, shall be designed for a minimum of 175 psi cold water working pressure.

5. Flush outs (Blowoffs) shall be a minimum outlet size of 2 inches, shall be designed for a minimum operating pressure of 150 psi, and shall be installed at the terminus of all dead-end water mains or non-circulating flow water mains and at low points in the distribution system piping where sediment could collect. (See Detail W-05 for installation.)

6. Pressure Reduction Valves. Valves used in pressure reduction installations shall automatically reduce the higher upstream pressure to a selected downstream pressure. Pressure reduction shall not be affected by flow fluctuations. The valves may or may not incorporate a device for sustaining upstream pressure. The valves shall incorporate a pilot operated regulator capable of holding delivery pressures within two psig of the preset pressure. Pressure rating shall be equal or greater than the expected main pressure. Valve body and cover shall be of cast iron conforming to ASTM A-48 and main valve shall have a bronze trim conforming to ASTM B-61. Pilot control valve shall be of bronze conforming to ASTM B-61 with stainless steel trim conforming to AISI 303.

L. Fire Hydrants. All fire hydrants shall be of the "dry barrel" type, shall conform to AWWA C-502-85, where applicable, and shall be designed to transmit the pressures existing in the water main or a minimum working pressure of 150 psi. Hydrants shall have two 2-1/2 inch and one 4 1/2 inch National Hose Thread discharge ports and shall be Mueller Model A-423 Super Centurion 250 with a minimum 12-inch bury extension or Waterous Pacer #WB67-250 with 28" break-off top section approved equal. Installation shall be in accordance to Detail W-04. [Amended by Ord. 99-01; 2007-04]

M. Pipe Fittings. All pipe fittings shall comply with the requirements for Section J, "Water Pipe," in so far as these may be applicable.

1. Cast-Iron Bell and Spigot Fittings shall conform with either AWWA C100-55 or AWWA C110-52, or of the long radius type, in Class D, 173 psi water working pressure. Class D or Class 150 is the minimum class acceptable and all fittings shall be designed to safely transmit the actual water main working pressure. All cast-iron fittings installed below ground shall be lined and coated in accordance with Sections J.2.a. and J.2.b.

2. Cast-Iron Flanged Fittings. All cast-iron pipe flanges and flanged fittings shall conform to ASA B15-1. 1953. All cast-iron screwed fittings shall comply with ASA B16.5-1949. All cast-iron fittings installed below ground shall be lined and coated in accordance with Sections J.2.a. and J.2.b.

3. Cast-Iron Rubber Ring Fittings. All short-body cast-iron fittings 3-inch to 12-inch with bells to accommodate rubber rings shall conform to AWWA C110-52, except that the bells shall be modified for use with rubber ring type joints. All other cast-iron pressure fittings with bells to accommodate rubber rings shall conform to AWWA C100-55, except that the bells shall be modified for use with rubber ring type joint. The rubber ring used shall be designed for the particular type groove in the fittings. All cast-iron rubber ring fittings shall be provided with a reaction or thrust backing or a metal harness in accordance with Section P.6.

The rubber ring recess shall be free of all coating runs and sand pits. All cast-iron rubber ring

fittings shall be lined and coated to conform to Sections J.2.a. and J.2.b.

N. Concrete and Cement Grout.

1. **Cement.** All cement shall conform to ASTM C150-59.
2. **Sand.** All sand shall be fine granular material resulting from the natural disintegration of rock, and shall be free from injurious amounts of oil, mica, clay and other deleterious substances. Sand, when tested in accordance with Standard Method of Test, ASTM C117-49, shall not exceed three percent by weight of clay and silt.
3. **Rock and Gravel** for use in concrete shall be mechanically washed. It shall consist of gravel or a combination of gravel and sound crushed rock, having clean, hard, tough, durable and uncoated pieces, free from injurious amount of soft, friable, thin, elongated, or laminated pieces, alkali, oil, organic, or other deleterious substances.
4. **Water** used for cement mortar or grout shall be clean and free from oil or vegetable matter.
5. **Concrete** used for thrust blocks shall develop an ultimate compressive strength of 2,000 psi at 28 days, in accordance with ASTM C39-56T. All Ready-Mix Concrete shall comply with ASTM C94-58.
6. **Cement Mortar** used for lining pipe and fittings shall develop an ultimate compressive strength of 3,000 psi at 28 days, in accordance with ASTM C39-56T.

O. Water Service Connections.

1. **All threads** for underground service line fittings and materials for these fittings, corporation and meter stops shall comply with AWWA C800-05 [Amended by Ord. 2008-01]
2. **Connection Pipe.** All 1 inch water service connections may be Type "K" seamless copper water tubing, soft annealed or iron pipe size (IPS) Class 200 polyethylene (PE) pipe. Construction shall be in accordance with Detail W-09, W10 and W-11 as specified herein, and as directed by the Engineer. [Amended by Ord. 2008-01]

All 1-1/2 inch and larger water service connections may be Type "K" copper tubing or IPS Class 200 PE pipe. Construction shall be in accordance with Detail W-12 as specified herein, and as directed by the Engineer. [Amended by Ord. 2008-01]
3. **IPS PE Pipe.** IPS PE pipe shall comply with AWWA C901-02, ASTM D-2239, pressure Class 200. [Amended by Ord. 2008-01]
4. **Copper Pipe** shall be Type K seamless copper conforming to ASTM B42-58.
5. **Brass Pipe** for use in water service connections shall be seamless red brass conforming to ASTM B43-58.
6. ~~**Cast-Iron Pipe**~~ [Deleted by Ord. 2008-01]

6. Corporation Stops shall conform to AWWA C800-05 with male iron pipe (I.P.) thread inlet and outlet for copper or PE. All corporation stops shall have a pressure rating capable of transmitting the full pressure of the water in the distribution main. Corporation stops shall be Ford Ballcorp with Grip Joint connection, Mueller 300 ball type corporation valve with Mueller 110 compression connection, or approved equal. Female I.P. threads may also be used with the appropriate compression adapters. [Amended by Ord. 99-01; 2008-01]

7. Ball Valve Curb Stops. All ball valve curb stops shall conform to AWWA C800-05, with inlet to match water service pipe material. All ball valve curb stops shall be ball valve Mueller 300 Ball Curb Valve with Mueller 110 compression connection, Ford Ball Valve Curb Stops with Grip Joint connection, or approved equal. Female I.P. threads may also be used with the appropriate compression adapters. [Amended by Ord. 2008-01]

8. Gate Valves. All gate valves shall comply with AWWA C509-02 and shall be of the same construction as main line gate valves. Gate valves shall be Mueller 2360 Series, or approved equal. [Amended by Ord. 99-01; 2008-01]

9. Standard Service Saddles shall be ductile iron construction; epoxy coated with stainless steel band and bolts and conform to AWWA C800-05. Service saddle outlet thread shall be I.P.S. thread. Service saddles shall be Ford Style FC202, Smith Blair 317, or approved equal.

Connection of services to existing mains shall be done only after such services have been tested, disinfected and accepted. [Amended by Ord. 94-04, 99-01, 2008-01]

11. Repair Service Clamp. A repair service clamp shall be used only as directed by the District. [Amended by Ord. 99-01]

12. Copper Tubing Fittings shall comply with one of the following types: Bronze or brass, fittings with compression-type joints; or bronze or brass fittings with solder-type joints. All solder shall be "silver" or "hard" type, no "50-50" or "soft" type. (No use of solder containing lead is permitted.) [Amended by Ord. 99-01]

All compression type fittings used on copper tubing shall have all bronze or brass parts.

P. Water Pipe Installation.

1. Trench Excavations shall be in accordance with excavation and/or encroachment permit and details W-01, W-02 & W-03 specified herein.

2. Pipe Depth. All water mains shall be installed so that the top of the pipe is not less than the depth of maximum frost penetration or three and one-half (3-1/2) feet, whichever is greater, below the surface of the ground.

3. Material Handling. All handling of materials, laying, blocking and joining cast-iron pipe shall be in accordance with AWWA C600-54T. All other pipe materials shall be handled, laid, blocked, and joined in accordance with current manufacturer's recommendations.

4. Backfilling and restoration of surface material removed for trenching shall be, in general, in accordance with the excavation and/or encroachment permit. With no

excavation and/or encroachment permit the following specifications shall be followed:

a. Backfill material:

Class 1: Clean unwashed gravel or crushed rock, free of organic matter or loam, conforming to the following gradation:

<u>Sieve Size</u>	<u>Percentage Passing*</u>
1 inch	100
3/4 inch	90-100
3/8 inch	30-75
#4	10-50
#8	0-30
#30	0-10

Sand equivalent not less than 20.

*Percentage composition by weight as determined by laboratory sieve analysis.

Class 2: Select excavated native material, uniformly graded, free of organic matter, debris, clay and sod. Maximum particle size shall not exceed 3 inches in greatest dimension. Sand equivalent shall not be less than 15. Any material deemed unsuitable by the Engineer shall not be used.

Should sufficient suitable select material not be available from the construction excavation, additional select material as required shall be imported from approved borrow areas obtained by the Contractor.

Class 3: Native material from the excavation, free of rocks exceeding 3-1/2 inches in greatest dimension, organic matter, debris, clay and sod. Any clay-type material that may be encountered that is deemed unsuitable by the Engineer shall not be used.

Aggregate Base: Class 3, 3/4 inch maximum grading, as specified in Section 26 of the State Standard Specifications.

1. Installation:

The trench must be dewatered and maintained in a dry condition until the pipe has been installed and all joints completed.

Each length of pipe shall be laid on a firm bed and shall have true bearings for the entire length between bell holes. The manufacturer's recommendations for assembling pipe sections and completing joint protection will be enforced.

A copper tracer wire minimum 10 gauge shall be installed with all non-metallic water mains. Wire shall be properly connected for electrical continuity by silver soldering or other approved means. After installation, wire shall be "rung out" to test the continuity of the complete installation. All water mains shall have a minimum 3-inch wide metallic warning tape marked "Buried water line below" placed in the trench above the bedding material. [Amended by Ord. 99-01]

Every precaution shall be taken to prevent foreign material from entering the pipe. Whenever pipe laying is discontinued for short periods or at the end of the work day, the open ends of the pipe shall be closed with a watertight plug or bulkhead. The plug or bulkhead shall not be removed unless the trench is dry.

After installation, all ferrous metal items not protected by factory applied protective coatings, or where such coatings have been damaged, shall be adequately painted with a protective paint, Koppers "50," Scotch Clad 244, or approved equal.

Prior to testing, all pipe shall be properly backfilled to a minimum depth of 12 inches above the top of the pipe.

Cleaning, disinfection, testing and other related items shall be in accordance with specifications elsewhere herein.

The type and gradation of material and the relative compaction thereof shall be as specified on the excavation and/or encroachment permit or on detail W-01 or W-02 incorporated herein.

Bedding material shall be placed for the full width of the trench and raked to grade ahead of the pipe laying operation to the depth as shown on the plans. Bedding shall be excavated at bell or coupling to allow full length of pipe to bear on bedding.

The pipe zone shall be considered to extend 12 inches above the top of the pipe and for the full width of the trench. The Class 1 pipe zone material shall be placed simultaneously on both sides of the pipe in lifts not to exceed 6 inches, except the lift from the top of the pipe to the top of the pipe zone which shall be placed in a single lift. Each lift shall be compacted by approved methods to the density specified. Particular attention shall be paid to the underside of the pipe to provide a solid backing and to prevent lateral movement during the final backfilling procedure.
[Amended by Ord. 94-04]

Class 1 and Class 3 material placed above the pipe zone or adjacent to structures shall be placed in lifts not exceeding 8 inches in depth, except in areas where shown otherwise on the plans. Each lift shall be compacted by approved methods to the density specified. In trenches under or near structures where other specific material is specified, or where additional compaction is required, the backfill material above the pipe zone and the compaction requirements therefor shall conform to the specifications for the other specific material.

Prior to and during the compacting operations, the material in each lift shall have the moisture content necessary to provide the specified density. Insofar as possible, required moisture will be added to the material before placement. Moisture shall be added in such a manner so as to be uniformly distributed throughout the material.

Prior to and during the compacting operations, the material in each lift shall have the moisture content necessary to provide the specified density. Insofar as possible, required moisture will be added to the material before placement. Moisture shall be added in such a manner so as to be uniformly distributed throughout the material.

Compaction equipment shall be approved by the Engineer, of suitable type and adequate to obtain the densities specified. Compaction equipment shall be operated in strict accordance with the manufacturer's instructions and recommendations. Equipment shall be maintained in such condition that it will deliver the manufacturer's rated compactive effort.

If it can be satisfactorily demonstrated to the Engineer that an alternative method of placing the backfill meets all requirements, other than the layer thickness, the Engineer may permit the alternative method. Under no circumstances will the alternative be allowed unless the Engineer's approval is obtained in writing. If ponding and jetting is permitted, the work shall be performed in such a manner that water will not be impounded. Ponding and jetting methods shall be supplemented by the use of vibratory or other compaction equipment when necessary to obtain the required compaction.

Backfill material shall not be placed until the pipe, structure or appurtenance has been inspected by the Engineer and approved for backfilling. Any backfill that may be placed prior to such inspection and approval shall be removed as directed at no cost to the District.

c. Backfill Testing:

All materials testing will be done in conformance with the following test methods:

<u>Tests</u>	<u>Test Method No.</u>
Relative Compaction	ASTM D-1557 & 1556, Ca.216 & 231
Sand Equivalent	Calif. 217
Resistance (R-Value)	Calif. 301
Sieve Analysis	Calif. 202

5. Thrust Devices. A reaction or thrust backing shall be installed at all rubber-ring valves and at all rubber-ring fittings; at all caulked elbows and bends of more than 5 degrees in the horizontal plane, under a maximum static pressure of 200 psig. On slopes or at higher static pressure, thrust devices shall be installed in accordance with design data and plans submitted to the Engineer. (See Detail W-01 for standard thrust block sizes under optimum native conditions.)

A reaction or thrust device shall be provided on all caulked tees and crosses having one or more openings plugged and on all dead ends except welded steel pipe. The size and shape of the thrust device shall be designed to prevent movement of the water mains when subjected to the maximum hydrostatic test pressure. Thrust devices shall be cast-in-place concrete, metal harness, or other suitable devices. If the thrust exceeds the bearing value of the surrounding soil, the soil shall be pre-compacted before placing concrete. To ensure against lateral movement of the water main and/or valve or fittings where a change in direction of the water main is made by the use of such fitting, a metal harness of tie rods and pipe clamps may be used, except for pipe having rubber-ring type joints. Steel tie rods and pipe clamps shall be galvanized or otherwise rust-proofed or painted.

6. Water Main Testing. The section of water distribution mains shall be tested to a

minimum hydrostatic pressure of 50 psi greater than the design pressure or pipe class. Class 150 pipe shall be tested to a minimum of 200 psi. The duration of the test shall be a minimum one hour. All water mains with cement joints shall not be tested until 36 hours after the joint has been made.

Before applying the hydrostatic pressure, all entrapped air shall be thoroughly bled off. For all types of water mains there shall be no visible leakage at any joint or section of pipe and the allowable leakage for the total length of all water mains under test shall not exceed that amount specified in AWWA C600-54T.

All tests shall be made only in the presence of an authorized representative of the District and no joint, valve or fitting shall be completely backfilled until it has been inspected, tested, and approved.

When it is necessary to backfill the ditch as soon as the water main is laid, the authorized representative of the District may permit the backfilling to be completed prior to testing and disinfecting. If the pipe then tested exceeds the allowable leakage, the pipe must be uncovered, repaired and tested until it meets the allowable leakage.

After installation of all thrust blocks, the minimum elapsed time before testing shall be 36 hours for high-early-strength concrete and seven days for Class B concrete.

No pipe installation will be accepted if the leakage is greater than that determined by the formula:

$$15 \text{ gallons} \times \text{pipe diameter in inches} \times \text{length of pipe in miles} \times \text{period of test time in days.} \quad [\text{Example: } 15 \text{ gallons} \times 6" \times \frac{600 \text{ feet pipe}}{5280 \text{ ft/mile}} \times \frac{3 \text{ hours}}{24 \text{ hr/day}} = 1.27 \text{ gal.}]$$

[Amended by Ord. 94-04]

7. Water Main Disinfection. All new or repaired water mains, before being placed in service, shall be completely disinfected in accordance with AWWA C601 and any additional requirements, if required, by the District. Any other disinfecting procedure, if approved by the District, may be used. Water used for disinfecting shall be potable and contain a minimum residual chlorine content of 10 ppm after standing 24 hours in the pipe. The water mains shall be thoroughly drained and flushed before being placed in service. [Amended by Ord. 99-01]

All open ends of all water mains being installed shall be properly covered at the end of each day's work to prevent the entry of foreign matter, animals or debris.

Q. Storage Facilities.

1. Design. All steel tanks, standpipes, reservoirs, and elevated tanks for water storage shall comply with AWWA D100 or A.P.I. Standards provided that they meet foundation and seismic requirements. [Amended by Ord. 99-01]

2. Repairing. All inspection and repairing of steel tanks, standpipes, reservoirs and elevated tanks for water storage shall comply with AWWA D102. [Amended by Ord. 99-01]

- 3. Painting and Disinfecting.** All painting, repairing, and disinfecting of steel tanks, standpipes, reservoirs, and elevated tanks for water storage shall comply with AWWA D102. [Amended by Ord. 99-01]

R. Water Wells. Water wells shall be designed by a California Registered Civil Engineer and shall conform to California Well Standards Bulletin 74-81 and 74-90, and AWWA Standard A-100 and Detail W-14. A proposed water well must meet the approval of the California Department of Health Services and the Placer County Health Department. Water quality from a new water well must be in compliance with EPA Standards and meet all criteria set forth in Title 22 of the California Health Code. The location, design, and equipment for a new well shall be approved by the District Engineer and formally accepted by the District Manager and Board of Directors. [Added by Ord. 99-01; revised by Ord 2007-04]

S. Electric Motors shall comply with ASA C50, complete series.

T. New Material. The provisions of these Standards are not intended to prevent the use of any material or method of construction not specifically prescribed herein if such alternate is submitted to and approved by the District.

The District may approve such alternate if such alternate is found to be for the purpose intended and at least the equivalent of that prescribed in these Standards in quality, strength, sanitation, durability, safety and effectiveness.

The District may require the person seeking approval of such alternate to submit a description or sample of such alternate material, together with copies of technical reports, design data, reports of material and chemical analysis, or details of laboratory tests which have been performed, plus copies of all tests and approvals, if any, under AWWA, ASTM, ASA or other recognized standards.

U. Tests.

- 1. All Tests** to determine compliance with any portions of these Standards shall be made within the continental United States.

If requested by the District, the results shall be certified by an established reputable materials testing firm and a copy forwarded to the District.

Any materials delivered to the job site and suspected of damage due to shipping and handling, if requested by the District, shall be tested again and the test results certified by an approved materials testing firm.

- 2. Reclaimed Materials.** Any material that has been used or reclaimed may be reused only after it has been properly reconditioned so as to comply with the specifications for new material and has been retested satisfactorily in accordance with any such requirements of the specifications.

DIVISION VIII INSPECTION

Section 8.01 Inspection by District Manager or Designee

All work done under the provision of this chapter shall be subject to inspection by and shall meet the approval of the District Manager or designee, provided, however, that approval by the District Manager shall not relieve the permittee or any other person from complying with any other applicable ordinance.

After the fee required has been paid and the permit issued, the District Manager or designee shall inspect the construction for compliance with the requirements of this chapter.

Section 8.02 Notification When Ready For Inspection

The permittee shall notify the District at least twenty-four hours prior to the time any inspection is to be made.

Section 8.03 Work Shall be Uncovered and Convenient

At the time of the inspection the permittee shall have all work uncovered and convenient, and shall give the District Manager or designee every facility to make a thorough inspection.

Section 8.04 Correction of Defective Work

If the construction does not conform to the provisions of this chapter, or if the permittee fails to prosecute the work with such diligence as to insure its completion within the time specified, the District Manager will notify the permittee in writing to comply. If the permittee fails to comply within five (5) days after the written notice, the permit shall be suspended or revoked in accordance with the procedures set forth hereinafter.

Section 8.05 Materials and Construction to Meet Standard Specifications

All material used in any work done under provisions of this chapter shall be new, first-class material and shall conform to, and the manner of construction shall meet all the requirements prescribed in Division VII. All such work shall be approved by the District Manager or designee before a certificate of final inspection will be issued.

Section 8.06 Facilities Not to be Used Prior to Final Inspection

No water or other facility constructed under the provisions of this chapter shall be placed in use until the work has been approved by the District Manager and a certificate of final inspection has been issued. Exceptions to this requirement may be made only when the work is substantially complete and has been inspected, and if the District Manager determines that the best interests of the public will be served by permitting such use prior to completion of the work.

DIVISION IX ENFORCEMENT

Section 9.01 Authority of District

A. The rates and charges levied pursuant to this chapter shall be collected by the Board, who shall make and enforce such regulations as may be necessary for safe, economical and efficient management and protection of the District distribution system, and such regulation, collection, rebating and refunding of such charges or rentals.

B. In the event of a violation of any of the laws of the State of California, Placer County, or the ordinances or rules and regulations of the District, the District shall notify the person or persons causing, allowing, or committing such violation, in writing, specifying the violation and upon the failure of such person or persons to cease or prevent further violation within five (5) days after the receipt of such notice, the District shall have authority to disconnect the property served from the District system.

C. Duty of Manager. The Manager is hereby charged with the duty to enforce all of the provisions of this Division and Chapter.

Section 9.02 Public Nuisance

Continued habitation of any building or continued operation of any industrial or commercial facility in violation of the provisions of this or any other ordinance, rule or regulation of the District is hereby declared to be a public nuisance. The District may cause proceedings to be brought for the abatement of the occupancy of the building or industrial or commercial facility during the period of such violation.

Section 9.03 Public Nuisance, Abatement

During any period of disconnection, habitation of such premises by human beings shall constitute a public nuisance, whereupon the District shall cause proceedings to be brought for the abatement of the occupancy of said premises by human beings during the period of such disconnection. In such event, and as a condition of reconnection, there is to be paid to the District a reasonable attorney's fee and cost of suit arising in said action.

Section 9.04 Discontinuance of Service

Service may be discontinued for any one of the following reasons:

A. Delinquency in the payment of any bill, except that residential service shall not be discontinued for non-payment in any of the following situations:

1. During the pendency of any investigation by the District of a customer dispute or complaint.
2. When a customer has been granted an extension of the period for payment of a bill.
3. On the certification of a licensed physician and surgeon that to do so will be life threatening to the customer and the customer is financially unable to pay for service within the normal payment period and is willing to enter into an amortization agreement

with the District and requests permission to amortize, over a period not to exceed 12 months, the unpaid balance of any bill asserted to be beyond the means of the customer to pay within the normal payment period.

- B. The unauthorized taking of water or the taking of water in excess of the amount paid for.
- C. Failure of the customer to maintain his facilities in a suitable condition to prevent waste of water.
- D. The existence of any unprotected cross connections on the customer's premises or the lack of adequate backflow protection at the service connection.
- E. Any violation by the customer of any rules and regulations of the District governing water service.
- F. Any fixture, apparatus, appliance or equipment using water is found by the Manager to be dangerous or unsafe.
- G. The use of water service on such premise is found by the Manager to be detrimental or injurious to the water service furnished by the District to other consumers.
- H. The Manager finds that negligent or wasteful use of water exists on any premise which affects the District's water or sewage service.
- I. A consumer has ignored to correct any notice of sewer inflow and infiltration given pursuant to Chapter 2 within five days following mailing of such notice to the last known address of the consumer.
- J. A consumer is aiding and abetting another consumer in a violation of this Code or any other law.

In the event of any violation of this Ordinance which results in a public hazard or menace, or in any other appropriate circumstance, the Manager may enter upon the premise without notice and do such things and expend such sums as may be necessary for the safety of the public or District water system.

Section 9.05 Notice Prior to a Discontinuance of Residential Service for Nonpayment

A. At least ten (10) days before any proposed discontinuance of residential service for nonpayment of a delinquent account the District shall mail a notice, postage prepaid to the customer to whom the service is billed, of the proposed discontinuance. Such notice shall be given not earlier than nineteen (19) days from the date of mailing the District's bill for such service and the ten (10) day period shall not commence until five (5) days after the mailing of the notice. In addition to the ten (10) day notice provided for in the preceding sentence, the District shall make a reasonable, good faith effort to contact an adult person residing at the premises of the customer by telephone or in person at least forty-eight (48) hours prior to any discontinuance of such service.

B. Every notice of discontinuance of service required by this Section shall include all of the following information:

1. The name and address of the customer whose account is delinquent.
2. The amount of delinquency.

3. The date by which payment or arrangements for payment is required in order to avoid discontinuance.
4. The procedure by which the customer may initiate a complaint or request an investigation concerning service or charges, unless the District's bill for services contains a description of that procedure.
5. The procedure by which the customer may request amortization of the unpaid charges.
6. The procedure for the customer to obtain information on the availability of financial assistance including private, local, state or federal sources, if applicable.
7. The telephone number and name of a representative of the District who can provide additional information or institute arrangements for payment.

Section 9.06 Notice Prior to a Discontinuance Other Than a Discontinuance of Residential Service for Nonpayment

At least ten (10) days before discontinuing service, other than the discontinuance of residential service for nonpayment of a delinquent account, which is provided for in Section 9.05, the District shall provide the customer with a written notice which shall specify the reason for the proposed discontinuance and inform the customer of the procedure for and the availability of the opportunity to discuss the reason for the proposed discontinuance with the General Manager, or designee, who is empowered to review disputes and rectify errors and settle controversies pertaining to such proposed discontinuance of service. The name and phone number of the General Manager, or designee, shall be included in any such notice of proposed discontinuance given to a customer.

Section 9.07 Notice of Discontinuance of Residential Service to Customers on Master Meters

Whenever the District furnishes residential service to a master meter or furnishes individually metered service to a multi-unit residential structure, or other use where the owner, manager, or employer is listed by the District as the customer of record, the District shall make every good faith effort to inform the actual users of the service, by means of a notice, when the account is in arrears, that service will be discontinued within ten (10) days. Such notice shall also inform the actual users that they have the right to become District customers without being required to pay the amount due under the delinquent account.

Nothing in this section shall require the District to make service available to actual users unless each actual user agrees to the District's terms and conditions of service and meets the requirements of the District's rules and regulations. If one or more actual users are willing and able to assume responsibility for the entire account to the satisfaction of the District, or if there is a physical means, legally available to the District, of selectively terminating service to those actual users who have not met the requirements of the District's rules and regulations, the District shall make service available to the actual users who have met those requirements.

Section 9.08 Discontinuance of Service on Weekends, Holidays or After Hours

No water service shall be discontinued to any customer or user because of any delinquency in payment on any Saturday, Sunday, legal holiday, or at any time during which the business offices of

the District are not open to the public.

Section 9.09 Amortization of Delinquent Bill for Residential Service

Every complaint or request for investigation by a residential customer that is made within five (5) days of receiving the disputed bill, and every request by a residential customer that is made within thirteen (13) days of the mailing of the notice required by this Chapter for an extension of the payment period of a bill asserted to be beyond the means of the customer to pay in full during the normal period for payment shall be reviewed by the General Manager, or designee. The review shall include consideration of whether the customer shall be permitted to amortize the unpaid balance of the account over a reasonable period of time as determined by the District. Any customer whose complaint or request for an investigation has resulted in an adverse determination by the General Manager, or designee, may appeal the determination to the Board of Directors.

Section 9.10 Authority to Settle Controversies Relating to Discontinuance and to Permit Amortization of Delinquent Bills

The General Manager, or designee, is hereby authorized to investigate complaints and review disputes pertaining to any matters for which service may be discontinued and to rectify errors and settle controversies pertaining to such matters. The General Manager, or designee, is also authorized upon a proper showing by a residential customer of the customer's inability to pay a delinquent bill during the normal period, to grant permission to amortize the unpaid balance over a reasonable period of time, as determined by the District.

At his or her discretion, the General Manager may bring such controversies to the Board for settlement by the Board prior to the discontinuance of any such service.

Section 9.11 Notice Required Prior to Discontinuance of Service for Failure to Comply with Amortization Agreement

If an amortization agreement is authorized, no discontinuance of service shall be affected for any residential customer complying with such agreement, if the customer also keeps the account current as charges accrue in each subsequent billing period. If a residential customer fails to comply with an amortization agreement, the District shall not continue service without giving notice to the customer at least forty-eight (48) hours prior to continuance of the conditions the customer is required to meet to avoid discontinuance, but the notice does not entitle the customer to further investigation by the District.

Section 9.12 Disconnection/Reconnection

When service has been disconnected as provided in this ordinance the customer shall pay the unpaid account balance in full plus a disconnect/reconnect charge, as set forth in Schedule A, attached hereto and incorporated herein by reference, before any disconnected service will be reconnected. Additionally, a deposit may be required per this Chapter.

Section 9.13 Means of Enforcement Only

The District hereby declares that the foregoing procedures are established as a means of enforcement of the terms and conditions of its ordinance, rules and regulations and not as a penalty.

Section 9.14 Lien

Each rate, charge, penalty, or rental levied by or pursuant to this chapter on property is hereby made a lien upon said property as hereinafter provided.

A. Liens. Delinquent charges, interest and penalties thereon when recorded as provided in the Revenue Bond Law of 1941 (Government Code section 54300, et seq.) shall constitute a lien upon the real property served (except that no such lien shall be created against any publicly owned property) and such lien shall continue until and unless all charges and penalties thereon are fully paid or the property is sold therefor.

B. In the event that any customer or owner fails to make such payment as provided above, the customer, owner, and subject property shall be deemed to be in default and in such cases, the District may declare the balance or remaining balances due and payable. In the event the District is required to bring action to collect any sum in default under District Ordinance terms, the customer or property owner shall pay, as an additional penalty, any and all Attorney's fees and/or Court and legal costs incurred by the District to bring such action. The District shall not be limited to any one remedy in the event of default, but may avail itself of any remedy or legal procedure available to it in such event.

C. The District shall include a statement on its bill to each customer or property owner, or shall provide such statement to each property owner by any other means, that any charges remaining delinquent for a period of sixty (60) days may become a lien against the lot or parcel of land against which the charges were imposed.

D. All rates, charges, penalties, and interest which remain delinquent as of June 30 of each year may be collected in the same manner as the general taxes for the District for the forthcoming fiscal year provided that the District shall have given prior notice to the customer-property owner of the lots or parcels affected as follows:

1. By the last Thursday in May of each year the District staff will prepare a written report for the Board of Directors containing a description of each parcel of real property receiving a specific service and the amount of delinquent charges, penalties, and interest due against that parcel on June 30. The report of delinquent water charges may be combined with a report for any other delinquent charges.
2. The staff shall publish a notice of the filing of the report and of the time and place of hearing by the Board of Directors on the report. Such publications shall be for not less than once a week for two weeks prior to the date set for hearing. The same notice shall be mailed to the owner of each parcel listed on the report as that owner appears on the last equalized assessment roll.
3. At the time of the hearing stated in the notice, the Board of Directors shall hear and consider all objections or protests to the delinquency report. Thereafter, the Board may adopt, revise, change, reduce or modify any charge, overrule any or all objections, and make its determination upon the propriety of each charge and delinquency described in the report. The Board's determination shall be final. Thereafter, the Board may adopt a resolution approving the delinquency charge report, as modified if appropriate, and record such report with the Placer County Recorder, and request the County Auditor to include the

amount of delinquencies on the bills for taxes levied against the respective lots and parcels. The resolution and report will be transmitted to the County Auditor not later than July 1 of each year.

E. Action, Attorneys' Fees, Administrative Fees. The District may bring an action in any court of competent jurisdiction for the collection of delinquent charges and interest thereon against the person or persons who occupied or, who owned the property when the service was rendered or against any person guaranteeing payment of bills, or against all said persons. Cost of suit and reasonable attorneys' fees shall be awarded District, pursuant with section 54356 of the California Government Code.

If District commences legal action to recover delinquent charges and interest thereon, District shall recover, as an element of damages in said action a sum as determined by the Manager, which sum represents the administrative expense to the District, not including attorneys' fees, as being directly necessitated by the legal action.

F. Availability Charge Addition To Tax. In case any water availability charge is delinquent, the District may add such charge plus any allowed administrative charge or interest to the tax bill of the premise receiving such service subject to the provisions of section 31032 et seq. of the Water Code.

Section 9.15 Cumulative Remedies

All remedies set forth herein for the collection and enforcement of charges, rates and penalties are cumulative and may be pursued alternatively or consecutively.

Section 9.16 Appeals

A. By Motion of Board. The Board may, at any time, upon its own motion, exercise its power to overrule any determination made by the Manager under the terms of this chapter and these regulations.

B. By Other Persons. Any person who shall have a right to appeal as provided in this chapter or who has other grounds for appeal of any determination of the Manager must appeal such determination or other action in writing within thirty (30) days thereof, and must set forth the determination or other action to which such person objects and the grounds for such objection.

C. Report by Manager. In the event of any such appeal, the Manager shall transmit to the Board a report upon the matter appealed within thirty (30) days thereof.

D. Hearing. The Board shall hear any appeal within a reasonable time after receiving notice thereof.

E. Notice. The Board shall cause notice of any such hearing to be given at least fifteen (15) days prior to the hearing and shall include a statement that the appeal will be heard by the Board, the location, date and time of the hearing to the appealing party by personal delivery or by mailing such notice to his or her last known address.

F. Witnesses. The Board may, at its discretion, subpoena witnesses to attend such hearing.

G. Effect of Determination. If the Board determines that the appealing party must pay any charge or do any other act, such party shall be required to do so forthwith, together with any administrative fee or interest, as provided in this chapter.

DIVISION X CONSTRUCTION OF WATER LINES

Section 10.01 Definitions

For the purposes of this Division, the specified terms are defined as follows:

- A. "Developer" means any person, excluding those persons contracting with the District, who installs or causes to be installed one or more structures which will be connected to the District water distribution system.
- B. "Main line extension" is any extension of the main line between the existing District main line and the lots which are being improved or which are owned by the developer. A main line extension does not include a main line constructed within the tract of land which is being improved or which is owned by the developer.

Section 10.02 Financial Responsibility for Construction of Water Line

A developer who installs or causes to be installed any part of the District distribution system is financially responsible for the installation, and all incidents thereof, of the distribution system, including the water main and the service connection.

Section 10.03 Construction of Distribution System

- A. When a developer proposes to construct a main line and/or one or more service connections, the developer may perform such construction, subject to the requirements of the District.
- B. When the developer performs the tap between a service connection constructed by the developer and a main line constructed by the developer, no service connection fee shall be charged. Other connection fees, including plant availability charges, and fixture unit fees, shall be charged as set forth in Division VI.
- C. Notwithstanding any other provisions of this Chapter, the installation of meters, and all equipment associated with meters, shall be performed by District personnel, as set forth in Division III, and shall be charged to the developer, as set forth in Division VI.
- D. Except as specified in Section 10.03 A., construction of metered service connections, taps, main line and all other parts of the District's distribution system (excluding private water lines) shall be performed solely by District personnel. The time at which the District shall perform such construction, shall be scheduled with the District at the time the permit is issued.

Any time-and-material construction costs not covered by the service connection fee in Division VI, or the Drop In or Metered Service Charges in Division VI shall be charged to the developer in addition to any other fees required by this Chapter. The District may require the payment of one or more deposits towards the District's construction costs, prior to and during construction.

Section 10.04 Performance Guarantee

A developer shall post a surety bond, cash or other security satisfactory to the District to guarantee the faithful performance of any agreement for or the construction of water mains or distribution systems. The surety bond, cash or security shall be in the sum of 100 percent (100%)

of the estimated cost of the work, or in such other sum as may be fixed by the Board. The surety bond, cash or security shall, in addition to guaranteeing the faithful performance of the work, guarantee the maintenance of the distribution system for a period of one year following the completion and acceptance of the work by the District.

Section 10.05 Liability

The District and its officers, agents and employees shall not be liable for any injury or death to any person or damage to any property arising from the performance of any work by a developer. The developer shall indemnify, protect, defend, and shall hold harmless the District and its officers, agents and employees from any liability imposed by law upon the District or its officers, agents or employees, including all costs, expenses, attorneys' fees, and other fees, and interest incurred in defending the same or in seeking to enforce this provision. The developer shall be solely liable for any defects in the performance of the developer's work or any failure which may arise therefrom.

Section 10.06 Formation of Improvement District

A. When a developer installs or causes to be installed any part of the District water distribution system, the developer may request in writing that the District form an improvement district, pursuant to the California County Water District Law or other law, to include that real property which is served and benefited (or to be served and benefited) by the water distribution system caused to be installed, by the developer.

B. The District may agree to form an improvement district only after receiving the developer's written request for formation thereof and the developer's written agreement to pay all sums reasonably incurred by the District in the formation and operation of the improvement district.

C. If the District agrees to form an improvement district, the developer shall pay the District an initial fee, to be determined by the District, towards the District's cost of forming the improvement district. The District shall not take any steps towards the formation of the improvement district until it receives this initial fee.

D. The developer may withdraw the request for the formation of an improvement district if no prejudice will result therefrom to the District or its customers.

E. The developer shall be liable for all costs reasonably incurred by the District in the formation and operation of the improvement district whether or not the improvement district is formed.

Section 10.07 Size of New Main Line

The District may require the developer to install a main line larger than that necessary to adequately serve the developer's proposed construction. When the District requires the installation of a larger main line, the District shall either (a) pay the difference in cost, as determined by the District, between the size necessary to serve the developer's construction and the larger main line or (b) perform the installation itself subsequent to the receipt from the developer of a sum sufficient to cover the cost of installation, and other necessary expenses, of the main line required by the developer.

Section 10.08 District's Option to Construct Facilities

Whenever a developer applies for an assurance of water service or a water permit which involves the extension of the District's main line, the District, at its sole option may install such facilities subsequent to the developer's advancement to the District of funds sufficient to cover the costs of construction and other necessary expenses.

Upon completion of construction, the District shall refund any funds advanced in excess of the actual cost to be borne by the developer.

Section 10.09 Application for Main Line Extension Agreement

Whenever a developer applies for a permit or an assurance of water service which involves a main line extension, the developer may also apply to the District for a main line extension agreement, which provides for partial reimbursement to the developer of the developer's costs of constructing the main line extension. The District may accept the application and approve a main line extension agreement.

Section 10.10 Main Line Extension Agreement

Whenever a developer enters into a main line extension agreement with the District, the agreement may provide for a refund to the developer as follows:

A. Within the limits specified herein, when the main line extension has been installed at the developer's sole expense, the developer shall be entitled to a sum up to 25% of the plant availability charge component of the connection fees received by the District for hook-ups into the main line extension paid for by the developer.

B. Any amounts collected by the District for plant availability charge component of the connection fees, subject to Section 10.10 A, shall be refunded to the developer within ninety days following the date of collection; provided that no refund shall be made for collections made after five (5) years from the date of completion of the extension.

C. The total amount to be refunded to the developer shall not exceed 25% of the net amount paid by the developer to the District for the extension, if installed by the District, or 25% of the estimated cost, as determined by the District, for such extension if installed by the developer.

Section 10.11 Dedication Requirements

An offer of dedication of that portion of the distribution system, including the service connection and all appurtenances, which is located on the District's side of the service connection and not located on the owner's or the customer's private property shall be included in any application for the construction of the water distribution system. The person who causes the plans for the construction of the water distribution system to be prepared shall present an "offer of dedication" signed and acknowledged, on forms provided by the District, with any plans for the construction which were presented to the District. The District shall not accept for dedication any portion of the water distribution system that is not constructed in conformity with the requirements of the District. When the construction of the sewer has been completed and accepted by the District, the water distribution system offered for dedication shall become part of the District's distribution system.

Notice to Developer: Prevailing Wages may have to be paid to employees and subcontractors on construction of facilities which are later to be dedicated to the District.

Section 10.12 Initiation of Water Service

To initiate water service, a permittee shall deliver to the District a written request for the initiation of water service at least two (2) working days prior to the date water service is to be made available.

DIVISION XI CROSS-CONNECTION CONTROL PROGRAM TO PROTECT THE PUBLIC WATER SUPPLY

Section 11.01 Purpose

The purpose of this chapter is:

- A. To protect the public water supply against actual or potential cross connection by isolating within the premises contamination that may occur because of some undiscovered or unauthorized cross-connection on the premises.
- B. To eliminate existing connections between drinking water systems and other sources of water which are not approved as safe and potable for human consumption.
- C. To eliminate cross-connections between drinking water systems and sources of contamination.
- D. To prevent the making of cross-connections in the future.

These regulations are adopted pursuant to the State of California Administrative Code, Title 17 Public Health, entitled "Regulations Relating to Cross-Connections."

It is unlawful for any person, firm, or corporation at any time to make or maintain or cause to be made or maintained, temporarily or permanently, for any period of time whatsoever, any cross-connection between plumbing pipes or water fixtures being served with water by the District and any other source of water supply or to maintain any sanitary fixture or other appurtenances or fixtures which by reason of their construction may cause or allow backflow of water or other substances into the water supply system of the District and/or the service of water pipes or fixtures of any consumer of the District.

Section 11.02 Definitions

- A. Air-Gap Separation.** The term "air-gap separation" means a physical break between a supply pipe and a receiving vessel. The air-gap shall be at least double the diameter of the supply pipe measured vertically above the top rim of the vessel, in no case less than one inch.
- B. Approved Backflow Prevention Device.** The term "approved backflow prevention device" shall mean devices which have passed laboratory and field evaluation tests performed by a recognized testing organization which has demonstrated their competency to perform such tests to the California Department of Health Services.
- C. Approved Water Supply.** The term "approved water supply" means any water supply whose potability is regulated by a State or local health agency.
- D. Auxiliary Supply.** The term "auxiliary supply" means any water supply on or available to the premises other than the approved water supply.
- E. AWWA Standard.** The term "AWWA Standard" means an official standard developed and approved by the American Water Works Association (AWWA).

F. Backflow. The term "backflow" shall mean a flow condition caused by a differential in pressure that causes the flow of water or other liquids, gases, mixtures or substances into the distributing pipes of a potable supply of water from any source or sources other than an approved water supply source. Back-siphonage is one cause of backflow. Back pressure is the other cause.

G. Contamination. The term "contamination" means a degradation of the quality of the potable water by any foreign substance which creates a hazard to the public health or which may impair the usefulness or quality of the water.

H. Cross-Connection. The term "cross-connection" as used in this chapter means any unprotected actual or potential connection between a potable water system used to supply water for drinking purposes and any source or system containing unapproved water or a substance that is not or cannot be approved as safe, wholesome, and potable. By-pass arrangements, jumper connections, removable sections, swivel or changeover devices, or other devices through which backflow could occur, shall be considered to be cross-connections.

I. Double Check Valve Assembly. The term "double check valve assembly" means an assembly of at least two independently acting check valves including tightly closing shut-off valves on each side of the check valve assembly and test cocks available for testing the watertightness of each check valve.

J. Health Agency. The term "health agency" means the California Department of Health Services, or the local health agency with respect to a small water system.

K. Local Health Agency. The term "local health agency" means the county health authority.

L. Person. The term "person" means an individual, corporation, company, association, partnership, municipality, public utility, or other public body or institution.

M. Premise. The term "premise" means any and all areas on a customer's property which are served or have the potential to be served by the public water system.

N. Public Water System. The term "public water system" means a system for the provision of piped water to the public for human consumption which has five or more service connections or regularly serves an average of twenty-five (25) individuals daily at least sixty (60) days out of the year.

O. Reclaimed Water. The term "reclaimed water" means a wastewater which as a result of treatment is suitable for uses other than potable use.

P. Reduced Pressure Principle Backflow Prevention Device. The term "reduced pressure principle backflow prevention device" means a device incorporating two or more check valves and an automatically operating differential relief valve located between the two checks, a tightly closing shut-off valve on each side of the check valve assembly, and equipped with necessary test cocks for testing.

Q. Service Connection. The term "service connection" refers to the point of connection of a user's piping to the water supplier's facilities.

R. Water Supplier. The term "water supplier" means the person who owns or operates the approved water supply system.

S. Water User. The term "water user" means any person obtaining water from a approved water supply system.

Section 11.03 Cross-Connection Protection Requirements

A. General Provisions.

1. Unprotected cross-connections with the public water supply are prohibited.
2. Whenever backflow protection has been found necessary, the District will require the water user to install an approved backflow prevention device by and at his/her expense for continued services or before a new service will be granted.
3. Wherever backflow protection has been found necessary on a water supply line entering a water user's premises, then any and all water supply lines from the District's mains entering such premises, buildings, or structures shall be protected by an approved backflow prevention device. The type of device to be installed will be in accordance with the requirements of this chapter.

B. Where Protection is Required.

1. Each service connection from the District water system for supplying water to premises having an auxiliary water supply shall be protected against backflow of water from the premises into the public water system unless the auxiliary water supply is accepted as an additional source by the District and is approved by the public health agency having jurisdiction.
2. Each service connection from the District water system for supplying water to any premises on which any substance is handled in such fashion as may allow its entry into the water system shall be protected against backflow of the water from the premises into the public system. This shall include the handling of process waters and waters originating from the District water system which have been subjected to deterioration in sanitary quality.
3. Backflow prevention devices shall be installed on the service connection to any premises having (a) internal cross-connections that cannot be permanently corrected and controlled to the satisfaction of the state or local health department and the District, or (b) intricate plumbing and piping arrangements or where entry to all portions of the premises is not readily accessible for inspection purposes, making it impracticable or impossible to ascertain whether or not cross-connections exist.

C. Type of Protection Required.

1. The type of protection that shall be provided to prevent backflow into the approved water supply shall be commensurate with the degree of hazard that exists on the consumer's

premises. The type of protective device that may be required (listing in an increasing level of protection) includes: Double Check Valve Assembly (DC), Reduced Pressure Principle Backflow Prevention Device (RP), and an Air-gap separation (AG). The water user may choose a higher level of protection than required by the District. The minimum types of backflow protection required to protect the approved water supply, at the user's water connection to premises with varying degrees of hazard are given in Table 1. Situations which are not covered in Table 1 shall be evaluated on a case by case basis and the appropriate backflow protection shall be determined by the District or health agency.

Table 1
TYPE OF BACKFLOW PROTECTION REQUIRED

<u>Degree of Hazard</u>	<u>Minimum Type of Backflow Prevention</u>
a. Sewage and Hazardous Substances	
1) Premises where the public water system is used to supplement the reclaimed water supply.	AG
2) Premises where there are wastewater pumping and/or treatment plants and there is no interconnection with the potable water system. This does not include a single family residence that has a sewage lift pump. A RP may be provided in lieu of an AG if approved by the health agency and the District.	AG
3) Premises where reclaimed water is used and there is no interconnection with the potable water system. A RP may be provided in lieu of an AG if approved by the health agency and the District.	AG
4) Premises where hazardous substances are handled in any manner in which the substances may enter a potable water system. This does not include a single family residence that has a sewage lift pump. A RP may be provided in lieu of an AG if approved by the health agency and the District.	AG
5) Premises where there are irrigation systems into which fertilizers, herbicides, or pesticides are, or can be, injected, spread or sprayed. [Amended by Ord. 99-01]	RP
b. Auxiliary Water Supplies	
1) Premises where there is an unapproved auxiliary water supply which is inter-connected with the public water system. A RP or DC may	

be provided in lieu of an AG if approved by the health agency and the District. AG

2) Premises where there is an unapproved auxiliary water supply and there are no interconnections with the public water system. A DC may be provided in lieu of a RP if approved by the health agency and District. RP

c. Fire Protection Systems

1) Premises where the fire system is directly supplied from the public water system and there is an unapproved auxiliary water supply on or to the premises (not inter-connected). DC

2) Premises where the fire system is supplied from the public water system and inter-connected with an unapproved auxiliary water supply. A RP may be provided in lieu of an AG if approved by the health agency and District. AG

3) Premises where the fire system is supplied from the public water system and where either elevated storage tanks or fire pumps which take suction from the private reservoirs or tanks are used. DC

4) Premises where the fire system is supplied from the public water system and chemicals or fire retardants are utilized or chemicals are used to prevent freezing. [Added by Ord. 99-01] RP

5) Fire hydrant connections for construction purposes. An RP may be provided in lieu of an AG if approved by the health agency and District [Added by Ord. 99-01] AG

d. Premises where entry is restricted so that inspections for cross-connections cannot be made with sufficient frequency or at sufficiently short notice to assure that cross-connections do not exist. RP

e. Premises where there is a repeated history of cross-connections being established or re-established. RP

2. Two (2) or more services supplying water from different street mains to the same building, structure, or premises through which an inter-street main flow may occur, shall have at least a standard check valve on each water service to be located adjacent to and on

the property side of the respective meters. Such check valve shall not be considered adequate if backflow protection is deemed necessary to protect the District's mains from pollution or contamination; in such cases the installation of approved backflow devices at such service connections shall be required.

Section 11.04 Backflow Prevention Devices

A. Approved Backflow Prevention Devices

1. Only backflow prevention devices which have been approved by the California Department of Health Services shall be acceptable for installation by a water user connected to the District's potable water system. [Amended by Ord. 99-01]
2. The District will provide, upon request, to any affected customer, a list of approved backflow prevention devices.

B. Backflow Prevention Device Installation

1. Backflow prevention devices shall be installed in a manner prescribed in section 7603, Title 17 of the California Administrative Code. Location of the devices should be as close as practical to the user's connection. The District shall have the final authority in determining the required location of a backflow prevention device.

a. Air-gap separation (AG). The air-gap separation shall be located on the user's side of and as close to the service connection as is practical. All piping from the service connection to the receiving tank shall be above grade and be entirely visible. No water use shall be provided from any point between the service connection and the air-gap separation. The water inlet piping shall terminate a distance of at least two (2) pipe diameters of the supply inlet, but in no case less than one (1) inch above the overflow rim of the receiving tank.

b. Reduced pressure principal backflow prevention device (RP). The approved reduced pressure principal backflow prevention device shall be installed on the user's side of and as close to the service connection as is practical. The device shall be installed a minimum of twelve inches (12") above grade and not more than thirty-six inches (36") above grade measured from the bottom of the device and with a minimum of twelve inches (12") side clearance. The device shall be installed so that it is readily accessible for maintenance and testing. Water supplied from any point between the service connection and the RP device shall be protected in a manner approved by the District.

c. Double check valve assembly (DC). The approved double check valve assembly shall be located as close as practical to the user's connection and shall be installed above grade, if possible, and in a manner where it is readily accessible for testing and maintenance. If a double check valve assembly is put below grade it must be installed in a vault such that there is a minimum of six inches (6") between the bottom of the vault and the bottom of the device, so that the top of the device is no more than a maximum of eight inches (8") below grade, so there is a minimum of six inches of clearance between the side of the device with the test cocks and the

side of the vault, and so there is a minimum of three inches (3") clearance between the other side of the device and the side of the vault. Special consideration must be given to double check valve assemblies of the "Y" type. These devices must be installed on their "side" with the test cocks in a vertical position so that either check valve may be removed for service without removing the device. Vaults which do not have an integrated bottom must be placed on a three inch (3") layer of gravel.

C. Backflow Prevention Device Testing and Maintenance

1. The owners of any premises on which, or on account of which backflow prevention devices are installed, shall have the devices tested by a person who has demonstrated their competency in testing of these devices to the District. Persons testing backflow devices in the District must be currently certified by the Cal-Nev Section AWWA and keep a current copy of test instrument calibration on file at the District. Backflow prevention devices must be tested immediately after installation, relocation, or repair and at least annually during months of accessibility (summer). The District may require a more frequent testing schedule if it is determined to be necessary. No device shall be placed back in service unless it is functioning as required. A report in a form acceptable to the District shall be filed with the District each time a device is tested, relocated, or repaired. These devices shall be serviced, overhauled, or replaced whenever they are found to be defective and all costs of testing, repair, and maintenance shall be borne by the water user. [Amended by Ord. 99-01]

2. The District will notify affected customers by mail annually that testing of a device is required. Owners of devices that are removed from service during winter months must provide a certified test prior to returning the device to service each spring. The District will supply affected water users with a list of persons known to the District to test backflow prevention devices and that have filed proof with the District of certification by AWWA and test instrument calibration. The District will supply users with the necessary forms which must be filled out each time a device is tested or repaired. [Amended by Ord. 99-01]

D. Backflow Prevention Device Removal

1. Approval must be obtained from the District before a backflow prevention device is removed, relocated or replaced.

a. Removal: The use of a device may be discontinued and the device removed from service upon presentation of sufficient evidence to the District to verify that a cross-connection no longer exists or is not likely to be created in the future.

b. Relocation: A device may be relocated following confirmation by the District that the relocation will continue to provide the required protection and satisfy installation requirements. A retest will be required following the relocation of the device.

c. Repair: A device may be removed for repair, provided the water use is either discontinued until repair is completed and the device is returned to service, or the service connection is equipped with other backflow protection approved by the District. A retest will be required following the repair of the device.

Section 11.05 User Supervisor

At each premises where it is necessary, in the opinion of the District, a user supervisor shall be designated by and at the expense of the owner of such premises. This user supervisor shall be responsible for the monitoring of the backflow prevention devices and for avoidance of cross-connections. In the event of contamination or pollution of the drinking water system due to a cross-connection on the premises, the District shall be promptly notified by the user supervisor so that appropriate measures may be taken to overcome the contamination. The water user shall inform the District of the user supervisor's identity on, as a minimum, an annual basis and whenever a change occurs.

Section 11.06 Administrative Procedures

A. Water System Survey

1. The District shall review all requests for new services to determine if backflow protection is needed. Plans and specifications must be submitted to the District upon request for review of possible cross-connection hazards as a condition of service for new service connections. If it is determined that a backflow prevention device is necessary to protect the public water system, the required device must be installed before service will be granted.

2. The District may require an on-premise inspection to evaluate cross-connection hazards. The District will transmit a written notice requesting an inspection appointment to each affected water user. Any customer which cannot or will not allow an on-premise inspection of their piping system shall be required to install the backflow prevention device the District considers necessary.

3. The District may, at its discretion, require a re-inspection for cross-connection hazards of any premise to which it serves water. The District will transmit a written notice requesting an inspection appointment to each affected water user. Any customer which cannot or will not allow an on-premise inspection of their piping system shall be required to install the backflow prevention device the District considers necessary.

B. Customer Notification - Device Installation

1. The District will notify the water user of the survey findings, listing corrective action to be taken if required. A period of sixty (60) days will be given to complete all corrective action required including installation of backflow prevention devices.

2. A second notice will be sent to each water user which does not take the required corrective action prescribed in the first notice within the sixty (60) day period allowed. The second notice will give the water user a two week period to take the required corrective action. If no action is taken within the two week period the District may terminate water service to the affected water user until the required corrective actions are taken.

D. Customer Notification - Testing and Maintenance

1. The District will notify each affected water user annually that the backflow prevention device installed on their service connection must be tested. This written notice shall give the water user thirty (30) days to have the device tested and supply the water user with the necessary form to be completed and resubmitted to the District. [Amended by Ord. 99-01]

2. A second notice shall be sent to each water user which does not have his/her backflow

prevention device tested as prescribed in the first notice within the thirty (30) day period allowed. The second notice will give the water user a two (2) week period to have his/her backflow prevention device tested. If no action is taken within the two (2) week period the District may terminate water service to the affected water user until the subject device is tested.

3. Extension of time may be granted by the General Manager on a case-by-case basis. Any extension of time, as may be granted pursuant hereto, shall not release the owner from the requirement of annual testing, nor shall such extension of time delay or in any manner result in any device failing to be tested annually, as set forth in Section 11.04. [Added by Ord. 99-01]

Section 11.07 Water Service Termination

A. General - When the District encounters water uses that represent a clear and immediate hazard to the potable water supply that cannot be immediately abated, the District shall institute the procedure for discontinuing the District water service.

B. Basis for Termination - Conditions or water uses that create a basis for water service termination shall include, but are not limited to, the following items:

1. Refusal to install a required backflow prevention device.
2. Refusal to test a backflow prevention device.
3. Refusal to repair a faulty backflow prevention device.
4. Refusal to replace a faulty backflow prevention device.
5. Direct or indirect connection between the public water system and a sewer line.
6. Unprotected direct or indirect connection between the public water system and a system or equipment containing contaminants.
7. Unprotected direct or indirect connection between the public water system and an auxiliary water system.
8. A situation which presents an immediate health hazard to the public water system.
9. The District has not received a test certificate during the calendar year as required in Section 11.04.C. and 11.06.D. [Added by Ord. 99-01]

Section 11.08 Severability

If any section, subsection, subdivision, paragraph, sentence, clause, or phrase of this chapter, or any part thereof, is for any reason held to be invalid, such decision shall not affect the validity of the remaining portions of this chapter or any part thereof. The Board hereby declares that it would have

passed each section, subsection, subdivision, paragraph, sentence, clause, or phrase thereof, irrespective of the fact that any one or more sections, subsections, subdivisions, paragraphs, sentences, clauses, or phrases be declared invalid.