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FACSIMILE COVER SHEET

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REMARKS:

B. Electrical Construction

1. The device construction shall incorporate the function of a cable clamp or cable strain relief.
2. Device construction shall contain two or three screw-type terminals to enable connection to the wire from the encoder register.
3. Design of the unit shall be such that it provides for mechanical and electrical connection between the receptacle and interrogation equipment.

IV. CABLE

The connecting cable shall be of the three-wire conductor type in a sheath which shall be abrasion and moisture resistant. Each conductor shall be color coded: red, green and black.

V. PORTABLE VISUAL DISPLAY UNIT

- The unit shall be designed to provide an instantaneous visual reading of the four or six most significant digits of the meter encoder register through mechanical connection to the remote-mounted receptacle.

Activation of the visual display shall be automatic upon full insertion into the molded receptacle assembly. The meter reader shall not have to press a button to activate the meter reading process.

The unit shall also display the six-digit house I.D. or account number. A trigger switch shall be provided to allow for display of the receptacle identification number.

The materials employed in the design of the unit shall be corrosion resistant and compatible with rugged service and long life.

A. Mechanical Construction

1. The receptacle interface portion ("Probe") of the portable visual display unit shall consist of a pogo block containing forty-four plunger type contacts. The plunger contacts shall be designed with nine sharp, oxide puncturing pins. The plunger contact assembly shall be gold-plated to promote electrical fidelity and inhibit corrosion.
2. The probe of the unit shall be equipped with a reinforced pawl to be used to gain access to the remote receptacle.
3. The unit shall be activated by a single on/off switch.
4. Batteries shall be replaceable by the user in the field without the use of tools.

B. Electrical Construction

1. The self-contained power source supplied shall be sufficient to provide ten hours of normal meter reading without recharging.
2. Data shall be displayed on a liquid crystal display. The visual display should be comprised of two "pages"; one page reserved for receptacle I.D. The word "MTR" shall accompany the meter reading on the display.
3. The display shall incorporate both a low temperature and a low battery indicator.
4. The unit shall diagnose malfunctions in the meter installation by the following conventions:
 - a. Display an "H" to indicate when a short is encountered.
 - b. Display a "-" to indicate when an open is encountered. Display of error codes are not allowed.

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not use the water or on account of some of the fixtures not being used or portions of the premises vacant.

(Code 1956, § 252.02)

Sec. 91.03. Water conservation.

Plumbing fixtures installed in any new building or any retrofitted building shall be of water conserving type and shall meet requirements of the state building code. The board of water commissioners may implement a plan to promote and encourage replacement of nonconserving faucets, shower heads and toilets.

All automatic lawn sprinkler systems connected to the public water system must be equipped with water conserving devices. However, systems which were installed prior to the effective date of this chapter may continue in operation at their current locations.

No person shall allow water to be wasted through any faucet or fixture or keep water running longer than necessary. The board of water commissioners shall discourage any wastage of water and may, when in its judgment deemed necessary, turn off any water service and require remedial action as it may in its judgment be deemed proper and necessary.

(Code 1956, § 252.03; C.F. No. 93-905, § 16, 7-15-93; C.F. No. 97-1419, § 5, 12-22-97)

→ ~~Inspection of meters and connections~~
 Inspectors of the water utility, or any person authorized by the board of water commissioners, shall have free access at all reasonable hours to all parts of every building for the purpose of reading, inspecting, removing or replacing meters, remote meter reading receptacles and connecting cable, examining water fixtures and observing the manner in which water is used.

(Code 1956, § 252.04; Ord. No. 17267, § 4, 8-13-85)

Sec. 91.05. Sprinkling restrictions.

The use of water for lawn sprinkling purposes shall at all times be subject to the express condition that the board of water commissioners may, at any time when in its opinion the condition of the public water supply demands it, limit the time

during each day when water may be used for sprinkling purposes; and the board may forbid the use of water for lawn sprinkling for any period not exceeding thirty (30) days at one time.

(Code 1956, § 252.06)

Sec. 91.06. No claim against the board for breaks or shutoffs.

The board of water commissioners may at any time shut off the water for the purpose of extending, replacing, repairing or cleaning mains and appurtenances, and said board shall not be held liable for any damage arising therefrom. No claim shall be made against the board by reason of the breaking of any water main, service pipe or connection.

(Code 1956, § 252.07)

Sec. 91.07. Service outside city limits.

The board of water commissioners may furnish water to places outside of the boundaries of the City of Saint Paul where such service will not affect the city's supply, under such rules and regulations as are approved by the board.

(Code 1956, § 252.08)

Sec. 91.08. Order to turn off.

If so ordered by the owner of the premises or authorized agent, the water utility will turn off the water, except that water will not be turned off for the purpose of eviction.

(Code 1956, § 252.09)

Sec. 91.09. Order to remove meter.

On the request of the owner or authorized agent, the water will be shut off and the meter will be removed and any fixed charge stopped as of the date of removal. Removal of the remote meter reading receptacle and connecting cable shall be at the discretion of the water utility.

(Code 1956, § 252.10; Ord. No. 17267, § 4, 8-13-85; C.F. No. 93-905, § 17, 7-15-93)

Sec. 91.10. Reserved.

Editor's note—C.F. No. 93-905, § 18, adopted July 15, 1993, deleted in its entirety, in effect repealed. § 91.10, which pertained to service charge—when stopped and derived from § 252.11 of the city's 1956 Code.

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Sec. 88.05. Where required.

The supply of water through each separate service must be recorded by one meter only, for which only one account will be maintained by the water utility.

(Code 1956, § 249.05)

Sec. 88.06. Private meters.

If additional or auxiliary meters are desired for recording the subdivision of a water supply, they must be furnished and set by the owner or consumer at their expense, and all responsibility for reading and maintaining same shall be assumed by the owner or consumer.


(Code 1956, § 249.06; C.F. No. 93-905, § 5, 7-15-93)

Sec. 88.07. Cost of setting.

The first meter setting following the initial installation of the street service connection for domestic and commercial accounts shall be at no charge.

For all other metering systems set, and for all meters changed and reset at the request of the consumer or owner, a charge equal to the current turn-on service charge shall be paid for each meter not exceeding one (1) inch in size. For each meter one-and-one-half (1½) inches in size or larger, the actual cost of installation shall be charged.

(Code 1956, § 249.07; Ord. No. 17267, § 3, 8-13-85; C.F. No. 93-1589, § 3, 11-9-93; C.F. No. 97-1419, § 2, 12-22-97)

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Meters and remote meter reading receptacles must at all times be easily accessible so that they may be examined and meter readings obtained by employees of the water utility. Meters must not be exposed to danger from frost or contamination. It is unlawful to cover or obstruct any water meter or remote meter reading receptacle either permanently or temporarily.

(Code 1956, § 249.08; Ord. No. 17267, § 3, 8-13-85)

Sec. 88.09. By whom set.

The installation, replacement, repair and disconnection of all meters and metering system is to be performed by employees or authorized representatives of the water utility only. However, on new service connections or new service accounts, cable shall be furnished and installed by the owner or owner's representative in accordance with water utility standards. Valves, fittings and piping in the vicinity of the meter shall be maintained in a state of good repair by the owner to permit such installation, replacement, repair and disconnection.

(Code 1956, § 249.09; Ord. No. 16901, 4-1-82; Ord. No. 17267, § 3, 8-13-85)

Sec. 88.10. Damaged meters and metering systems.

(a) If meters, remote meter reading receptacles or connecting cable are damaged either through neglect or carelessness of the consumer, the cost of repairs, or replacement if beyond repair, must be paid for by the consumer or owner.

(b) Lost or stolen meters or metering system components shall be replaced by the water utility at the expense of the consumer or owner.

(c) It is unlawful to disconnect the cable connecting the meter to the remote meter reading receptacle.

(d) The cost of ordinary maintenance and repairs will be borne by the water utility.

(e) In case of breakage, stoppage or other irregularity in the meter, meter setting or metering system, the owner or consumer shall notify the utility immediately.

(f) Meters damaged due to freezing shall be repaired or replaced at the expense of the consumer or owner.

(g) Meters which have been damaged due to hot water and which were installed with the required protective features will be repaired by the utility after the first damage from hot water. Subsequent damage due to hot water must be paid for by the consumer or owner unless further protective measures are installed as required.

(Code 1956, § 249.10; Ord. No. 17267, § 3, 8-13-85)

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provided the owner agrees to pay and deposit in advance a sum equal to the estimate of actual costs as determined by the water utility.

(b) If the utility determines that the frozen section is in the street right-of-way, the utility may thaw the service without charge. If the owner elects to have the section of the service thawed by a private contractor at the owner's expense, all work shall be in accordance with standards of the utility. (Ord. No. 17001, 2-24-83; C.F. No. 93-1589, § 2, 11-9-93; C.F. No. 97-1419, § 1, 12-22-97)

Chapter 88. Water Code—Meters

Sec. 88.01. Definitions.

For the purposes of this chapter, the following words and phrases shall have the meanings ascribed to them unless it is apparent from the context that a different meaning is intended:

- (1) *Metering system* shall consist of a water meter, a remote meter reading receptacle and connecting cable.
- (2) *Cable* means the multiwire conductor between the water meter and the remote meter reading receptacle.
- (3) *Remote meter reading receptacle* means the device mounted on the outside of the building from which meter readings can be obtained.

(Code 1956, § 249.01; Ord. No. 17267, § 2, 8-13-85)

Sec. 88.02. Meters/metering systems required.

(a) *New installations.* A metering system as designated by the board must be installed on all new water service connections.

(b) *Flat rate services.* The board may order a meter or metering system installed on any flat rate account when it deems it advisable.

(c) *Replacement of existing meters.* The board may adopt a plan for the replacement of existing water meters with a complete metering system, including remote meter reading receptacles, and may order the installation of the metering system

in existing residential, commercial and industrial property in accord with the plan as adopted, or as it may be amended, when the board deems it advisable to do so. The plan shall provide that advance notice shall be given to all customers prior to replacing of existing meters.

(Code 1956, § 249.02; Ord. No. 17267, § 2, 8-13-85)



All meters and remote meter reading receptacles installed on other than fire services shall be furnished by and be property of the board of water commissioners.

(Code 1956, § 249.03; Ord. No. 17267, § 3, 8-13-85; C.F. No. 97-1419, § 2, 12-22-97)

Sec. 88.04. Owners may request meters.

At the request of a consumer, a meter will be installed on any service already established on a flat rate basis, providing application for same is made in the prescribed manner and the cost of setting such meter is paid at the time the application is made and proper plumbing provisions are made by the owner.

(Code 1956, § 249.04)

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