

Meeting Date: 2/24/2015

Report Type: Staff/Discussion

Report ID: 2015-00031

Title: Proposal to Accelerate Installation of Water Meters to Promote Water Conservation

Location: Citywide

Recommendation: Pass a Resolution approving revised guidelines for the water meter implementation program to accelerate the completion of meter installation.

Contact: Bill Busath, Interim Director, (916) 808-1434; Dan Sherry, Interim Engineering & Water Resources Manager, (916) 808-1419; Michelle Carrey, Senior Engineer, (916) 808-1438, Department of Utilities

Presenter: Bill Busath, Interim Director, (916) 808-1434, Department of Utilities

Department: Department Of Utilities

Division: Cip Engineering

Dept ID: 14001321

Attachments:

- 1-Description/Analysis
- 2-Background
- 3-Resolution
- 4-Attachment A Resolution 2005-347
- 5-Attachment B Ordinance 2005-091
- 6-Attachment C Accelerated Program Cost Comparison
- 7-Attachment D Water Meter Implementation Program
- 8-Attachment E Accelerated Program Management Costs

City Attorney Review

Approved as to Form
Joe Robinson
2/17/2015 10:24:16 AM

Approvals/Acknowledgements

Department Director or Designee: Bill Busath - 1/14/2015 12:40:16 PM

Description/Analysis

Issue Detail: The Department of Utilities (DOU) initiated the water meter implementation program in 2005 to meet the State-mandated (AB 2572) installation of water meters on all water service connections by January 1, 2025. In 2014, the state experienced record drought conditions, reinforcing the importance of metering water services to promote water conservation. In an effort to improve water conservation efforts within the city, staff is requesting approval to accelerate the installation of water meters in accordance with revised water meter implementation plan guidelines.

Policy Considerations: On May 24, 2005, the City Council passed Resolution No. 2005-347 (**see Attachment A**), approving guidelines for DOU's water meter implementation plan. On November 1, 2005, the City Council passed Ordinances No. 2005-091 (**see Attachment B**) amending the City Code to further accomplish water meter implementation.

Economic Impacts: Completion of the project by January 1, 2025 in accordance with the current guidelines (based on the remaining project cost of \$315 million) is expected to create 1,260 total jobs (724.50 direct jobs and 535.50 jobs through indirect and induced activities) over the 9.5-year remaining life of the project, or an average of 132.6 jobs per year and create \$194,492,025 in total economic output, (\$122,589,810 of direct output and another \$71,902,215 of output through indirect and induced activities) or an average of \$20,472,844 per year.

Completion of the project by December 31, 2020 with the proposed guideline revisions to accelerate completion (based on the remaining project cost of \$249.7 million) is expected to create 998.80 total jobs over the 5.5-year life of the project, (574.31 direct jobs and 424.49 jobs through indirect and induced activities) or an average of 181.6 jobs per year and create \$154,173,519 in total economic output, (\$97,176,747 of direct output and another \$56,996,771 of output through indirect and induced activities) or an average of \$28,031,550 per year.

The indicated economic impacts are estimates calculated using a calculation tool developed by the Center for Strategic Economic Research (CSER). CSER utilized the IMPLAN input-output model (2009 coefficients) to quantify the economic impacts of a hypothetical \$1 million of spending in various construction categories within the City of Sacramento in an average one-year period. Actual impacts could differ significantly from the estimates and neither the City of Sacramento nor CSER shall be held responsible for consequences resulting from such differences.

Environmental Considerations: The original program was reviewed and determined to be categorically exempt from the California Environmental Quality Act (CEQA). The program includes replacing existing water mains (utility systems) involving negligible expansion of capacity (CEQA guidelines Section 15302 (c)) as well as the installation and location of new, small utility facilities (water meter boxes) (CEQA guidelines Section 15303). A notice of categorical exemption will be filed with the County Clerk for each project.

Sustainability: The proposed modifications to the water meter implementation plan support the goals of the City's Sustainability Master Plan by improving water conservation awareness through

metered billing with a monthly statement of water usage to customers. Water meter installation also furthers the City's progress in implementing the Water Forum Agreement and the California Urban Water Conservation Council Best Management Practices (BMPs 1, 4, and 7).

Commission/Committee Action: Not Applicable

Rationale for Recommendation: DOU is responsible for maintaining a water supply that meets essential public health, safety, and welfare needs for the city and its residents and businesses while meeting all local, state, and federal regulations. The acceleration of the water meter installation program will enable the City to complete the program by December 2020, four years prior to the January 1, 2025 deadline mandated by State law. This will accelerate the City's water conservation efforts during the ongoing and future water shortage conditions.

Financial Considerations:

Program Costs: As shown in **Attachment C**, the proposed guidelines for acceleration of the water meter implementation program, starting July 1, 2015 through December 31, 2020 will decrease the original estimated program costs for the completion of the water meter installation from \$315.0 million to \$249.7 million, a reduction of \$65.3 million.

This reduction is partially achieved by delaying the relocation of selected backyard mains. Those backyard water mains not replaced and relocated in the next five years as part of meter installation will eventually be replaced near the end of their useful lives. The cost of that future project is estimated to be \$87 million (2015 dollars).

CIP Budget: The additional funding required to pay for the Residential Water Meter Program (Z14010000) under this acceleration proposal will be fully offset by deferring the EA Fairbairn Water Treatment Plant Improvements (Z14130200) and Distribution Main Replacement (Z14130400) projects to later dates. Funding to support implementation of the accelerated meter program, as well as the remainder of the Water CIP projects planned for FY2016 through FY2021, will require subsequent Capital Improvement Program budget approvals by the City Council. This will be done relying upon a mix of bond and cash financing to allow the City to invest in its infrastructure and meet regulatory requirements while smoothing rate increases and avoiding rate spikes for utility customers.

Local Business Enterprise (LBE): LBE requirements will apply to construction projects implemented under the water meter program. The construction schedule anticipated for this accelerated meter installation program is expected to exceed the construction/bonding capacity of LBE contractors and some flexibility with current LBE requirements may be needed.

Background

The current Department of Utilities (DOU) water meter implementation program, as described in **Attachment D**, planned for the installation of 105,000 water meters and the replacement and/or relocation of over 175 miles of water mains located in backyards.

In 2014, the State experienced record drought conditions for the third year in a row, reinforcing the importance of metering water services. In response to the drought, DOU proposes to accelerate the installation of water meters to improve water conservation efforts within the City. The accelerated meter installation program would enable the City to be 93% metered by the end of 2018 and 100% metered by the end of 2020, four years earlier than the current installation schedule. The accelerated program includes the following guideline changes:

1. DOU will prioritize the installation of water meters connected to distribution mains currently in public streets and alleys.
2. DOU will reduce the number of water meters to be installed in the sidewalk by installing meters adjacent to the sidewalk where feasible (i.e. subject to existing public easements and site restrictions).
3. In areas with existing backyard mains, where DOU deems it feasible to delay the relocation of the backyard main, water meters will be installed in the backyards, subject to existing public easements and site improvements.
4. In areas with existing backyard mains, where DOU deems it is not advisable to delay the relocation of the backyard main, the backyard water main will be relocated to the street and water meters will be installed adjacent to the sidewalk where feasible (see #2).

The decision as to which of the backyard main replacements can be delayed and which cannot has been made by applying a matrix including the following criteria:

1. Easement – Backyard mains where there is no public easement or inadequate easement will be moved to the street.
2. Encroachments – Backyard mains where encroachments would make it infeasible to place a meter in the backyard will be moved to the street.
3. Flow – Backyard mains that don't meet current flow requirements will be moved to the street.
4. Leaks – Backyard main that have experienced excessive leaks will be moved to the street.

Significant benefits from the meter acceleration program include:

1. Acceleration of availability of customer interface to monitor water usage.

2. Enhanced leak detection
3. Quicker transition to conservation pricing for water.
4. Lower short term costs
5. Local economic boost
6. Ahead of schedule compliance with legislative mandate to install meters

Accelerating the meter installation schedule will create financial considerations as listed below. See **Attachment C** for estimated change in costs to the Residential Water Meter Program budget (Z14010000).

1. The accelerated meter program will require an increased program budget for consultant assistance with program management. The consultant costs will cover the increased administrative tasks, field verification, design, drafting, business integration between AMI, CMMS, and billing systems, construction management, and construction inspection for the program. Additional public outreach and coordination with property owners will be needed to address the increased number of projects in an area, traffic and pedestrian impacts, and water meter installation within backyards and behind the back of walk. See **Attachment E** for a summary outlining the additional services needed to implement the program acceleration.
2. In order for City staff to support the accelerated schedule, the E.A. Fairbairn Water Treatment Plant Improvements (Z14130200) and Distribution Main Replacement (Z14130400) water capital improvement projects will be deferred.
3. Additional research and parcel assessment by City staff will be necessary to identify the existing location of water facilities as they relate to easements and rights-of-way to determine where meters can be placed in backyards or behind the back of walk.
4. Regardless of the existence of City easements across private property, additional public outreach and staff time will be needed to address homeowner concerns about fire hydrant and water meter placement in their yards.
5. Water distribution mains left in backyards will be prioritized and moved to the street over a 40-year period after the completion of the meter program. Projects will be prioritized per the Department's Capital Improvement Planning guide.
6. Where backyard main replacements can be postponed (an estimated 72 miles of pipe), additional costs will be incurred. The additional costs include the initial cost for the backyard water meter installation and a second cost when the backyard main is relocated to the public right-of-way, the backyard meter is abandoned, and a new water meter is installed. However, these costs will be partially offset by the cost benefit of deferring the backyard main replacements from an approximately 50 – 60-year life cycle up to a potential 80-year life cycle and expected additional water conservation.

7. Where private improvements have encroached within City easements, additional staff time and costs beyond retrofitting the service with a meter will be necessary including abandoning existing connections and installing new service laterals, repairing damaged property (hardscape such as paving or fencing and landscape), hand digging, and inspections by a certified arborist.

RESOLUTION NO. 2015-

Adopted by the Sacramento City Council

APPROVING REVISED WATER METER IMPLEMENTATION GUIDELINES TO ACCELERATE INSTALLATION OF WATER METERS

BACKGROUND

- A. Assembly Bill 2572, enacted in 2004, mandated the installation of water meters on all water service connections by January 1, 2025.
- B. The City of Sacramento Department of Utilities (DOU) developed a water meter implementation program to meet this requirement. The program encompassed the installation of 105,000 water meters and replacement of 188 miles of water main pipelines.
- C. On May 24, 2005, the City Council adopted Resolution No. 2005-347, which included approval of the following guidelines for implementation of the water meter program:
 - Spreading meter installation projects throughout the City;
 - Replacing aging water mains as part of the program;
 - Continuing to add new meter installation projects that are adjacent to completed projects; and
 - Installing meters in sidewalks, except in specified instances.
- D. Since the water meter program's inception in 2005, 42,500 meters and 24 miles of new water mains have been installed throughout the City.
- E. In 2014, the State experienced significant drought conditions, triggering significant measures by the City and other water purveyors to reduce water use. Beginning in February through the end of 2014, the City's drought-response measures reduced water usage Citywide by approximately 20% compared to the same period in 2013.
- F. The ongoing drought conditions have reinforced the importance of implementing water conservation measures, including the installation of water meters that incentivize water conservation through consumption-based billing. The Department of Utilities has proposed revisions to the water meter program guidelines previously approved by the City Council, by Resolution 2005-347, that will enable the City to complete water meter installation by December 31, 2020, four years ahead of the deadline specified in AB 2572.
- G. Approval of revised guidelines to accelerate the installation of water meters will enhance the City's ongoing water conservation measures and better enable the City to promote water conservation by its customers through consumption-based

billing.

BASED ON THE FACTS SET FORTH IN THE BACKGROUND, THE CITY COUNCIL RESOLVES AS FOLLOWS:

- Section 1 The Department of Utilities' water meter implementation program will install water meters in accordance with the following guidelines:
- a. DOU will prioritize the installation of water meters connected to distribution mains currently in public streets and alleys.
 - b. DOU will reduce the number of water meters to be installed in the sidewalk by installing meters adjacent to the sidewalk where feasible (i.e., subject to existing public easements and site restrictions).
 - c. In areas with existing backyard mains, where DOU deems it feasible to delay the relocation of the backyard main, water meters will be installed in the backyards, subject to existing public easements and site improvements.
 - d. In areas with existing backyard mains, where DOU deems it is not advisable to delay the relocation of the backyard main, the backyard water main will be relocated to the street and water meters will be installed adjacent to the sidewalk where feasible (see #b).
- Section 2 This Resolution replaces and supersedes Resolution No. 2005-347.

RESOLUTION NO. 2005-347

ADOPTED BY THE SACRAMENTO CITY COUNCIL

ON DATE OF MAY 24 2005

RESOLUTION APPROVING THE DEPARTMENT OF UTILITIES' WATER METER IMPLEMENTATION PLAN CRITERIA, THE PLACEMENT OF WATER METERS IN THE SIDEWALK, AND THE INSTITUTION OF A VOLUNTARY METERED RATE PROGRAM

WHEREAS, the City of Sacramento Department of Utilities is required by law to install water meters on all water service connections by January 1, 2025; and

WHEREAS, the Department of Utilities has developed a plan to meet this requirement using the following three criteria: spread meter installation projects throughout the City, replace aging water pipelines, and continue to add new meter installation projects that are adjacent to completed projects; and

WHEREAS, the Department of Utilities has evaluated these criteria with members of the public, and members of the public supported these criteria; and

WHEREAS, the Department of Utilities has evaluated potential locations for the installation of meters on water service connections to residential properties and shared them with the public; and

WHEREAS, members of the public supported locating the meters in the sidewalks in front of homes; and

WHEREAS, when installing meters in sidewalks, the Department of Utilities will follow all City of Sacramento Department of Transportation requirements and specifications regarding the construction and repair of sidewalks, which may provide additional opportunities to improve and better the sidewalks; and

WHEREAS, the Department of Utilities will work with Historic Preservation to preserve historic structures and landmarks in its installation of meters in the sidewalks; and

WHEREAS, the Department of Utilities also is required by law to charge customers served by a metered water service connection a metered rate, beginning not later than January 1, 2010; and

FOR CITY CLERK USE ONLY

RESOLUTION NO.: 2005-347

DATE ADOPTED: MAY 24 2005

WHEREAS, the Department of Utilities has received requests from some residential customers served by metered connections to switch to a metered rate before January 1, 2010; and

WHEREAS, allowing customers with metered connections who desire to do so to switch to a metered rate before January 1, 2010 will allow the Department of Utilities to evaluate how much water will be saved using metered rates and what that may mean to the Department's revenue source; and

WHEREAS, the Department of Utilities has developed a program to allow customers with metered connections to switch to a metered rate prior to January 1, 2010, after receiving one (1) year of comparative billing.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF SACRAMENTO THAT:

1. Water meters will be installed according to a plan developed using the implementation criteria of spreading meter installation projects throughout the City, replacing old water mains, and continuing to add new meter installation projects that are adjacent to completed projects.
2. Water meters will be installed in the sidewalks except in the following instances:
 - Locations with a sidewalk and a planter strip will have the meter placed in the planter strip.
 - Locations where a sidewalk is not present, but where there is a curb, will have meters located directly behind the curb.
 - Locations where a sidewalk is not present and no curbs are present will have meters located at the public right-of-way line.
3. City of Sacramento residents served by metered water service connections that desire to receive and pay a metered rate water bill prior to January 1, 2010, may voluntarily request to do so, provided that they must have completed one calendar year of comparative billing prior to beginning payment on a metered basis, and that they consent in writing to the Department of Utilities' Voluntary Metered Rate program requirements, including the condition that they may not be allowed to go back to flat rate billing.

HEATHER FARGO

MAYOR

ATTEST:
SHIRLEY CONCOLINO

CITY CLERK

FOR CITY CLERK USE ONLY

RESOLUTION NO.: 2005-347

DATE ADOPTED: MAY 24 2005

ORDINANCE NO. 2005-091

Adopted by the Sacramento City Council

November 1, 2005

AMENDING SECTION 13.04.030, ADDING SECTION 13.04.065 AND AMENDING ARTICLE III OF CHAPTER 13.04 OF THE SACRAMENTO CITY CODE, RELATING TO WATER METERS

SECTION 1

The City Council hereby makes the following findings:

1. Article III of Chapter 13.04 of the Sacramento City Code requires that all new water service connections made to the City water system on or after January 1, 1992, be equipped with a water meter, as required by Water Code Section 525, adopted by Senate Bill 229 (SB 229) in 1991 (Chapter 407 of Stats 1991).
2. In 2004, Assembly Bill 2572 (AB 2572) was signed into law (Chapter 884 of Stats 2004). Among other provisions, AB 2572 enacted Water Code Section 527, that requires an urban water supplier to (i) install water meters on all service connections located within its service area on or before January 1, 2025, and (ii) charge metered rates to customers that have water service connections for which water meters have been installed, beginning not later than January 1, 2010 (provided that metered billing may be delayed for one annual seasonal cycle of water use for services being converted from flat rate to metered billing). AB 2572 became effective January 1, 2005.
3. In enacting AB 2572, the Legislature found that the provision of water on a non-metered basis has caused, and will continue to cause, waste and unreasonable use of water. Article X, section 2 of the California Constitution and Water Code Section 100 provide that rights to the use of water in California do not extend to any waste or unreasonable use of water. These provisions apply to the water rights that the City relies upon to supply water to all customers of the City's water system. AB 2572 also requires any urban water supplier that applies for specified State funding or for a permit for a new or expanded water supply on or after January 1, 2010, to demonstrate compliance with the requirements specified in AB 2572.
4. In the absence of SB 229 and AB 2572, the City could not require the installation of meters on any residential water service, due to Section 11 of the Sacramento City Charter, that prohibits meters on residential water pipes. However, the requirements now mandated by SB 229 and AB 2572 have superseded City Charter

Section 11, because these state laws address a subject matter of statewide concern. The Legislature also has declared that these requirements supersede and preempt all conflicting enactments of charter cities, including charter provisions.

5. The City has approximately 100,000 water service connections without water meters. In order to accomplish the installation of water meters on all of the unmetered connections by January 1, 2025, as mandated by Water Code Section 527, it will be necessary to implement a long-term phased water meter installation program that incrementally installs water meters until January 1, 2025. Water Code section 527(b) provides that an urban water supplier may recover the cost of implementing this program from rates, fees or charges.
6. It is necessary and desirable to direct the City's Director of Utilities to develop and implement a phased program for water meter installation as necessary to comply with the provisions of AB 2572. The costs incurred to fund this program should be paid by customers of the City's water system through rates, fees or charges, as authorized by Water Code Section 527(b).
7. The foregoing costs should be included in the rates paid by all retail water service customers of the City's water system because:
 - A. These costs must be incurred to comply with a state regulatory mandate that applies to the operation of the City's entire water system which provides water service to all City water customers. It is necessary to incur these costs for the City's water system to remain in compliance with State law, avoid subjecting the City's water rights to any claim of waste or unreasonable use of water, and maintain the eligibility of the City's water system for specified State funding and permits on and after January 1, 2010.
 - B. All customers receiving water from the City's water system will benefit from the City's compliance with this mandate, and a failure to comply with this mandate would have significant adverse effects on the City's entire water system and all customers receiving water service from the City's water system.
 - C. Increased water conservation resulting from the implementation of a program for water meter installation and metered billing for all City water service connections will reduce future increases in water demand and associated operational costs, for the benefit of the City's entire water system and all customers receiving water service from the City's water system.
 - D. Since water meters generally require replacement every 10-20 years, even customers required to install water meters under SB 229 will benefit from the City's replacement of the water meters on their water service connections when needed during the City's phased water meter installation program and thereafter.

8. Adoption of this ordinance is necessary to comply with the state's regulatory mandate imposed by AB 2572.

SECTION 2

Section 13.04.030 of the Sacramento City Code is amended as follows:

- A. The definition of "water meter" in Section 13.04.030 is amended to read as follows:

"Water meter" means a water meter provided or approved by the city that is installed on a water service connection in a manner that measures the volume of all water taken from the city water distribution system through that water service connection. As used in article III of this chapter, "water meter" shall include the water meter, the meter box containing the water meter and all related attachments and equipment.

- B. Except as specifically amended above, all other provisions of Sacramento City Code section 13.04.030 shall remain unchanged and in full force and effect.

SECTION 3

Section 13.04.065 is added to the Sacramento City Code to read as follows:

13.04.065 Access to customer premises.

A customer receiving city water service shall provide the department's employees and/or contractors access to and use of the premises where city water service is received as may be required by the city's employees or contractors for the installation, maintenance, repair or removal of any pipelines, water meters and other appurtenances used to provide or measure city water service to the customer's premises or to adjacent premises, and/or as may be required by the city for purposes of connecting, reconnecting or relocating the connection for city water service to any such premises. Compliance with the foregoing requirements shall be a condition of the customer receiving or continuing to receive city water service. If the customer refuses to allow such access, the city also may seek authorization from any court of competent jurisdiction for such access.

SECTION 4

Article III of Chapter 13.04 of the Sacramento City Code is amended to read, in its entirety, as follows:

Article III. Water Meters

13.04.280 Intent and purpose.

The provisions of California Water Code §§ 521 and following, impose various requirements for the installation and use of water meters. This article is enacted to comply with and implement these state law requirements.

13.04.290 Installation of water meters on water service connections made on or after January 1, 1992.

- A. In accordance with the provisions of California Water Code § 525, no new water service connections may be attached to the city water distribution system on or after January 1, 1992, unless such connection is equipped with a water meter. As used in this section, "new water service connection" includes any existing water service connection that is used to provide water to buildings or residential units constructed on or after January 1, 1992. Fire service connections are exempt from the provisions of this chapter. The director may adopt standards and requirements to implement the provisions of this section.
- B. Prior to the installation of a water meter in accordance with the terms of this section, the customer shall pay any applicable fee established from time to time by resolution of the city council to recover costs incurred by the city to provide, install or supervise the installation of the water meter.
- C. Water meters for water service connections made on or after January 1, 1992 shall be installed by the city or under the city's supervision in accordance with all applicable city water and building codes, regulations, and standards.
- D. A water meter for a water service connection made on or after January 1, 1992 shall not be installed unless a plumbing permit has been issued.
- E. Meters for water service connections made on or after January 1, 1992 shall be installed above ground on metered water services three inches and larger in diameter that require the installation of a backflow prevention assembly installation.
- F. No occupancy permit for any structure served by a water service connection made on or after January 1, 1992 shall be issued until meter installation is complete.

13.04.300 Phased Meter Installation Program.

California Water Code § 527 requires the city to install water meters on all water service connections on or before January 1, 2025. In order to comply with this requirement, the director shall develop and implement a phased program to accomplish, by January 1, 2025, the installation of water meters on all city water service connections that

existed without meters as of January 1, 2005. Such program shall comply with any requirements specified or approved by resolution(s) of the city council, including resolution(s) adopted prior to the effective date of the ordinance enacting this section. The director may adopt standards and requirements to implement the provisions of this section.

Customers shall pay such rates, fees and/or charges as may be established from time to time by resolution of the city council to fund, among other costs, the development and implementation of the phased meter installation program.

13.04.310 Reading meters.

The customer receiving city water service shall keep water meters unobstructed and accessible for reading, maintenance and repair, and shall provide the department's employees and/or its contractors access to the premises where the customer receives water service as may be required by the city for such purposes. Compliance with this section shall be a condition of receiving or continuing to receive city water service.

13.04.320 Testing meters

Any metered customer may request in writing that the meter through which water is being furnished be examined and tested by the department to determine whether the meter is registering accurately the amount of water that is being delivered through it. Upon receipt of such request, the department shall examine and test the meter. If the meter is found to register over three percent more water than actually passes through it, the customer's water bill will be adjusted accordingly. If the meter is found to register a variance of three percent or less, no billing adjustment will be made. Meter testing will be performed at a customer's request, at no charge to the customer, not more than once every twelve (12) months.

If a customer requests more frequent testing, the customer's request shall be accompanied by a deposit of an amount equal to the monthly minimum meter charge. Upon receipt of such request, the department shall examine and test the meter. If the meter is found to register over three percent more water than actually passes through it, the customer's water bill will be adjusted accordingly and the deposit shall be returned, without interest. If the meter is found to register a variance of three percent or less, no billing adjustment will be made and the deposit shall be used by the city to pay its inspection and testing costs.

13.04.330 Water meter use--Indemnity.

No person other than authorized employees of the department or other persons duly authorized by the director shall install, maintain, repair, move, replace, adjust, tamper with, manipulate, damage, disconnect or remove any water meter. Any person or entity performing any of the foregoing actions, whether or not authorized by the department, shall pay the city's costs of investigating and repairing any resulting damage and/or replacing any removed item(s), and shall indemnify and hold harmless city, its officers and

employees from any claims, actions, costs (including attorney fees), damages or other liability resulting or arising from such damage or removal.

13.04.340 Reserved.

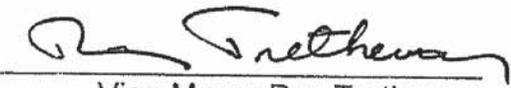
Adopted by the City of Sacramento City Council on November 1, 2005 by the following vote:

Ayes: Councilmembers Cohn, Fong, Hammond, McCarty, Pannell, Sheedy, Tretheway and Waters.

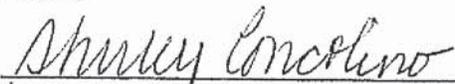
Noes: None

Abstain: None

Absent: Mayor Fargo


Vice-Mayor Ray Tretheway

Attest:


Shirley Concolino, City Clerk

Passed for Publication: October 18, 2005 Published: October 21, 2005

Effective: December 1, 2005

WATER METER PROGRAM

(Assumption: 2013-2016 bond funded projects are complete. Costs are in 2015 dollars)

CURRENT PROGRAM (2016-2024)		
Description	Cost (2014 Dollars)	# of Services
Front Meter Retrofits	\$ 34,200,000	25,300
Backyard Main Replacement	\$ 248,300,000	25,900
Program Costs (ProgMgmt, AMI, PR, O&M, Allowance for Condos/townhome construction)	\$ 32,500,000	--
CURRENT PROGRAM TOTAL	\$ 315,000,000	

ACCELERATED PROGRAM (2016-2020)		
Description	Cost (2014 Dollars)	# of Services
Front Meter Retrofits	\$ 32,400,000	25,300
Backyard Main Replacement	\$ 128,200,000	13,470
Backyard Meter Retrofits	\$ 38,900,000	12,430
Program Costs (ProgMgmt, AMI, PR, O&M, Allowance for Condos/townhome construction)	\$ 50,200,000	--
SUBTOTAL	\$ 249,700,000	



SACRAMENTO WATER METER IMPLEMENTATION PROGRAM

TECHNICAL REPORT

FINAL

November 2008

Black & Veatch





TECHNICAL REPORT NO. 1

EXECUTIVE SUMMARY

Purpose

The purpose of this technical report is to provide a compilation of the efforts by the City of Sacramento staff (City), and City elected officials in response to a State mandate to install meters on all service connections by 2025. Information contained in the technical report documents the history of considerations and decisions leading up to the development of a plan for complying with the State mandate requiring a meter retrofit implementation program.

Scope

The scope of work includes all relevant information, documented meeting records, public outreach efforts, and policy decision gathered from City files.

1.0. INTRODUCTION

1.1. Overview

This section provides a history of the Assembly Bill signed into law, making the Meter Implementation Program a mandate, and specifics about the phases of implementation. The Department of Utilities (DOU) is preparing for this mandate by developing a comprehensive plan that will address meter retrofits, pipeline replacements, water conservation, meeting the schedule and responding to public concern. City staff has also conducted public outreach and is in the process of rate modeling to obtain information to minimize impacts to the public, but to sufficiently fund the State mandated program.

1.2. Background

1.2.1. History of the Legislation and Development of a Meter Implementation Program

Assembly Bill (A.B.) 2572 was signed into law by Governor Arnold Schwarzenegger on September 29, 2004 (see Appendix A for details). The law mandates that utilities install meters on all municipal and commercial service connections by January 1, 2025 and all customers with a meter need to be charged a metered rate by January 1, 2010. The law allows for 1 year of





comparative billing before switching to a metered rate. This law superseded the long-standing residential water meter prohibition written into the City Charter.

The City Department of Utilities (DOU) appeared before the City Council regarding the Water Meter Program multiple times in an effort to reduce impacts. In November 2004, the DOU presented an informational workshop on the mandate of water meters to the City Council. The workshop covered the installation of a meter and how meters work, a proposed 20 year implementation plan, an outreach plan and financing options. Based on Council's direction to provide the customers with options on meter location, DOU returned for another informational item on water meters in March 2005. The second informational item included installation options and feedback from the residential focus groups to install meters in the sidewalk.

In early 2005 DOU requested the State Legislative Committee to make a revision to include water meter funding, as well as sought Federal assistance in an attempt to reduce financial impacts to the public.

In May 2005, the City Council adopted Resolution No. 2005-347 approving the DOU water meter implementation plan criteria the placement of water meters in the sidewalk (as suggested by the public during outreach meetings), and the institution of a voluntary metered rate program.

Later in 2005 the City Council adopted Ordinance No. 2005-090 and 2005- 091 approving an ordinance amending City Code provisions relating to water meters to enable implementation of the new State mandate. The changes directed the DOU to develop and implement a phased program for water meter installation as necessary to comply with provisions of A.B. 2572, funded the program through rates, fees or charges established by City Council resolution, and required customers who receive water to provide DOU access to their property.

1.3. Project Description

1.3.1. Meter Retrofit Implementation Program

To meet the 2025 schedule mandated by the State, the water meter retrofit program will be implemented over a twenty-year period. The process will involve many challenges during the transition from the current flat rate to a metered rate for water services.

Approximately 105,000 meters will be installed during this twenty-year period to meet the 2025 deadline. In addition, the law mandated that on or before January 1, 2010 each customer with a meter shall be charged based on actual volume measured by the meter. However, the City may delay for one annual seasonal cycle of water use connections that are being converted from non-volume based billing to volume based billing. This means that in 2010 approximately 27,600 residential properties with a meter will be switched to the metered rate. From that point forward, residents will transition over to a metered rate one year after the installation of a meter. This large effort will cost an estimated \$342 million dollars (in 2005 dollars).



1.3.2. Backyard Main Replacement

To reduce impacts to the public and provide greater efficiencies, water meters are now a part of the City's effort to upgrade aging water infrastructure and will be conducted in a joint effort with the replacement of water mains located in customer's backyards. Approximately one third of the meters to be installed are in areas with backyard mains. The City has experience in replacing backyard mains from the numerous projects completed over the last ten years. The joint construction project will include:

- Installation of a new water main (in the street)
- Meter installation and new service to the house
- Backyard water main abandonment

1.3.3. Pilot Meter Retrofit Program

The City has limited experience in retrofitting meters in sidewalks on existing front yard services. In a effort to gain some experience, the DOU initiated a pilot program in 2006. DOU field crews installed 140 water meters in a neighborhood. The neighborhood was selected because it had multiple substandard services which need to be replaced. Once meters were installed, customers were brought onto a comparative billing schedule. Data on labor, schedule, cost and the reactions of the public were gathered at each step and used to refine the next phases of the retrofit program.

2.0. CITY COUNCIL ISSUES

2.1. Overview

The City Council is continuing to work with the DOU staff to address water meter implementation costs and the creation of a comprehensive installation plan. This section summarizes the issues discussed and the actions taken the 2004-2006 time period by the City Council on these subjects. All City Council items are included in Appendix B

2.2. City Council Discussions

2.2.1. November 4, 2004 - Implementation Options For Citywide Water Meter Installation



The DOU presented this informational item to the City Council to get recommendations and feedback for implementing the meter program. Staff presented a list of options for installation, implementation, and financing. Staff also researched options for educating the public regarding the installation of water meters and water conservation. Detailed descriptions of the plans were included in the Power Point presentation at the workshop.

The presentation started with background on Assembly Bill (A.B.) 2572 and then went into options for an installation plan, implementation plan, outreach plan, and financing options.

A suggested plan for installation of the meters covered:

- Water Meters
- Reading a Meter
- Components of a Water Service
- Types of Retrofits
- Options
- Impact on Pressure and Flow
- Retrofit Duration

A suggested plan for implementation of the meter plan covered :

- Program Objectives
- Project Types
- Estimated Costs
- Implementation Plan
- Implementation Criteria to Meet Objectives

A suggested plan for communication with customers included:

- Bill inserts
- Direct mail



- Informational packets delivered on upon the installation of the meter

At the time the total cost for installation of water meters and moving backyard mains was reported to be approximately \$300 million. Financing options included:

- Pay as you go
- Capital financing
- Customer pays for cost of installation

2.2.2. March 22, 2005 - Implementation Options For Citywide Water Meter Installation

The DOU presented and informational item to the City Council regarding water meter placement and the proposed implementation plan. This item was in response to questions raised by the City Council at the previous workshop. City staff researched several options for meter installation placements and implementation of the water meter installation plan.

Opinions gathered from Sacramento residents during public outreach efforts were used to determine which meter installation location was preferred and the level of support for the criteria used to develop a plan for installing the meters. This information was gathered through 400 phone surveys to random City residents and four focus groups, three comprised of random residents from each Council District and one comprised of community leaders. Respondents were randomly selected by zip code; approximately 1/3 of which currently had meters installed on their homes.

Three meter location options were presented:

- Option 1: Place meters in the yard, no customization
 - Cost per home: \$1,200
 - Total cost over 20 years: \$300 million
 - All focus groups were opposed to this option
- Option 2: Place meters in the sidewalk
 - Cost per home: \$1,700



- Total cost over 20 years: \$342 million
- All focus groups were in favor of this option, when presented with the additional cost the groups were split 50/50
- Option 3: Place meters in the yard, with customization
 - Cost per home: Up to \$3,100
 - Total cost over 20 years: \$382 million
 - All focus groups were opposed to this option due to its increased cost

The DOU recommended Option 2 to the City Council. The disadvantages of this option were a minor additional cost and sidewalk replacement not matching existing sidewalks. Advantages of this option were:

- Popularity with residents
- Insignificant risk of ADA or liability issues
- Eliminates the need for City staff to enter resident's property to complete meter installation
- Ensures a straight line alignment to the house water service
- Can repair damaged sections of sidewalk by locating service under it

The implementation criteria used to develop a plan for installing meters over twenty years were generally supported by the respondents. This plan was referred to as the Water Meter Implementation Plan, details of the plan included:

- Retrofit meters in conjunction with replacement of mains that are older, leaking or located in a backyard
- Use City Council districts to split the City into 8 areas with a starting point in each area



- Stage abutting projects to each area when the last project is completed to create efficient installation and meter reading routes

Residents also expressed, both through the focus groups and contact with the DOU, that they would like an option to sign up for a metered rate prior to the mandatory change for all metered homes in January 2010. DOU had developed a Metered Rate Transition Plan to accommodate this request. This plan would allow customers to change sooner than 2010 as well as giving the DOU time to gauge how much water will be conserved with meters and determine any fluctuations in revenue source.

2.2.3. May 24, 2005 - Resolution Regarding Implementation Of Water Meter Installation And Voluntary Meter Rates

This letter recommended that the City Council pass a resolution, providing direction to the DOU regarding the Water Meter Implementation Plan criteria, the placement of water meters in the sidewalk and voluntary transitions to a metered rate.

Resolution No. 2005-347 was adopted by the Sacramento City Council on May 24, 2005. This resolution provided guidance on the State mandated water meter installations based on the Water Meter Implementation plan developed by the DOU and public opinion. Restrictions and guidelines set forth in the resolution included:

- The DOU would follow all City of Sacramento Department of Transportation requirements and specifications regarding the construction and repair of sidewalks where meter's were installed
- The DOU would include Historic Preservation criteria to preserve historic structures and landmarks during installation of meters
- The DOU developed program to allow residential customers with metered connections to switch to a metered rate prior to January 1, 2010, after receiving one year of comparative billing

It was therefore resolved by the City Council that:

- Water meters would be installed according to a plan developed using the implementation criteria of spreading water meter projects throughout the City, replacing old water mains, and continuing to add meter installations in areas that are adjacent to completed projects



- Water Meters would be installed in the sidewalks except in the following instances:
 - Locations with a sidewalk planter strip will have meter placed in planter strip
 - Locations where a sidewalk is not present, but there is a curb, will have meters placed directly behind the curb
 - Locations where a sidewalk is not present and no curbs are present will have meters located at the public right-of-way line
- City of Sacramento residents served by metered water service connections that desire to receive and pay a metered rate water bill prior to January 1, 2010, may voluntarily request to do so, provided that they have completed one calendar year of comparative billing prior to beginning payment on a metered basis, and that they consent in writing to the DOUs Voluntary Metered Rate program requirements, including the condition that they may not be allow to go back to flat rate billing

2.2.4. September 6, 2005 - Ordinance: Water Meter Program-Amend City Code

This report recommended that the Law and Legislation Committee approve and forward to the City Council an ordinance to amend the City Code provisions relating to water meters to enable the implementation of the State mandate.

The proposed ordinance amended Section 13.04.030, added Section 13.04.065 and amended article III of Chapter 13.04 of the Sacramento City Code to Comply with the State mandate. The requirements of this law superseded the long-standing residential water meter prohibition in the City Charter. The DOU and the City Attorney's Office staff drafted the proposed ordinance to conform the City Code's water meter provisions to the new mandate. The proposed ordinance included the following provisions:

- The City Director of Utilities is directed to implement a phased program for water meter installation as necessary to comply with provisions of the State mandate, and consistent with direction provided by City Council resolution.
- The cost incurred to fund this program will be paid by customers of the City's water system, as authorized by Water Code Section 527(b), through rates, fees or changes established by City Council resolution.





- Customers receiving City water service are required to provide the Department's employees or contractors access to and use of the premises where the customer receives water service as may be required for the City's installation, maintenance, repair or removal of any pipelines and meter facilities used to provide water service to the premises, as well as for water meter reading.

Adoption of this ordinance was necessary to comply with the state's regulatory mandate imposed by A.B. 2572.

2.2.5. *Others*

- November 1, 2005 - Ordinance: Water Meter Program-Amend City Code

This letter recommended that the City Council adopt the ordinance amending the Water Meter Program Section 13.04.030, added Section 13.04.065 and amended article III of Chapter 13.04 of the Sacramento City Code provisions relating to water meters to enable the implementation of the State mandate.

- March 1, 2005 – Addition of Water Meter Retrofit Funding to the Legislative Platform

This report recommended that the Law and Legislation Committee approve and forward to the City Council a recommendation to add Water Meter Retrofit Funding to the State and Federal legislative Platforms so that the City can work with legislators to obtain funding for this program and limit cost burdens on the City and its residents.

- March 15, 2005 - Addition of Water Meter Retrofit Funding to the Legislative Platform

This report recommended that the City Council add Water Meter Retrofit Funding to the State and Federal legislative Platforms

- June 7, 2005 – FY2005/06 Proposed DOU Operations and Capital Improvement Budgets, Utility Rate Adjustments, and Utility Department Reorganization

This report recommended that the City Council adopt an intent motion approving the DOU operating budget, capital improvement budget, and two year rate increases. The capital improvement budget included the Residential Water Meter



Program project ZK66 with a budget of \$1,163,000. The rate increases included two rate increase of 9% per year for water of which 3% per year is for the initial funding of the meter program.

- June 21, 2005 – Adoption of the FY2005/06 Operations and Capital Budgets

This report recommended that the City Council adopt resolutions approving the operating budget and capital improvement budgets as well as the two year rate increases.

- Report to the City Council dated June 27, 2006

This report recommended that the City Council adopt a resolution authorizing the City Manager to enter into a consultant services agreement with Black & Veatch for program management assistance with implementation of the water meter program for an amount not to exceed \$148,000.

Black & Veatch would assist in program management and the development of long term program procedures, protocols and documentation. This agreement would be funded in the Engineering Services Division capital improvement budget.

RATE & EXPENDITURE PROJECTIONS

3.1. Overview

The City of Sacramento DOU has prepared a projected 5-year cost breakdown plan. These breakdowns are based on revenues and expenditures by Council Districts.

3.2. Rate Increase Limitations

Financing options for this program includes (1) pay as you go, (2) capital financing, and (3) customer pays for the cost of installation, either now or at change of ownership. The implementation plan is contingent upon the amount of money available through rate increases. The City is dedicated to minimizing water rate increases for water meter installation to lessen the financial burden of the State mandated meter implementation program. Furthermore, in an effort to keep infrastructure costs low, DOU will combine meter installation with moving backyard water mains to the street as the mains will need to be replaced within the next 20 years.

3.3. Implementation Plans



3.3.1. 20 Year Plan

DOU presented a 20 year meter plan at the November 4, 2004 Council workshop. The plan created 144 new projects over a 20 year period. Approximately 7 to 8 new projects a year. 60 Meter Retrofit Projects grouped into 1,000 services and 84 Pipeline Replacement Projects grouped into 60 acres and approximately 400 services. The estimated cost was \$300 million, approximately \$15 million per year. This plan is in Appendix C.

Council Resolution 2005-347 approved the installation of the meters in the sidewalk and the project costs increased to \$342 million.

Initial funding for the Meter Program from rate increases of 3% for each the first two years were approved by Council in Resolution 2005-488. This initial funding of approximately \$1.1 million in FY2005/06 and \$2.7 million in FY2006/07 was far less \$15 million per year in the 20 year plan. Therefore, a revised 5 year plan was developed to match the funding provided.

3.3.2. 5 Year Plan

DOU staff developed a 5 year plan from the original 20 year plan based on 3% increases rate increases each year for the first five years, installing the meters in the sidewalk, and the implementation guidelines from Resolution 2005-347. Because DOU has limited experience with retrofits, the plan focused on aggressively ramping up retrofits over the next five years to get to a plateau of 4500 meter retrofits a year that could sustained and ramped down at the end of the project. 400-500 meters per year will be retrofitted through service repairs over the duration of the project. The pipeline replacement projects were prioritized overlaying proposed projects on the DOU leak map in GIS. Leaks per 1000ft of main were calculated for each main replacement project. This data was used to rank the pipeline replacement projects. Pipeline replacement projects were added to the 5 year plan based on remaining funding after the proposed retrofit projects ramp up.

DOU management presented the 5 year plan to each Council Member individually between March and June of 2006. Based on Council input a few changes were made. This plan is currently being implemented. This plan is in Appendix D

DOU staff updated the costs of the 5 year plan on 8/10/06 based on revised ENR construction costs. The overall estimated cost dropped from \$26,925,000 to \$26,784,000 (0.5%).

3.3.3. Ultimate Plan



The Ultimate Plan for years 6-20 are dependant upon yearly rate increases adopted by Council. DOU staff has two plans. These plans also factor in inflation based on the ENR index. These plans do not identify specific projects for each year and can be found in Appendix E.

Plan1 - The ideal scenario ramps-up, plateaus for a majority of the project and then ramps down. This scenario would provide a constant work load over a majority of the project to allow DOU to maintain a constant staffing level. This plan allows DOU to meet the implementation criteria established by Council. The plan is based on the current five year plan with 3% increases rate increases each year for the first five years. The plan then ramps up to \$40 million per year in five years, plateaus at \$40 million per year for eight years, and then ramps down the last three years. This plan requires 9% rate increases for water meters for four years after the five years of 3% per year. This plan has not been approved.

Plan 2 is the minimum funding required to complete the project by 2025. It continues the minimum rate increases of 3% a year for years 6-17. The benefit of this plan is that it minimizes rate impacts to the City's residents. This plan will have difficulty meeting the implementation criteria established by Council because most of the projects will be deferred until the end.

4.0. PUBLIC OUTREACH

4.1. Overview

The City of Sacramento DOU had taken a research based approach to public outreach by collecting an effective mix of quantitative data and qualitative feedback from its customers and community leaders regarding their metering-related attitudes and conservation behavior.

4.2. Completed Activities

- Telephone Survey

The City of Sacramento conducted a telephone survey in December 2004 under the direction of Lucy & Company, a local communication consulting firm. An initial Sample of 400 residents was chosen from DOU customer lists. The customers completed a questionnaire that focused on metering implementation, public education, conservations services, motivation factors and customer concerns. Key findings of this survey were:

- Fewer than two in five residents were aware that metering is coming to Sacramento by 2025; nearly one quarter claimed to have heard nothing on the subject.



- Nearly three in five respondents expressed negative reactions to the onset of metering with half of total respondents expressing very negative reactions. One quarter of respondents had positive reactions.
 - Negative reactions were largely a function of cost concerns.
 - Positive reactions were largely a function of conservation and reduction of water use.
 - Concerns for all respondents were primarily cost-related, with two in five anticipating a higher water bill and many wondering who would pay for installation.
 - Respondents indicated they would not take actions to implement water conservation measures; those who did were vague about how.
 - Water bill inserts would be the most popular method for notifying customers about water-related public meetings or workshops.
 - Differences in respondents from varying ethnic groups were not pronounced enough to create a need for outreach to these ethnic groups as opposed to the customer base as a whole.
- Focus Groups

To obtain feedback from affected residents and communities the DOU conducted four focus groups. Objectives of these focus groups were to collect general reactions, identify concerns and establish a preferred means of public education pertaining to the Water Meter Program.

Some respondents were aware that a legislative effort was behind the reason for water metering, many cited that meters were being installed to increase city revenues and support development. Meter installation criteria, logistics, location, and outreach criteria and methods were refined based on respondents' comments and presented to the City Council.

Overall most respondents were not pleased about the idea of water meters. Most commonly cited reasons were:



- Burden on those with a fixed income
- Region is water rich; therefore, metering a conservation measure seems unnecessary
- Water saved is used elsewhere without benefit to the Sacramento region

Benefits of water metering cited by respondents were:

- Motivator to conserve water
- Can somewhat control one's own water rate, because it will be based on usage
- Will provide monetary incentive to reduce water

4.3. Public Outreach Plan

Primary research findings indicated that the DOU customers would benefit from a long-term, proactive public outreach campaign. Lucy & Company recommended a two tiered approach to public outreach with the first tier including DOU internal stakeholders and the second tier comprised of all external stakeholders; namely customers. The two tier approach would need to focus on three primary actions:

- Dispelling common myths
- Clarifying the reason the City is transitioning to metered rates
- Educating customers about water conservation methods

Research indicated that all customers did not look at the same outreach materials, so it was imperative that the DOU provided several channels of information for their customers. The primary goal of public outreach was to encourage a smooth transition to metered rates and minimized negative feedback during program implementation. Strategies outlined in the outreach plan included:

- Media relations
- Outreach material distribution



- Community meetings
- Program Website

4.3.1. Metering Outreach Activities

Outreach activities outlined in the Outreach Plan were set to begin immediately and continued until the completion of the program in twenty years. Stakeholders would receive program update information once or twice a year through the outreach methods outlined below:

- **Key Messages:** Key messages will be developed to ensure one voice is used to address stakeholders' questions.
- **Speakers Bureau:** Training for staff focusing on key messages, how to answer customers' questions, etc. will be held. Metering components will be added to presentations by utilities staff already making a presentation to a particular group.
- **Hotline:** A hotline number, with a recorded, informational message will be developed to describe primary elements of the meter program.
- **Fact Sheet:** A fact sheet, based on the key messages will be developed to describe primary elements of the meter program.
- **Letters:** A letter with details regarding the meter retrofit and rate transition will be sent to affected neighborhoods in advance of retrofit activities. Future reminders and updates will follow.
- **Flyer/Brochures:** A flyer and brochure with answers to common questions and concerns will be mailed to customers. They will outline who to call with questions, extend invitations for speaking engagements and community events. These will be updated at the program progresses.
- **Newsletters/Articles:** Project updates will be distributed via bimonthly bill inserts and department newsletters.
- **Meetings:** Public meetings, presentations at community/neighborhood association meetings and special pizza parties are planned to encourage public attendance.



- **Bill Inserts:** A series of bill inserts will be designed and produced to inform and educate residents.
- **Website:** A water metering section has been added to the city's website to serve as another way to increase communication about the water meter program.
- **Media Relations:** An ongoing media relation campaign that positions the city as a proactive, concerned water purveyor will be conducted.
- **Educational Reminders:** Ongoing reminders will be produced including, magnets, periodic customer surveys, goody bags and billboard signage placed around Sacramento.

Public outreach activities are included in Appendix F.

5.0. CONSTRUCTION STANDARD SPECIFICATIONS AND DETAILS

5.1. Overview

All work associated with the water meter retrofit and installation plans shall be done in accordance with the City of Sacramento Standard Specifications.

5.2. Special Provisions

Special provisions for water meter retrofit had been created for use on all water meter program projects. These special provisions outlined standards, methodology and project management needs. In addition it provided direction for contractors pertaining to maintaining and restoring existing conditions, public convenience, notification of property owners and required documentation. Separate project management manuals are being developed for backyard main projects and retrofit projects.

5.3. Details

Construction details for water meter retrofit had been created for use on all water meter program projects. These details can be found in the project management manuals.

6.0. PILOT PROGRAM

6.1. Overview



The City of Sacramento began a pilot project to study the methodology and costs associated with meter installation. A limited number of meters were installed by city personnel and data was recorded with regard to labor and equipment costs as well as the discovery of some issues the program may have to face as full scale installation moves forward. Details are included in Appendix G.

6.2. Data

During the pilot project data was gathered to determine the labor, equipment and parts costs for each meter installation. Labor costs were determined including overhead and parts costs included extra concrete where needed to replace damaged sidewalk.

The costs were further divided into the types of work done, meter setting or the installation of new copper service including a meter.

6.3. Results

Though there were many things that posed problems most proved to be minor and the overall project went well. When problems were encountered City personnel were able to find a solution and fine tune their processes for meter installation.

Some of the things that went wrong and may need to be addressed before the program moved forward were:

- Incorrect records for addresses and service type
- Existing utilities were found in various locations and water lines had to be plumbed over or under in many cases to complete installation
- Landscaping was affected in some areas despite locating the meters in the sidewalks
- Street maintenance wants all damaged sidewalk adjacent to meter boxes replaced if broken, whether damaged by the meter connection or not. This took time to determine in which areas the replacements would be necessary and to work through billing issues associated with this cost.

Costs associated with the pilot program varied by location based on difficulty of installation and existing condition of the service; the average costs are summarized below.



Description of Work	Average Cost	Total Cost
Install Meter Setter	1,049.51	86,059.94
New Copper Pipe	1,864.27	104,399.23
<i>Pilot Totals</i>	<i>1,380.14</i>	<i>190,459.17</i>

Appendix A

Assembly Bill (A.B.) 2572

Assembly Bill No. 2572

CHAPTER 884

An act to amend Section 521 of, to amend and renumber Sections 110 and 111 of, to add Sections 527, 528, 529, and 529.5 to, and to add the heading of Article 3.5 (commencing with Section 525) to Chapter 8 of Division 1 of, the Water Code, relating to water.

[Approved by Governor September 29, 2004. Filed with Secretary of State September 29, 2004.]

LEGISLATIVE COUNSEL'S DIGEST

AB 2572, Kehoe. Water meters.

Existing law generally requires the installation of a water meter as a condition of water service provided pursuant to a connection installed on or after January 1, 1992. Existing law declares that the state goal for measurement of water use is the achievement, on or before January 1, 1992, of the installation of water meters on all new water service connections after that date to systems owned or operated by a water purveyor.

This bill, with certain exceptions, would require an urban water supplier, as defined, on or before January 1, 2025, to install water meters on all municipal and industrial water service connections that are located in its service area.

The bill would require an urban water supplier, beginning on or before January 1, 2010, but subject to certain exceptions, to charge each customer that has a service connection for which a water meter has been installed, based on the actual volume of deliveries, as measured by a water meter.

The bill would require a water purveyor that becomes an urban water supplier on or after January 1, 2005, to install water meters on all municipal and industrial water service connections within 10 years of becoming an urban water supplier, and, with a certain exception, to charge each customer for which a meter has been installed, based on the actual volume of water delivered, as measured by the water meter, within 5 years of becoming an urban water supplier.

The bill would provide that these provisions supersede and preempt all enactments, including charter provisions and amendments thereto, and other local action of cities and counties, including charter cities and charter counties, and other local public agencies that conflict with these provisions, other than enactments or local action that impose additional or more stringent requirements regarding matters set forth in the bill.



The bill, on and after January 1, 2010, would require an urban water supplier that applies for financial assistance from the state for a wastewater treatment project, drinking water treatment project, or water use efficiency project, or a permit for a new or expanded water supply, to demonstrate that the applicant meets certain requirements.

The bill would authorize a water purveyor, including an urban water supplier, to recover the cost of providing services related to the purchase, installation, and operation of a water meter from rates, fees, or charges.

The people of the State of California do enact as follows:

SECTION 1. Section 110 of the Water Code is amended and renumbered to read:

525. (a) Notwithstanding any other provision of law, every water purveyor who sells, leases, rents, furnishes, or delivers water service to any person shall require, as a condition of new water service on and after January 1, 1992, that a suitable water meter to measure the water service shall be installed on the water service facilities in accordance with this chapter. The cost of installation of the meter shall be paid by the user of the water, and any water purveyor may impose and collect charges for those costs.

(b) Subdivision (a) applies only to potable water.

(c) Subdivision (a) does not apply to a community water system which serves less than 15 service connections used by yearlong residents or regularly serves less than 25 yearlong residents, or a single well which services the water supply of a single-family residential home.

SEC. 2. Section 111 of the Water Code is amended and renumbered to read:

526. (a) Notwithstanding any other provision of law, an urban water supplier that, on or after January 1, 2004, receives water from the federal Central Valley Project under a water service contract or subcontract executed pursuant to Section 485h(c) of Title 43 of the United States Code with the Bureau of Reclamation of the United States Department of the Interior shall do both of the following:

(1) On or before January 1, 2013, install water meters on all service connections to residential and nonagricultural commercial buildings constructed prior to January 1, 1992, located within its service area.

(2) On and after March 1, 2013, or according to the terms of the Central Valley Project water contract in operation, charge customers for water based on the actual volume of deliveries, as measured by a water meter.

(b) An urban water supplier that receives water from the federal Central Valley Project under a water service contract or subcontract



described in subdivision (a) may recover the cost of providing services related to the purchase, installation, and operation and maintenance of water meters from rates, fees, or charges.

SEC. 3. Section 521 of the Water Code is amended to read:

521. The Legislature further finds and declares all of the following:

(a) Water furnished or used without any method of determination of the quantities of water used by the person to whom the water is furnished has caused, and will continue to cause, waste and unreasonable use of water, and that this waste and unreasonable use should be identified, isolated, and eliminated.

(b) Water metering and volumetric pricing are among the most efficient conservation tools, providing information on how much water is being used and pricing to encourage conservation.

(c) Without water meters, it is impossible for homeowners and businesses to know how much water they are using, thereby inhibiting conservation, punishing those who conserve, and rewarding those who waste water.

(d) Existing law requires the installation of a water meter as a condition of water service provided pursuant to a connection installed on or after January 1, 1992, but the continuing widespread absence of water meters and the lack of volumetric pricing could result in the inefficient use of water for municipal and industrial uses.

(e) The benefits to be gained from metering infrastructure are not recovered if urban water suppliers do not use this infrastructure.

(f) This chapter addresses a subject matter of statewide concern. It is the intent of the Legislature that this chapter supersede and preempt all enactments and other local action of cities and counties, including charter cities and charter counties, and other local public agencies that conflict with this chapter, other than enactments or local action that impose additional or more stringent requirements regarding matters set forth in this chapter.

(g) An urban water supplier should take any available necessary step consistent with state law to ensure that the implementation of this chapter does not place an unreasonable burden on low-income families.

SEC. 4. The heading of Article 3.5 (commencing with Section 525) is added to Chapter 8 of Division 1 of the Water Code, to read:

Article 3.5. Metered Service

SEC. 5. Section 527 is added to the Water Code, to read:

527. (a) An urban water supplier that is not subject to Section 526 shall do both the following:



(1) Install water meters on all municipal and industrial service connections located within its service area on or before January 1, 2025.

(2) (A) Charge each customer that has a service connection for which a water meter has been installed, based on the actual volume of deliveries, as measured by the water meter, beginning on or before January 1, 2010.

(B) Notwithstanding subparagraph (A), in order to provide customers with experience in volume-based water service charges, an urban water supplier that is subject to this subdivision may delay, for one annual seasonal cycle of water use, the use of meter-based charges for service connections that are being converted from nonvolume-based billing to volume-based billing.

(b) A water purveyor, including an urban water supplier, may recover the cost of providing services related to the purchase, installation, and operation of a water meter from rates, fees, or charges.

SEC. 6. Section 528 is added to the Water Code, to read:

528. Notwithstanding Sections 526 and 527, any water purveyor that becomes an urban water supplier on or after January 1, 2005, shall do both the following:

(a) Install water meters on all municipal and industrial service connections located within its service area within 10 years of meeting the definition of urban water supplier.

(b) (1) Charge each customer for which a water meter has been installed, based on the actual volume of water delivered, as measured by the water meter, within five years of meeting the definition of urban water supplier.

(2) Notwithstanding paragraph (1), in order to provide customers with experience in volume-based water service charges, an urban water supplier that is subject to this subdivision may delay, for one annual seasonal cycle of water use, the use of meter-based charges for service connections that are being converted from nonvolume-based billing to volume-based billing.

(c) For the purposes of this article, an “urban water supplier” has the same meaning as that set forth in Section 10617.

SEC. 7. Section 529 is added to the Water Code, to read:

529. (a) This article addresses a subject matter of statewide concern.

(b) Subject to subdivision (c), this article supersedes and preempts all enactments, including charter provisions and amendments thereto, and other local action of cities and counties, including charter cities and charter counties, and other local public agencies that conflict with this article.



(c) This article does not supersede or preempt any enactment or other local action that imposes additional or more stringent requirements regarding matters set forth in this article.

SEC. 8. Section 529.5 is added to the Water Code, to read:

529.5. On and after January 1, 2010, any urban water supplier that applies for financial assistance from the state for a wastewater treatment project, a water use efficiency project, or a drinking water treatment project, or for a permit for a new or expanded water supply, shall demonstrate that the applicant meets the requirements of this article.

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Appendix B
City Council Items

Appendix B1

Implementation Options for Citywide Water Meter Installation:
Water Meter Workshop November 2004



Department of Utilities
Office of the Director

CITY OF SACRAMENTO
CALIFORNIA

1395 35th Avenue
Sacramento, CA 95822-2911
phone (916) 808-1400
fax (916) 808-1497/1498

October 27, 2004

City Council
Sacramento, California

Honorable Members in Session:

**SUBJECT: IMPLEMENTATION OPTIONS FOR CITYWIDE WATER METER
INSTALLATION**

LOCATION AND DISTRICT: D-ALL

RECOMMENDATION:

For Council Information and direction to staff on options for installing water meters throughout the City.

CONTACT PERSON: Gary Reents, Director, 808-1433
Jessica Hess, Media and Communications Specialist, 808-8260

FOR COUNCIL MEETING OF: November 4, 2004

SUMMARY:

With the passage of A.B. 2572, the State has mandated that cities install water meters on all properties by January 1, 2025. City Staff has researched several options for installing and financing the implementation of water meters throughout Sacramento and is looking for Council guidance on which options to pursue.



CITY OF SACRAMENTO
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Making a Difference in Your Neighborhood

COMMITTEE/COMMISSION ACTION:

None

BACKGROUND INFORMATION:

- A.B. 2572 was passed by the Legislature on August 26, 2004 and signed by Governor Schwarzenegger on September 29, 2004.
- A.B. 2572 requires that water meters be installed on all properties served by an urban water service provider, of which the City of Sacramento Department of Utilities is one.
- Water meters must be installed on all properties by January 1, 2025.
- Customers must begin being billed on a metered rate beginning January 1, 2010 or after 1 calendar year of meter installation.
- The Department of Utilities estimates that 100,000 meters will need to be installed throughout the City to meet the requirements of this law.
- The Department of Utilities also recommends moving backyard water mains to the front, on the lifecycle of the main, for easier access to the meter and easier maintenance of the pipe and meter. In areas where mains need to be moved, water meters would be installed as part of the construction process.

In response to the passage of A.B. 2572, City Staff has researched several options for implementation and financing of meter installation. The options are based on the need to finish installation by 2025 and on the existing infrastructure.

Options for installation, implementation, and financing will be presented in a Power Point Presentation in the workshop.

Staff also researched options for educating the public regarding the installation of water meters and water conservation. A suggested plan for communication with ratepayers includes bill inserts, direct mail, and a packet to be left with homeowners upon installation of the meter. A detailed description of the outreach plan will be included in the Power Point presentation at the workshop.

FINANCIAL CONSIDERATIONS:

The total cost for installation of water meters and moving of backyard mains is approximately \$300 million, approximately \$100 million to install meters and approximately \$200 million to abandon backyard mains and install new mains in the front of homes that require such work.

City Council
Water Meter Workshop
October 26, 2004

Financing Options include:

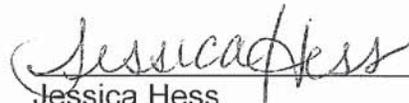
- Pay as you go
- Capital Financing
- Customer pays for the cost of installation, either now or at change of ownership.

ENVIRONMENTAL DETERMINATION: No environmental impacts at this time.

POLICY CONSIDERATIONS: A.B. 2572 requires that water meters be installed on all properties before January 1, 2025 and that customers begin being billed on a metered rate on January 1, 2010 or at the end of one calendar year after meter installation.

ESBD CONSIDERATIONS: None at this time.

Respectfully submitted,



Jessica Hess
Media and Communications Specialist

RECOMMENDATION APPROVED:



Robert P. Thomas
City Manager

APPROVED:



Gary A. Reents
Director of Utilities

ITEM 15.1

Water Meter Workshop

November 4, 2004



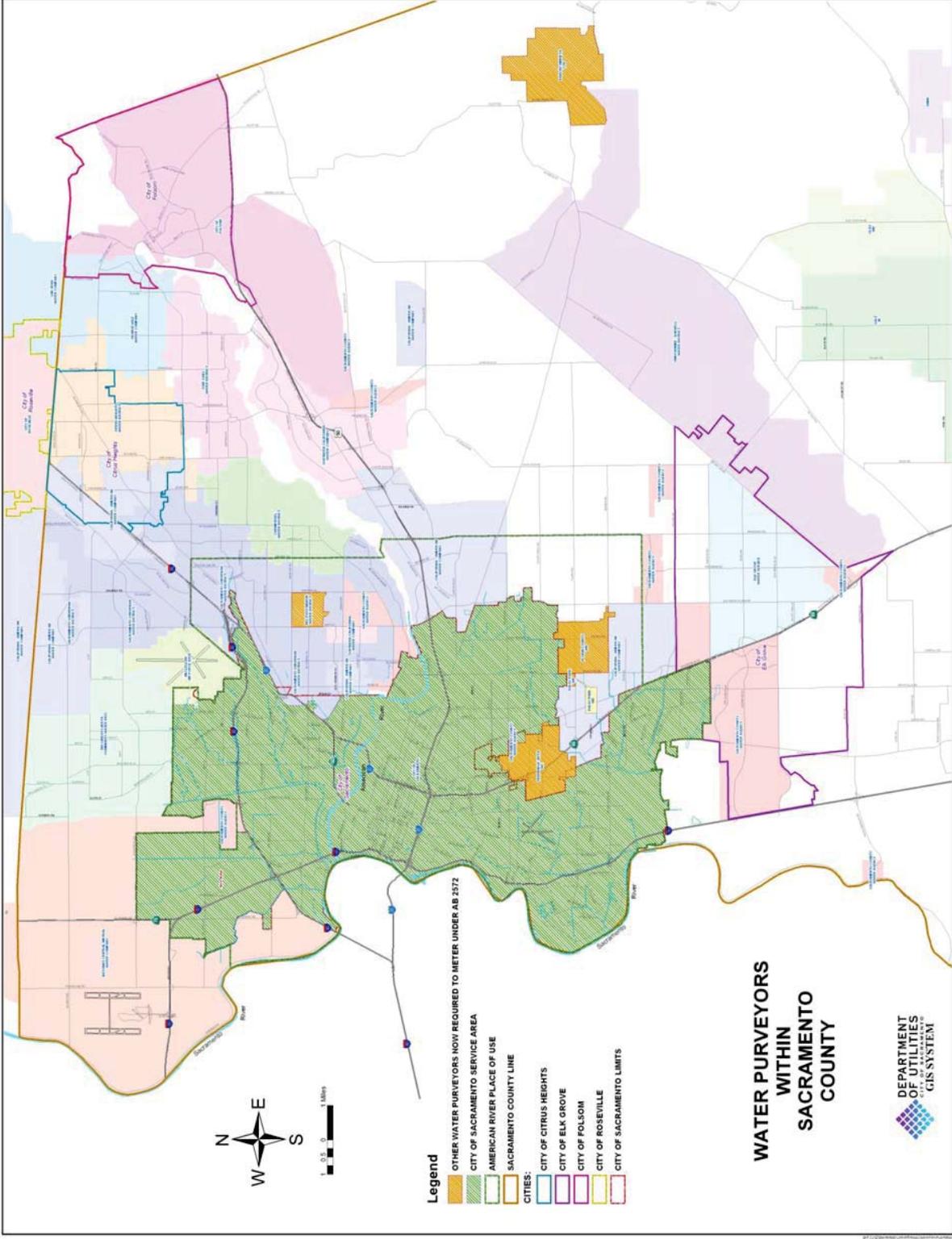
CITY OF SACRAMENTO
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Background

- A.B. 2572 requires cities throughout California to install water meters on all residential properties by January 1, 2025.
- A.B. 2572 requires that customers with meters be charged on a metered rate beginning January 2010.
 - Customers who have meters installed after January 2010 will have one year of comparison billing and then will be billed on a metered rate.

What A.B. 2572 means to the City of Sacramento

- In order to comply with A.B. 2572, the City will have to install 100,000 water meters within city limits.
- City plans to relocate backyard mains and install meters on residences when main moved to the front.
- Estimated total cost, including moving mains to the front of the property is \$300 million.



What will Water Meters Change?

- Water meters have the potential to change average customer water usage.
 - Customers now have a way to measure their usage and change it as a needed.
- Water meters have the potential to impact revenue from rates.
 - If customers use less water, there is the potential for less revenue from rates.

Impacts on Sacramento Area Water Purveyors with Meters

- Most other communities who currently use meters in Sacramento area have little or no data about water usage, since they have had meters and comparison billing for less than a year.
 - Even fewer have information about what usage changes mean in terms of rate revenue because many are not billing on a metered rate yet.



Next Steps

- City Staff has researched options
 - Installation
 - Implementation
 - Outreach to Customers
 - Financing
- This workshop is for Council to provide recommendations and feedback for implementing A.B. 2572

Installation

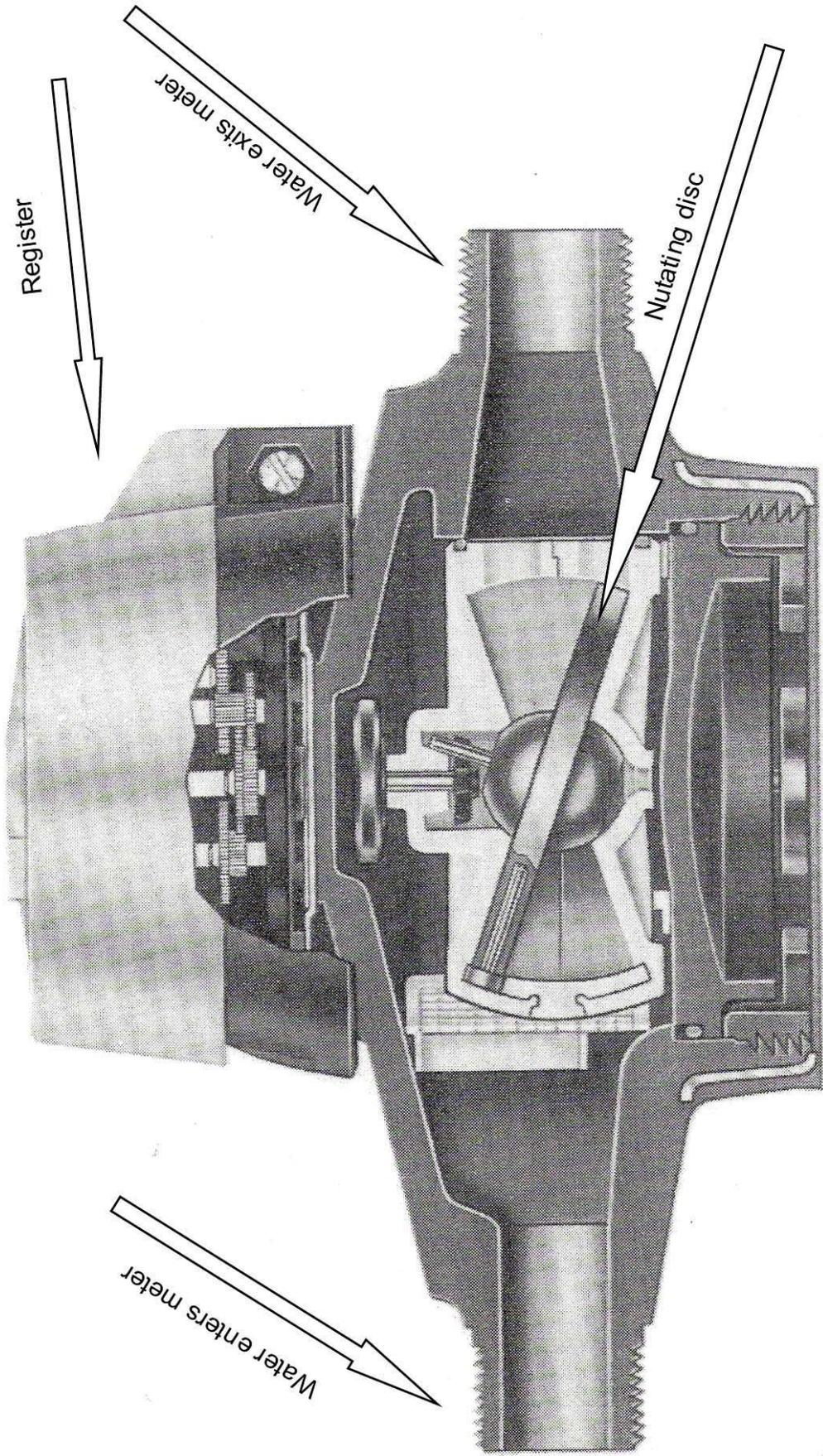


Installation Plan

- Water Meters
- Reading a Meter
- Components of a Water Service
- Types of Retrofits
- Options
- Impact on Pressure and Flow
- Retrofit Duration

How Does a Water Meter Work?

- Water enters the meter and goes into the measuring chamber.
- The water causes the disc in the chamber to rotate.
- Magnets are moved by the disc causing the register to move.





Register



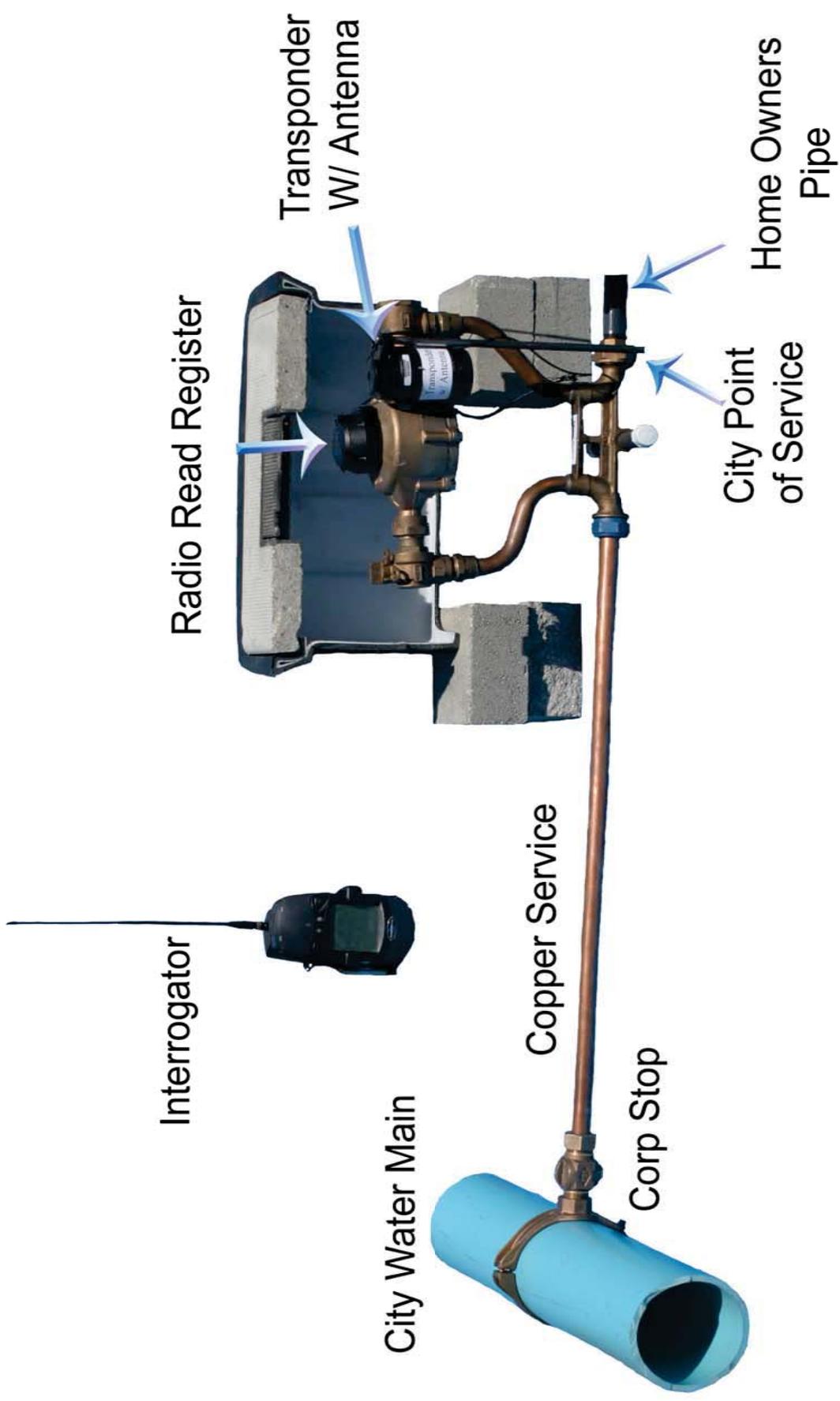
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Reading a Meter

- The register dial face displays the amount of water that has passed through the meter.
- Register features a red sweep hand.
- 1 rotation of red hand= 1 cf= 7.48 gal.
- Row of numbers records how many rotations red hand makes.

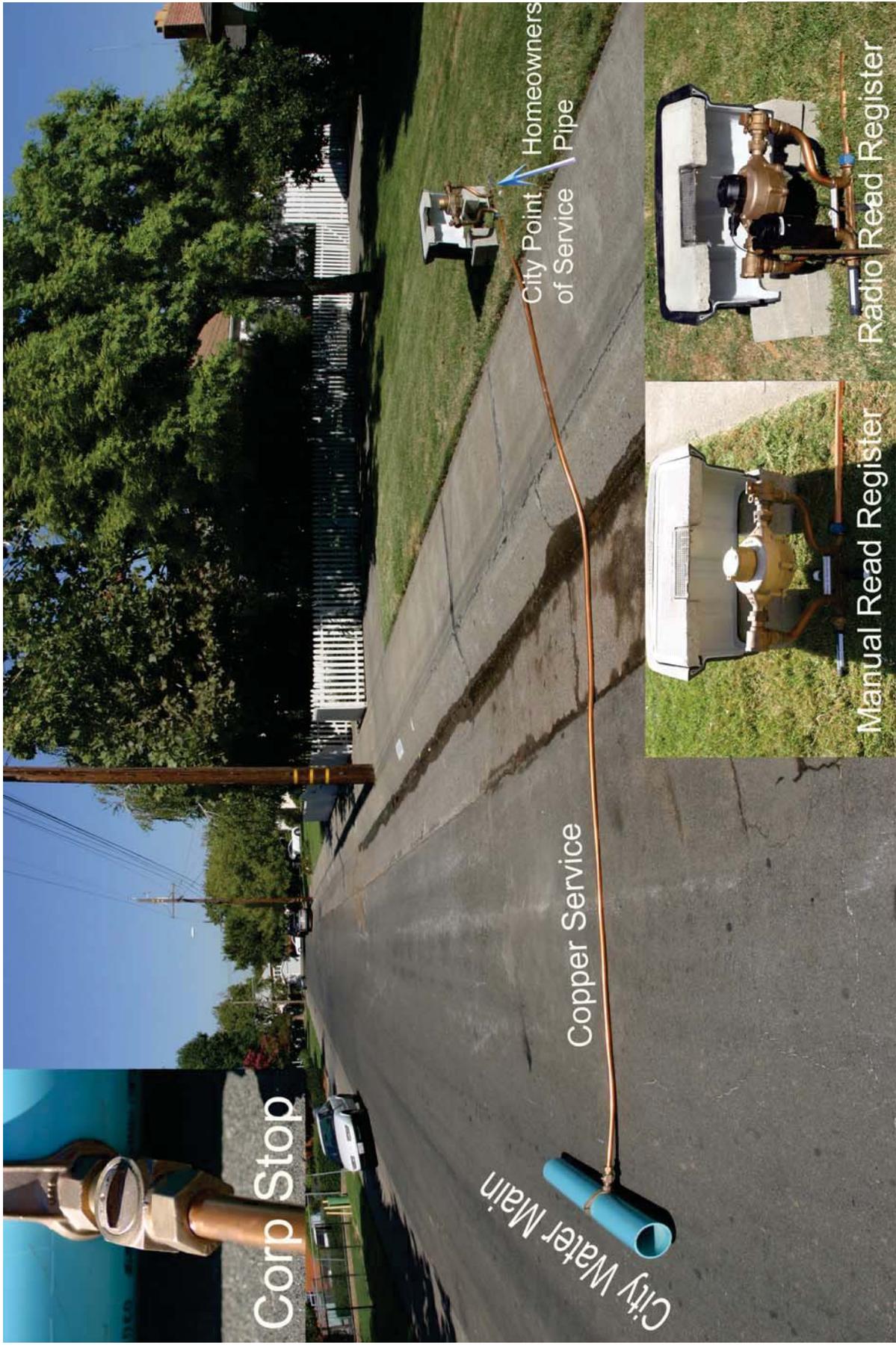
Reading a Meter, Cont.

- Dial face also features a small blue dial.
 - Blue dial is a leak detector.
 - If water is turned off in the house and the blue dial is moving, a leak is indicated.
- The register can be used to confirm the radio read and for customers to track their usage.



Components of a Service Installation

- Main
- Corp Stop
- Pipe
- Meter



Four Installation Types

- Standard Retrofit
- Retrofit with Service Replacement
- Main Replacement
- Drop-In

Installation Type-Standard Retrofit

- Existing service with an existing water main in the street fronting the house.
- Service must be dug up, meter and meter box added.
- Cost – Approximately \$1,200.

Overhead - Drawing of Standard Retrofit



Installation Type- Service Replacement

- Existing service and main in front.
- Service must be replaced because of obsolete or deteriorated material.
- Service replacement in the same location.
- Cost – Approximately \$2,200.

Overhead - Drawing of Retrofit With Service Replacement



Installation Type- Main Replacement

- Relocating mains from backyards to the street.
- Meter will be installed after mains are installed.
- Cost – Approximately \$2,000.

Overhead - Drawing of Main Replacement Installation



Installation Type- Meter Drop- In

- Approximately 1,400 services have meter boxes and meter setters with a bypass pipe installed from previous CIPs.
- Installation requires crew to remove bypass pipe and install meter.
- Cost - Approximately \$500.



Overhead - Drawing of Drop- In Installation



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Options to Standard Retrofits

Option #1

- Customer can request their service to be moved, but it will be expensive.
- Cost – It will cost them approximately \$500-\$1,500 for the City service to be moved.
- Cost – The customer service line will have to be moved to the new location – Approximately \$40 per linear foot.

Overhead - Drawing of Option #1



Options to Standard Retrofits

Option #2

- Customers service may need to be replaced because it is made of obsolete or deteriorated material.
- Cost – Approximately \$40 per linear foot.

Overhead - Drawing of Option #2



Impacts on Pressure and Flow

- Adding a water meter will not significantly impact pressure and flow.
- The pressure to a typical house is approximately 40 psi. With a meter, pressure loss is typically between 2.25 and 2.33 psi. Maximum pressure loss is 6 1/2 psi at 50 gpm.
- Causes an approximate 1% change in the flow rate.
- Homes with internal galvanized pipes may notice a slightly higher change in pressure due to older pipes.

Retrofit Duration and Service Interruption

- Most retrofits will be completed within two weeks, as contractor will do 1 block at a time
- Lawn areas will be made safe each day. Yards will be restored to it original state to the best of contractors' ability at end of project.
- Streets will be backfilled the same day or plated with steel plates. Backfill will be covered with temporary asphalt until the end of the project when permanent asphalt is added.

Retrofit Duration and Service Interruption, Cont.

- Service interruptions will generally be 4 hours or less.



Service Renewal With Meter Installation



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Implementation



Program Objectives

- Install water meters and pipelines in a timely and efficient manner
- Minimize disruption to the community during construction
- Improve the water service to our customers

Project Types

- Meter Installation - Existing Box and Setter
 - 1,700 Residential Services
 - Estimated Cost - \$1M
- Meter Retrofit – Existing Service in Front Yard
 - 62,700 Residential Services
 - 1,600 Apartments & Condos
 - Estimated Cost - \$103M
- Pipeline Replacement & Meter Installation (Backyard Mains – Expire within next 20 yrs)
 - 177 Miles of Pipeline
 - 34,000 Residential Services
 - Estimated Cost - \$196M



Implementation Plan

- Create 144 new projects over a 20 year period. Approximately 7 to 8 new projects a year.
 - 60 Meter Retrofit Projects. Projects grouped into 1,000 services.
 - 84 Pipeline Replacement Projects. Projects grouped into 60 acres and approx. 400 services.
- Estimated cost \$300 million. Approximately \$15 M per year



Implementation Criteria to Meet Objectives

- Replace backyard mains
- Disseminate projects throughout the City
- Sequence projects in a contiguous manner

Establish Starting Point with Backyard Mains that have a Leak History

- Backyard mains with history of leaks are considered highest priority projects
- This placed the majority of the high priority projects in three major areas of the City - Land Park, Meadowview, and East Sacramento

Disseminate Projects Throughout the City

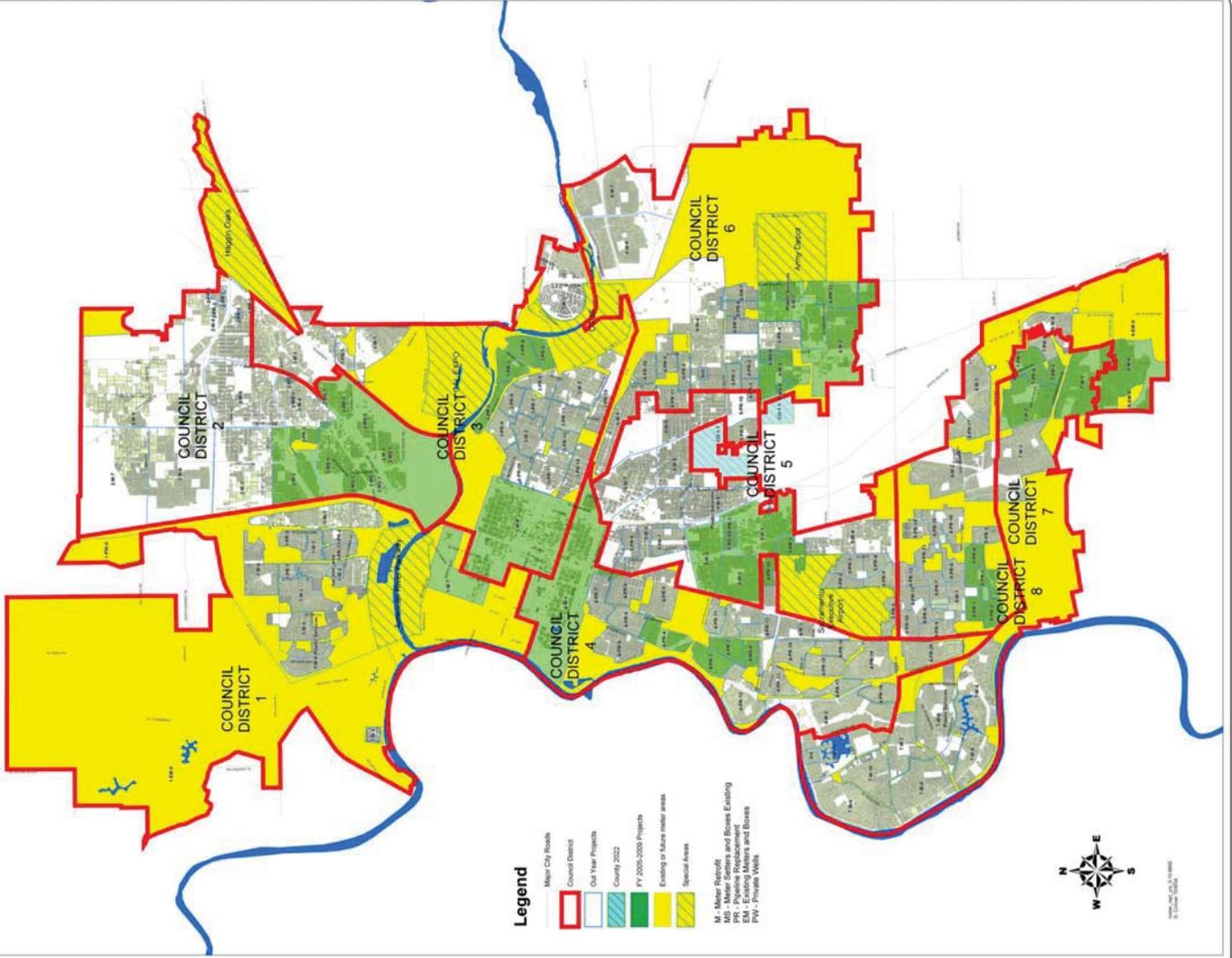
- We limited one backyard main project per community per year to minimize disruption to the community
- Established community boundaries as Council District boundaries

Contiguous Project

- Once the first project was established within a District, the following projects about one another
- Creates efficient meter reading routes and easier to track progress of work

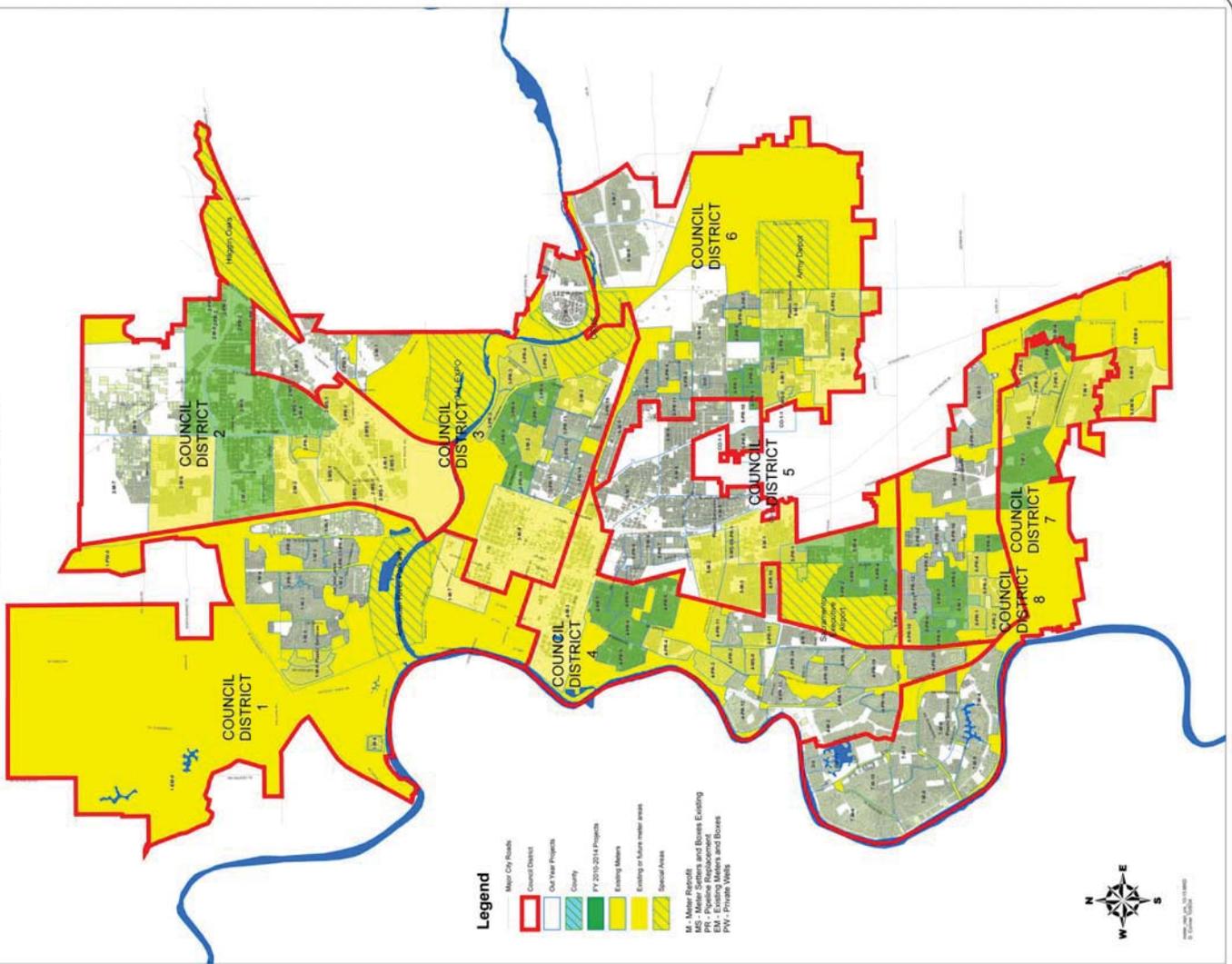
EXAMPLE

METER RETROFIT - IMPLEMENTATION YEARS 2005-2009



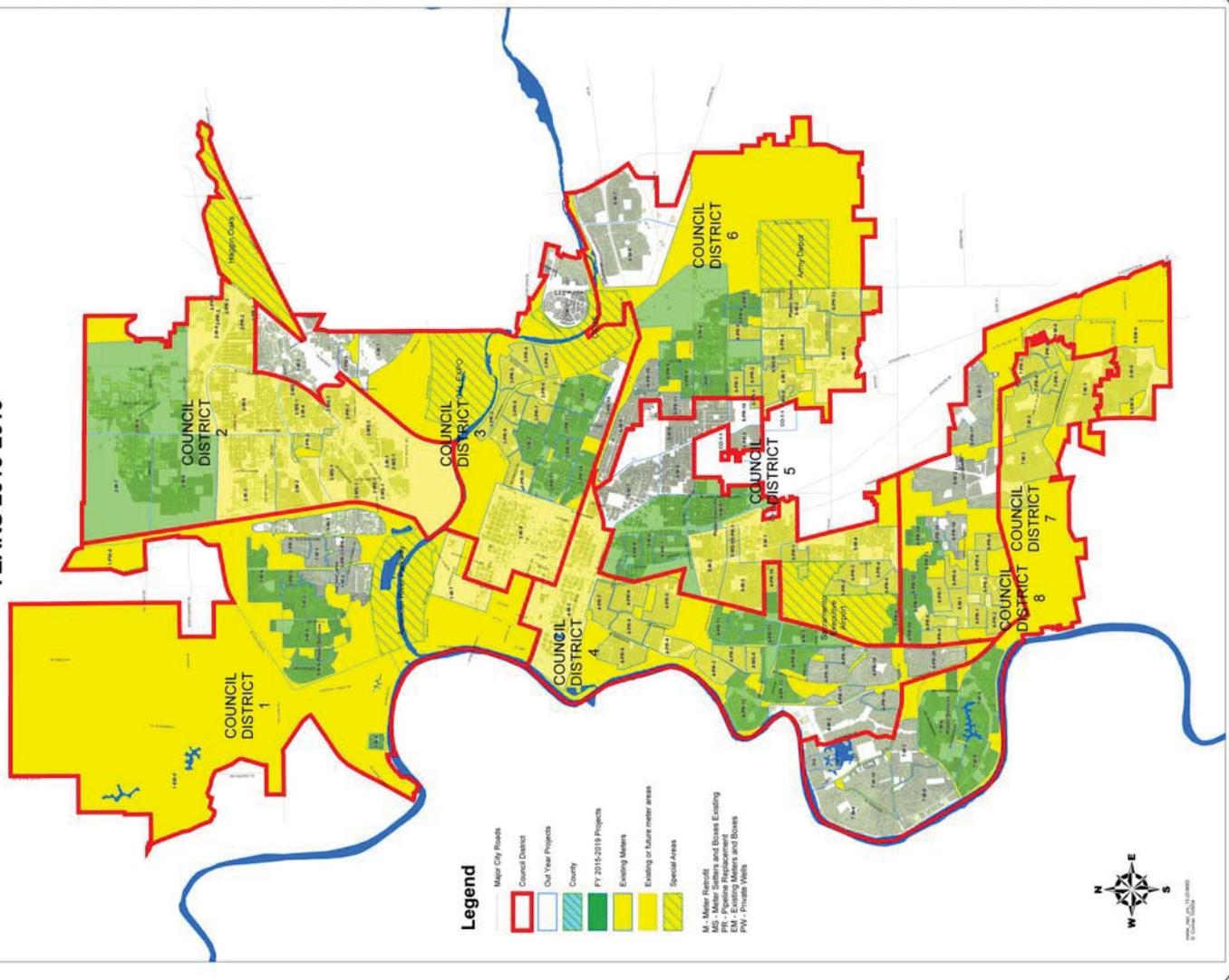
EXAMPLE

METER RETROFIT PROGRAM - IMPLEMENTATION YEARS 2010-2014



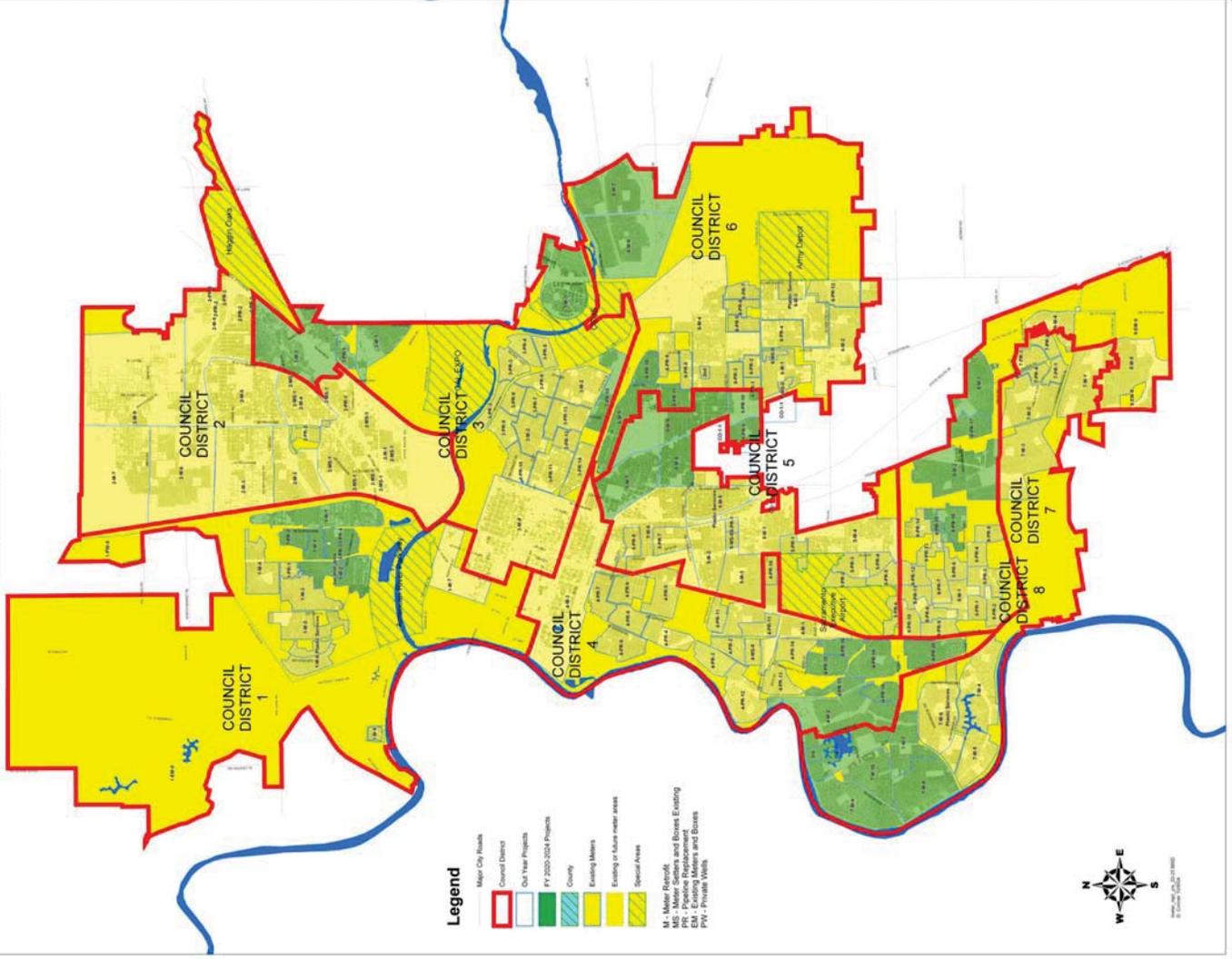
EXAMPLE

METER RETROFIT PROGRAM - IMPLEMENTATION YEARS 2015-2019



EXAMPLE

METER RETROFIT PROGRAM - IMPLEMENTATION YEARS 2020-2024



Communication and Outreach

Customer Outreach Plan

- Designed to be neighborhood oriented
- Designed to take into account diversity of Sacramento

Customer Outreach Plan

- Citywide Activities
- Neighborhood Activities
- Post- Installation Activities
- Metered Rate Communication
- Conservation Education



Citywide Activities

- Refine Communication Plan to further its effectiveness.
- Research
 - Phone survey of 400 Utilities customers to assess knowledge of meters and water conservation
- Develop Message Points
- Media Relations
- Develop Multi-Lingual Outreach Ideas

Citywide Activities, Cont.

- Frequently Asked Questions
 - Internal
 - External
- Website
- Hotline
- Direct Mail
 - Bill Stuffers
 - Water Spots (biannual newsletter)

Neighborhood Activities

- Media Relations to neighborhood outlets
- Community Meetings
- Door Hangers
- Direct Mail
 - Postcard mailings to homes directly impacted by work
 - Will list DOU project manager and phone number to reach that individual

Post Installation Activities

- Neighborhood Based
- Brochures
- Installation Packets
 - Information regarding meter and meter reading
 - Contact information
 - How to read comparative bill
 - Water efficiency information and tools

Metered Rate Communication

- Brochure explaining a comparative bill will be given to all customers when meter is installed
- Methods of communication to be determined over the next 5 years, as meters are installed.
 - Allow time to review phone research
 - Allow time to determine changes in usage patterns, if any.

Conservation Education

- The following services of the Water Conservation Office will be stressed in communications with customers
 - Water Wise House Calls
 - Toilet Rebate Program
 - Water Conservation Kit Program



Free

WATER-WISE
HOUSE CALLS



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This is a first-come,
first-served program,
so apply for your rebate today!

Participating Agencies

- Arden-Cordova Water Service*
- Citrus Heights Water District*
- Fair Oaks Water District*
- City of Folsom*
- The Regional Water Authority*
- City of Sacramento*
- Sacramento County Water Agency*
- Sacramento Regional County Sanitation District*
- Sacramento Suburban Water District*
- San Juan Water District*



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Financing

Costs

- Total Costs for Meter Retrofit Project= \$300M
 - Meter Installation - Existing Box and Setter
 - Estimated Cost - \$1M
 - Meter Retrofit – Existing Service in Front Yard
 - Estimated Cost - \$103M
 - Pipeline Replacement (Backyard Mains)
 - Estimated Cost - \$196M

Financing Options

- Customer pays
 - Charge directly to customer
 - Change of ownership
- Pay as you go
- Capital Financing

Customer Pays- Direct Bill

- Bill would be sent to the customer for the cost of installing a meter.
- Ranges from \$500 to \$2200 for a standard install

Customer Pays- Change of Ownership

- City collects money from escrow when the home changes hands.
 - Nationwide, a home changes hand once every 6 years.
 - Provides an inefficient installation and reading routes.
 - How do we handle homes that do not change hands during the 20 years?

Other Options

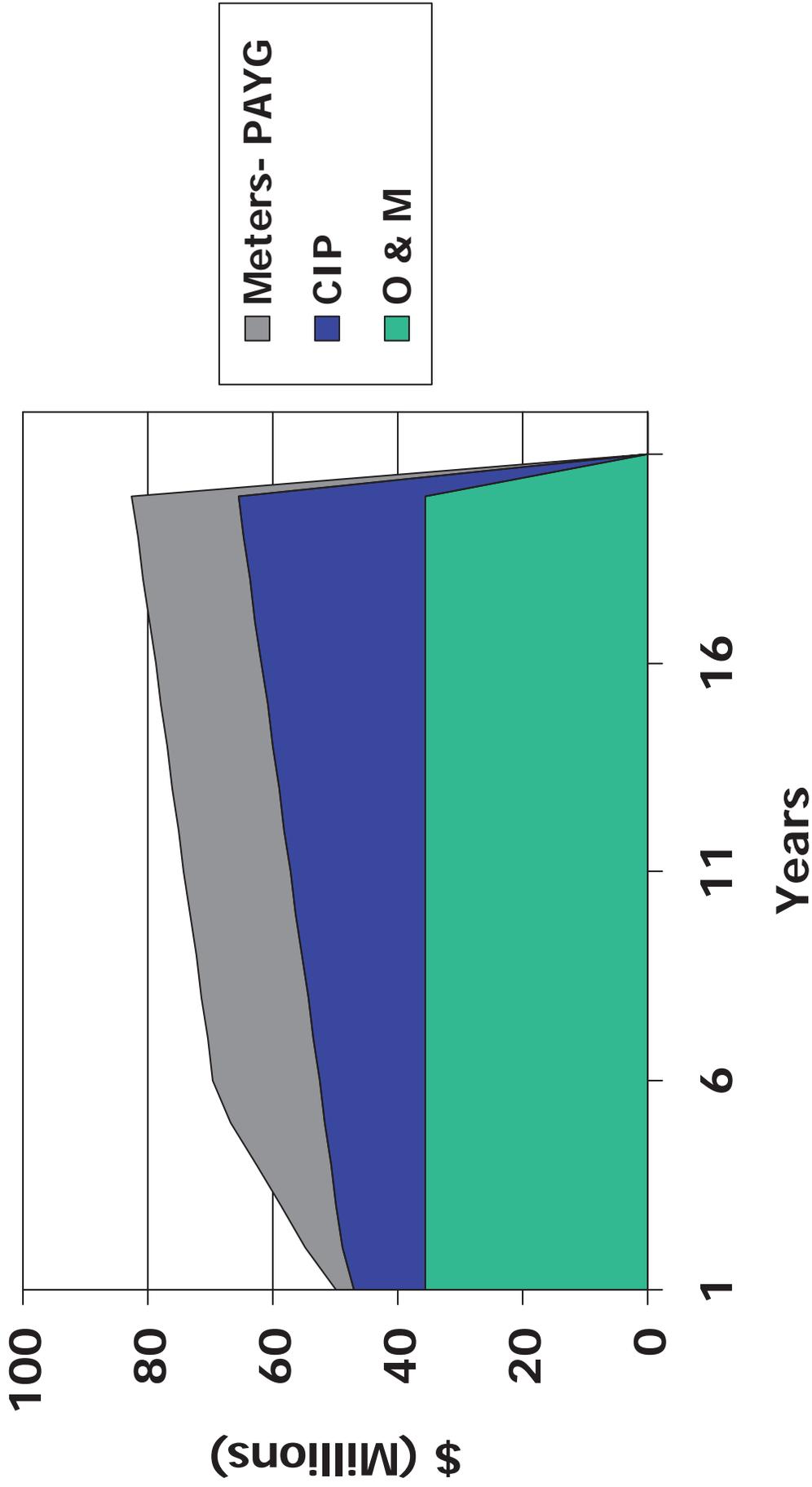
- Allow City to install meters in a timely fashion without total cost being given to customer all at once.
 - Pay-As-You-Go
 - Financing

Water Meter Spending Plan

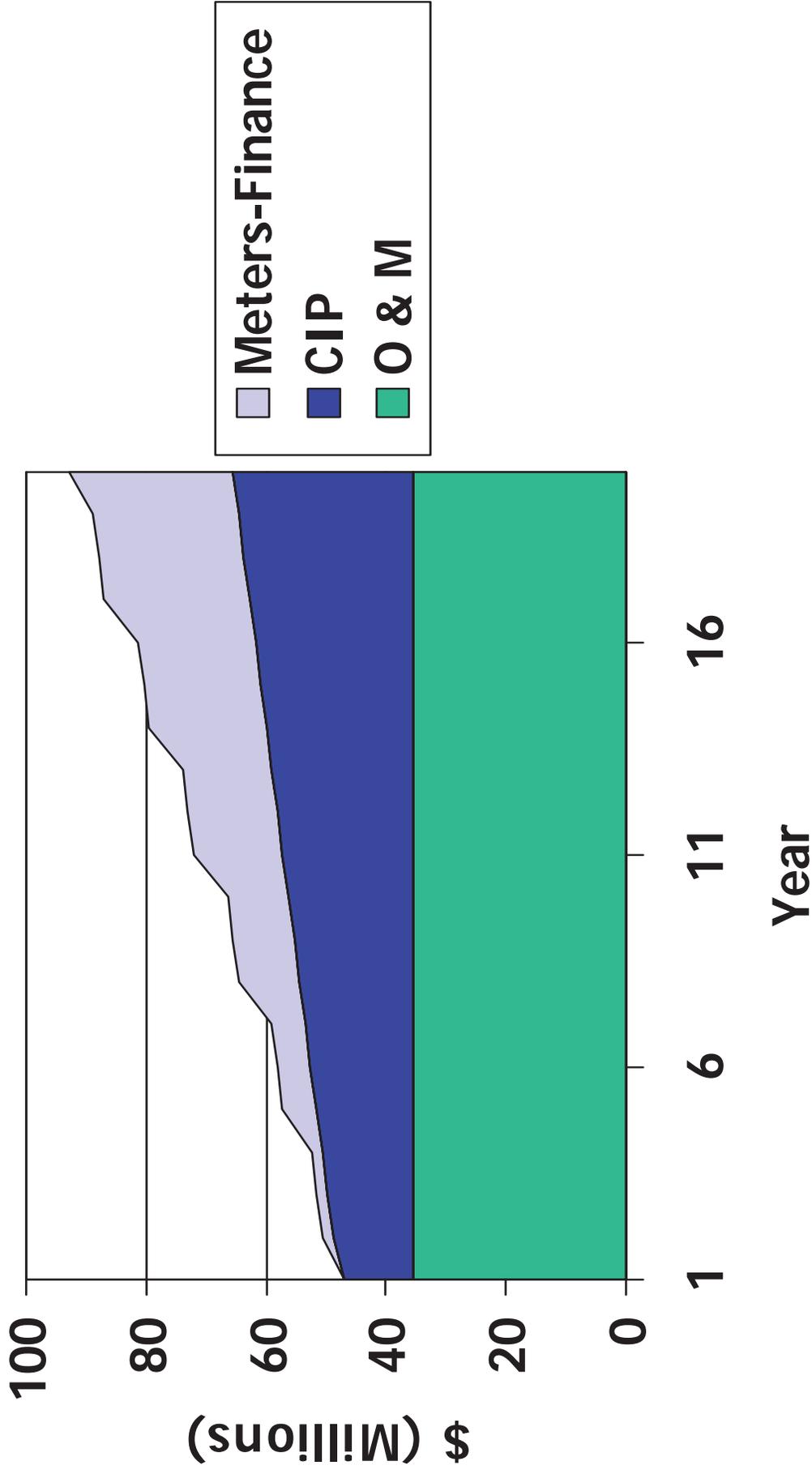
Year	Pay-As-You-Go	Financing
1	\$3M	\$0
2	\$6M	\$1.7M
3	\$9M	\$1.7M
4	\$12M	\$1.7M
5	\$15M	\$5.6M
6-20	\$17M (per year)	\$5.6M-\$27.2M (per year)
TOTAL	\$300M	\$555.4M



Spending Plan



Spending Plan



Pay-As-You-Go: Customer Bills

Year	Rate Increase
2005-2006	12%
2006-2007	12%
2007-2008	12%
2008-2009	11%
2009-2010	11%
2010-2011	9%
2011-2025	6%



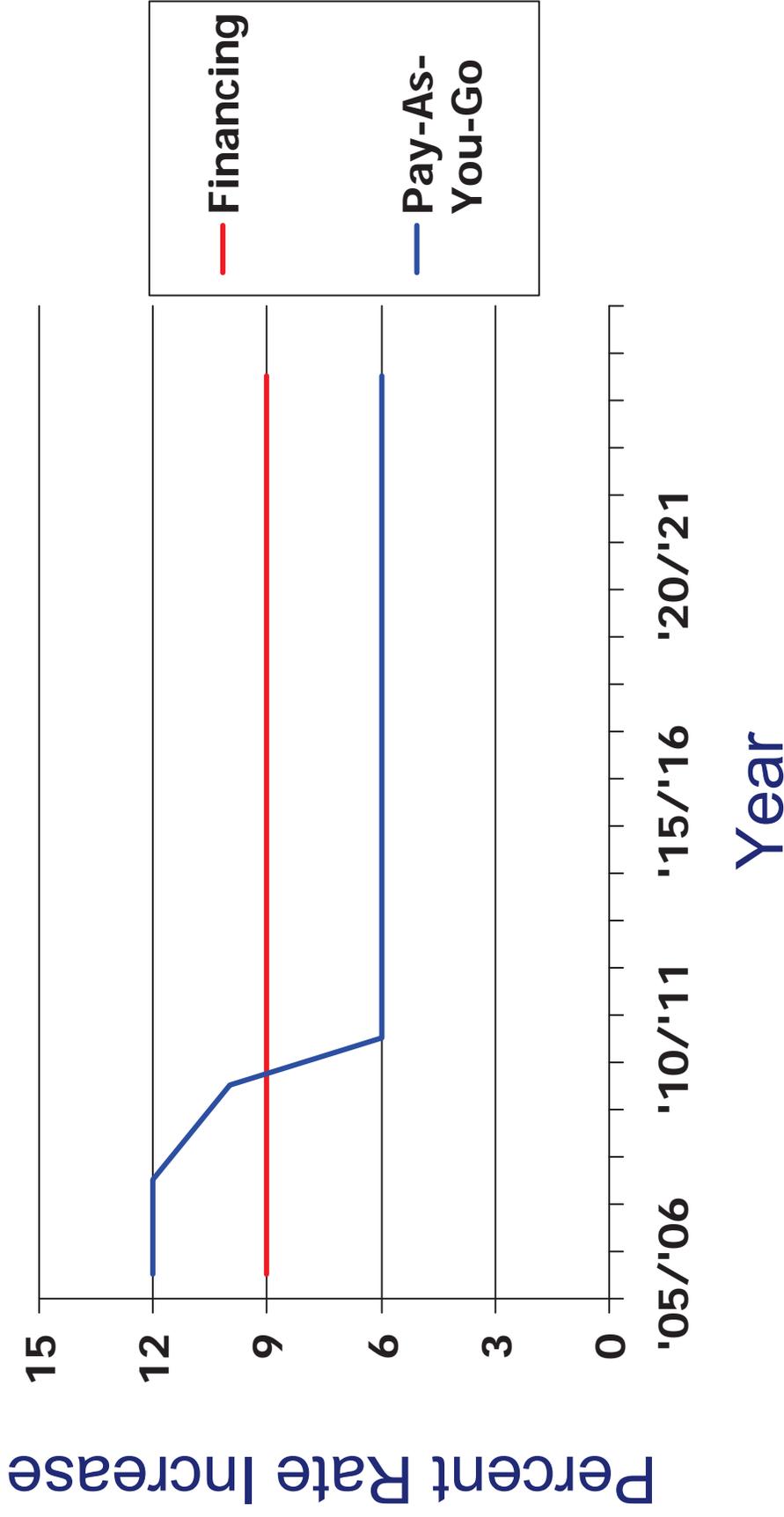
Capital Financing: Customer Bills

Year	Rate Increase
2005-2025	9%

This assumes:

- 3 year draw schedule over 20 years
- 40 years repayment
- 6.5% interest rate for 20 year bonds

Pay As-You-Go vs. Financing



Pay-As-You-Go vs. Financing

	Pay-As-You-Go	Capital Financing
Total Cost	\$300 Million	\$555.4 Million
	More Intense Rate Increases for a Shorter Period of Time.	Smaller and Steady Rate Increases Over Time, Incurs Debt.



Installation**Angela**

Mayor Fargo questioned the terms. We may want to rename the devices to laymen terms or provide a glossary.

Cohn asked about the variation in the type of service. Response was that it depended on the type of pipe.

Slide 23, the cost reflects \$2,000. Is this the total cost? What did it include? The cost did not include the main installation. The reduced amount reflects the economy of scale when moving the main from the backyards to the front yards.

Slide 27, Why would there be an additional cost to move the service when the service already needs to be moved? The additional costs are incurred when the service is moved to another location and piping will need to be installed to accommodate.

Slide 31, galvanized pipes are generally in older homes, and would affect those areas in Lauren Hammond's district. What can be done for her constituents?

Emphasis was made to make the transition flexible for homeowner, also the need to be flexible on the cost to the homeowner. They were concerned about the number of complaints. They also think there should be a focus group to do some pilot testing. The focus group should be set up in several areas/neighborhoods. Can we mark the anticipated location of the meter so the homeowner can make the decision if they want to move it at their expense or not? Marking a location, the homeowner may be willing to pay an additional amount if they want to move it.

Council member Sheedy commented on the project in Woodlake. It went very smoothly, and any complaints were handled efficiently. The outreach was extensive, and it was very important to have a contact person, one who was available to address concerns and questions. Warren Peterson did a great job and was responsive to the homeowners concerns and complaints.

When we install the meter, who will decide where the meter is to be located? Movement of the meter is associated with a cost. The department of Utilities is willing to investigate the various options, for the city and homeowners.

What are most cities doing? Are they installing the meters in the middle of the property? Some are and some are installing them in the sidewalk.

Jessica

Steve Cohn asked for flexibility in placement of meters up to a certain distance.

Syed**Slide 23**

Is \$2000 extra above \$1200 or total? GAR answered that it is the total estimated cost for a typical meter with main replacement

CM Cohn: Concerned older areas over 70 year would have older pipes. Will we change pipes?

Slide 27

Mayor Fargo: Is this option (\$500-\$1500) of service relocation applicable to all or does it depend on if the customer has meter?

Gary Hand: If the current service is in driveway and the customer wants to relocate away from the driveway, then, it would cost extra. \$40/lf would be the cost based on relocation distance.

Slide 31-34

CW Hammond concerned with older homes having galvanized pipe and losing pressure. GAR explained that if you have no problems now, then meter installation will not impact pressure or flow of water.

Mayor Fargo: Who decides where we will install meters?

Gary Hand: We plan to install at the existing service location . For new service it would be close to sidewalk (2-3 feet away from curb side).

CM Cohn: Suggested to allow some flexibility to homeowner on location decision. Select a focus group outreach for Pilot testing and opinion. He wants us to check with other cities that have done this and get more information.

GAR stated that we will allow flexibilities but wanted Council to be aware of expenditures.

Mayor Fargo: Pick several neighborhoods and mark proposed meter locations and seek opinions. Get our tree people involved.

GAR referred to CW Sheedy's area of installation/outreach/flexibility.

CM Sheedy praised the outreach program.

Mayor Fargo asked if her neighborhood be referred to customers as example.

Implementation

Angela

North Laguna is a newer community, when were meters installed? After 1992. North Natomas has a lot of DIY (Do-It-Yourselfers), is there an option for them to install the meters themselves? The city requires that the city install the meter, but the department will look into creating an option for them to expose the service line and install the meter box.

Would the relocation of mains help or hinder the pressure and flow? There are existing pressure and flow problems in Council member Pannell's district, would this add on top of the existing problem?

Cross-hatching indicates special areas, what are special areas? Industrial areas?

Need to clarify the neighborhood names, which are not consistent with the names that are used in by Council members.

Provide a larger map to view the details and impacts to each district.

Green areas are not just main relocations; meter drop-ins and replacements are included.

Utilize the graduates from the government academy for the focus group.

What are the white areas on the map? South of Meadowview? If they are identifying the school area, then you need to identify Valley Hi and North Laguna.

Jessica

Fargo/Cohn want blowups of maps by district and project maps

Asked that we be careful regarding neighborhood names, the names of areas given didn't match the map

Pannell asked if they could withhold install in her district until FEMA remap takes place to relieve burdens on her constituents.

Syed**Slide 43-48**

CM Tretheway: Said his neighborhood has many "Do it yourselves". Are we allowing this option?

GAR: We would consider but meter installation has to be done by the City.

Mayor Fargo: asked "special areas" definition.

Dan promised to get back with answer.

Mayor Fargo: asked to use commonly known neighborhood names so everyone is identifying the same area with the same name.

CM Cohn: For 05-09 period – asked if all four varieties of installations would be done? Also stated members would like a map w/backyard mains.

Mayor Fargo: suggested the rate increase project be referred to graduates of Management Academy focus group.

Dan needed to provide larger maps.

Communication and Outreach**Angela**

The internal FAQ are distributed to DOU only? Can we expand that to citywide, and specifically to the mayor and council offices? Yes.

Are we using a contractor for the outreach, because of the vastness of the project? Yes.

Hammond expressed the need for diversity in the phone survey and that some zip codes are not included in the phone survey.

Hammond joked about the toilet tummy, and not familiar with the concept on how it saves water or how to install it. Need to review the kit insert to verify instructions. May want to include the concepts on how to save water with the package. Also offered to send someone to help her install the toilet tummy.

Cohn did not realize that the ultra-low flush toilets are the only toilets you can buy. Has been that way since 1991-1992. Our rebate program has been in place for about a year and a half.

Jessica

Cohn as that we include a customer focus group to address implementation and rate issues. Fargo suggested the use of the City Management Academy grads.

A committee to help oversee outreach (in the area of rates) was also suggested. This would help to make sure that all areas of the community feel addressed.

Send FAQ's to Council and AA's.

Get ZIP's from Hammond's office

Karen

Citywide Frequently Asked Questions

Media Relations Outreach- Diversity, phone research

Syed

Slide 51

Mayor Fargo asked to distribute FAQ's city-wide.

CW Hammond asked if we would use outside sources for media communications? She also suggested to consider diversity in selection process.

Finance

Angela

Recommendation to have the dollar amount that impacts the average bill, not just percentages. Chart was too small to see on the overhead.

The concern was the impact of the cost to install meters and relocate mains. The rates quoted did not include any of the modifications or alternatives available to the homeowners. Try to keep the construction costs as low as possible. Least cost construction and need assurances.

What else is happening to the utility bill the overall bill, including sewer, etc?

Recommend looking at tiered rates. This will help with conservation, the reduction of consumption to reduce bills. Tiered rates can hit water guzzlers more. (This might present a problem, tiered rate do not promote water conservation.)

Recommend the development of a rate advisory committee, to include citizens.

Pay for new pipes and slower on the water meter installations. (Did not catch everything, so I'm not sure of the point that was made.)

Pannell – do not want to increase rates until her constituents see their flood insurance is cut in half.

Tiered rate approach to conserve.

Annual performance measurement

Positive benefit approach

Mayor Fargo – 10% is already metered, about 12,000 residential, and 10,000 commercial. Commercial is already on metered rates. Can we charge a reduced water rate for those homes that have already paid for their meter through their mortgage? Are we charging everyone for the retrofit? Make sure that when you develop the monthly service charge to include the fixed charges. Recommend that you take into consideration those that have paid for a meter already.

Steve Cohn – if we were to expand that concept to main installations, then we would be developing charges for the individual areas that benefit from the main replacement. It would be more difficult to handle the different rates for the different areas. We should look at what other cities that had to retrofit post-prop 218.

Would like more information on apartments and condominiums.

Explanation of 50 year and 100 year flood rating. The rating is not based on 1 flood event in 50 years, but that it a 1 in 50 chance or probability that it will flood.

Dan

- limit construction costs
- tiered rates
- rate advisory committee
- water use measures, annual reductions

Jessica

Cohn suggested rate advisory committee to look at the overall bills, tiered rates, and least cost construction methods.

Cohn asked that we look at how other cities handled meter retrofits.

Discussion of who will pay for meters/should people with meters already pay for those without? Mayor initially said no, Cohn reminded her of slippery slope.

Karen

Mayor- provide rate increase \$ amounts

- look at not passing cost to those who have an existing meter.
- think about how we assess those who pay on mortgage already.
- consider council overseeing outreach

Cohn- keep all costs down. Keep construction costs down for both payment methods.

- Use a different rate structure so that higher water users pay more and lower users who conserve are rewarded with lower rates.
- Utilize a rate advisory committee to help staff with decisions
- Concerned about charging different rates for different parts of the city
- Need to look at the other cities who have already done a retrofit and how they have done it.
 - Post-Prop 218
 - San Jose, CA

Hammond- go slower with 6% annual current on-going retrofits to help pay for meters

Pannell- no more rate increases until flood insurance can be cut in half due to FEMA remap.

Tretheway- likes tiered approach

- look at the global picture, annual performance compared to growth.

Syed

Slides 67-71

Mayor Fargo asked to explain the rate increase difference between "PAY AS YOU GO" and "financing."

GAR replied that the rate increase in the 1st 6 years would go from \$24 to \$38 under PAYGO option while it would change from \$22 to \$36 in the financing.

CM Cohn asked to try and keep the installation cost low “Prove we are using the least cost construction/installation.” He also asked if some of these costs be absorbed by charging more from water guzzlers. Suggested “Rate Advisory Committee” is needed. RAC to advise staff on rate structuring.

CW Pannell: asked that Meadowview District be deferred until last because they cannot afford the proposed increases.

CW Hammond: Rate increase in water would make total utility bill go to \$138 from \$100. She suggested RAC and to slow down implementation.

CM Tretheway asked to consider tiered rate.

Mayor Fargo

- How many existing meters and are we going to charge them again for installation?
- How many commercial meters and are we going to assess anything?
- Are we going to charge the same rate as commercial?
- Consider alternatives to those who have meters do not have to pay?

CM Cohn stated that if a main is replaced it gets charged to all customers to avoid different water rates, and therefore meter project should be treated same. Get references of other cities as to how they have charged their customers for meter retrofit.

Mayor Fargo asked to have “Rate Advisory Committee” members be involved in Community Outreach Planning.

Appendix B2

Implementation Options for Citywide Water Meter Installation: Water Meter Workshop March 2005



Department of Utilities
Office of the Director

CITY OF SACRAMENTO
CALIFORNIA

1395 35th Avenue
Sacramento, CA 95822-2911
phone (916) 808-1400
fax (916) 808-1497/1498

March 15, 2005

City Council
Sacramento, California

Honorable Members in Session:

**SUBJECT: IMPLEMENTATION OPTIONS FOR CITYWIDE WATER METER
INSTALLATION**

LOCATION AND DISTRICT: D-ALL

RECOMMENDATION:

This report recommends that City Council provide guidance to the Department of Utilities regarding water meter placement and proposed implementation plan.

**CONTACT PERSON: Gary A. Reents, Director of Utilities, 808-1433
Jessica Hess, Media and Communications Specialist, 808-8260**

FOR COUNCIL MEETING OF: March 22, 2005

SUMMARY:

With the passage of A.B. 2572, the State has mandated that cities install water meters on all properties by January 1, 2025. Following the last presentation to Council on water meters, the Department of Utilities has further looked into issues raised by Council including, but not limited to public perception of meters and their desires regarding meters and conservation education, placement of meters on properties, and criteria for the meter implementation plan.

COMMITTEE/COMMISSION ACTION:

None



BACKGROUND INFORMATION:

- A.B. 2572 was passed by the Legislature on August 26, 2004 and signed by Governor Schwarzenegger on September 29, 2004.
- A.B. 2572 requires that water meters be installed on all properties served by an urban water service provider, of which the City of Sacramento Department of Utilities is one.
- Water meters must be installed on all properties by January 1, 2025.
- Customers must begin being billed on a metered rate beginning January 1, 2010 or after 1 calendar year of meter installation.
- The Department of Utilities estimates that 100,000 meters will need to be installed throughout the City to meet the requirements of this law.
- The Department of Utilities also recommends moving backyard water mains to the front, on the lifecycle of the main, for easier access to the meter and easier maintenance of the pipe and meter. In areas where mains need to be moved, water meters would be installed as part of the construction process.

In response to the questions raised by Council at the Water Meter Workshop held in Council Chambers on November 4, 2004, City Staff has further researched several options for meter placement and implementation of the meter installation plan. The options to be presented are based on results from focus groups of Sacramento residents.

The focus groups of Sacramento residents revealed that most residents would prefer that meters be located in the sidewalk in front of their home rather than in the yard in front of their home. Focus groups also revealed that residents generally supported the criteria used to develop a plan for installing meters throughout the City, though they requested minor wording changes. This twenty-year installation plan is referred to as the Water Meter Implementation Plan. Based on these findings, the Department of Utilities has prepared a plan to accommodate this request. Details of this plan can be found in the attached Power Point Presentation.

Residents have also expressed, both in the focus groups and through contact with the Department of Utilities that they would like an option to sign up for a metered rate prior to January 2010. Utilities has also developed a Metered Rate Transition Plan to accommodate this request and details of this plan can be found in the attached Power Point Presentation.

FINANCIAL CONSIDERATIONS:

The total cost for installation of water meters and moving of backyard mains is approximately \$300 million, approximately \$100 million to install meters and approximately \$200 million to abandon backyard mains and install new mains in the front of homes that require such work. To install water meters in the sidewalks will cost an additional \$40 million dollars.

City Council
Implementation Options for Citywide Water Meter Installation
March 15, 2005

ENVIRONMENTAL DETERMINATION:

This project is currently exempt from California Environmental Quality Act (CEQA) under Section 15301 of the (CEQA) Guidelines, "Operation of existing public structures or facilities involving no expansion of use".

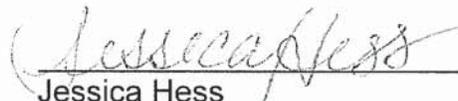
POLICY CONSIDERATIONS:

A.B. 2572 requires that water meters be installed on all properties before January 1, 2025 and that customers begin being billed on a metered rate on January 1, 2010 or at the end of one calendar year after meter installation.

ESBD CONSIDERATIONS:

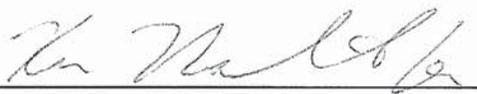
None at this time, but any future work done in conjunction to this project will follow the City's ESBD policies and procedures.

Respectfully submitted,



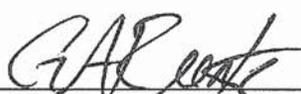
Jessica Hess
Media and Communications Specialist

RECOMMENDATION APPROVED:



Robert P. Thomas
City Manager

APPROVED:



Gary A. Reents
Director of Utilities

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1) Attachment A - Power Point Presentation – page 4

ITEM 4.1

Water Meter Implementation Plan Workshop

March 22, 2005



CITY OF SACRAMENTO
DEPARTMENT
OF UTILITIES

Where we have come from

- In Sept. 2004, Governor Schwarzenegger signed A.B. 2572 into law.
- A.B. 2572 requires that meters be placed on all residential properties by January 1, 2025.
- A.B. 2572 also requires that all customers with meters need to be charged on a metered rate by January 1, 2010.
 - Allows for customers who receive their meters after January 1, 2010 to have 1 year of comparative billing before switching to a metered rate.

Where we have come from, cont.

- On November 4, 2004, the Dept. of Utilities held a workshop for Council. In that presentation, information shared included:
 - Initial implementation criteria
 - Meter installation options
 - Costs
 - Public Outreach

Questions Left to Answer

- At the workshop, Council asked us to follow up on three issues.
 - Meter location
 - Criteria
 - Phasing and Costs
- This workshop is to answer the first two issues, including input from residents of Sacramento
- Cost issues will be addressed at upcoming budget hearing in May/June.

Research

- To answer these questions, the Dept of Utilities conducted research
- Phone Surveys
 - 400 random calls to City residents
- Focus Groups
 - 4 groups
 - 3 groups- randomly selected residents from each Council district
 - 1 group- community leaders

Focus Groups

- People were randomly selected by zip code.
- Approximately 1/3 of the respondents currently have meters installed on their homes.
- Respondents ranged in length of time living in Sacramento from less than 5 years to more than 35 years.

Feelings about Meters

- Most respondents were moderately familiar with the concept of metering.
- Most respondents were not pleased with the idea of having meters installed.

Meter Installation

Meter Location

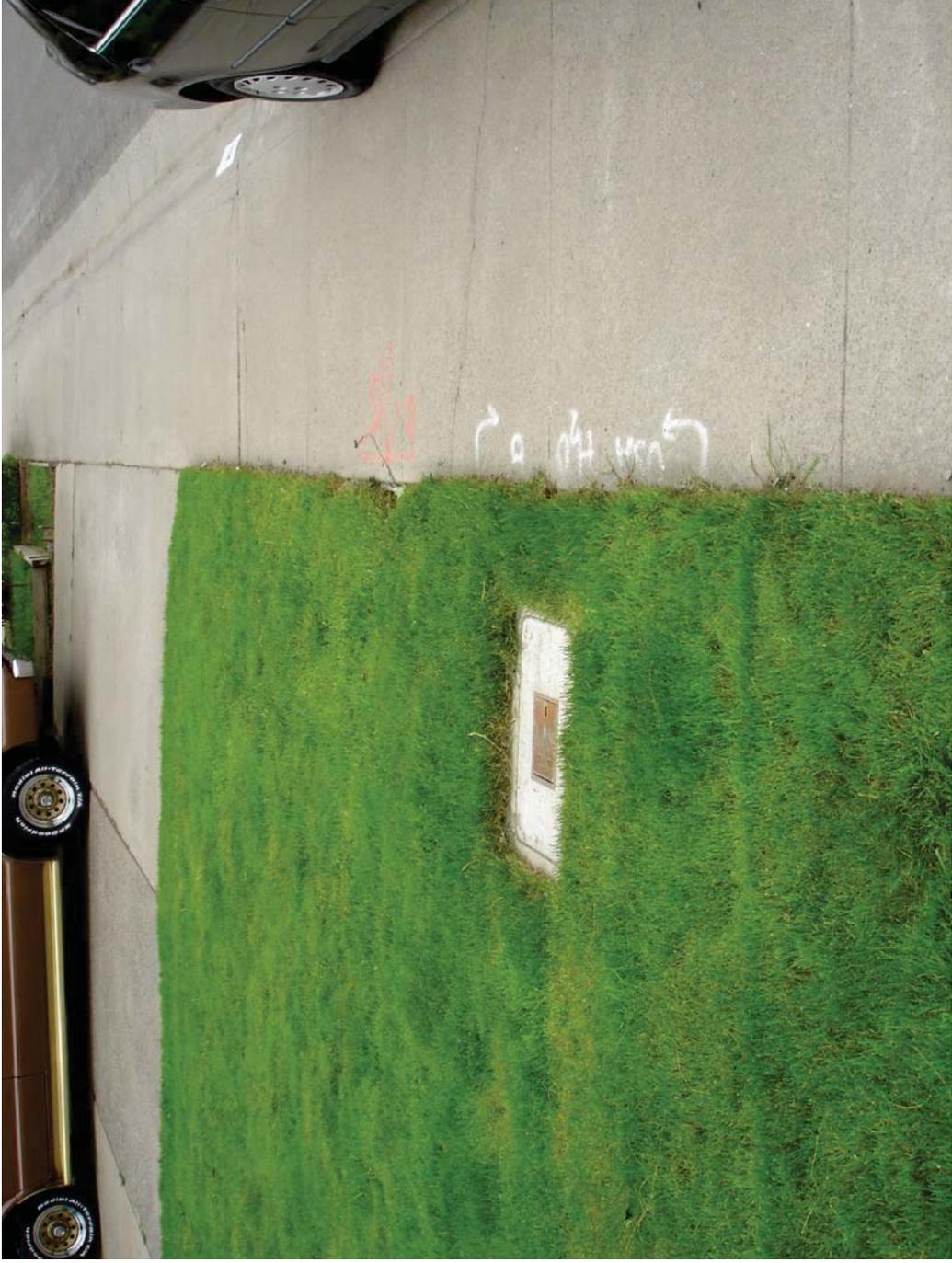
Meter Location Options

- Option #1- Placing meters in the yard, no customization.
- Option #2- Placing meters in the sidewalk
- Option #3- Placing meters in the yard, with customization

Option #1: Meters in the Yard- No Customization

- This will be a uniform installation option
- Cost per home: \$1200
- Total cost over 20 years: \$300 million
- When this option was presented to the focus groups, all groups were opposed to this option.

Option 1: Meters in the Yard- No Customization



Option #2: Meter in the Sidewalk

- This would also be a uniform installation option.
- Cost per home: \$1700 (\$500 more than yard option)
- Total cost over 20 years: \$342 million

Option #2: Meter in the Sidewalk, Cont.

- When this option was presented to the focus group, all groups were in favor of this idea.
- When presented with the additional costs, the groups were split 50/50.

Option #2: Meter in the Sidewalk



Option #3: Meters in the Yard- Customization

- This will be a non-uniform installation option.
- Customers would be allowed to place meters anywhere in the front yard of the home.
- Cost per home: up to \$3100 (\$1400 more than sidewalks, \$1900 more than yard without customization).

Option #3: Meters in the Yard- Customization

- Total cost over 20 years: \$382 million (assuming 43,000 residents change location)
- When this option was presented to the group, no groups were in favor of this option due to its increased cost.

Option #3: Meters in the Yard- Customization



Utilities' Recommendation

- Utilities Recommends Option #2
 - Advantages:
 - According to the research, very popular with the residents of Sacramento
 - According to research done by staff, other cities have not had significant ADA or liability issues by placing the meters in the sidewalk
 - Will not have to enter resident's property to complete meter installation.

Utilities' Recommendation

- Advantages, cont:
 - Can ensure a straight alignment to the house water service, which eases the installation process
 - Can repair sections of damaged sidewalk if service is located under it.
- Disadvantages
 - Concrete may not match
 - The additional cost

Meter Implementation

Implementation Criteria

- Replace old water pipelines
- Spread projects in areas throughout the City so that work is not focused in one area at a time.
- Continuing to add new meter installation projects that are adjacent to completed projects.

Feelings about the Criteria

- When presented with the implementation criteria, all of the respondents were in favor of the criteria
 - had minor wording changes to make it more understandable
 - these changes are reflected in previous slide

Implementation Plan

- Used the criteria to create a plan by
 - Looking at mains that were older, leaking, and located in a backyard.
 - Using Council District boundaries to split the City into 8 areas and locating a starting point in each area
 - Adding abutting projects to each area when the last project is completed to create efficient installation and meter reading routes.
- This plan is contingent upon the amount of money available through rate increases.

Transition to a Metered Rate

Transition to a Metered Rate

- A.B. 2572 requires that all customers with meters be charged on a metered rate by January 1, 2010.
- It also provides that customers who receive their meter after January 1, 2010 may have up to one calendar year of comparative billing before being switched to a metered rate.
- Currently, we have customers requesting to be switched to a metered rate.

Voluntary Metered Rate Program

- Currently, the DOU is developing a Voluntary Metered Rate Program.
 - Would allow customers to change sooner than 2010
 - Would also allow Utilities to begin to gauge
 - How much water will be saved with meters
 - Fluctuating revenue source

How It Would Work

- Person has a meter installed and requests to be placed on a metered rate.
 - Customer will need to sign a contract agreeing to switch to metered rate and acknowledging that they cannot switch back.
 - Customer will need to receive a comparative bill for 1 year before being able to convert to a metered rate.

Appendix B3

Resolution Regarding Implementation of Water Meter Installation and Voluntary
Metered Rates



Department of Utilities
Office of the Director

CITY OF SACRAMENTO
CALIFORNIA

1395 35th Avenue
Sacramento, CA 95822-2911
phone (916) 808-1400
fax (916) 808-1497/1498

May 11, 2005

City Council
Sacramento, California

Honorable Members in Session:

**SUBJECT: RESOLUTION REGARDING IMPLEMENTATION OF WATER METER
INSTALLATION AND VOLUNTARY METERED RATES**

LOCATION AND DISTRICT: D-ALL

RECOMMENDATION:

This report recommends that City Council pass the attached resolution, providing direction to the Department of Utilities regarding implementation of State-mandated water meter installation and transitioning certain customers to a metered rate.

**CONTACT PERSON: Gary A. Reents, Director of Utilities, 808-1433
Jessica Hess, Media and Communications Specialist, 808-8260**

FOR COUNCIL MEETING OF: May 24, 2005

SUMMARY:

With the passage of A.B. 2572, the State has mandated that cities install water meters on all water service connections by January 1, 2025. Following the last presentation to City Council on water meters, the Department of Utilities has further looked into issues raised by City Council and is presenting a resolution to provide guidance regarding the Department's Water Meter Implementation Plan, the location of water meters, and voluntary transitions to a metered rate. The Department may propose additional resolutions and/or City Code revisions in the future, as needed to implement A.B. 2572.

COMMITTEE/COMMISSION ACTION: None



CITY OF SACRAMENTO
DEPARTMENT
OF UTILITIES

Making a Difference in Your Neighborhood

Resolution Regarding Implementation of Water Meter Installation and Voluntary Metered Rates

BACKGROUND INFORMATION:

- # A.B. 2572 was passed by the Legislature on August 26, 2004 and signed by Governor Schwarzenegger on September 29, 2004.
- # A.B. 2572 requires that water meters be installed on all water service connections of an urban water service provider, of which the City of Sacramento Department of Utilities is one.
- # All connections must be metered by January 1, 2025.
- # Customers served by a metered water service connection must be billed on a metered rate beginning no later than January 1, 2010 or 1 calendar year after meter installation.
- # The Department of Utilities estimates that 100,000 meters will need to be installed throughout the City to meet the requirements of this law.
- # The Department of Utilities also recommends continuing its present practice of abandoning backyard water mains and constructing new mains in the street when the mains require replacement on the lifecycle of the main, to provide for easier access to and maintenance of the main and associated facilities, with less disruption to City residents and their property. In areas where mains need to be relocated, water meters would be installed as part of the construction process.

In response to the questions raised by City Council at the Water Meter Workshop held in Council Chambers on November 4, 2004, City staff has further researched several options for meter placement and implementation of the meter installation plan. The recommendations presented are based on results from focus groups of Sacramento residents.

The focus groups of Sacramento residents revealed that most residents would prefer that meters be located in the sidewalk in front of their home rather than in the yard in front of their home. Focus groups also revealed that residents generally supported the criteria used to develop a plan for installing meters throughout the City, though they requested minor wording changes. This twenty-year installation plan is referred to as the Water Meter Implementation Plan.

Residents have also expressed, both in the focus groups and through contact with the Department of Utilities that they would like an option to sign up for a metered rate prior to January 2010, if their water service connection has a meter prior to that date. Utilities has developed a plan for voluntary transitions to a metered rate to accommodate this request.

FINANCIAL CONSIDERATIONS:

The total cost for installation of water meters and moving of backyard mains is estimated to be approximately \$322 million, approximately \$122 million to install meters in the sidewalks and approximately \$200 million to abandon backyard mains and install new mains in the front

City Council
May 11, 2005

Resolution Regarding Implementation of Water Meter Installation and Voluntary Metered Rates

of homes that require such work. As noted above, these backyard mains would continue to be relocated when the mains require replacement on the lifecycle of the main.

ENVIRONMENTAL DETERMINATION:

The retrofit of water mains on existing connections, and the replacement of existing backyard mains, are exempt from environmental review under the California Environmental Quality Act (CEQA), pursuant to CEQA Guidelines Section 15301(b) (operation, repair, maintenance or minor alteration of existing utility facilities that involve negligible or no expansion of use) and Section 15302(c) (replacement or reconstruction of existing utility facilities that involve negligible or no expansion of capacity) .

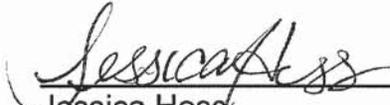
POLICY CONSIDERATIONS:

A.B. 2572 requires that water meters be installed on all water service connections before January 1, 2025 and that customers served by metered connections begin being billed on a metered rate on January 1, 2010 or at the end of one calendar year after meter installation.

ESBD CONSIDERATIONS:

None at this time, but any future work done in conjunction to this project will follow the City's ESBD policies and procedures.

Respectfully submitted,



Jessica Hess
Media and Communications Specialist

RECOMMENDATION APPROVED



Robert P. Thomas
City Manager

APPROVED



Gary A. Reents
Director of Utilities

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RESOLUTION NO.

ADOPTED BY THE SACRAMENTO CITY COUNCIL

ON DATE OF _____

RESOLUTION APPROVING THE DEPARTMENT OF UTILITIES' WATER METER IMPLEMENTATION PLAN CRITERIA, THE PLACEMENT OF WATER METERS IN THE SIDEWALK, AND THE INSTITUTION OF A VOLUNTARY METERED RATE PROGRAM

WHEREAS, the City of Sacramento Department of Utilities is required by law to install water meters on all water service connections by January 1, 2025; and

WHEREAS, the Department of Utilities has developed a plan to meet this requirement using the following three criteria: spread meter installation projects throughout the City, replace aging water pipelines, and continue to add new meter installation projects that are adjacent to completed projects; and

WHEREAS, the Department of Utilities has evaluated these criteria with members of the public, and members of the public supported these criteria; and

WHEREAS, the Department of Utilities has evaluated potential locations for the installation of meters on water service connections to residential properties and shared them with the public; and

WHEREAS, members of the public supported locating the meters in the sidewalks in front of homes; and

WHEREAS, when installing meters in sidewalks, the Department of Utilities will follow all City of Sacramento Department of Transportation requirements and specifications regarding the construction and repair of sidewalks, which may provide additional opportunities to improve and better the sidewalks; and

WHEREAS, the Department of Utilities will work with Historic Preservation to preserve historic structures and landmarks in its installation of meters in the sidewalks; and

WHEREAS, the Department of Utilities also is required by law to charge customers served by a metered water service connection a metered rate, beginning not later than January 1, 2010; and

FOR CITY CLERK USE ONLY

RESOLUTION NO.: _____

DATE ADOPTED: _____ 162 of 397

WHEREAS, the Department of Utilities has received requests from some residential customers served by metered connections to switch to a metered rate before January 1, 2010; and

WHEREAS, allowing customers with metered connections who desire to do so to switch to a metered rate before January 1, 2010 will allow the Department of Utilities to evaluate how much water will be saved using metered rates and what that may mean to the Department's revenue source; and

WHEREAS, the Department of Utilities has developed a program to allow customers with metered connections to switch to a metered rate prior to January 1, 2010, after receiving one (1) year of comparative billing.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF SACRAMENTO THAT:

1. Water meters will be installed according to a plan developed using the implementation criteria of spreading meter installation projects throughout the City, replacing old water mains, and continuing to add new meter installation projects that are adjacent to completed projects.
2. Water meters will be installed in the sidewalks except in the following instances:
 - Locations with a sidewalk and a planter strip will have the meter placed in the planter strip.
 - Locations where a sidewalk is not present, but where there is a curb, will have meters located directly behind the curb.
 - Locations where a sidewalk is not present and no curbs are present will have meters located at the public right-of-way line.
3. City of Sacramento residents served by metered water service connections that desire to receive and pay a metered rate water bill prior to January 1, 2010, may voluntarily request to do so, provided that they must have completed one calendar year of comparative billing prior to beginning payment on a metered basis, and that they consent in writing to the Department of Utilities' Voluntary Metered Rate program requirements, including the condition that they may not be allowed to go back to flat rate billing.

MAYOR

ATTEST:

CITY CLERK

FOR CITY CLERK USE ONLY

RESOLUTION NO.: _____

DATE ADOPTED: _____ 163 of 397

RESOLUTION NO. 2005-347

ADOPTED BY THE SACRAMENTO CITY COUNCIL

ON DATE OF MAY 24 2005

RESOLUTION APPROVING THE DEPARTMENT OF UTILITIES' WATER METER IMPLEMENTATION PLAN CRITERIA, THE PLACEMENT OF WATER METERS IN THE SIDEWALK, AND THE INSTITUTION OF A VOLUNTARY METERED RATE PROGRAM

WHEREAS, the City of Sacramento Department of Utilities is required by law to install water meters on all water service connections by January 1, 2025; and

WHEREAS, the Department of Utilities has developed a plan to meet this requirement using the following three criteria: spread meter installation projects throughout the City, replace aging water pipelines, and continue to add new meter installation projects that are adjacent to completed projects; and

WHEREAS, the Department of Utilities has evaluated these criteria with members of the public, and members of the public supported these criteria; and

WHEREAS, the Department of Utilities has evaluated potential locations for the installation of meters on water service connections to residential properties and shared them with the public; and

WHEREAS, members of the public supported locating the meters in the sidewalks in front of homes; and

WHEREAS, when installing meters in sidewalks, the Department of Utilities will follow all City of Sacramento Department of Transportation requirements and specifications regarding the construction and repair of sidewalks, which may provide additional opportunities to improve and better the sidewalks; and

WHEREAS, the Department of Utilities will work with Historic Preservation to preserve historic structures and landmarks in its installation of meters in the sidewalks; and

WHEREAS, the Department of Utilities also is required by law to charge customers served by a metered water service connection a metered rate, beginning not later than January 1, 2010; and

FOR CITY CLERK USE ONLY

RESOLUTION NO.: 2005-347

DATE ADOPTED: MAY 24 2005

WHEREAS, the Department of Utilities has received requests from some residential customers served by metered connections to switch to a metered rate before January 1, 2010; and

WHEREAS, allowing customers with metered connections who desire to do so to switch to a metered rate before January 1, 2010 will allow the Department of Utilities to evaluate how much water will be saved using metered rates and what that may mean to the Department's revenue source; and

WHEREAS, the Department of Utilities has developed a program to allow customers with metered connections to switch to a metered rate prior to January 1, 2010, after receiving one (1) year of comparative billing.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF SACRAMENTO THAT:

1. Water meters will be installed according to a plan developed using the implementation criteria of spreading meter installation projects throughout the City, replacing old water mains, and continuing to add new meter installation projects that are adjacent to completed projects.
2. Water meters will be installed in the sidewalks except in the following instances:
 - Locations with a sidewalk and a planter strip will have the meter placed in the planter strip.
 - Locations where a sidewalk is not present, but where there is a curb, will have meters located directly behind the curb.
 - Locations where a sidewalk is not present and no curbs are present will have meters located at the public right-of-way line.
3. City of Sacramento residents served by metered water service connections that desire to receive and pay a metered rate water bill prior to January 1, 2010, may voluntarily request to do so, provided that they must have completed one calendar year of comparative billing prior to beginning payment on a metered basis, and that they consent in writing to the Department of Utilities' Voluntary Metered Rate program requirements, including the condition that they may not be allowed to go back to flat rate billing.

HEATHER FARGO

MAYOR

ATTEST:
SHIRLEY CONCOLINO

CITY CLERK

FOR CITY CLERK USE ONLY

RESOLUTION NO.: 2005-347

DATE ADOPTED: MAY 24 2005

Appendix B4

Ordinance Water Meter Program



REPORT TO LAW & LEGISLATION COMMITTEE City of Sacramento

915 I Street, Sacramento, CA 95814-2671

8

Presentation
September 6, 2005

Honorable Mayor and
Members of the City Council

Subject: Ordinance: Water Meter Program: Amending Section 13.04.030, Adding Section 13.04.065 and Amending Article III of Chapter 13.04 of the City Code

Location/Council District:: Citywide

Recommendation:

Staff recommends that the Law and Legislation Committee approve and forward to the City Council the attached ordinance to amend the City Code provisions relating to water meters to enable the implementation of A.B. 2572.

Contact: Dave Brent, Engineering Manager, 808-1420; Dan Sherry, Supervising Engineer, 808-1419

Presenters: Gary Reents, Director of Utilities, 808-1433

Department: Utilities

Division: Engineering Services

Organization No: 3332

Summary:

The proposed ordinance amends Section 13.04.030, adds Section 13.04.065 and amends Article III of Chapter 13.04 of the Sacramento City Code to comply with A.B. 2572, that mandates the installation of water meters on all service connections by January 1, 2025.

Committee/Commission Action: None.

Background Information:

A.B. 2572 was passed by the Legislature on August 26, 2004, and signed by Governor Schwarzenegger on September 29, 2004. This bill mandates that water meters be installed on all municipal and industrial water service connections by January 1, 2025. Previous State water meter legislation (S.B. 229) required the installation of water meters for new water service connections made on or after January 1, 1992. As noted in the proposed ordinance, the requirements of A.B. 2572 and S.B. 229 have

superseded the long-standing residential water meter prohibition set forth in the City Charter.

The Department of Utilities has gone before City Council and the Law and Legislative Committee regarding the Water Meter Program mandated by A.B. 2572 as follows:

- November 4, 2004, presented an informational workshop on water meters to the City Council.
- March 1, 2005, requested that the Law and Legislative Committee revise the 2004-2005 State and Federal Legislative Platforms to include water meter funding.
- March 22, 2005, requested guidance from the City Council on the meter implementation options.
- May 24, 2005, the City Council adopted Resolution No. 2005-347 approving the Department of Utilities water meter implementation plan criteria, the placement of water meters in the sidewalk, and the institution of a voluntary metered rate program.

The City Code presently contains water meter provisions that were adopted following the enactment of S.B. 229 in 1991. The Department of Utilities and the City Attorney's Office staff drafted the proposed ordinance to conform the City Code's water meter provisions to the new mandates of A.B. 2572.

The proposed ordinance includes the following provisions:

- The City's Director of Utilities is directed to develop and implement a phased program for water meter installation as necessary to comply with provisions of A.B. 2572, and consistent with direction provided by City Council resolution.
- The cost incurred to fund this program will be paid by customers of the City's water system, as authorized by Water Code Section 527(b), through rates, fees or charges established by City Council resolution.
- Customers receiving City water service are required to provide the department's employees or contractors access to and use of the premises where the customer receives water service as may be required for the City's installation, maintenance, repair or removal of any pipelines and meter facilities used to provide water service to the premises, as well as for meter reading.

Financial Considerations:

The water meter program will be coordinated with the ongoing relocation of backyard mains. The total projected cost for installation of water meters and relocating backyard mains is approximately \$350 million, approximately \$150 million to install meters and approximately \$200 million to abandon backyard mains and construct new mains in the street.

Environmental Considerations:

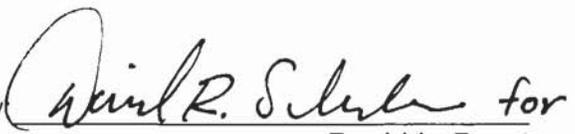
Adoption of an ordinance to bring the City Code into compliance with A.B. 2572 does not constitute a discretionary approval subject to CEQA, since the City has no choice but to comply with the State's regulatory mandate. Implementation of the meter program also is exempt from the provisions of CEQA pursuant to Section 15301 (b) of the CEQA Guidelines, pertaining to the operation and minor alteration of facilities used to provide public utility services involving no expansion of use.

Policy Considerations:

A.B. 2572 mandates that water meters be installed on all service connections before January 1, 2025, and that customers served by metered service connections begin being billed on a metered rate on January 1, 2010, or at the end of one calendar year after meter installation.

Emerging Small Business Development (ESBD):

Not applicable. There are no goods or services being purchased as a direct result of this report.

Respectfully Submitted by  for
David L. Brent
Engineering Manager

Approved by: 
Gary A. Reents
Director of Utilities

Recommendation Approved:


KEN NISHIMOTO
Assistant City Manager

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Pg	1-7	Attachment 1 - Redline Ordinance
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REDLINE

ORDINANCE NO.

ADOPTED BY THE SACRAMENTO CITY COUNCIL

ON DATE OF _____

**AN ORDINANCE AMENDING SECTION
13.04.030, ADDING SECTION 13.04.065
AND AMENDING ARTICLE III OF
CHAPTER 13.04 OF THE SACRAMENTO
CITY CODE, RELATING TO WATER METERS**

BE IT ENACTED BY THE COUNCIL OF THE CITY OF SACRAMENTO:

SECTION 1

The City Council hereby makes the following findings:

1. Article III of Chapter 13.04 of the Sacramento City Code requires that all new water service connections made to the City water system on or after January 1, 1992, be equipped with a water meter, as required by Water Code Section 525, adopted by Senate Bill 229 (SB 229) in 1991 (Chapter 407 of Stats 1991).
2. In 2004, Assembly Bill 2572 (AB 2572) was signed into law (Chapter 884 of Stats 2004). Among other provisions, AB 2572 enacted Water Code Section 527, that requires an urban water supplier to (i) install water meters on all service connections located within its service area on or before January 1, 2025, and (ii) charge metered rates to customers that have water service connections for which water meters have been installed, beginning not later than January 1, 2010 (provided that metered billing may be delayed for one annual seasonal cycle of water use for services being converted from flat rate to metered billing). AB 2572 became effective January 1, 2005.
3. In enacting AB 2572, the Legislature found that the provision of water on a non-metered basis has caused, and will continue to cause, waste and unreasonable use of water. Article X, section 2 of the California Constitution and Water Code Section 100 provide that rights to the use of water in California do not extend to any waste or unreasonable use of water. These provisions apply to the water rights that the

FOR CITY CLERK USE ONLY

1

ORDINANCE NO. _____

DATE ADOPTED: _____

City relies upon to supply water to all customers of the City's water system. AB 2572 also requires any urban water supplier that applies for specified State funding or for a permit for a new or expanded water supply on or after January 1, 2010, to demonstrate compliance with the requirements specified in AB 2572.

4. In the absence of SB 229 and AB 2572, the City could not require the installation of meters on any residential water service, due to Section 11 of the Sacramento City Charter, that prohibits meters on residential water pipes. However, the requirements now mandated by SB 229 and AB 2572 have superseded City Charter Section 11, because these state laws address a subject matter of statewide concern. The Legislature also has declared that these requirements supersede and preempt all conflicting enactments of charter cities, including charter provisions.
5. The City has approximately 100,000 water service connections without water meters. In order to accomplish the installation of water meters on all of the unmetered connections by January 1, 2025, as mandated by Water Code Section 527, it will be necessary to implement a long-term phased water meter installation program that incrementally installs water meters until January 1, 2025. Water Code section 527(b) provides that an urban water supplier may recover the cost of implementing this program from rates, fees or charges.
6. It is necessary and desirable to direct the City's Director of Utilities to develop and implement a phased program for water meter installation as necessary to comply with the provisions of AB 2572. The costs incurred to fund this program should be paid by customers of the City's water system through rates, fees or charges, as authorized by Water Code Section 527(b).
7. The foregoing costs should be included in the rates paid by all retail water service customers of the City's water system because:
 - A. These costs must be incurred to comply with a state regulatory mandate that applies to the operation of the City's entire water system which provides water service to all City water customers. It is necessary to incur these costs for the City's water system to remain in compliance with State law, avoid subjecting the City's water rights to any claim of waste or unreasonable use of water, and maintain the eligibility of the City's water system for specified State funding and permits on and after January 1, 2010.
 - B. All customers receiving water from the City's water system will benefit from the City's compliance with this mandate, and a failure to comply with this mandate would have significant adverse effects on the City's entire water

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system and all customers receiving water service from the City's water system.

- C. Increased water conservation resulting from the implementation of a program for water meter installation and metered billing for all City water service connections will reduce future increases in water demand and associated operational costs, for the benefit of the City's entire water system and all customers receiving water service from the City's water system.
- D. Since water meters generally require replacement every 10-20 years, even customers required to install water meters under SB 229 will benefit from the City's replacement of the water meters on their water service connections when needed during the City's phased water meter installation program and thereafter.

8. Adoption of this ordinance is necessary to comply with the state's regulatory mandate imposed by AB 2572.

SECTION 2

Section 13.04.030 of the Sacramento City Code is amended as follows:

A. The definition of "water meter" in Section 13.04.030 is amended to read as follows:

~~Water~~ "Water meter: A" means a water meter provided or approved by the city that is installed on a water service connection in a manner that measures the volume of all water taken from the city water distribution system through that water service connection. As used in article III of this chapter, "water meter" shall include the water meter, the meter box containing the water meter and all related attachments and equipment.

B. Except as specifically amended above, all other provisions of Sacramento City Code section 13.04.030 shall remain unchanged and in full force and effect.

SECTION 3

Section 13.04.065 is added to the Sacramento City Code to read as follows:

13.04.065 Access to customer premises.

A customer receiving city water service shall provide the department's employees and/or contractors access to and use of the premises where city water service is received

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DATE ADOPTED: _____

as may be required by the city's employees or contractors for the installation, maintenance, repair or removal of any pipelines, water meters and other appurtenances used to provide or measure city water service to the customer's premises or to adjacent premises, and/or as may be required by the city for purposes of connecting, reconnecting or relocating the connection for city water service to any such premises. Compliance with the foregoing requirements shall be a condition of the customer receiving or continuing to receive city water service. If the customer refuses to allow such access, the city also may seek authorization from any court of competent jurisdiction for such access.

SECTION 4

Article III of Chapter 13.04 of the Sacramento City Code is amended to read, in its entirety, as follows:

Article III. Water Meters

13.04.280 Intent and purpose.

~~A. This chapter is enacted to implement the~~ The provisions of Chapter 407 of Stats 1991, as codified within the California Water Code at Chapter 1, § 110, and Chapter 8 commencing with § 500.

~~B. This chapter is enacted solely~~ §§ 521 and following, impose various requirements for the installation and use of water meters. This article is enacted to comply with state law and is not otherwise intended to repeal, amend or interpret the provision of the City Charter that prohibits and implement these state law requirements.

13.04.290 Installation of water meters on residential water service pipes:

~~13.04.290 Water meters required--Adoption of standards and requirements:~~

~~—~~ No connections made on or after January 1, 1992.

A. In accordance with the provisions of California Water Code § 525, no new water service connections may be attached to the city water distribution system on or after January 1, 1992, unless such connection is equipped with a water meter. As used in this section, "new water service connection" includes any existing water service connection that is used to provide water to buildings or residential units constructed on or after January 1, 1992. Fire service connections are exempt from the provisions of this chapter. The director may adopt standards and requirements to implement the provisions of this chapter section.

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DATE ADOPTED: _____

~~13.04.300~~ ~~Water meter fee.~~

~~_____~~ B. Prior to the installation of a water meter in accordance with the terms of this ~~chapter~~section, the customer shall pay any applicable fee established from time to time by resolution of the city council to recover costs incurred by the city to provide, install or supervise the installation of the water meter.

~~13.04.310~~ ~~Requirements for installation of water meter.~~

~~_____~~ A. ~~Water meters~~

C. Water meters for water service connections made on or after January 1, 1992 shall be installed by the city or under the city's supervision in accordance with all applicable city water and building codes, regulations, and standards.

~~_____~~ B. D. A water meter for a water service connection made on or after January 1, 1992 shall not be installed unless a plumbing permit has been issued.

~~_____~~ C. E. Meters for water service connections made on or after January 1, 1992 shall be installed above ground on metered water services three inches and larger in diameter that require the installation of a backflow prevention assembly installation.

~~_____~~ D. F. No occupancy permit for any structure served by ~~the new~~a water service connection made on or after January 1, 1992 shall be issued until meter installation is complete.

~~13.04.320~~ ~~Access~~

13.04.300 Phased Meter Installation Program.

California Water Code § 527 requires the city to install water meters on all water service connections on or before January 1, 2025. In order to comply with this requirement, the director shall develop and implement a phased program to accomplish,

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DATE ADOPTED: _____

by January 1, 2025, the installation of water meters on all city water service connections that existed without meters as of January 1, 2005. Such program shall comply with any requirements specified or approved by resolution(s) of the city council, including resolution(s) adopted prior to the effective date of the ordinance enacting this section. The director may adopt standards and requirements to implement the provisions of this section. Customers shall pay such rates, fees and/or charges as may be established from time to time by resolution of the city council to fund, among other costs, the development and implementation of the phased meter installation program.

13.04.310 Reading meters.

The customer receiving city water service shall keep water meters unobstructed and accessible for reading, maintenance and repair. The customer, and shall provide the department staff's employees and/or its contractors access to the premises receiving where the customer receives water service as may be required for the reading, maintenance and repair of water meters, and shall keep water meters and meter boxes clean and accessible by the city for such purposes. Compliance with this section shall be a condition of receiving or continuing to receive city water service.

13.04.3320 Testing meters.

Any metered customer may request in writing that the meter through which water is being furnished be examined and tested by the department to determine whether the meter is registering accurately the amount of water that is being delivered through it. Upon receipt of such request, the department shall ~~cause~~examine and test the meter ~~to be examined and tested~~. If the meter is found to register over three percent more water than actually passes through it, the customer's water bill will be adjusted accordingly. If the meter is found to register a variance of three percent or less, no billing adjustment will be made. Meter testing will be performed at a customer's request, at no charge to the customer, not more than once every twelve (12) months.

If a customer requests more frequent testing, the customer's request shall be accompanied by a deposit of an amount equal to the monthly minimum meter charge. Upon receipt of such request, the department shall ~~cause~~examine and test the meter ~~to be examined and tested~~. If the meter is found to register over three percent more water than actually passes through it, the customer's water bill will be adjusted accordingly and the deposit shall be returned, without interest. If the meter is found to register a variance of three percent or less, no billing adjustment will be made and the deposit shall be used by the city to pay its inspection and testing costs.

13.04.3430 Water meter use--Indemnity.

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No person other than authorized employees of the department or other persons duly authorized by the director shall install, maintain, repair, move, replace, adjust, tamper with, manipulate, damage, disconnect or remove any water meter. Any person or entity performing any of the foregoing actions, whether or not authorized by the department, shall pay the city's costs of investigating and repairing any resulting damage and/or replacing any removed item(s), and shall indemnify and hold harmless city, its officers and employees from any claims, actions, costs (including attorney fees), damages or other liability resulting or arising from such damage or removal.

13.04.340 Reserved.

DATE PASSED FOR PUBLICATION:
DATE ENACTED:
DATE EFFECTIVE:

MAYOR

ATTEST:

CITY CLERK

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ORDINANCE NO. _____

DATE ADOPTED: _____

ORDINANCE NO.

ADOPTED BY THE SACRAMENTO CITY COUNCIL

ON DATE OF _____

**AN ORDINANCE AMENDING SECTION
13.04.030, ADDING SECTION 13.04.065
AND AMENDING ARTICLE III OF
CHAPTER 13.04 OF THE SACRAMENTO
CITY CODE, RELATING TO WATER METERS**

BE IT ENACTED BY THE COUNCIL OF THE CITY OF SACRAMENTO:

SECTION 1

The City Council hereby makes the following findings:

1. Article III of Chapter 13.04 of the Sacramento City Code requires that all new water service connections made to the City water system on or after January 1, 1992, be equipped with a water meter, as required by Water Code Section 525, adopted by Senate Bill 229 (SB 229) in 1991 (Chapter 407 of Stats 1991).
2. In 2004, Assembly Bill 2572 (AB 2572) was signed into law (Chapter 884 of Stats 2004). Among other provisions, AB 2572 enacted Water Code Section 527, that requires an urban water supplier to (i) install water meters on all service connections located within its service area on or before January 1, 2025, and (ii) charge metered rates to customers that have water service connections for which water meters have been installed, beginning not later than January 1, 2010 (provided that metered billing may be delayed for one annual seasonal cycle of water use for services being converted from flat rate to metered billing). AB 2572 became effective January 1, 2005.
3. In enacting AB 2572, the Legislature found that the provision of water on a non-metered basis has caused, and will continue to cause, waste and unreasonable use of water. Article X, section 2 of the California Constitution and Water Code Section 100 provide that rights to the use of water in California do not extend to any waste or unreasonable use of water. These provisions apply to the water rights that the City relies upon to supply water to all customers of the City's water system. AB 2572 also requires any urban water supplier that applies for specified State funding

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or for a permit for a new or expanded water supply on or after January 1, 2010, to demonstrate compliance with the requirements specified in AB 2572.

4. In the absence of SB 229 and AB 2572, the City could not require the installation of meters on any residential water service, due to Section 11 of the Sacramento City Charter, that prohibits meters on residential water pipes. However, the requirements now mandated by SB 229 and AB 2572 have superseded City Charter Section 11, because these state laws address a subject matter of statewide concern. The Legislature also has declared that these requirements supersede and preempt all conflicting enactments of charter cities, including charter provisions.
5. The City has approximately 100,000 water service connections without water meters. In order to accomplish the installation of water meters on all of the unmetered connections by January 1, 2025, as mandated by Water Code Section 527, it will be necessary to implement a long-term phased water meter installation program that incrementally installs water meters until January 1, 2025. Water Code section 527(b) provides that an urban water supplier may recover the cost of implementing this program from rates, fees or charges.
6. It is necessary and desirable to direct the City's Director of Utilities to develop and implement a phased program for water meter installation as necessary to comply with the provisions of AB 2572. The costs incurred to fund this program should be paid by customers of the City's water system through rates, fees or charges, as authorized by Water Code Section 527(b).
7. The foregoing costs should be included in the rates paid by all retail water service customers of the City's water system because:
 - A. These costs must be incurred to comply with a state regulatory mandate that applies to the operation of the City's entire water system which provides water service to all City water customers. It is necessary to incur these costs for the City's water system to remain in compliance with State law, avoid subjecting the City's water rights to any claim of waste or unreasonable use of water, and maintain the eligibility of the City's water system for specified State funding and permits on and after January 1, 2010.
 - B. All customers receiving water from the City's water system will benefit from the City's compliance with this mandate, and a failure to comply with this mandate would have significant adverse effects on the City's entire water system and all customers receiving water service from the City's water system.

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- C. Increased water conservation resulting from the implementation of a program for water meter installation and metered billing for all City water service connections will reduce future increases in water demand and associated operational costs, for the benefit of the City's entire water system and all customers receiving water service from the City's water system.
 - D. Since water meters generally require replacement every 10-20 years, even customers required to install water meters under SB 229 will benefit from the City's replacement of the water meters on their water service connections when needed during the City's phased water meter installation program and thereafter.
8. Adoption of this ordinance is necessary to comply with the state's regulatory mandate imposed by AB 2572.

SECTION 2

Section 13.04.030 of the Sacramento City Code is amended as follows:

- A. The definition of "water meter" in Section 13.04.030 is amended to read as follows:
 "Water meter" means a water meter provided or approved by the city that is installed on a water service connection in a manner that measures the volume of all water taken from the city water distribution system through that water service connection. As used in article III of this chapter, "water meter" shall include the water meter, the meter box containing the water meter and all related attachments and equipment.
- B. Except as specifically amended above, all other provisions of Sacramento City Code section 13.04.030 shall remain unchanged and in full force and effect.

SECTION 3

Section 13.04.065 is added to the Sacramento City Code to read as follows:

13.04.065 Access to customer premises.

A customer receiving city water service shall provide the department's employees and/or contractors access to and use of the premises where city water service is received as may be required by the city's employees or contractors for the installation, maintenance, repair or removal of any pipelines, water meters and other appurtenances used to provide or measure city water service to the customer's premises or to adjacent premises, and/or

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ORDINANCE NO. _____

DATE ADOPTED: _____

as may be required by the city for purposes of connecting, reconnecting or relocating the connection for city water service to any such premises. Compliance with the foregoing requirements shall be a condition of the customer receiving or continuing to receive city water service. If the customer refuses to allow such access, the city also may seek authorization from any court of competent jurisdiction for such access.

SECTION 4

Article III of Chapter 13.04 of the Sacramento City Code is amended to read, in its entirety, as follows:

Article III. Water Meters

13.04.280 Intent and purpose.

The provisions of California Water Code §§ 521 and following, impose various requirements for the installation and use of water meters. This article is enacted to comply with and implement these state law requirements.

13.04.290 Installation of water meters on water service connections made on or after January 1, 1992.

- A. In accordance with the provisions of California Water Code § 525, no new water service connections may be attached to the city water distribution system on or after January 1, 1992, unless such connection is equipped with a water meter. As used in this section, "new water service connection" includes any existing water service connection that is used to provide water to buildings or residential units constructed on or after January 1, 1992. Fire service connections are exempt from the provisions of this chapter. The director may adopt standards and requirements to implement the provisions of this section.
- B. Prior to the installation of a water meter in accordance with the terms of this section, the customer shall pay any applicable fee established from time to time by resolution of the city council to recover costs incurred by the city to provide, install or supervise the installation of the water meter.
- C. Water meters for water service connections made on or after January 1, 1992 shall be installed by the city or under the city's supervision in accordance with all applicable city water and building codes, regulations, and standards.

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ORDINANCE NO. _____

DATE ADOPTED: _____

- D. A water meter for a water service connection made on or after January 1, 1992 shall not be installed unless a plumbing permit has been issued.
- E. Meters for water service connections made on or after January 1, 1992 shall be installed above ground on metered water services three inches and larger in diameter that require the installation of a backflow prevention assembly installation.
- F. No occupancy permit for any structure served by a water service connection made on or after January 1, 1992 shall be issued until meter installation is complete.

13.04.300 Phased Meter Installation Program.

California Water Code § 527 requires the city to install water meters on all water service connections on or before January 1, 2025. In order to comply with this requirement, the director shall develop and implement a phased program to accomplish, by January 1, 2025, the installation of water meters on all city water service connections that existed without meters as of January 1, 2005. Such program shall comply with any requirements specified or approved by resolution(s) of the city council, including resolution(s) adopted prior to the effective date of the ordinance enacting this section. The director may adopt standards and requirements to implement the provisions of this section. Customers shall pay such rates, fees and/or charges as may be established from time to time by resolution of the city council to fund, among other costs, the development and implementation of the phased meter installation program.

13.04.310 Reading meters.

The customer receiving city water service shall keep water meters unobstructed and accessible for reading, maintenance and repair, and shall provide the department's employees and/or its contractors access to the premises where the customer receives water service as may be required by the city for such purposes. Compliance with this section shall be a condition of receiving or continuing to receive city water service.

13.04.320 Testing meters.

Any metered customer may request in writing that the meter through which water is being furnished be examined and tested by the department to determine whether the meter is registering accurately the amount of water that is being delivered through it. Upon receipt of such request, the department shall examine and test the meter. If the meter is found to register over three percent more water than actually passes through it, the customer's water bill will be adjusted accordingly. If the meter is found to register a

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DATE ADOPTED: _____

variance of three percent or less, no billing adjustment will be made. Meter testing will be performed at a customer's request, at no charge to the customer, not more than once every twelve (12) months.

If a customer requests more frequent testing, the customer's request shall be accompanied by a deposit of an amount equal to the monthly minimum meter charge. Upon receipt of such request, the department shall examine and test the meter. If the meter is found to register over three percent more water than actually passes through it, the customer's water bill will be adjusted accordingly and the deposit shall be returned, without interest. If the meter is found to register a variance of three percent or less, no billing adjustment will be made and the deposit shall be used by the city to pay its inspection and testing costs.

13.04.330 Water meter use--Indemnity.

No person other than authorized employees of the department or other persons duly authorized by the director shall install, maintain, repair, move, replace, adjust, tamper with, manipulate, damage, disconnect or remove any water meter. Any person or entity performing any of the foregoing actions, whether or not authorized by the department, shall pay the city's costs of investigating and repairing any resulting damage and/or replacing any removed item(s), and shall indemnify and hold harmless city, its officers and employees from any claims, actions, costs (including attorney fees), damages or other liability resulting or arising from such damage or removal.

13.04.340 Reserved.

DATE PASSED FOR PUBLICATION:

DATE ENACTED:

DATE EFFECTIVE:

MAYOR

ATTEST:

CITY CLERK

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ORDINANCE NO. _____

DATE ADOPTED: _____



REPORT TO COUNCIL

City of Sacramento

15

915 I Street, Sacramento, CA 95814-2671
www.CityofSacramento.org

CONSENT
November 1, 2005

Honorable Mayor and
Members of the City Council

Subject: Water Meter Program

Location/Council District: Citywide

Recommendation: 1) Adopt an Ordinance amending the City Code provision relating to water meters (Amending Section 13.04.030, Adding Section 13.04.065 and Amending Article III of Chapter 13.04 of the City Code)

Contact: Dave Brent, Engineering Manager, 808-1420; Dan Sherry, Supervising Engineer, 808-1419

Presenters: Gary Reents, Director of Utilities, 808-1433

Department: Utilities

Division: Engineering Services

Organization No: 3332

Summary:

The proposed ordinance amends Section 13.04.030, adds Section 13.04.065 and amends Article III of Chapter 13.04 of the Sacramento City Code to comply with A.B. 2572, that mandates the installation of water meters on all service connections by January 1, 2025.

Committee/Commission Action: On September 6, 2005 the Law and Legislation Committee made the recommendation that Council approved the attached ordinance.

Background Information:

A.B. 2572 was passed by the Legislature on August 26, 2004, and signed by Governor Schwarzenegger on September 29, 2004. This bill mandates that water meters be installed on all municipal and industrial water service connections by January 1, 2025. Previous State water meter legislation (S.B. 229) required the installation of water meters for new water service connections made on or after January 1, 1992. As noted in the proposed ordinance, the requirements of A.B. 2572 and S.B. 229 have

superseded the long-standing residential water meter prohibition set forth in the City Charter.

The Department of Utilities has gone before City Council and the Law and Legislative Committee regarding the Water Meter Program mandated by A.B. 2572 as follows:

- November 4, 2004, presented an informational workshop on water meters to the City Council.
- March 1, 2005, requested that the Law and Legislative Committee revise the 2004-2005 State and Federal Legislative Platforms to include water meter funding.
- March 22, 2005, requested guidance from the City Council on the meter implementation options.
- May 24, 2005, the City Council adopted Resolution No. 2005-347 approving the Department of Utilities water meter implementation plan criteria, the placement of water meters in the sidewalk, and the institution of a voluntary metered rate program.
- September 6, 2005, requested that the Law and Legislation Committee approve and forward the attached ordinance to City Council for their approval.

The City Code presently contains water meter provisions that were adopted following the enactment of S.B. 229 in 1991. The Department of Utilities and the City Attorney's Office staff drafted the proposed ordinance to conform the City Code's water meter provisions to the new mandates of A.B. 2572.

The proposed ordinance includes the following provisions:

- The City's Director of Utilities is directed to develop and implement a phased program for water meter installation as necessary to comply with provisions of A.B. 2572, and consistent with direction provided by City Council resolution.
- The cost incurred to fund this program will be paid by customers of the City's water system, as authorized by Water Code Section 527(b), through rates, fees or charges established by City Council resolution.
- Customers receiving City water service are required to provide the department's employees or contractors access to and use of the premises where the customer receives water service as may be required for the City's installation, maintenance, repair or removal of any pipelines and meter facilities used to provide water service, as well as for meter reading.

Financial Considerations:

The water meter program will be coordinated with the ongoing relocation of backyard mains. The total projected cost for installation of water meters and relocating backyard

mains is approximately \$350 million, approximately \$150 million to install meters and approximately \$200 million to abandon backyard mains and construct new mains in the street.

Environmental Considerations:

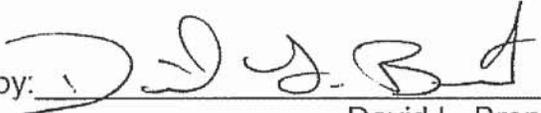
Adoption of an ordinance to bring the City Code into compliance with A.B. 2572 does not constitute a discretionary approval subject to CEQA, since the City has no choice but to comply with the State's regulatory mandate. Implementation of the meter program also is exempt from the provisions of CEQA pursuant to Section 15301 (b) of the CEQA Guidelines, pertaining to the operation and minor alteration of facilities used to provide public utility services involving no expansion of use.

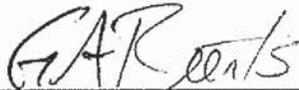
Policy Considerations:

A.B. 2572 mandates that water meters be installed on all service connections before January 1, 2025, and that customers served by metered service connections begin being billed on a metered rate on January 1, 2010, or at the end of one calendar year after meter installation.

Emerging Small Business Development (ESBD):

Not applicable. There are no goods or services being purchased as a direct result of this report.

Respectfully Submitted by: 
David L. Brent
Engineering Manager

Approved by: 
Gary A. Reents
Director of Utilities

Recommendation Approved:

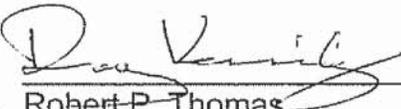

For Robert P. Thomas
City Manager

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ORDINANCE NO.

ADOPTED BY THE SACRAMENTO CITY COUNCIL

**AN ORDINANCE AMENDING SECTION
13.04.030, ADDING SECTION 13.04.065
AND AMENDING ARTICLE III OF
CHAPTER 13.04 OF THE SACRAMENTO
CITY CODE, RELATING TO WATER METERS**

BE IT ENACTED BY THE COUNCIL OF THE CITY OF SACRAMENTO:

SECTION 1

The City Council hereby makes the following findings:

1. Article III of Chapter 13.04 of the Sacramento City Code requires that all new water service connections made to the City water system on or after January 1, 1992, be equipped with a water meter, as required by Water Code Section 525, adopted by Senate Bill 229 (SB 229) in 1991 (Chapter 407 of Stats 1991).
2. In 2004, Assembly Bill 2572 (AB 2572) was signed into law (Chapter 884 of Stats 2004). Among other provisions, AB 2572 enacted Water Code Section 527, that requires an urban water supplier to (i) install water meters on all service connections located within its service area on or before January 1, 2025, and (ii) charge metered rates to customers that have water service connections for which water meters have been installed, beginning not later than January 1, 2010 (provided that metered billing may be delayed for one annual seasonal cycle of water use for services being converted from flat rate to metered billing). AB 2572 became effective January 1, 2005.
3. In enacting AB 2572, the Legislature found that the provision of water on a non-metered basis has caused, and will continue to cause, waste and unreasonable use of water. Article X, section 2 of the California Constitution and Water Code Section 100 provide that rights to the use of water in California do not extend to any waste or unreasonable use of water. These provisions apply to the water rights that the City relies upon to supply water to all customers of the City's water system. AB 2572 also requires any urban water supplier that applies for specified State funding or for a permit for a new or expanded water supply on or after January 1, 2010, to demonstrate compliance with the requirements specified in AB 2572.

4. In the absence of SB 229 and AB 2572, the City could not require the installation of meters on any residential water service, due to Section 11 of the Sacramento City Charter, that prohibits meters on residential water pipes. However, the requirements now mandated by SB 229 and AB 2572 have superseded City Charter Section 11, because these state laws address a subject matter of statewide concern. The Legislature also has declared that these requirements supersede and preempt all conflicting enactments of charter cities, including charter provisions.
5. The City has approximately 100,000 water service connections without water meters. In order to accomplish the installation of water meters on all of the unmetered connections by January 1, 2025, as mandated by Water Code Section 527, it will be necessary to implement a long-term phased water meter installation program that incrementally installs water meters until January 1, 2025. Water Code section 527(b) provides that an urban water supplier may recover the cost of implementing this program from rates, fees or charges.
6. It is necessary and desirable to direct the City's Director of Utilities to develop and implement a phased program for water meter installation as necessary to comply with the provisions of AB 2572. The costs incurred to fund this program should be paid by customers of the City's water system through rates, fees or charges, as authorized by Water Code Section 527(b).
7. The foregoing costs should be included in the rates paid by all retail water service customers of the City's water system because:
 - A. These costs must be incurred to comply with a state regulatory mandate that applies to the operation of the City's entire water system which provides water service to all City water customers. It is necessary to incur these costs for the City's water system to remain in compliance with State law, avoid subjecting the City's water rights to any claim of waste or unreasonable use of water, and maintain the eligibility of the City's water system for specified State funding and permits on and after January 1, 2010.
 - B. All customers receiving water from the City's water system will benefit from the City's compliance with this mandate, and a failure to comply with this mandate would have significant adverse effects on the City's entire water system and all customers receiving water service from the City's water system.
 - C. Increased water conservation resulting from the implementation of a program for water meter installation and metered billing for all City water service connections will reduce future increases in water demand and associated operational costs, for the benefit of the City's entire water system and all customers receiving water service from the City's water system.

- D. Since water meters generally require replacement every 10-20 years, even customers required to install water meters under SB 229 will benefit from the City's replacement of the water meters on their water service connections when needed during the City's phased water meter installation program and thereafter.
- 8. Adoption of this ordinance is necessary to comply with the state's regulatory mandate imposed by AB 2572.

SECTION 2

Section 13.04.030 of the Sacramento City Code is amended as follows:

- A. The definition of "water meter" in Section 13.04.030 is amended to read as follows:

Water~~"Water meter: A"~~ means a water meter provided or approved by the city that is installed on a water service connection in a manner that measures the volume of all water taken from the city water distribution system through that water service connection. As used in article III of this chapter, "water meter" shall include the water meter, the meter box containing the water meter and all related attachments and equipment.
- B. Except as specifically amended above, all other provisions of Sacramento City Code section 13.04.030 shall remain unchanged and in full force and effect.

SECTION 3

Section 13.04.065 is added to the Sacramento City Code to read as follows:

13.04.065 Access to customer premises.

A customer receiving city water service shall provide the department's employees and/or contractors access to and use of the premises where city water service is received as may be required by the city's employees or contractors for the installation, maintenance, repair or removal of any pipelines, water meters and other appurtenances used to provide or measure city water service to the customer's premises or to adjacent premises, and/or as may be required by the city for purposes of connecting, reconnecting or relocating the connection for city water service to any such premises. Compliance with the foregoing requirements shall be a condition of the customer receiving or continuing to receive city water service. If the customer refuses to allow such access, the city also may seek authorization from any court of competent jurisdiction for such access.

SECTION 4

Article III of Chapter 13.04 of the Sacramento City Code is amended to read, in its entirety, as follows:

Article III. Water Meters

13.04.280 Intent and purpose.

~~A. This chapter is enacted to implement the~~ The provisions of Chapter 407 of Stats 1991, as codified within the California Water Code at Chapter 1, § 110, and Chapter 8 commencing with § 500.

~~B. This chapter is enacted solely~~ §§ 521 and following, impose various requirements for the installation and use of water meters. This article is enacted to comply with state law and is not otherwise intended to repeal, amend or interpret the provision of the City Charter that prohibits and implement these state law requirements.

13.04.290 Installation of water meters on residential water service pipes:

~~13.04.290 Water meters required—Adoption of standards and requirements:~~

~~—No connections made on or after January 1, 1992.~~

A. In accordance with the provisions of California Water Code § 525, no new water service connections may be attached to the city water distribution system on or after January 1, 1992, unless such connection is equipped with a water meter. As used in this section, "new water service connection" includes any existing water service connection that is used to provide water to buildings or residential units constructed on or after January 1, 1992. Fire service connections are exempt from the provisions of this chapter. The director may adopt standards and requirements to implement the provisions of this chaptersection.

~~13.04.300 Water meter fee:~~

B. Prior to the installation of a water meter in accordance with the terms of this chaptersection, the customer shall pay any applicable fee established from time to time by resolution of the city council to recover costs incurred by the city to provide, install or supervise the installation of the water meter.

~~13.04.310 Requirements for installation of water meter:~~

~~_____~~ A. ~~Water meters~~

C. Water meters for water service connections made on or after January 1, 1992 shall be installed by the city or under the city's supervision in accordance with all applicable city water and building codes, regulations, and standards.

~~—~~

~~_____~~ B. D. A water meter for a water service connection made on or after January 1, 1992 shall not be installed unless a plumbing permit has been issued.

~~—~~

~~_____~~ C. E. Meters for water service connections made on or after January 1, 1992 shall be installed above ground on metered water services three inches and larger in diameter that require the installation of a backflow prevention assembly installation.

~~—~~

~~_____~~ D. F. No occupancy permit for any structure served by ~~the new~~ a water service connection made on or after January 1, 1992 shall be issued until meter installation is complete.

~~13.04.320~~ Access

13.04.300 Phased Meter Installation Program.

California Water Code § 527 requires the city to install water meters on all water service connections on or before January 1, 2025. In order to comply with this requirement, the director shall develop and implement a phased program to accomplish, by January 1, 2025, the installation of water meters on all city water service connections that existed without meters as of January 1, 2005. Such program shall comply with any requirements specified or approved by resolution(s) of the city council, including resolution(s) adopted prior to the effective date of the ordinance enacting this section. The director may adopt standards and requirements to implement the provisions of this section. Customers shall pay such rates, fees and/or charges as may be established from time to time by resolution of the city council to fund, among other costs, the development and implementation of the phased meter installation program.

13.04.310 Reading meters.

The customer receiving city water service shall keep water meters unobstructed and accessible for reading, maintenance and repair. The customer, and shall provide the department staff's employees and/or its contractors access to the premises receiving where the customer receives water service as may be required for the reading, maintenance and

~~repair of water meters, and shall keep water meters and meter boxes clean and accessible~~ by the city for such purposes. Compliance with this section shall be a condition of receiving or continuing to receive city water service.

13.04.3320 Testing meters.

Any metered customer may request in writing that the meter through which water is being furnished be examined and tested by the department to determine whether the meter is registering accurately the amount of water that is being delivered through it. Upon receipt of such request, the department shall ~~cause~~ examine and test the meter ~~to be examined and tested~~. If the meter is found to register over three percent more water than actually passes through it, the customer's water bill will be adjusted accordingly. If the meter is found to register a variance of three percent or less, no billing adjustment will be made. Meter testing will be performed at a customer's request, at no charge to the customer, not more than once every twelve (12) months.

If a customer requests more frequent testing, the customer's request shall be accompanied by a deposit of an amount equal to the monthly minimum meter charge. Upon receipt of such request, the department shall ~~cause~~ examine and test the meter ~~to be examined and tested~~. If the meter is found to register over three percent more water than actually passes through it, the customer's water bill will be adjusted accordingly and the deposit shall be returned, without interest. If the meter is found to register a variance of three percent or less, no billing adjustment will be made and the deposit shall be used by the city to pay its inspection and testing costs.

13.04.3430 Water meter use--Indemnity.

No person other than authorized employees of the department or other persons duly authorized by the director shall install, maintain, repair, move, replace, adjust, tamper with, manipulate, damage, disconnect or remove any water meter. Any person or entity performing any of the foregoing actions, whether or not authorized by the department, shall pay the city's costs of investigating and repairing any resulting damage and/or replacing any removed item(s), and shall indemnify and hold harmless city, its officers and employees from any claims, actions, costs (including attorney fees), damages or other liability resulting or arising from such damage or removal.

13.04.340 Reserved.

ORDINANCE NO.

ADOPTED BY THE SACRAMENTO CITY COUNCIL

**AN ORDINANCE AMENDING SECTION
13.04.030, ADDING SECTION 13.04.065
AND AMENDING ARTICLE III OF
CHAPTER 13.04 OF THE SACRAMENTO
CITY CODE, RELATING TO WATER METERS**

BE IT ENACTED BY THE COUNCIL OF THE CITY OF SACRAMENTO:

SECTION 1

The City Council hereby makes the following findings:

1. Article III of Chapter 13.04 of the Sacramento City Code requires that all new water service connections made to the City water system on or after January 1, 1992, be equipped with a water meter, as required by Water Code Section 525, adopted by Senate Bill 229 (SB 229) in 1991 (Chapter 407 of Stats 1991).
2. In 2004, Assembly Bill 2572 (AB 2572) was signed into law (Chapter 884 of Stats 2004). Among other provisions, AB 2572 enacted Water Code Section 527, that requires an urban water supplier to (i) install water meters on all service connections located within its service area on or before January 1, 2025, and (ii) charge metered rates to customers that have water service connections for which water meters have been installed, beginning not later than January 1, 2010 (provided that metered billing may be delayed for one annual seasonal cycle of water use for services being converted from flat rate to metered billing). AB 2572 became effective January 1, 2005.
3. In enacting AB 2572, the Legislature found that the provision of water on a non-metered basis has caused, and will continue to cause, waste and unreasonable use of water. Article X, section 2 of the California Constitution and Water Code Section 100 provide that rights to the use of water in California do not extend to any waste or unreasonable use of water. These provisions apply to the water rights that the City relies upon to supply water to all customers of the City's water system. AB 2572 also requires any urban water supplier that applies for specified State funding or for a permit for a new or expanded water supply on or after January 1, 2010, to demonstrate compliance with the requirements specified in AB 2572.

4. In the absence of SB 229 and AB 2572, the City could not require the installation of meters on any residential water service, due to Section 11 of the Sacramento City Charter, that prohibits meters on residential water pipes. However, the requirements now mandated by SB 229 and AB 2572 have superseded City Charter Section 11, because these state laws address a subject matter of statewide concern. The Legislature also has declared that these requirements supersede and preempt all conflicting enactments of charter cities, including charter provisions.
5. The City has approximately 100,000 water service connections without water meters. In order to accomplish the installation of water meters on all of the unmetered connections by January 1, 2025, as mandated by Water Code Section 527, it will be necessary to implement a long-term phased water meter installation program that incrementally installs water meters until January 1, 2025. Water Code section 527(b) provides that an urban water supplier may recover the cost of implementing this program from rates, fees or charges.
6. It is necessary and desirable to direct the City's Director of Utilities to develop and implement a phased program for water meter installation as necessary to comply with the provisions of AB 2572. The costs incurred to fund this program should be paid by customers of the City's water system through rates, fees or charges, as authorized by Water Code Section 527(b).
7. The foregoing costs should be included in the rates paid by all retail water service customers of the City's water system because:
 - A. These costs must be incurred to comply with a state regulatory mandate that applies to the operation of the City's entire water system which provides water service to all City water customers. It is necessary to incur these costs for the City's water system to remain in compliance with State law, avoid subjecting the City's water rights to any claim of waste or unreasonable use of water, and maintain the eligibility of the City's water system for specified State funding and permits on and after January 1, 2010.
 - B. All customers receiving water from the City's water system will benefit from the City's compliance with this mandate, and a failure to comply with this mandate would have significant adverse effects on the City's entire water system and all customers receiving water service from the City's water system.
 - C. Increased water conservation resulting from the implementation of a program for water meter installation and metered billing for all City water service connections will reduce future increases in water demand and associated operational costs, for the benefit of the City's entire water system and all customers receiving water service from the City's water system.

- D. Since water meters generally require replacement every 10-20 years, even customers required to install water meters under SB 229 will benefit from the City's replacement of the water meters on their water service connections when needed during the City's phased water meter installation program and thereafter.
8. Adoption of this ordinance is necessary to comply with the state's regulatory mandate imposed by AB 2572.

SECTION 2

Section 13.04.030 of the Sacramento City Code is amended as follows:

- A. The definition of "water meter" in Section 13.04.030 is amended to read as follows:

"Water meter" means a water meter provided or approved by the city that is installed on a water service connection in a manner that measures the volume of all water taken from the city water distribution system through that water service connection. As used in article III of this chapter, "water meter" shall include the water meter, the meter box containing the water meter and all related attachments and equipment.
- B. Except as specifically amended above, all other provisions of Sacramento City Code section 13.04.030 shall remain unchanged and in full force and effect.

SECTION 3

Section 13.04.065 is added to the Sacramento City Code to read as follows:

13.04.065 Access to customer premises.

A customer receiving city water service shall provide the department's employees and/or contractors access to and use of the premises where city water service is received as may be required by the city's employees or contractors for the installation, maintenance, repair or removal of any pipelines, water meters and other appurtenances used to provide or measure city water service to the customer's premises or to adjacent premises, and/or as may be required by the city for purposes of connecting, reconnecting or relocating the connection for city water service to any such premises. Compliance with the foregoing requirements shall be a condition of the customer receiving or continuing to receive city water service. If the customer refuses to allow such access, the city also may seek authorization from any court of competent jurisdiction for such access.

SECTION 4

Article III of Chapter 13.04 of the Sacramento City Code is amended to read, in its entirety, as follows:

Article III. Water Meters

13.04.280 Intent and purpose.

The provisions of California Water Code §§ 521 and following, impose various requirements for the installation and use of water meters. This article is enacted to comply with and implement these state law requirements.

13.04.290 Installation of water meters on water service connections made on or after January 1, 1992.

- A. In accordance with the provisions of California Water Code § 525, no new water service connections may be attached to the city water distribution system on or after January 1, 1992, unless such connection is equipped with a water meter. As used in this section, "new water service connection" includes any existing water service connection that is used to provide water to buildings or residential units constructed on or after January 1, 1992. Fire service connections are exempt from the provisions of this chapter. The director may adopt standards and requirements to implement the provisions of this section.
- B. Prior to the installation of a water meter in accordance with the terms of this section, the customer shall pay any applicable fee established from time to time by resolution of the city council to recover costs incurred by the city to provide, install or supervise the installation of the water meter.
- C. Water meters for water service connections made on or after January 1, 1992 shall be installed by the city or under the city's supervision in accordance with all applicable city water and building codes, regulations, and standards.
- D. A water meter for a water service connection made on or after January 1, 1992 shall not be installed unless a plumbing permit has been issued.
- E. Meters for water service connections made on or after January 1, 1992 shall be installed above ground on metered water services three inches and larger in diameter that require the installation of a backflow prevention assembly installation.

- F. No occupancy permit for any structure served by a water service connection made on or after January 1, 1992 shall be issued until meter installation is complete.

13.04.300 Phased Meter Installation Program.

California Water Code § 527 requires the city to install water meters on all water service connections on or before January 1, 2025. In order to comply with this requirement, the director shall develop and implement a phased program to accomplish, by January 1, 2025, the installation of water meters on all city water service connections that existed without meters as of January 1, 2005. Such program shall comply with any requirements specified or approved by resolution(s) of the city council, including resolution(s) adopted prior to the effective date of the ordinance enacting this section. The director may adopt standards and requirements to implement the provisions of this section. Customers shall pay such rates, fees and/or charges as may be established from time to time by resolution of the city council to fund, among other costs, the development and implementation of the phased meter installation program.

13.04.310 Reading meters.

The customer receiving city water service shall keep water meters unobstructed and accessible for reading, maintenance and repair, and shall provide the department's employees and/or its contractors access to the premises where the customer receives water service as may be required by the city for such purposes. Compliance with this section shall be a condition of receiving or continuing to receive city water service.

13.04.320 Testing meters.

Any metered customer may request in writing that the meter through which water is being furnished be examined and tested by the department to determine whether the meter is registering accurately the amount of water that is being delivered through it. Upon receipt of such request, the department shall examine and test the meter. If the meter is found to register over three percent more water than actually passes through it, the customer's water bill will be adjusted accordingly. If the meter is found to register a variance of three percent or less, no billing adjustment will be made. Meter testing will be performed at a customer's request, at no charge to the customer, not more than once every twelve (12) months.

If a customer requests more frequent testing, the customer's request shall be accompanied by a deposit of an amount equal to the monthly minimum meter charge. Upon receipt of such request, the department shall examine and test the meter. If the meter is found to register over three percent more water than actually passes through it, the customer's water bill will be adjusted accordingly and the deposit shall be returned, without interest. If the meter is found to register a variance of three percent or less, no

billing adjustment will be made and the deposit shall be used by the city to pay its inspection and testing costs.

13.04.330 Water meter use--Indemnity.

No person other than authorized employees of the department or other persons duly authorized by the director shall install, maintain, repair, move, replace, adjust, tamper with, manipulate, damage, disconnect or remove any water meter. Any person or entity performing any of the foregoing actions, whether or not authorized by the department, shall pay the city's costs of investigating and repairing any resulting damage and/or replacing any removed item(s), and shall indemnify and hold harmless city, its officers and employees from any claims, actions, costs (including attorney fees), damages or other liability resulting or arising from such damage or removal.

13.04.340 Reserved.

ORDINANCE NO. 2005-090

Adopted by the Sacramento City Council

November 1, 2005

AN ORDINANCE AMENDING SECTION 13.04.030, ADDING SECTION 13.04.065 AND AMENDING ARTICLE III OF CHAPTER 13.04 OF THE SACRAMENTO CITY CODE, RELATING TO WATER METERS

SECTION 1

The City Council hereby makes the following findings:

1. Article III of Chapter 13.04 of the Sacramento City Code requires that all new water service connections made to the City water system on or after January 1, 1992, be equipped with a water meter, as required by Water Code Section 525, adopted by Senate Bill 229 (SB 229) in 1991 (Chapter 407 of Stats 1991).
2. In 2004, Assembly Bill 2572 (AB 2572) was signed into law (Chapter 884 of Stats 2004). Among other provisions, AB 2572 enacted Water Code Section 527, that requires an urban water supplier to (i) install water meters on all service connections located within its service area on or before January 1, 2025, and (ii) charge metered rates to customers that have water service connections for which water meters have been installed, beginning not later than January 1, 2010 (provided that metered billing may be delayed for one annual seasonal cycle of water use for services being converted from flat rate to metered billing). AB 2572 became effective January 1, 2005.
3. In enacting AB 2572, the Legislature found that the provision of water on a non-metered basis has caused, and will continue to cause, waste and unreasonable use of water. Article X, section 2 of the California Constitution and Water Code Section 100 provide that rights to the use of water in California do not extend to any waste or unreasonable use of water. These provisions apply to the water rights that the City relies upon to supply water to all customers of the City's water system. AB 2572 also requires any urban water supplier that applies for specified State funding or for a permit for a new or expanded water supply on or after January 1, 2010, to demonstrate compliance with the requirements specified in AB 2572.
- 4.
4. In the absence of SB 229 and AB 2572, the City could not require the installation of meters on any residential water service, due to Section 11 of the Sacramento City Charter, that prohibits meters on residential water pipes. However, the requirements now mandated by SB 229 and AB 2572 have superseded City Charter

Section 11, because these state laws address a subject matter of statewide concern. The Legislature also has declared that these requirements supersede and preempt all conflicting enactments of charter cities, including charter provisions.

5. The City has approximately 100,000 water service connections without water meters. In order to accomplish the installation of water meters on all of the unmetered connections by January 1, 2025, as mandated by Water Code Section 527, it will be necessary to implement a long-term phased water meter installation program that incrementally installs water meters until January 1, 2025. Water Code section 527(b) provides that an urban water supplier may recover the cost of implementing this program from rates, fees or charges.
6. It is necessary and desirable to direct the City's Director of Utilities to develop and implement a phased program for water meter installation as necessary to comply with the provisions of AB 2572. The costs incurred to fund this program should be paid by customers of the City's water system through rates, fees or charges, as authorized by Water Code Section 527(b).
7. The foregoing costs should be included in the rates paid by all retail water service customers of the City's water system because:
 - A. These costs must be incurred to comply with a state regulatory mandate that applies to the operation of the City's entire water system which provides water service to all City water customers. It is necessary to incur these costs for the City's water system to remain in compliance with State law, avoid subjecting the City's water rights to any claim of waste or unreasonable use of water, and maintain the eligibility of the City's water system for specified State funding and permits on and after January 1, 2010.
 - B. All customers receiving water from the City's water system will benefit from the City's compliance with this mandate, and a failure to comply with this mandate would have significant adverse effects on the City's entire water system and all customers receiving water service from the City's water system.
 - C. Increased water conservation resulting from the implementation of a program for water meter installation and metered billing for all City water service connections will reduce future increases in water demand and associated operational costs, for the benefit of the City's entire water system and all customers receiving water service from the City's water system.
 - D. Since water meters generally require replacement every 10-20 years, even customers required to install water meters under SB 229 will benefit from the City's replacement of the water meters on their water service connections when needed during the City's phased water meter installation program and thereafter.

8. Adoption of this ordinance is necessary to comply with the state's regulatory mandate imposed by AB 2572.

SECTION 2

Section 13.04.030 of the Sacramento City Code is amended as follows:

- A. The definition of "water meter" in Section 13.04.030 is amended to read as follows:

"Water meter" means a water meter provided or approved by the city that is installed on a water service connection in a manner that measures the volume of all water taken from the city water distribution system through that water service connection. As used in article III of this chapter, "water meter" shall include the water meter, the meter box containing the water meter and all related attachments and equipment.

- B. Except as specifically amended above, all other provisions of Sacramento City Code section 13.04.030 shall remain unchanged and in full force and effect.

SECTION 3

Section 13.04.065 is added to the Sacramento City Code to read as follows:

13.04.065 Access to customer premises.

A customer receiving city water service shall provide the department's employees and/or contractors access to and use of the premises where city water service is received as may be required by the city's employees or contractors for the installation, maintenance, repair or removal of any pipelines, water meters and other appurtenances used to provide or measure city water service to the customer's premises or to adjacent premises, and/or as may be required by the city for purposes of connecting, reconnecting or relocating the connection for city water service to any such premises. Compliance with the foregoing requirements shall be a condition of the customer receiving or continuing to receive city water service. If the customer refuses to allow such access, the city also may seek authorization from any court of competent jurisdiction for such access.

SECTION 4

Article III of Chapter 13.04 of the Sacramento City Code is amended to read, in its entirety, as follows:

Article III. Water Meters

13.04.280 Intent and purpose.

The provisions of California Water Code §§ 521 and following, impose various requirements for the installation and use of water meters. This article is enacted to comply with and implement these state law requirements.

13.04.290 Installation of water meters on water service connections made on or after January 1, 1992.

- A. In accordance with the provisions of California Water Code § 525, no new water service connections may be attached to the city water distribution system on or after January 1, 1992, unless such connection is equipped with a water meter. As used in this section, "new water service connection" includes any existing water service connection that is used to provide water to buildings or residential units constructed on or after January 1, 1992. Fire service connections are exempt from the provisions of this chapter. The director may adopt standards and requirements to implement the provisions of this section.
- B. Prior to the installation of a water meter in accordance with the terms of this section, the customer shall pay any applicable fee established from time to time by resolution of the city council to recover costs incurred by the city to provide, install or supervise the installation of the water meter.
- C. Water meters for water service connections made on or after January 1, 1992 shall be installed by the city or under the city's supervision in accordance with all applicable city water and building codes, regulations, and standards.
- D. A water meter for a water service connection made on or after January 1, 1992 shall not be installed unless a plumbing permit has been issued.
- E. Meters for water service connections made on or after January 1, 1992 shall be installed above ground on metered water services three inches and larger in diameter that require the installation of a backflow prevention assembly installation.
- F. No occupancy permit for any structure served by a water service connection made on or after January 1, 1992 shall be issued until meter installation is complete.

13.04.300 Phased Meter Installation Program.

California Water Code § 527 requires the city to install water meters on all water service connections on or before January 1, 2025. In order to comply with this requirement, the director shall develop and implement a phased program to accomplish, by January 1, 2025, the installation of water meters on all city water service connections that

existed without meters as of January 1, 2005. Such program shall comply with any requirements specified or approved by resolution(s) of the city council, including resolution(s) adopted prior to the effective date of the ordinance enacting this section. The director may adopt standards and requirements to implement the provisions of this section.

Customers shall pay such rates, fees and/or charges as may be established from time to time by resolution of the city council to fund, among other costs, the development and implementation of the phased meter installation program.

13.04.310 Reading meters.

The customer receiving city water service shall keep water meters unobstructed and accessible for reading, maintenance and repair, and shall provide the department's employees and/or its contractors access to the premises where the customer receives water service as may be required by the city for such purposes. Compliance with this section shall be a condition of receiving or continuing to receive city water service.

13.04.320 Testing meters.

Any metered customer may request in writing that the meter through which water is being furnished be examined and tested by the department to determine whether the meter is registering accurately the amount of water that is being delivered through it. Upon receipt of such request, the department shall examine and test the meter. If the meter is found to register over three percent more water than actually passes through it, the customer's water bill will be adjusted accordingly. If the meter is found to register a variance of three percent or less, no billing adjustment will be made. Meter testing will be performed at a customer's request, at no charge to the customer, not more than once every twelve (12) months.

If a customer requests more frequent testing, the customer's request shall be accompanied by a deposit of an amount equal to the monthly minimum meter charge. Upon receipt of such request, the department shall examine and test the meter. If the meter is found to register over three percent more water than actually passes through it, the customer's water bill will be adjusted accordingly and the deposit shall be returned, without interest. If the meter is found to register a variance of three percent or less, no billing adjustment will be made and the deposit shall be used by the city to pay its inspection and testing costs.

13.04.330 Water meter use--Indemnity.

No person other than authorized employees of the department or other persons duly authorized by the director shall install, maintain, repair, move, replace, adjust, tamper with, manipulate, damage, disconnect or remove any water meter. Any person or entity performing any of the foregoing actions, whether or not authorized by the department, shall pay the city's costs of investigating and repairing any resulting damage and/or replacing any removed item(s), and shall indemnify and hold harmless city, its officers and

employees from any claims, actions, costs (including attorney fees), damages or other liability resulting or arising from such damage or removal.

13.04.340 Reserved.

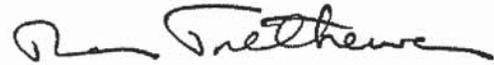
Adopted by the City of Sacramento City Council on November 1, 2005 by the following vote:

Ayes: Councilmembers Cohn, Fong, Hammond, McCarty, Pannell, Sheedy, Tretheway, and Waters.

Noes: None

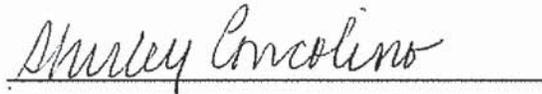
Abstain: None

Absent: Mayor Fargo



Vice-Mayor Ray Tretheway

Attest:



Shirley Concolino, City Clerk

Passed for Publication: October 18, 2005; Published October 21, 2005

Effective: December 1, 2005

Appendix B5

Addition of Water Meter Retrofit Funding to the Legislative Platform



Department of Utilities
Office of the Director

CITY OF SACRAMENTO
CALIFORNIA

1395 35th Avenue
Sacramento, CA 95822-2911
phone (916) 808-1400
fax (916) 808-1497/1498

February 22, 2005

Law and Legislation Committee
Sacramento, California

Honorable Members in Session:

SUBJECT: ADDITION OF WATER METER RETROFIT FUNDING TO THE LEGISLATIVE PLATFORM

LOCATION AND DISTRICT: City Wide

RECOMMENDATION:

Revise 2004-2005 State and Federal Legislative Platforms to include Water Meter Funding.

CONTACT PERSON: Gary A. Reents, Director of Utilities, 808-1433
Jessica Hess, Media and Communications Specialist, 808-8260

FOR MEETING OF: March 1, 2005

SUMMARY:

With the passage of A.B. 2572, the State has mandated that cities install water meters on all properties by January 1, 2025. The law, however, did not provide funding sources for the installation of meters. Other cities have successfully lobbied the State and Federal government for assistance in funding water meter retrofit projects.

COMMITTEE/COMMISSION ACTION:

Law and Legislation

BACKGROUND INFORMATION:

- A.B. 2572 was passed by the Legislature on August 26, 2004 and signed by Governor Schwarzenegger on September 29, 2004.



CITY OF SACRAMENTO
DEPARTMENT
OF UTILITIES

Making a Difference in Your Neighborhood

Law and Legislation Committee
February 22, 2005
Addition of Water Meter Retrofit Funding to the Legislative Platform

- A.B. 2572 requires that water meters be installed on all properties served by an urban water service provider, of which the City of Sacramento, Department of Utilities is one.
- Water meters must be installed on all properties by January 1, 2025.
- Customers must begin being billed on a metered rate beginning January 1, 2010 or after 1 calendar year of meter installation.
- The Department of Utilities estimates that 100,000 meters will need to be installed throughout the City to meet the requirements of this law.
- The Department of Utilities also recommends moving backyard water mains to the front, on the lifecycle of the main, for easier access to the meter and easier maintenance of the pipe and meter. In areas where mains need to be moved, water meters would be installed as part of the construction process.
- The estimated cost of this work is approximately \$300 million.
- Last year, Roseville successfully obtained funding for their water meter retrofit program from the Federal Government.

In an effort to help limit the financial burden of the Water Meter Retrofit Program on residents, the Department of Utilities would like to add Water Meter Retrofit Funding to the State and Federal Legislative Platforms so that the City can work with legislators to obtain funding for this program and limit cost burdens on the City and its residents.

FINANCIAL CONSIDERATIONS:

The total cost for installation of water meters and moving of backyard mains is approximately \$300 million, approximately \$100 million to install meters and approximately \$200 million to abandon backyard mains and install new mains in the front of homes that require such work. Obtaining funding from State or Federal Government sources will help to limit the burden to the City and its residents.

ENVIRONMENTAL DETERMINATION:

This project is currently exempt from California Environmental Quality Act (CEQA) under Section 15301 of the (CEQA) Guidelines, "operation of existing public structures or facilities involving no expansion of use".

POLICY CONSIDERATIONS:

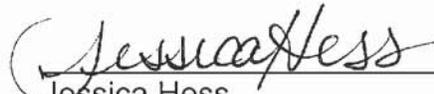
Adding the Water Meter Retrofit funding to the Legislative Platforms will help the City obtain funding from the State and Federal Governments for the Water Meter Retrofit Program. This additional funding will help expand economic development throughout the city by limiting the cost of the retrofit program to the City and its residents.

Law and Legislation Committee
February 22, 2005
Addition of Water Meter Retrofit Funding to the Legislative Platform

ESBD CONSIDERATIONS:

None at this time, but any future work done in conjunction to this project will follow the City's ESBD policies and procedures.

Respectfully submitted,



Jessica Hess
Media and Communications Specialist

RECOMMENDATION APPROVED:



Ken Nishimoto
Assistant City Manager

APPROVED:



Gary A. Reents
Director of Utilities



Department of Utilities
Office of the Director

CITY OF SACRAMENTO
CALIFORNIA

1395 35th Avenue
Sacramento, CA 95822-2911
phone (916) 808-1400
fax (916) 808-1497/1498

March 2, 2005

City Council
Sacramento, California

Honorable Members in Session:

SUBJECT: ADDITION OF WATER METER RETROFIT FUNDING TO THE LEGISLATIVE PLATFORM

LOCATION AND DISTRICT: City Wide

RECOMMENDATION:

Revise 2005 State and Federal Legislative Platforms to include Water Meter Funding.

CONTACT PERSON: Gary A. Reents, Director of Utilities, 808-1433
Jessica Hess, Media and Communications Specialist, 808-8260

FOR MEETING OF: March 15, 2005

SUMMARY:

With the passage of A.B. 2572, the State has mandated that cities install water meters on all properties by January 1, 2025. The law, however, did not provide funding sources for the installation of meters. Other cities have successfully lobbied the State and Federal government for assistance in funding water meter retrofit projects.

COMMITTEE/COMMISSION ACTION:

Law and Legislation passed (3-0) on 3/1/05.

BACKGROUND INFORMATION:

- A.B. 2572 was passed by the Legislature on August 26, 2004 and signed by Governor Schwarzenegger on September 29, 2004.



CITY OF SACRAMENTO
DEPARTMENT
OF UTILITIES

Making a Difference in Your Neighborhood

Law and Legislation Committee

March 2, 2005

Addition of Water Meter Retrofit Funding to the Legislative Platform

- A.B. 2572 requires that water meters be installed on all properties served by an urban water service provider, of which the City of Sacramento, Department of Utilities is one.
- Water meters must be installed on all properties by January 1, 2025.
- Customers must begin being billed on a metered rate beginning January 1, 2010 or after 1 calendar year of meter installation.
- The Department of Utilities estimates that 100,000 meters will need to be installed throughout the City to meet the requirements of this law.
- The Department of Utilities also recommends moving backyard water mains to the front, on the lifecycle of the main, for easier access to the meter and easier maintenance of the pipe and meter. In areas where mains need to be moved, water meters would be installed as part of the construction process.
- The estimated cost of this work is approximately \$300 million.
- In 1999, Roseville successfully obtained funding for their water meter retrofit program from the Federal Government.

In an effort to help limit the financial burden of the Water Meter Retrofit Program on residents, the Department of Utilities would like to add Water Meter Retrofit Funding to the State and Federal Legislative Platforms so that the City can work with legislators to obtain funding for this program and limit cost burdens on the City and its residents.

FINANCIAL CONSIDERATIONS:

The total cost for installation of water meters and moving of backyard mains is approximately \$300 million, approximately \$100 million to install meters and approximately \$200 million to abandon backyard mains and install new mains in the front of homes that require such work. Obtaining funding from State or Federal Government sources will help to limit the burden to the City and its residents.

ENVIRONMENTAL DETERMINATION:

This project is currently exempt from California Environmental Quality Act (CEQA) under Section 15301 of the (CEQA) Guidelines, "operation of existing public structures or facilities involving no expansion of use".

POLICY CONSIDERATIONS:

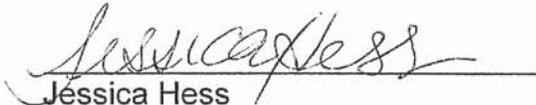
Adding the Water Meter Retrofit funding to the Legislative Platforms will help the City obtain funding from the State and Federal Governments for the Water Meter Retrofit Program. This additional funding will help expand economic development throughout the city by limiting the cost of the retrofit program to the City and its residents.

City Council
March 2, 2005
Addition of Water Meter Retrofit Funding to the Legislative Platform

ESBD CONSIDERATIONS:

None at this time, but any future work done in conjunction to this project will follow the City's ESBD policies and procedures.

Respectfully submitted,



Jessica Hess
Media and Communications Specialist

RECOMMENDATION APPROVED:



Robert P. Thomas
City Manager

APPROVED:



Gary A. Reents
Director of Utilities

Appendix B6

FY 2005/06 Proposed DOU Operations and Capital Improvement Budgets

“To Be Delivered” Material
For
City of Sacramento
City Council
Agenda Packet

Submitted: June 3, 2005

For the Meeting of: June 7, 2005

The attached materials were not available at the time the Agenda Packet was prepared.

Subject: FY2005/06 PROPOSED DEPARTMENT OF UTILITIES OPERATIONS AND CAPITAL IMPROVEMENT BUDGETS, UTILITY RATE ADJUSTMENTS, AND UTILITY DEPARTMENT REORGANIZATION



Approved By:

Contact Information:

Gary Reents, Director of Utilities, 808-1433

Please include this “To Be Delivered” material in your agenda packet. This material will also be published to the City’s Intranet.

For additional information, contact the City Clerk Department at Interim City Hall, 730 I Street, Suite 211, Sacramento, CA 95814-2671 – (916) 808-7200.



Department of Utilities
Office of the Director

CITY OF SACRAMENTO
CALIFORNIA

1395 35th Avenue
Sacramento, CA 95822-2911
phone (916) 808-1400
fax (916) 808-1497/1498

June 7, 2005

City Council
Sacramento, California

Honorable Members in Session:

SUBJECT: FY2005/06 PROPOSED DEPARTMENT OF UTILITIES OPERATIONS AND CAPITAL IMPROVEMENT BUDGETS, UTILITY RATE ADJUSTMENTS, AND UTILITY DEPARTMENT REORGANIZATION

LOCATION AND DISTRICT: D-ALL

RECOMMENDATION:

It is recommended that the City Council adopt an intent motion approving:

- The FY2005/06 Operating Budget for the Department of Utilities;
- The FY2005/06 Capital Budget and the 2005-2010 Capital Improvement Program (CIP) for Utilities as amended; and
- Amendments to the Fee and Charge Report to reflect a two-year increase for water use rates (9 percent increase) and sewer use rates (6 percent increase); and a one-year increase for solid waste rates (4.7 percent overall increase).

CONTACT PERSON: Gary Reents, Director, 808-1433
Karen Lane, Acting Program Manager, 808-8995

FOR COUNCIL MEETING OF: June 7, 2005



CITY OF SACRAMENTO
DEPARTMENT
OF UTILITIES

Making a Difference in Your Neighborhood

SUMMARY:

This report provides information on the: FY2005/06 Proposed Department of Utilities Operating Budget including augmentations; 2005-2010 Utilities Capital Improvement Program; and Water, Sewer, and Solid Waste Rate Adjustments. This report recommends adoption of a two-year fee and charge adjustments for water and sewer use rates and one-year fee and charge adjustment for solid waste rates, to be effective on July 1, 2005. Notification of the proposed rate change was sent to property owners on April 22, 2005 in accordance with the provisions of Proposition 218 (see Attachment C).

COMMITTEE/COMMISSION ACTION: None

BACKGROUND INFORMATION:

Department of Utilities Operating Budget

The Department of Utilities provides and maintains water, sewer and storm drainage and flood control services and facilities. In the FY2005/06 proposed budget the City Manager recommends solid waste services be added to the services provided by the Department of Utilities in FY2005/06. These services and facilities are provided for its customers, the ratepayers of the City, and are in place to safeguard the health of the public, contribute to economic development, and improve the quality of life in our City. Revenues are generated from user fees to fund these objectives. The Department works in conjunction with other City Departments, Sacramento County, regional, state and federal agencies in the development and rehabilitation of urban utility infrastructure and efforts related to recycling, landfill closures and disposal of solid waste.

The Department of Utilities is an enterprise operation, self-supported through fee and charge revenues. As proposed, the Department of Utilities will consist of four enterprise funds: Water Fund, Sewer Fund, Storm Drainage Fund and the Solid Waste Fund. The FY2005/06 Proposed Operating Budget for the department totals \$113.1 million and includes 722 full-time equivalent (FTE) positions.

Accomplishments: Some of the significant Department accomplishments for FY2004/05 include:

- Continued replacement of aging water, sewer, and storm drainage infrastructure throughout the City.
- Removed 55,000 properties from the regulatory floodplain.
- Established Combined Sewer System development fee in the downtown area.
- Significantly improved reliability of many drainage-pumping stations by updating electrical and mechanical systems.
- Continued expansion of water and drainage systems to service the North Natomas area.
- Near completion of the Fairbairn Water Treatment Plan expansion.

Organizational Changes: The following reorganizations have been developed with the goal of improving customer service delivery, increasing customer service quality, eliminating redundancies, allowing for integration of systems for improved tracking and accountability, and will ultimately reduce costs. The proposed Department organizational changes are as follows:

- Transfer of City Operator functions (9 FTE) from the Department of Utilities to the Department of General Services.
- Transfer of the utility billing function from the Department of Finance (24 FTE) to the Department of Utilities as part of the citywide reorganization of utility services.
- Transfer of the Solid Waste Division (213 FTE) from the Department of General Services to the Department of Utilities.

2005-2010 CIP – Utilities Program

The 2005-2010 City Utilities CIP totals \$126.1 million and includes 126 projects. This is \$13.6 million or 12.6 percent more than the CIP total for the previous 2004-2009 five-year plan. The FY2005/06 Capital Budget for the Utilities Program totals \$22.3 million. To address items that have been identified since the CIP document was printed, staff is recommending that the funding for 11 projects included in the CIP be amended resulting in a total increase of \$265,040 (see Attachment A).

Utility Rate Adjustments

Public Notification: Articles XIIC and D of the California Constitution (Proposition 218) establish various procedures for the approval of local taxes, assessments and property-related service fees. For the imposition or increase of water, sewer and refuse collection service fees that are “property-related fees” within the meaning of Proposition 218, Proposition 218 requires that a notice describing the proposed fee or fee increase and establishing a public hearing on the proposed fee or fee increase, be mailed to the record owner of each parcel subject to the proposed fee or fee increase. At the public hearing (held not less than 45 days after the notice is mailed), Proposition 218 requires the agency to consider all protests filed against the proposed fee or fee increase, and prohibits the agency from approving the proposed fee or fee increase if written protests against the proposed fee or fee increase are presented by a majority of the owners of the affected parcels.

Pursuant to Proposition 218 and City Code Chapter 3.44, on April 22, 2005, the City mailed notice of the proposed increases to all owners of property subject to the fees. The following summarizes the results of the notification process as of May 20, 2005:

Total Notices Mailed	126,649
Notices Returned as Undeliverable; unable to re-mail	1,889 (1.5%)
Total Written Protests Received	161 (<1%)
Written Protest Summary	
No Specific Comment	92
Increase is Excessive or Unjustified	30
Increase causes a Financial Hardship	25
Quality/Level of Service Does Not Warrant Increase	14

Any additional information received prior to the public hearing, including the total number of written protests that have been received by the City Clerk, will be presented to the City Council in a verbal report on June 7, 2005. All protests received are on file and available for review in the Office of the City Clerk.

FINANCIAL CONSIDERATIONS:

FY2005/06 Proposed Operations Budget: The FY2005/06 proposed operations budget for the Department of Utilities includes 722 FTE with a total budget of \$113.1 million.

The City Manager’s recommended augmentations for the Department of Utilities Enterprise Funds equal \$3.3 million, which includes a budget increase of \$495,562 for five new positions to address increased workloads in field services, engineering, and information technology due to growth of the City and its infrastructure.

The specific positions are as follows:

- 2 Utility Field Serviceworkers
- 1 Utility Field Leadworker
- 1 Senior Engineer
- 1 GIS Specialist I

Also, included is a \$2.8 million increase in funding for equipment and supplies to ensure the operating budget is in line with actual expenditures.

FY2005/06 Proposed Capital Improvement Program Budget: The FY2005/06 Capital Budget for Utilities as presented in the 2005-2010 Proposed CIP totals \$22.3 million. The Department recommends adjusting the funding as follows (detailed information on the proposed change is included as Attachment A:

Fund	Proposed	Proposed Amendment	Change
Water	\$10,653,040	\$10,963,000	\$309,960
Sewer	\$6,070,750	\$5,495,750	(\$575,000)
Storm Drainage	\$5,165,250	\$5,165,250	---
Solid Waste	\$367,000	\$367,000	---
Total FY2005/06 CIP Budget	\$22,256,040	\$21,991,000	\$265,040

Proposed Rate Adjustments:

Water Fund: The Department of Utilities proposes that water service rates (metered and unmetered service) be increased by 9 percent in FY2005/06 and 9 percent in FY2006/07. These increases will provide funding to rehabilitate, replace and improve aging pipes and facilities, reliably meet municipal water supply needs, and ensure compliance with state

and federal water treatment regulations, pay for increased costs of operations and maintenance, and ensure rates accurately reflect the cost to provide the service. A portion of these increases is also needed to provide initial funding for the installation of approximately 100,000 water meters over the next 20 years, as mandated by Assembly Bill 2572.

The City's current monthly charge for a typical single-family household (6-9 room residence) is \$20.06. The proposed monthly rate for FY2005/06 is \$21.87 per month, an increase of \$1.81 per month, or \$21.72 per year. The proposed monthly rate in FY2006/07 is \$23.83, an increase of \$1.97 per month, or \$23.64 a year. The effect of these rate increases on the monthly utility bill of the typical residential user is displayed in Attachment B. A comparison chart of the City's proposed water service fee and other local water providers is displayed in Attachment E. As displayed in the comparison chart, the City of Sacramento proposed residential monthly rate based on the survey results is the third lowest among other water providers in the region.

Sewer Fund: The Department of Utilities proposes that sewer collection service rates be increased by 6 percent in FY2005/06 and 6 percent in FY2006/07. These increases will provide funding to continue rehabilitating and replacing aging sanitary and combined sewer facilities, improving capacity of Combined Sewer System, repairing system weaknesses that are causing infiltration of groundwater, supplying back-up power to enhance reliability to sewer lift stations, paying for increased costs of operations and maintenance, and ensuring that rates accurately reflect the cost to provide the service.

The City's current monthly charge for a typical single-family household (6-7 room residence) is \$11.09. The proposed monthly rate in FY2005/06 is \$11.76 an increase of 67 cents per month or \$8.04 a year. The proposed monthly rate in FY2006/07 is \$12.46, an increase of 71 cents per month, or \$8.52 a year. The effect of these rate increases on the monthly utility bill of the typical residential user is displayed in Attachment B. A comparison chart of the City's proposed sewer service fee to other local sewer providers is displayed in Attachment G. As displayed in the comparison chart, the proposed City of Sacramento residential monthly sewer rate is ranked in the mid-range among the sewer providers in the region.

Storm Drainage Fund: Currently, the Department of Utilities is not proposing any rate increases in Storm Drainage despite increasing operational costs. Future rate increases may become necessary to maintain adequate funding and levels of service.

Solid Waste Fund: The Department of Utilities proposes a 4.7 percent overall increase to solid waste user fees in FY2005/06. The proposed increase will result in approximately \$1.9 million of additional revenue which will be used to offset costs related City growth and increasing disposal costs.

Single-Family Residential Rates/Services: The proposed increases are needed to absorb modest increases in expenditures and labor, for an overall increase in the residential rate of \$1.25. The FY2005/06 proposed Garbage/Recycling and Lawn, Garden and Street Sweeping rates with a 32-gallon container will increase by \$0.89 per month, service with a 64-gallon container will increase by \$1.00 per month, and services with a 96-gallon

container will increase by \$1.25 per month. Residents with a 96-gallon container can mitigate the rate increase by shifting to a smaller container (64-gallon/32-gallon containers yields a 17 percent and 32 percent reduction in monthly fees) a reduction in garbage container size also provides a greater incentive for recycling.

Attachment J shows detailed information regarding the exact impact to residential customers for automated services, which serve 99 percent of residential customers. Attachment P, Exhibit 1 shows all proposed rates with a comparison to current rates.

Residential Rate Comparison Survey: In April 2005, staff conducted a survey to identify how the proposed residential fees compare to those of other cities. Those surveyed represent cities that the Solid Waste Division has used for comparison purposes and benchmarking for the past decade. Attachment K depicts the survey results. As shown, the proposed rates for the City of Sacramento are slightly above the average fees of \$27.28. However, compared to equal level of services provided, Sacramento's rates are 8 percent below the average of \$29.76 (Attachment L).

Multi-Family/Commercial Rates/Services: Commercial and multi-family customers will be impacted by an increase in the street sweeping and lawn and garden refuse rates. Staff worked closely with an outside consultant to assist with developing a more equitable rate structure, which Council adopted in FY2003/04. Multi-family parcels are charged based on the number of housing units on the parcel; the rate increases from \$3.25 to \$3.35 for FY2005/06. This rate methodology considers differences between a residential parcel and a multi-family or non-residential/commercial parcel. Although the rate model attempts to assign equity based on categories, the Division has not expanded the categories or created additional rates from the adopted rates in FY2003/04. This structure is a step towards more equitable street sweeping rates and is based on our existing lawn and garden refuse fee structure.

Five-year Forecast: The projection of revenues and expenditures for the next five years for Water, Sewer, Storm Drainage, and Solid Waste Enterprise funds are provided in Attachments F, H, I and N. Future capital spending over the next five years reflect a balance between moderate future rate increases in the Water and Sewer Funds, with no increases in the Storm Drainage Fund and a reasonable level of infrastructure repair and rehabilitation spending to meet master planning goals, maintain adequate levels of service and maintain minimum prudent reserves. The proposed rate increase for Solid Waste will ensure fiscal stability for next year by providing adequate funding for operating and capital budgets with moderate future rate increases included in the five-year projection.

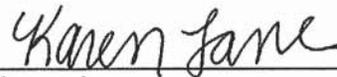
ENVIRONMENTAL DETERMINATION: The proposed fee adjustments are exempt from the California Environmental Quality Act (CEQA), pursuant to Section 21080(b)(8) of the Public Resources Code. Future capital improvement projects will receive the appropriate level of CEQA review in conjunction with planning and design.

POLICY CONSIDERATIONS: The proposed FY2005/06 Utilities Operating and Capital Improvement Budgets are balanced. Sacramento City Code, Sections 8.52, 13.04, and 13.08 allows the City Council to establish solid waste collection, water and sewer rates, charges and fees by resolution (Draft Resolutions are included as Attachments O and P).

The proposed rate increases are consistent with the City's mission to protect, preserve, and enhance the quality of life for present and future generations in that the increase is necessary to maintain and improve vital services and infrastructure. The proposed rate increases help to achieve the City's goals to improve and expand public safety; achieve sustainability and livability; increase opportunities for all Sacramento residents to live in safe and affordable housing; and expand economic development throughout the City.

ESBD CONSIDERATIONS: None at this time.

Respectfully submitted,



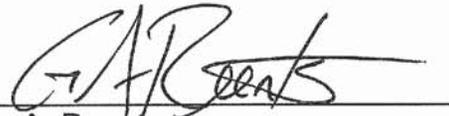
Karen Lane,
Acting Program Manager

RECOMMENDATION APPROVED:



Robert P. Thomas
City Manager

APPROVED:



Gary A. Reents
Director of Utilities

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- 6) Attachment F – Five Year Water Fund Forecast – Page 16
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- 8) Attachment H – Five Year Sewer Fund Forecast – Page 18
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- 10) Attachment J – Solid Waste FY2004/05 & FY2005/06 Residential Rate Comparison – Page 20
- 11) Attachment K – Municipal Residential Solid Waste Fee Comparison – Page 21
- 12) Attachment L – Municipal Residential Solid Waste Stacked Fee Comparison – Page 22
- 13) Attachment M – Comparison of Services Included in Other City Fees – Page 23
- 14) Attachment N – Five Year Solid Waste Fund Forecast – Page 24
- 15) Attachment O – Draft Water and Sewer Resolution - Page 25
- 16) Exhibit 1 – Amended Fee and Charge Report (Water) – Page 26
- 17) Exhibit 2 – Amended Fee and Charge Report (Sewer) – Page 31
- 18) Attachment P - Draft Solid Waste Service Fees – Page 39
- 19) Exhibit 1 – Amended Fee and Charge Report (Solid Waste) – Page 41
- 20) Attachment Q – Department of Utilities Presentation Materials – Page 57

Attachment A

The final adopted Capital Budget is amended to include the following:

<u>Fund</u>	<u>CIP #</u>	<u>Project Title</u>	FY06 <u>Proposed</u> <u>Budget</u>	Increase or <u>(Decrease)</u>	FY06 <u>Approved</u> <u>Budget</u>
Water	ZE46	Base CIP Reserve-Water	370,000	2,960	372,960
Water	ZF36	SCADA System Upgrade	180,000	(80,000)	100,000
Water	ZG11	Local Area Network	110,000	(80,000)	30,000
Water	ZH41	Drinking Water Quality	400,000	(265,000)	135,000
Water	ZJ96	FWTP Switchgear Upgrade	770,000	(770,000)	0
Water	ZK66	Residential Water Meter Program	100,000	1,063,000	1,163,000
Water	ZL16	SRWTP No. Vault Manifold Repl	25,000	385,000	410,000
Water	ZL21	FWTP Low Lift Pump Ph1	100,000	54,000	154,000
			2,055,000	309,960	2,364,960
Sewer	XI26	Sewer Service Lining - 2006	100,000	(100,000)	0
Sewer	XI41	Sump 79 Reconstruction	500,000	(400,000)	100,000
Sewer	XN29	Sump 2A Catenary Trash Rake	150,000	(75,000)	75,000
			750,000	(575,000)	175,000



**CITY OF SACRAMENTO
UTILITY SERVICE BILL**

LEGAL OWNER	SERVICE ADDRESS SOUTH OAK WAY	SERVICE PERIOD 6/27/05 -07/25/05	ACCOUNT NUMBER
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DUE DATE 8/17/05	AMOUNT TO PAY 88.01	AMOUNT PAID
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SAMPLE CITY UTILITY BILL
FOR COMPARISON PURPOSES

TO ENSURE CREDIT BEFORE NEXT BILLING, PLEASE PAY BY DUE DATE

Make checks payable to:
CITY OF SACRAMENTO
PLEASE WRITE YOUR ACCOUNT NUMBER ON YOUR CHECK

DETACH AND RETURN THIS PORTION OF THE BILL WITH YOUR PAYMENT

CITY OF SACRAMENTO

KEEP THIS PORTION FOR YOUR RECORDS
UTILITY SERVICE BILL

LEGAL OWNER	SERVICE ADDRESS SOUTH OAK WAY	SERVICE PERIOD 6/27/05 -07/25/05	ACCOUNT NUMBER
-------------	----------------------------------	-------------------------------------	----------------

PREVIOUS CHARGES AND CREDITS

84.28	PREVIOUS BALANCE	
84.28-	PAYMENT - THANK YOU	6/14/05
0.00	BALANCE FORWARD	

SERVICES PROVIDED BY THE CITY

FY2004/05 Current	FY2005/06 Proposed	FY2006/07 Proposed	Total Change				
20.06	21.87	23.83	3.77	WATER SERVICE	SINGLE FAMILY	NUMBER OF ROOMS	= 6
11.09	11.76	12.46	1.37	SEWER SERVICE	SINGLE FAMILY	NUMBER OF ROOMS	= 6
11.31	11.31	11.31	---	STORM DRAIN	SINGLE FAMILY	NUMBER OF ROOMS	= 6
17.03	17.50	17.88	0.85	GARBAGE SERVICE	90 GAL MECH LIFT	# OF 90 GAL CANS	= 1
9.39	10.17	10.90	1.51	LAWN & GARDEN SERVICE	STREET SWEEPING	NUMBER OF UNITS	= 1
68.88	72.61	76.38	7.50	TOTAL PROVIDED BY CITY			

* FY2006/07 Proposed Garbage and Lawn & Garden Service rates reflected are included for planning purposes and will require future City Council action prior to implementation.

SERVICES PROVIDED BY THE SACRAMENTO REGIONAL COUNTY SANITATION DISTRICT

15.40	15.40	WASTEWATER TREATMENT CHARGE	SINGLE FAMILY	PER HOUSE = 1
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\$84.28 \$88.01 +3.73 PLEASE PAY THIS AMOUNT BY 8/17/05

Note: This bill reflects Regional Sanitation charges, certain areas of the City are charged separately for this service. The Total due for those areas of the City would be the amount reflected on the "Total Provided by City" line.



CITY OF SACRAMENTO
CALIFORNIA

NOTICE OF PROPOSED UTILITY SERVICE RATE INCREASE AND PUBLIC HEARING

Dear Customer:

This is a notice explaining proposed increases in the City of Sacramento utility service rates. These proposed rate increases will be recommended for adoption by the Sacramento City Council at the public hearing described in this notice. This notice also describes the reason for the proposed rate increases and what the utility service fees will be used for.

Notice of Public Hearing

At a public hearing, the Sacramento City Council will consider proposed changes in the rates for the following City utility services: garbage collection, lawn and garden refuse collection/street sweeping, sewer and water service. The proposed changes are listed on pages 2 and 3 of this notice. The public hearing will be held on **Tuesday, June 7, 2005 at 7:00 p.m. at the City Hall Council Chamber located at 730 "I" Street, Sacramento, CA.**

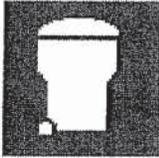
This notice has been sent to all property owners in the City who currently receive these utility services. Annual rate increases for the next year (garbage collection and lawn and garden refuse collection/street sweeping) and next two years (sewer, water) will be recommended for adoption by the City Council at the June 7, 2005 public hearing. If approved, these rate increases would take effect on July 1, 2005 and July 1, 2006 (water, sewer only). This notice also describes how to file a protest against the proposed rate increases (see page 4).

Which utility services does the City of Sacramento provide?

The City of Sacramento General Services and Utilities Departments provide a variety of utility services to residents of the City. The General Services Department provides solid waste services that include garbage collection (including recycling) and lawn and garden refuse collection/street sweeping. The Department of Utilities provides water, sewer collection and storm drainage services. Some City residents receive all or most of these services while some residents receive just one or two. Many City residents receive utility services not only from the City but also from the County of Sacramento. One way to find out which services you receive and who provides the service is to review your utility bill.

Why change rates?

Providing high quality, reliable and environmentally sensitive utility services to our customers is our mission. Each year we evaluate our customers' service needs, review provisions of mandated programs, identify our most critical capital improvement projects and analyze costs associated with operation and maintenance services. If additional revenues are needed to provide the funding to support our mission, recommendations for rate increases are made to the Sacramento City Council. The following provides additional information about your utility services and the need for rate increases.



Garbage/ Collection Service – This fee is collected to fund the activities of collecting and disposing of garbage and recycling and waste reduction. The proposed one-year rate increase for garbage collection service is 2.8% effective July 1, 2005. This increase will provide funding to pay for the increased costs of operations, maintenance and debt payments and ensure rates accurately reflect the cost to provide the service. In addition, a new “dormant service fee” is being proposed when

garbage collection services suspended for unoccupied properties, in order to continue collecting the City's costs for services related to solid waste that are not suspended for unoccupied properties. The amount of the proposed dormant service fee, to take effect July 1, 2005 is \$4.65/month. This is in addition to the \$50 administrative fee that the City currently charges to process a request to suspend garbage collection service for unoccupied property.

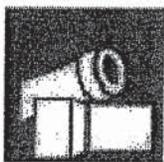
FOR QUESTIONS REGARDING GARBAGE/COMMINGLED RECYCLING COLLECTION SERVICE, CALL 808-4800.

Lawn & Garden Refuse Collection/Street Sweeping Service for Single-family and Two-Family Residential Parcels– These fees are charged for collecting and processing lawn and garden refuse material. Street sweeping fees cover the cost of sweeping streets adjacent to parcels with curbs & gutters. The proposed one-year rate increase for lawn & garden refuse collection/street-sweeping services is 8.3% effective July 1, 2005. This increase will provide funding to pay for the increased costs of operations, maintenance and debt payments and ensure rates accurately reflect the cost to provide the service.

Voluntary Containerized Garden Refuse Collection/Street Sweeping Service for Single-family and Two-Family Residential Parcels - This fee is charged for collecting and processing garden refuse material collected in a City-provided 96 gallon automated container. A rate decrease of 2.7% is proposed for containerized garden refuse collection, effective July 1, 2005. This decrease is proposed to accurately reflect the cost of operations, maintenance, and debt payments and ensure rates reflect the cost to provide the service.

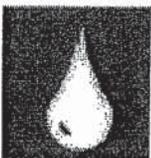
Street Sweeping Service for Multi-Family and Nonresidential Parcels- This fee is collected to cover the cost of sweeping streets adjacent to multi-family (3 or more residential units) and nonresidential parcels. The proposed one-year rate increase is 3% for multi-family parcels with 3 to 5 units, 3% for multi-family parcels with 5 or more residential units, and 7% for non-residential parcels. These increases would be effective July 1, 2005, and would provide funding to pay for increased cost of operations, maintenance and debt payments and ensure rates accurately reflect the cost to provide the service.

FOR QUESTIONS REGARDING LAWN AND GARDEN REFUSE/STREET SWEEPING SERVICE, CALL 808-4800.



Sewer Collection Service - The City-operated sewer collection system serves approximately half of the City, primarily the central and older areas of the City. The proposed two-year rate increase for sewer collection services is 6% effective July 1, 2005, and another 6% rate increase effective July 1, 2006. These increases will provide funding to continue rehabilitating and replacing aging sanitary and combined sewer facilities, repairing system weaknesses that are causing infiltration of groundwater, supplying back-up power to enhance reliability to sewage lift stations, paying for the increased costs of operations and maintenance, and ensuring that rates accurately reflect the cost to provide the service.

FOR QUESTIONS REGARDING SEWER COLLECTION SERVICE, CALL 808-5454.



Water Service - The City supplies over 45 billion gallons of quality drinking water each year to its customers. The proposed two-year rate increase for water service (metered and un-metered) is 9% effective July 1, 2005, and another 9% rate increase effective July 1, 2006. These increases will provide funding to rehabilitate, replace and improve aging pipes and facilities, reliably meet municipal water supply needs and ensure compliance with state and federal water treatment regulations, pay for the increased costs of operations and maintenance, and ensure rates accurately reflect the cost to provide the service. A portion of these increases also is needed to provide initial funding for the installation of approximately 100,000 water meters over the next 20 years, as mandated by A. B. 2572 which was enacted by the State Legislature and signed into law by Governor Schwarzenegger on September 29, 2004.

FOR QUESTIONS REGARDING WATER SERVICE, CALL 808-5454.

What is the proposed rate change for a typical residential customer?

CITY UTILITY	CURRENT RATE	PROPOSED 07/01/05 INCREASE	PROPOSED 07/01/05 RATE	PROPOSED 07/01/06 INCREASE	PROPOSED 07/01/06 RATE
⁽¹⁾ Garbage Collection (typical 90 gallon can)	\$17.03	\$.47 (2.8%)	\$17.50	⁽⁴⁾ N/A	17.50
⁽²⁾ Lawn/Garden Refuse & Street Sweeping	\$ 9.39	\$.78 (8.3%)	\$10.17	⁽⁴⁾ N/A	10.17
⁽³⁾ Sewer Collection	\$11.09	\$.67 (6%)	\$11.76	\$.71 (6%)	\$12.46
⁽³⁾ Storm Drainage	\$11.31	No increase	\$11.31	No increase	\$11.31
⁽³⁾ Water-un-metered (includes State mandated A. B. 2572 water meter installation costs)	\$20.06	\$1.81 (9%)	\$21.87	\$1.97 (9%)	\$23.83
OVERALL RATE INCREASE	\$68.88	\$3.72 (5%)	\$72.61	\$2.67 (4%)	\$75.27

NOTES:

- 1) Residents using a 32 or 60 gallon can have different rates. Proposed dormant service fee for unoccupied properties requesting suspension of garbage collection service (\$4.65/month) is not shown in table.
- 2) The above table shows an increase for garden refuse and street sweeping service for single-family residential customers. The proposed commercial (non residential) and multi-family (3 or more residential units) street sweeping rate increases described above are not included in the table. Solid Waste offers a voluntary containerized garden refuse collection program, which is an alternative to non-containerized lawn and garden refuse collection service. Program may not be available for everyone. Implementation is based on neighborhood interest. The proposed rate for the voluntary containerized garden refuse collection/street sweeping service is \$8.00 (\$2.17 less than the non-containerized program) effective July 1, 2005, and is not included in the table.
- 3) Water, sewer, and storm drainage rates listed above are for a typical flat rate single-family customer (6-7 room household).
- 4) Solid Waste is proposing a one-year increase at this time, for a total overall solid waste increase of 4.7%. Additional solid waste fee increases may be proposed in 2006.

Sewer collection rates for customers served and billed by the County Sanitation District-1 (CSD-1) are not affected by this proposed change and are not included in above table.

How will this change affect my bill?

The proposed rates for all customer categories may be viewed by visiting our website: www.cityofsacramento.org and are on file with the City Clerk. The exact amount proposed to be charged for service to your parcel may be obtained by calling **Utility Billing at (916) 808-5454**. Please provide your parcel number as indicated on your address label.

How do I protest the proposed rate increases?

The Sacramento City Council will consider these proposed rate changes for utility services at a public hearing on **Tuesday, June 7, 2005, at 7:00 pm at the City Hall Council Chamber located at 730 "I" Street**. You can attend the hearing to protest or support the recommendations.

Under Proposition 218, if you are the owner of record of a parcel or parcels subject to the proposed rate changes you may submit a protest against any or all of the proposed rate changes by filing a **written protest** with the City Clerk at or before the time set for the public hearing. If written protests are filed by a majority of the affected parcel owners, the proposed rate changes will not be imposed.

A written protest must contain a description of the parcel or parcels in which the party signing the protest has an interest, sufficient to identify the parcel(s). If the party signing the protest is not shown on the last equalized assessment roll of Sacramento County as the owner of the parcel(s), the protest must contain, or be accompanied by, written evidence that such party is the owner of the parcel(s). Protests also should indicate which proposed utility service rate increase is being protested (garbage, lawn & garden refuse/street sweeping, sewer, and/or water).

Protests regarding the proposed rate change(s) may be mailed to: **City of Sacramento, City Clerk, 730 "I" Street, Suite 211, Sacramento, CA 95814**. Protests also may be personally delivered to the City Clerk.

CITY OF SACRAMENTO
DEPARTMENT OF UTILITIES
1395 35TH AVENUE
SACRAMENTO, CA 95822

Forwarding Service Requested

SACRAMENTO CITY COUNCIL

Mayor
Heather Fargo

City Councilmembers
Ray L. Tretheway III Lauren R. Hammond
Sandy Sheedy Kevin McCarty
Steve Cohn Robbie Waters
Robert King Fong Bonnie J. Pannell

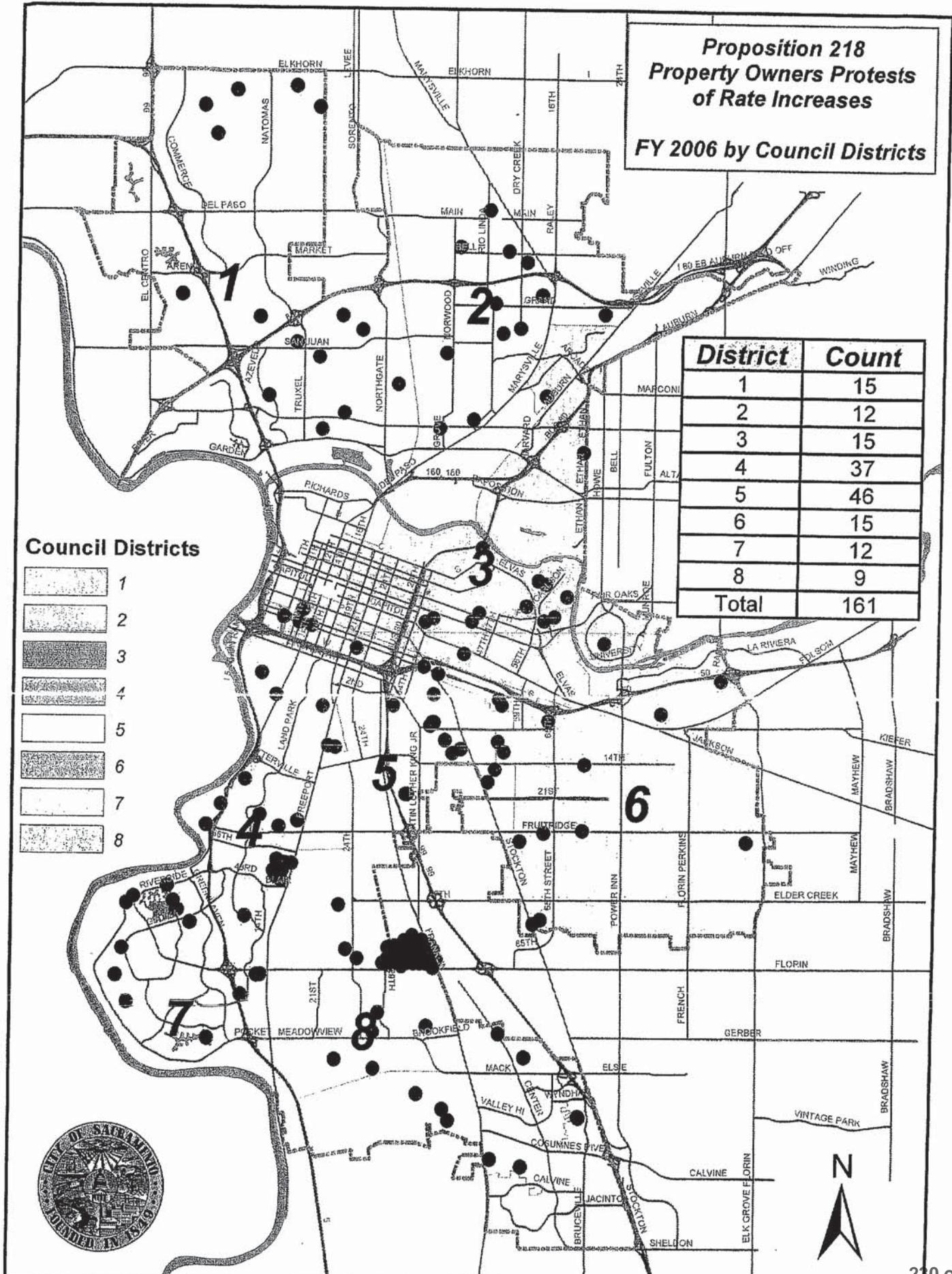
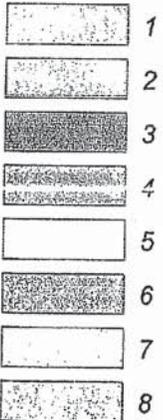
DEPARTMENT OF UTILITIES DIRECTOR
Gary A. Reents

DEPARTMENT OF GENERAL SERVICES DIRECTOR
Reina Schwartz

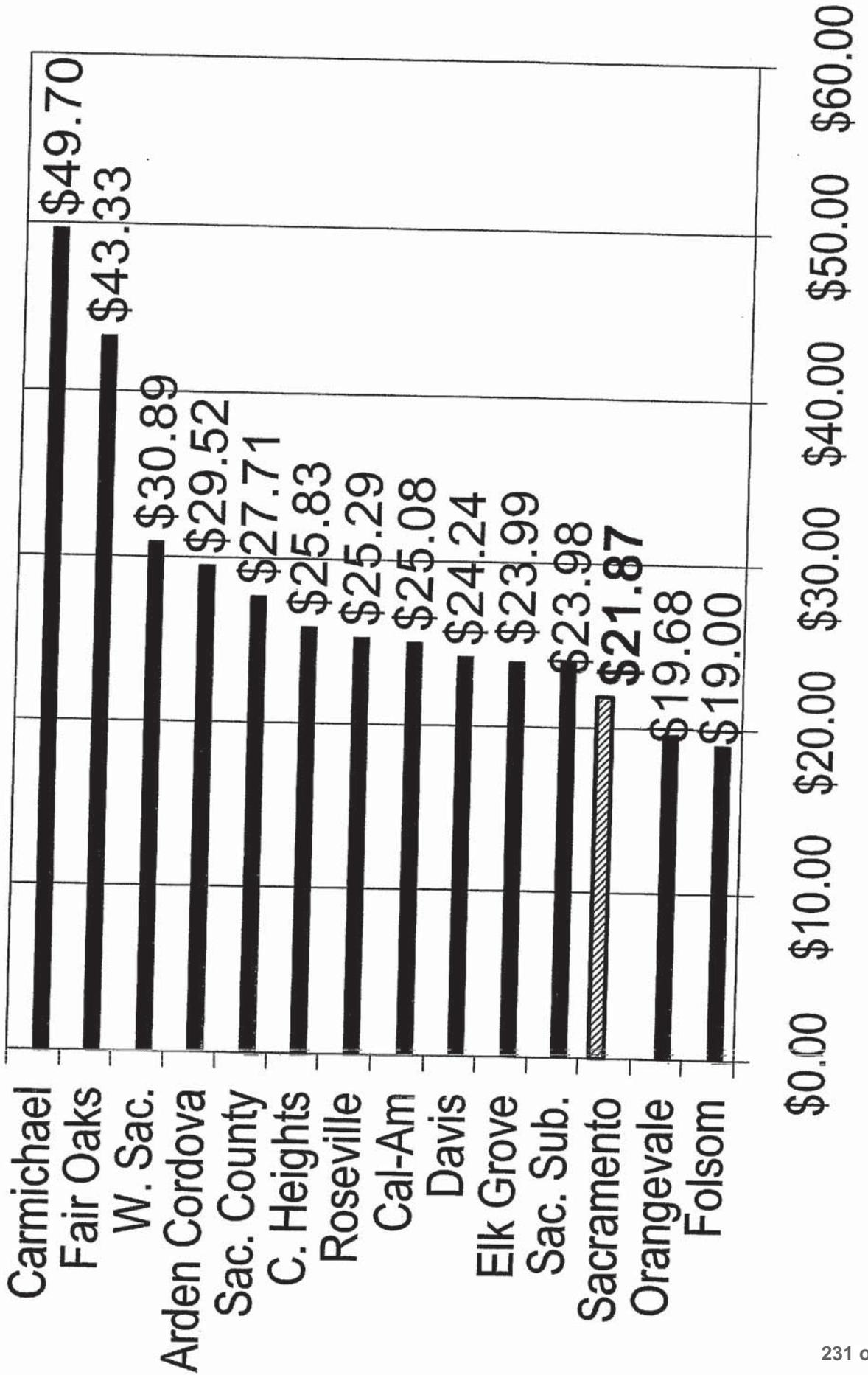
**Proposition 218
Property Owners Protests
of Rate Increases
FY 2006 by Council Districts**

District	Count
1	15
2	12
3	15
4	37
5	46
6	15
7	12
8	9
Total	161

Council Districts



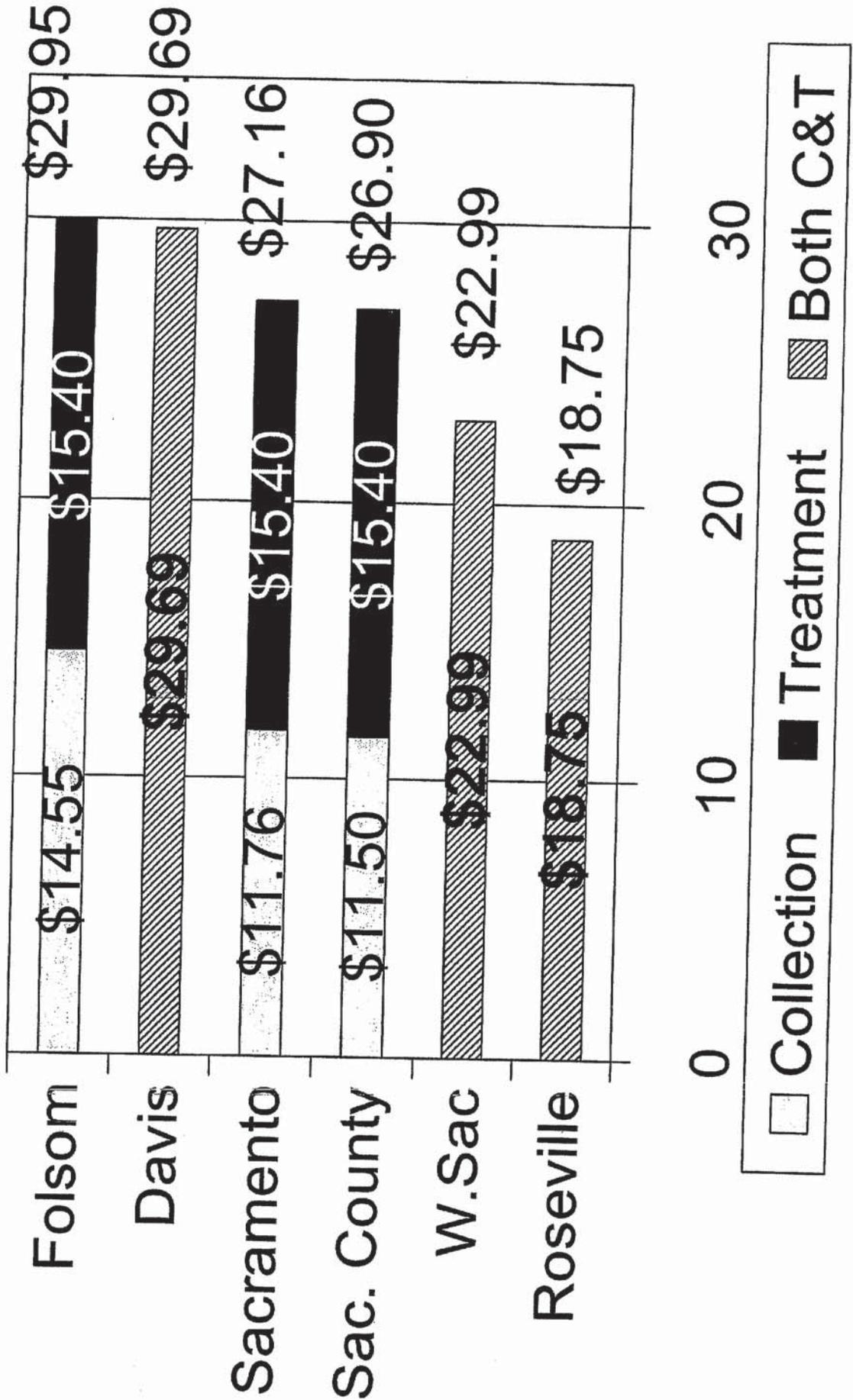
Water Rate Comparison



FIVE YEAR WATER FUND FORECAST

WATER FUND FORECAST	05-06	06-07	07-08	08-09	09-10
	Estimate	Estimate	Estimate	Estimate	Estimate
Typical Single-Family Monthly Charge	\$21.87	\$23.83	\$25.74	\$27.54	\$29.19
Projected Rate Increase	9.00%	9.00%	8.00%	7.00%	6.00%
BEGINNING BALANCE	5,293	4,239	4,384	4,512	4,641
REVENUE					
USER FEES	48,400	53,240	58,032	62,674	67,061
INTEREST / OTHER	5,772	5,843	5,912	5,987	6,060
DEVELOPMENT FEES	6,600	6,400	6,200	6,000	6,000
TOTAL REVENUES	60,772	65,483	70,144	74,661	79,121
EXPENDITURES					
OPERATIONS	37,724	39,463	40,998	42,547	44,099
DEBT SERVICE	13,139	13,139	13,139	13,139	13,139
METER IMPLEMENTATION	1,163	2,642	5,309	7,853	10,321
CIP (pay-as-you-go)	9,800	10,094	10,570	10,993	11,433
TOTAL EXPENDITURES	61,826	65,338	70,016	74,532	78,992
ENDING BALANCE	4,239	4,384	4,512	4,641	4,770

Sewer Rate Comparison



FIVE YEAR SEWER FUND FORECAST

SEWER FORECAST	05-06	06-07	07-08	08-09	09-10
Typical Single-Family Monthly Charge	Estimate	Estimate	Estimate	Estimate	Estimate
	\$11.76	\$12.46	\$13.21	\$14.00	\$14.84
Projected Rate Increase	6.00%	6.00%	6.00%	6.00%	6.00%
BEGINNING BALANCE	5,794	4,616	3,191	1,987	1,420
REVENUE					
USER FEES	16,537	17,704	18,954	20,292	21,725
INTEREST / OTHER DEVELOPMENT FEES	1,434	1,439	1,443	1,448	1,458
DEVELOPMENT FEES	0	0	0	0	0
TOTAL REVENUES	17,971	19,143	20,397	21,740	23,183
EXPENDITURES					
OPERATIONS	12,798	13,714	14,204	14,715	15,247
DEBT SERVICE	855	855	855	855	855
CIP (pay-as-you-go)	5,496	6,000	6,542	6,737	6,995
TOTAL EXPENDITURES	19,149	20,569	21,601	22,307	23,097
ENDING BALANCE	4,616	3,191	1,987	1,420	1,506

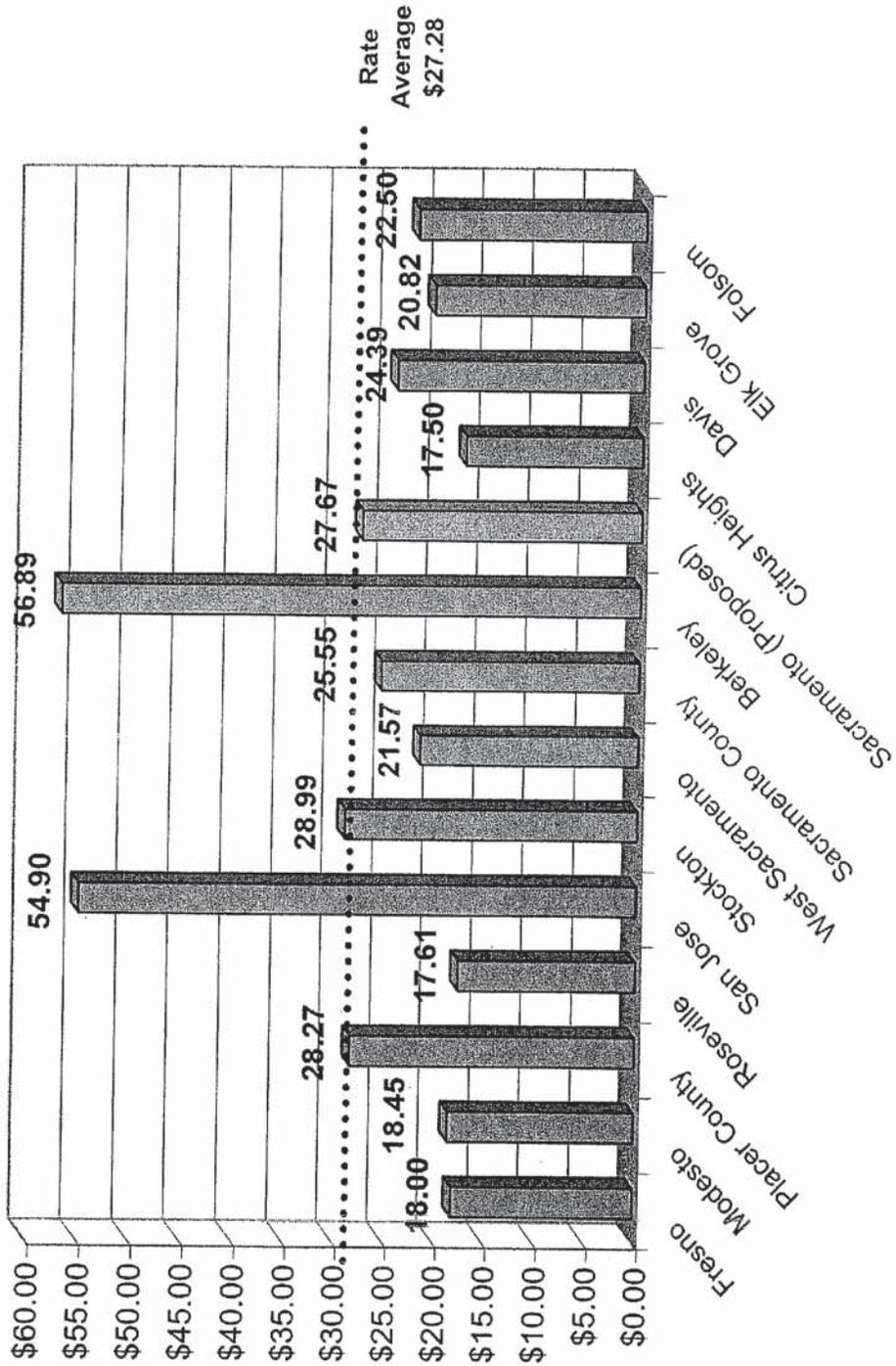
FIVE YEAR DRAINAGE FUND FORECAST

DRAINAGE FORECAST	05-06 Estimate	06-07 Estimate	07-08 Estimate	08-09 Estimate	09-10 Estimate
Typical Single-Family Monthly Charge	\$11.31	\$11.31	\$11.31	\$11.31	\$11.31
Projected Rate Increase	0.00%	0.00%	0.00%	0.00%	0.00%
BEGINNING BALANCE	14,838	12,838	10,292	7,369	4,052
REVENUE					
USER FEES	30,457	30,762	31,069	31,380	31,694
INTEREST / OTHER	751	756	767	779	791
DEVELOPMENT FEES	0	0	0	0	0
TOTAL REVENUES	31,208	31,518	31,836	32,159	32,485
EXPENDITURES					
OPERATIONS	24,601	25,456	26,152	26,869	27,606
DEBT SERVICE	3,442	3,442	3,442	3,442	3,442
CIP (pay-as-you-go)	5,165	5,165	5,165	5,165	5,165
TOTAL EXPENDITURES	33,208	34,063	34,759	35,476	36,213
ENDING BALANCE	12,838	10,292	7,369	4,052	325

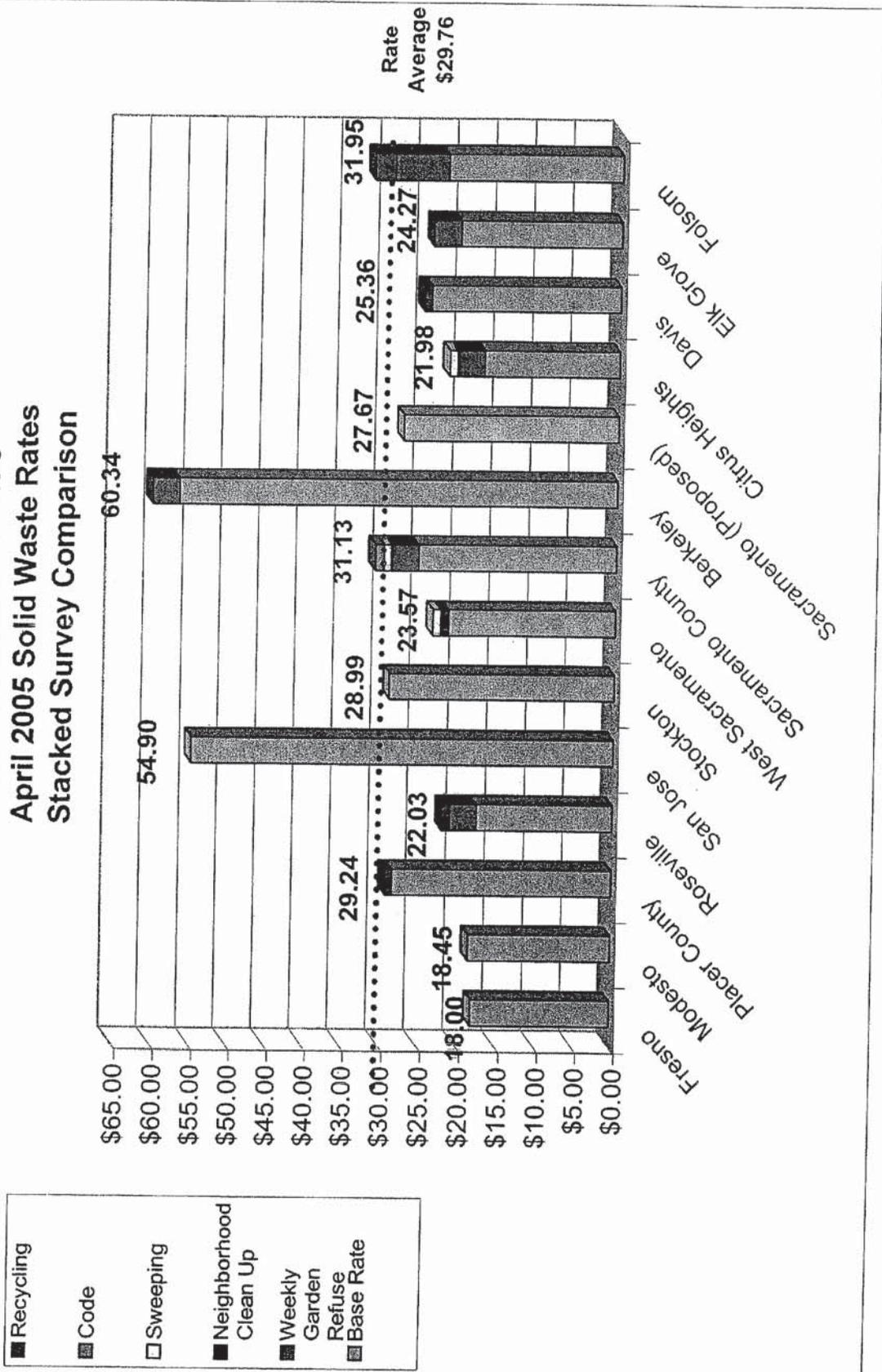
**Solid Waste Division
Residential Rates Comparison
Current FY04-05 to Proposed FY05-06**

	FY04-05 Current	FY05-06 Proposed	Rate Change	Percentage Change
Garbage 96 Mech	\$14.53	\$14.95	\$0.42	102.89%
Garden Refuse	\$8.32	\$9.07	\$0.75	109.01%
Street Sweeping	\$1.07	\$1.10	\$0.03	102.80%
Recycling	\$2.50	\$2.55	\$0.05	102.00%
TOTAL	\$26.42	\$27.67	\$1.25	104.73%
Garbage 64 Mech	\$12.18	\$12.35	\$0.17	101.40%
Garden Refuse	\$8.32	\$9.07	\$0.75	109.01%
Street Sweeping	\$1.07	\$1.10	\$0.03	102.80%
Recycling	\$2.50	\$2.55	\$0.05	102.00%
TOTAL	\$24.07	\$25.07	\$1.00	104.15%
Garbage 32 Mech	\$10.09	\$10.15	\$0.06	100.59%
Garden Refuse	\$8.32	\$9.07	\$0.75	109.01%
Street Sweeping	\$1.07	\$1.10	\$0.03	102.80%
Recycling	\$2.50	\$2.55	\$0.05	102.00%
TOTAL	\$21.98	\$22.87	\$0.89	104.05%

**CITY OF SACRAMENTO
April 2005 Solid Waste Rates
Survey Comparison**



**CITY OF SACRAMENTO
April 2005 Solid Waste Rates
Stacked Survey Comparison**



Solid Waste Division
April 2005 Municipal Rate/Services Survey

	# of Services	Residential Waste Collection	Curbside Recycling	Greenwaste Collection	Street Sweeping	Code Enforcement	Neighborhood Clean-up	Permanent HHW Facility
Fresno	6	X	X	X	X	X	X	
Citrus Heights	6	X	X	X*	X		X	X
Modesto	7	X	X	X	X	X	X	X
West Sacramento	5	X	X	X	X			X
City of Sacramento	7	X	X	X	X	X	X	X
Sacramento County	5	X	X	X*			X	X
Davis	7	X	X	X	X	X	X	X
Stockton	5	X	X	X*	X		X	
Folsom	5	X			X	X	X	X
Placer County	6	X	X	X	X	X		X
San Jose	6	X	X	X	X	X		X
Berkeley	7	X	X	X*	X	X	X	X
Elk Grove	7	X	X	X*	X	X	X	X
Roseville	6	X	X	X*	X	X		X

*Provide bi-weekly Garden Refuse service.



FINANCE DEPARTMENT
BUDGET, POLICY & STRATEGIC
PLANNING DIVISION

CITY OF SACRAMENTO
CALIFORNIA

730 I STREET
SUITE 215
SACRAMENTO, CA
95814-2998

June 15, 2005

916-808-5845
FAX 916-808-5755

City Council
Sacramento, California

Honorable Members in Session:

SUBJECT: ADOPTION OF THE FY2005/06 OPERATING AND CAPITAL BUDGETS

LOCATION/COUNCIL DISTRICT: Citywide

RECOMMENDATION:

It is recommended that the City Council adopt the attached resolutions approving:

1. The Fiscal Year 2005/06 (FY2005/06) City of Sacramento Operating and Capital Improvement Budgets;
2. The Water and Sewer fees for FY2005/06 and FY2006/07;
3. The Solid Waste fees for FY2005/06; and
4. The Annual Internal Audit Work Plan.

CONTACT PERSONS: Gus Vina, Finance Director, 808-7318
Russ Fehr, Budget Manager, 808-5832
Martin Kolkin, Internal Audit Manager, 808-1244

FOR CITY COUNCIL MEETING OF: June 21, 2005

SUMMARY:

This report transmits the FY2005/06 Operating Budget and Capital Improvement Budget for final adoption and reflects Intent Motions the Mayor and City Council have approved during the budget hearings.

COMMITTEE/COMMISSION ACTION: None

BACKGROUND:

The City Manager's FY2005/06 Proposed Budget (Operating and Capital) was released on May 2, 2005, as required by the City Charter. Over the past two months there have been eleven City Council meetings to discuss the Proposed Budget. The Mayor and City Council have passed intent motions to approve all departmental budgets, the Capital Improvement Program, and Water, Sewer and Solid Waste rate increases.

The attached Budget Resolution includes adjustments to the FY2005/06 Proposed Budget as detailed in Exhibit 2. These modifications reflect Mayor and City Council direction as well as technical adjustments necessary to implement the budget to reflect actual expenses and full time equivalent (FTE) staff. Also included for approval are resolutions approving Water, Sewer, and Solid Waste fee increases.

On May 31, 2005, the City's Internal Auditor presented a Preliminary Internal Audit Workplan for FY2005/06 to the Mayor and City Council for comments and direction. Included for approval is a resolution approving the finalized FY2005/06 Annual Internal Audit Workplan (with the Workplan attached to the resolution).

FINANCIAL CONSIDERATIONS:

The FY2005/06 Proposed Budget for the City of Sacramento totals \$787.9 million from all funding sources and 4,865 FTE. The General Fund portion of the Budget is \$351.9 million and 3,594 FTE.

The FY2005/06 Proposed Budget also includes augmentations of \$10.8 million and 67 FTE that are subject to the "labor contract trigger." Pending Council's direction to consider additional funding for the Parks and Recreation budget for recreation programs, this is increased by \$900,000. If the labor contracts can be funded within available resources, these augmentations will be implemented. However, if final labor contracts exceed available resources, then the augmentations will be reconsidered.

POLICY CONSIDERATIONS:

The FY2005/06 Proposed Budget is consistent with both the City Council's Strategic Plan as well as the sustainable budget philosophy that the City Council has implemented. The FY2005/06 Proposed Budget reflects a fiscally responsible spending plan, positioning the City to deal with both the known financial challenges and the major budget uncertainty that lies ahead.

ENVIRONMENTAL CONSIDERATIONS:

Environmental review under the California Environmental Quality Act (CEQA) for any project, which utilizes funds allocated under the FY2005/06 Proposed Budget, has been or

will be performed in conjunction with planning, design, and approval of each specific project as appropriate. The ongoing operations funded under the FY2005/06 Proposed Budget are not subject to review under CEQA.

ESBD EFFORTS: This report does not involve the purchase of goods or services.

Respectfully submitted,



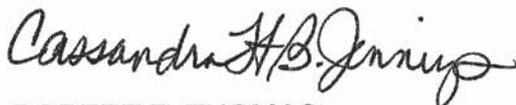
Russell Fehr
Budget, Policy & Strategic Planning Manager

Approved:



Gus Vina
Director, Department of Finance

RECOMMENDATION APPROVED:



ROBERT P. THOMAS
City Manager

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- A. Resolution: FY2005/06 Operating and Capital Budgets (page 4)
 - Exhibit 1 - Augmentations (page 15)
 - Exhibit 2 - Summary of Changes (page 16)
 - Exhibit 3 - FY2005/06 Approved Budget (to be inserted when completed), (page 17)
 - Exhibit 4 - 2005-2010 Approved CIP (to be inserted when completed), (page 18)
- B. Resolution: Water and Sewer Fees, (page 19)
 - Exhibit 1- Water Service Fees and Charges (page 21)
 - Exhibit 2 - Sewer Service Fees and Charges (page 22)
- C. Resolution: Solid Waste Fees (page 26)
 - Exhibit 1- Solid Waste Fees and Charges (page 28)
- D. Resolution: Internal Auditor Work Plan (page 45)
 - Exhibit 1 - Work Plan (page 46)

RESOLUTION NO.

ADOPTED BY THE SACRAMENTO CITY COUNCIL

ON DATE OF _____

RESOLUTION ADOPTING THE FY2005/06 OPERATING AND CAPITAL IMPROVEMENT BUDGETS FOR THE CITY OF SACRAMENTO

WHEREAS, the Mayor and City Council have maintained a sustainable budget philosophy; and

WHEREAS, the Mayor and City Council have adopted a strategic plan for the City of Sacramento; and

WHEREAS, on May 2, 2005 the City of Sacramento released the Proposed Operating and Capital Improvement Program Budget documents for Fiscal Year 2005/06 (FY2005/06) for review and consideration; and

WHEREAS, the Mayor and City Council conducted hearings during the months of May and June 2005 related to the adoption of the City's FY2005/06 Operating and Capital Improvement Program Budgets.

NOW THEREFORE BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF SACRAMENTO THAT:

The FY2005/06 Operating and Capital Improvement Program (CIP) Budgets are hereby approved.

BE IT FURTHER RESOLVED THAT:

Sections 1 through 16 below, which define the authority and responsibilities of the City Manager in implementing the Approved Operating (Exhibit 3) and Capital Improvement Program (Exhibit 4) Budgets, are hereby approved.

SECTION 1. SCOPE

- 1.1 This resolution defines the authority and responsibilities of the City Manager in implementing the Approved Operating and Capital Improvement Program Budgets of the City of Sacramento and supersedes Resolution 2004-509.

FOR CITY COUNCIL USE ONLY

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RESOLUTION NO.: _____

244 of 397

DATE ADOPTED: _____

SECTION 2. DEFINITIONS

- 2.1 "Approved Budget" is the Operating Budget and the Capital Improvement Budget for the 2005/06 fiscal year presented to the Council on May 2, 2005, as defined herein, including:
 - (1) Operating Budget Augmentations (Exhibit 1);
 - (2) Transfers to account for employee service changes due to labor agreements, promotions, vacancies, merit increases and reallocations.
 - (3) Changes to the Proposed Budget (Exhibit 2).
- 2.2 "Current Budget" means the FY2004/05 Approved Budget, incorporating any subsequent appropriation increases, decreases or transfers.
- 2.3 "Expenditure Class" means Employee Services, Other Services and Supplies, Equipment, Debt Service, Labor Offset, Transfers and Capital Improvements.
- 2.4 "Department" or "Agency" means: Mayor and City Council; City Manager; City Attorney; City Clerk; City Treasurer; Code Enforcement; Convention, Culture & Leisure; Development Services; Economic Development; Finance; Fire, General Services; Human Resources; Information Technology; Labor Relations; Neighborhood Services; Parks & Recreation; Police; Transportation; Utilities; Capital Improvement; Debt Service; Non-Department and Reserves.
- 2.5 "Division" means a sub-unit of a department.
- 2.6 "Activity" means a sub-unit of a division.
- 2.7 "Organization" means a sub-unit of a department, division or activity.
- 2.8 "City Manager" means the City Manager or, if so designated, the Director of Finance or the Budget Manager.
- 2.9 "Full Time Equivalent (FTE)" means the decimal equivalent of a position; i.e. one full time position is 1.00 FTE and one quarter-time position is 0.25 FTE.
- 2.10 "Base Budget" means the current year budget modified per labor agreements, one-time expenditures, citywide changes and midyear changes.

SECTION 3. AUTHORIZED STAFFING AND APPROPRIATIONS

- 3.1 The City Manager is authorized to make any expenditure and resource adjustments to the Budget based on final City Council action to adopt the Budget.

- 3.2 The appropriations and FTE staffing as shown in Schedules 1A, 1B, 1C and fund summaries including transfers as shown in Schedule 2 as displayed in Exhibit 3.
- 3.3 The City Manager is authorized to revise any appropriation made in the Approved Budget where the revision is of a technical nature and is consistent with City Council intent.
- 3.4 During budget deliberation and following budget approval, the City Manager is authorized to adjust any appropriation made in the Approved Budget to reflect changes from amounts budgeted for updated labor, vehicle, energy, contingencies and risk management changes such as retirement rates, payroll taxes, health benefits, fleet costs and risk management costs from designated funds or reserves.
- 3.5 Following budget approval, the Director of Finance is authorized to revise indirect cost rates to be applied to hourly salary rates in order to achieve full cost recovery of services. The Director of Finance is authorized to adjust the operating budget to reflect the indirect cost plan for FY2005/06.
- 3.6 Reclassification requests, as noted on Schedule 8 as displayed in Exhibit 3, require approval by the Human Resources Department in order for the new classification to be authorized.
- 3.7 Upon completion of labor negotiations for contracts covering FY2005/06, if the impact to the City's budget is within current resource levels, the staffing and appropriation increases shown on Exhibit 1 to this Resolution are approved for implementation. In addition, the City Manager is authorized to implement the Organizational Assessments and all associated budget and staffing changes including the addition of FTE.
- 3.8 Upon adoption by the City Council of a 911 Emergency Communication System Fee, the budget reductions for the Police Department and Fire Department included in the FY2004/05 and FY2005/06 Budgets shall be restored to the level supported through the fee.

SECTION 4. APPROPRIATION INCREASES/DECREASES

- 4.1 All increases or decreases in excess of \$100,000 to operating and capital appropriations shall be approved by the City Council by resolution with the exception of those increases resulting from the implementation of labor contracts as authorized in Section 3.7.
- 4.2 The City Manager is authorized upon completion of the audited financial statements for FY2004/05 to adjust FY2005/06 fund appropriations by the amount of net changes in fund balance as determined by the City Council. These fund balance and appropriation changes will be included and addressed in the Midyear Financial Report.

FOR CITY COUNCIL USE ONLY

RESOLUTION NO.: _____

DATE ADOPTED: _____

- 4.3 The residual balances from unexpended debt proceeds will be reverted to the appropriate fund and utilized for the legal purposes as specified in the conditions of the "debt issuance." The City Manager is authorized to establish appropriations and account for the expenditure of these unexpended proceeds.

SECTION 5. STAFFING INCREASES/DECREASES

- 5.1 Any increase or decrease, by department by fund, in FTE staffing levels as authorized in the Approved or Amended Budget for a department must be approved by the City Council.
- 5.2 Any existing positions which were approved on the basis of the City receiving a grant or other reimbursements must have continued funding verified prior to filling the position. The City Manager is authorized to adjust staffing levels for renewals or expansions of fully offset grants. Grant funded positions shall be terminated upon completion or cancellation of the grant unless specifically continued by resolution including a source of replacement funding.
- 5.3 Any exempt management position adjustment made subject to the approval of the City Manager and subject to the Personnel Resolution covering Unrepresented Officers and Employees approved by City Council must have funding verified by the Director of Finance or the Budget Manager prior to implementation.
- 5.4 Any reassignment of authorized FTE and employee services funding associated with these FTE within a department and within the same fund may be made at the discretion of the department head with the approval of the City Manager as long as there is no net change to authorized FTE and funding levels.
- 5.5 All new positions or job reclassifications are subject to classification review and approval by the Human Resources Director.
- 5.6 The City Manager has authority to adjust staffing levels in the Police and Fire Training Academies based on projected vacancies.

SECTION 6. APPROPRIATION TRANSFERS FROM CONTINGENCY/RESERVE FUNDS

- 6.1 The General Fund Reserve target for the City of Sacramento is 10 percent of General Fund Revenues. The Reserve for Economic Uncertainty for FY2005/06 will be \$29.15 million which is 8.3 percent. This reserve will be maintained for the purpose of absorbing unforeseen revenue losses and allowing continuation of Approved Budget program levels.
- 6.2 Appropriation transfers from fund balance contingency funds up to and including \$100,000 may be approved by the City Manager. Such transfers in excess of \$100,000 shall be approved by the City Council by resolution, except for payments to employees for vacation and sick leave termination, which may be approved by the City Manager.

FOR CITY COUNCIL USE ONLY

7

RESOLUTION NO.: _____

DATE ADOPTED: _____

- 6.3 No Reserve transfer shall be made from any fund, which would create a negative undesignated fund balance in the fund, or in the case of the General Fund, in the Administrative Contingency.

SECTION 7. OTHER APPROPRIATION TRANSFERS

- 7.1 Any operating appropriation transfers within the same department and the same fund must be approved by the City Manager or the Manager's designee.
- 7.2 Appropriation transfers between two or more departments up to and including \$100,000 may be approved by the City Manager or the Manager's designee. Such transfers in excess of \$100,000 shall be approved by the City Council by resolution.

SECTION 8. UNSPENT APPROPRIATIONS AND ENCUMBRANCES

- 8.1 All appropriations in the operating budget, which remain unencumbered or unexpended on June 30, 2005, after adjustments resulting from Section 4.2, 4.3 and 10.2 or as specifically provided for in Section 16, shall revert to the fund balance of the respective funds.
- 8.2 All purchase order commitments outstanding on June 30, 2005 and associated appropriations are hereby continued.
- 8.3 Unobligated appropriations in existence on June 30, 2005 for the Inclusionary Housing Program, Infill Program and the Economic Development Assistance Program shall be continued in FY2005/06.
- 8.4 Unobligated appropriations in existence on June 30, 2005 for fleet purchasing budgets (object codes 4236/4632) shall be continued in FY2005/06.

SECTION 9. FY2005/06 REVENUE BUDGET

- 9.1 The FY 2005/06 Revenue Budget is summarized in Schedule 6 as displayed in Exhibit 3.
- 9.2 Any increase or decrease greater than \$100,000 to the adopted revenue budget by fund requires City Council approval.
- 9.3 The City Manager is authorized to adjust revenues for renewals and augmentations of fully offset grants.

SECTION 10. CAPITAL IMPROVEMENTS

- 10.1 All multi-year capital improvement projects in existence on June 30, 2005 shall be continued in FY2005/06 except as provided in Section 10.8. The FY2005/06 Capital Improvement Budget is summarized on Schedules 2 and 4 as displayed in Exhibit 3.

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10.2 Each fiscal year, at June 30, the balance of each capital improvement project must be zero or have a positive balance by fund. Projects in excess of the budget from all funding sources by \$100,000 or less shall, first, be corrected within each fund and, second, be corrected by a transfer from the operating budget organization of the project manager.

(1) All transfers of \$100,000 or less shall be made as provided for in Section 6.2.

(2) Projects in excess of budget from all funding sources by more than \$100,000 shall be submitted to City Council for approval of a corrective plan of action.

10.3 All capital improvement projects shall be approved by the City Council. Capital projects may be subdivided for administrative convenience into separate sub-projects without further City Council action. The cancellation (without completion) of a capital project must also be approved by the City Council.

10.4 Except in the General Fund, the Director of Finance is authorized to transfer appropriations totaling \$100,000:

(1) From Project A to Project B if:

(a) Project A is completed and has savings; or

(b) Project A is not completed and a revised project estimate confirms that there will be project savings upon completion.

(2) Between funding sources within a project if the total appropriation remains unchanged.

Transfers affecting any one project that exceed \$100,000 in total shall be subject to the provisions of Sections 6.2 and 10.2.

10.5 Except as provided for in Section 10.8, upon completion and closure of a capital project, the Director of Finance is authorized to transfer any remaining project balance to:

(1) Fund balance contingency; or

(2) As provided for in Section 10.4.

Fund balance for the Utilities Program capital projects is the equivalent to the capital projects base reserve for each fund.

10.6 Capital appropriations shall be used solely for repairs, maintenance, improvements or acquisitions with a total cost of at least \$10,000.

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- 10.7 Capital appropriations shall be used solely for the originally approved project or projects except as provided for in this section. Annually, completed or inactive projects will be closed except due to payment disputes. An inactive project is defined as one where transaction activity is less than \$1,000 over the prior three years. Closures are the responsibility of the designated project manager. The managing department and/or Finance Director have the authority to process the necessary documentation to close inactive projects.
- 10.8 Unencumbered appropriations for all inactive projects as defined in Section 10.7 above will expire on June 30 following the third full year of the last appropriation to the project. Subject projects requiring continuing appropriations will require City Council action through programming within the CIP or through a separate appropriation to the project.
- 10.9 Measure A Sales Tax (Fund 201) expenditure and revenue budgets can be loaded into the City's financial system prior to Sacramento Transportation Authority (STA) Board approval. Work on capital projects in this fund is done prior to receiving funding, project funding/ appropriation shall be as follows:
- (1) The Finance Director is authorized to enter the revenue/expenditure budgets as reflected in the Approved Budget (revenues) and Capital Improvement Budget (expenditures).
 - (2) STA Board approval is required for all Measure A reallocations. In cases where the City Council takes action on recommended Measure A reallocations prior to the STA Board action, City Council approval shall be contingent on ultimate STA Board approval.
 - (3) The Finance Director is authorized to enter expenditure/revenue budget adjustments prior to Sacramento Transportation Authority (STA) Board.
- 10.10 Projects funded by the following reimbursable funds: Grant Funds (Funds 248, 511, and 512), SHRA Community Development Block Grants (Fund 205) and Tax Increment (Fund 206) are included within the Operating and Capital Budgets for planning purposes. Work on capital projects funded by these sources is done prior to receiving funding and project funding/authorization for these projects shall be as follows:
- (1) Funds 205, 206, 248, 511 and 512: Expenditure and revenue budgets will not be loaded into the City's financial system until actual agreements (Program Supplements/E-76's, Individual Project Agreements/IPA, Cooperative Agreements, etc.) have been entered into between the City and the funding authority.

- (2) Funds 511 and 512: The City of Sacramento is eligible to receive Federal and/or State funding for certain transportation projects through the California Department of Transportation (Caltrans). Master Agreements, Program Supplemental Agreements, Fund Exchange Agreements and/or Fund Transfer Agreements need to be executed with Caltrans before such funds can be claimed. The Mayor and/or City Manager are authorized to execute all Master Agreements, Program Supplemental Agreements, Fund Exchange Agreements, Fund Transfer Agreements and any amendments thereto with Caltrans.

The Finance Director is authorized to transfer match funds as specified in the approved CIP from the State and Federal Grant Match Program (TX01) and to enter the revenue/expenditure budgets as reflected in the grant agreement, provided that the amount is not more than \$100,000 different from what was reflected in the Approved CIP which authorized the project funding. Project agreements more than \$100,000 different from the anticipated budget shall be submitted to the City Council for approval of a budget augmentation.

- 10.11 The Capital Budget has been amended over the past few years to include "Credit Projects." Credit projects are established to account for turnkey parks, infrastructure and other improvements provided by a developer in exchange for City fee credits. Effective with the 2003-2007 Approved CIP these projects have been identified by using an alpha-numeric alpha-numeric (L1L1) project number. In an effort to provide for a more accurate reflection of proposed spending by fund, these projects are reflected in the CIP as funded by Developer Credit/Obligations (Fund 999). At the time these improvements are accepted by the City of Sacramento the projects and related appropriations will be recorded in the appropriate City fund.
- 10.12 Community/Neighborhood projects and appropriations established with one-time funding sources under Resolution 2000-682 (11/21/00), 2001-765 (11/20/01), 2003-412 (6/17/03), 2004-551 (6/29/04) and associated staff reports are governed by the following procedures:
- (1) Savings of up to \$50,000 due to lower than expected costs or the securing of alternative funding sources can be administratively reprogrammed into other projects within the same City Council District, at the request of the City Council District Office and with the approval of the Director of Finance.
 - (2) Savings above \$50,000 to be reprogrammed will require City Council approval.
- 10.13 The City's CIP (Exhibit 4) includes projects that are directly supported by user and developer fees. The Finance Director is authorized to adjust department operating revenue budgets and CIP expenditure budgets for projects directly supported by fees based on the actual fees collected less any operating costs associated with delivering the service.

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SECTION 11. OPERATING GRANTS AND EXTERNALLY FUNDED PROGRAMS

- 11.1 All operating grants/externally funded programs over \$100,000 shall be approved by the City Council.
- 11.2 All operating grants/externally funded programs under \$100,000 shall be approved by the City Council if:
 - (1) Any increase or decrease, by department by fund, in FTE staffing levels as authorized in the Approved or Amended Budget is requested; or
 - (2) Matching funds from City resources are required; or
 - (3) Accepting the grant/externally funded program creates an expectation for ongoing service or funding by the City.
- 11.3 If a granting/externally funded program authority requires City Council action then the grant/ externally funded program shall require approval by City Council regardless of the grant amount.
- 11.4 Operating grants/externally funded programs appropriated in the Approved or Amended Budget do not require additional City Council approval to be expended upon receipt of such grant, grants or funds for externally funded programs.
- 11.5 All multi-year operating grant/externally funded program budgets in existence on June 30, 2005 shall be continued in FY2005/06.

SECTION 12. CONTINGENCY LITIGATION/PROPERTY MITIGATION RESERVE

- 12.1 The Contingent Litigation/Property Mitigation Reserve is maintained annually to cover potential costs associated with outstanding litigation or property mitigation. Transfers from this Reserve to the operating budget may be approved by the City Manager.

SECTION 13. IN-LIEU PROPERTY TAXES AND IN-LIEU FRANCHISE FEE

- 13.1 An in-lieu property tax and in-lieu franchise fee are hereby imposed on the Community Center, Parking and Sacramento Marina funds in the amounts provided in Schedule 3 as displayed in Exhibit 3. The City Council finds that the in-lieu property tax as detailed in Schedule 3 represents the property tax revenue, which would be received by the General Fund if the real and personal property owned by these enterprises were taxable under private ownership. The in-lieu franchise fee as detailed on Schedule 3 represents the franchise fees, which would be received by the City from private entities as a rental or a toll for the use of City streets and rights of way.

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SECTION 14. APPROPRIATION LIMITS

- 14.1 The appropriation limit and the appropriations subject to the limit are hereby amended pursuant to Article XIII B of the California Constitution for FY2005/06 as detailed in Schedule 5 as displayed in Exhibit 3.

SECTION 15. MIDYEAR FINANCIAL REPORT

- 15.1 The City Council shall be provided a Midyear Financial Report including a re-estimate of the financial condition of all funds, prior year actual fund balances, re-estimated revenues and expenditures, projected ending fund balances or deficits, and recommendations for eliminating any projected fund deficits.
- 15.2 The City Council shall act on any projected fund deficits prior to the close of the Fiscal Year.

SECTION 16. MISCELLANEOUS CONTROLS/CONSIDERATIONS

- 16.1 No expenditures at the department level shall exceed the Approved or Amended Budget, by fund.
- 16.2 Subject to approval by the Director of Finance and pursuant to the sections governing transfers and appropriations, projected deficiencies in any department by fund must be corrected by:
 - (1) Reducing expenditures in said department (i.e. freezing vacant positions, restricting purchase orders, etc.); or
 - (2) An appropriation transfer from Contingency Reserve funds, subject to the provisions of Section 6.
- 16.3 The Director of Finance is authorized to:
 - (1) Adjust budgets to reflect all required debt service payments per the official statements;
 - (2) Adjust budgets in the Special Revenue funds for appropriations required based on the action/direction of the City Council relative to capital projects, transfer requirements and the availability of funds;
 - (3) Adjust department fleet purchasing budgets (object codes 4236/4632) at the close of each fiscal year to allow unobligated appropriations to be carried forward into the next fiscal year to allow for purchasing of fleet equipment authorized but not yet purchased;
 - (4) Adjust budgets in the Capital Project funds for the current year based on previous actions of City Council for projects on a multi-year basis; and

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- (5) Adjust budgets in the Multi-Year Non-Capital Project Agency for the current year based on the previous action of City Council for programming on a multi-year basis.

16.4 In all staff reports that come before the City Council, net budgetary impacts on all funds will be stated clearly and concisely including indirect impacts so that the Councilmembers have a full understanding of the financial considerations and impacts of the decisions.

MAYOR

ATTEST:

CITY CLERK

Exhibits

- Exhibit 1 FY2005/06 Operating Budget Augmentations
- Exhibit 2 FY2005/06 Summary of Changes to the Proposed Operating & CIP Budgets
- Exhibit 3 FY2005/06 Approved Operating Budget
- Exhibit 4 2005-2010 Approved Capital Improvement Program (CIP)

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EXHIBIT 1

FY2005/06 OPERATING BUDGET AUGMENTATIONS

High Priority General Fund

Department	Net Cost	FTE	Description
City Attorney	\$405,000	4.0	Recommendation of Staffing Study
Code Enforcement	154,000	1.0	Department Head
Development Services	97,500	1.0	Department Head ½ year
Neighborhood Services	75,360	1.0	Equalize Area Team Staffing
Downtown Ice Rink	50,000	-	City Funding
Urban Forest	100,000	-	Restoration & Maintenance
Urban Forest	15,000	-	Division Status
Library Maintenance	400,000	-	Facility Maintenance
Subtotal Net General Fund	\$1,296,860	7.0	

General Fund, Fee Supported or Cost Offset

Department	Net Cost	FTE	Description
General Services	\$850,000	4.5	City Hall Operation
Code Enforcement	1,355,740	13.0	Enhanced Enforcement
Development Services	2,021,900	22.5	Reorganization & New Service Model
Economic Development	234,265	2.0	New Department Support
Parks & Recreation	689,282	6.3	Project Support & Summer Program
Transportation	926,224	6.0	Traffic Operations & Parking Enforcement
Subtotal Other General Fund	\$6,077,411	54.3	

Enterprise Funds

Department	Augmentation	FTE	Description
Utilities Base Issues	\$2,837,218	-	Cumulative Supply & Energy Costs
Utilities Growth	495,562	5.0	Infrastructure Maintenance
Convention Center	-	1.0	Event Coordination
Subtotal Enterprise Funds	\$3,332,780	6.0	

Grand Total	\$ 10,707,051	67.3 FTE
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EXHIBIT 2

**SUMMARY OF CHANGES TO THE
FY2005/06 PROPOSED OPERATING AND CIP BUDGETS**

FY 2005/06 OPERATING BUDGET				
Department	Fund	FTE	Net \$ Change	Description
Non-Department	101	-	(900,000)	Jail Booking Fees, Service and Supplies
Parks and Recreation	101	-	900,000	Recreation Programs, Labor/ Service and Supplies
Police	101	-	100,000	Adjustment to reflect communications costs not included in the original base budget
Utilities	413	-	(205,380)	Labor and Reimbursements for the 3331 and 3345 Division/unit were assigned to the wrong fund
Utilities	425	-	205,380	Labor and Reimbursements for the 3331 and 3345 Division/unit were assigned to the wrong fund
Utilities-SAFCA	413	-3.0	-	FTE should have been allocated to the storm drainage fund
Utilities-SAFCA	425	+3.0	-	FTE were allocated to the water fund and should have been assigned to the storm drainage fund

FY2005/06 CAPITAL IMPROVEMENT PROGRAM BUDGET					
CIP #	Project Name	Fund	FY2005/06 Proposed Budget	FY2005/06 Proposed Amendment	FY2005/06 Approved Budget
XI26	Sewer Service Lining – 2006	414	100,000	(100,000)	0
XI41	Sump 79 Reconstruction	414	500,000	(400,000)	100,000
XN29	Sump 2A Catenary Trash Rake	414	150,000	(75,000)	75,000
ZE46	Base CIP Reserve - Water	413	370,000	2,960	372,960
ZF36	SCADA System Upgrade	413	180,000	(80,000)	100,000
ZG11	Local Area Network	413	110,000	(80,000)	30,000
ZH41	Drinking Water Quality	413	400,000	(265,000)	135,000
ZJ96	FWTP Switchgear Upgrade	413	770,000	(770,000)	0
ZK66	Residential Water Meter Program	413	100,000	1,063,000	1,163,000
ZL16	SRWTP N. Vault Manifold Repl.	413	25,000	385,000	410,000
ZL21	FWTP Low Lft Pump Phase I	413	100,000	54,000	154,000

Text changes to the FY2005/06 Proposed Operating Budget and the 2005-2010 Proposed Capital Improvement Program will be incorporated to reflect the actions listed above as well as to correct formatting, updated contact information and other items that do not result in financial impacts.

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EXHIBIT 3

FY2005/06 Approved Operating Budget

Insert

FY2005/06 Approved Operating Budget

FOR CITY COUNCIL USE ONLY

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RESOLUTION NO.: _____

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EXHIBIT 4

2005-2010 Capital Improvement Program (CIP)

Insert

Approved 2005-1020 Capital Improvement Program

FOR CITY COUNCIL USE ONLY

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RESOLUTION NO.

ADOPTED BY THE SACRAMENTO CITY COUNCIL

ON DATE OF _____

RESOLUTION ADOPTING FINDINGS AND AMENDING THE CITY OF SACRAMENTO FEE AND CHARGE REPORT TO ESTABLISH WATER AND SEWER SERVICE FEES

WHEREAS, Articles XIIC and D of the California Constitution (Proposition 218) establish various procedures for the approval of local taxes, assessments and property-related service fees; and

WHEREAS, for the imposition or increase of water, sewer and refuse collection service fees that are "property-related fees" within the meaning of Proposition 218, and Proposition 218 requires that a notice describing the proposed fee or fee increase and establishing a date, time and location of a public hearing on the proposed fee or fee increase, be mailed to the record owner of each parcel subject to the proposed fee or fee increase; and

WHEREAS, at such hearing (held not less than 45 days after the notice is mailed), Proposition 218 requires the agency proposing such fee or fee increase to consider all protests filed against the proposed fee or fee increase, and prohibits the agency from approving the proposed fee or fee increase if written protests against the proposed fee or fee increase are presented by a majority of the owners of the affected parcels; and

WHEREAS, on April 22, 2005, the City mailed a notice to all owners of property subject to the City's water, sewer and refuse collection service fees, which notice: (i) described proposed increases in these fees for all; (ii) provided the date, time and location of the public hearing when these proposed fee increases and proposed new fee would be considered for adoption by the City Council; and (iii) notified such owners of their right to file a written protest against the proposed fee increases and proposed new fee with the City Clerk at or before the time set for public hearing; and

WHEREAS, the City Council has held such public hearing, and has considered all protests against the proposed fee increases and proposed new fee as well as all testimony and other information presented by City staff and members of the public.

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NOW, THEREFORE, BE IT RESOLVED BY THE SACRAMENTO CITY COUNCIL THAT:

1. Based on the testimony and other information presented to it, the City Council hereby finds that as of the date and time of the public hearing on this matter, the number of written protests received by the City Clerk against the proposed two year nine percent (9%) increase in the City's water service fees and two year six percent (6%) increase in City's sewer service fees is less than a majority of the record owners of the parcels that will be subject to the proposed increased water and sewer service fees.
2. Pursuant to Sections 13.04.720, 13.04.820, 13.04.920, 13.08.150, 13.08.160, 13.08.240, and 13.08.270 of the Sacramento City Code, the City of Sacramento Fee and Charge Report is hereby amended to include the water and sewer service fees and charges attached hereto as Exhibit 1 and 2.
3. Based on the information presented to it and upon all information in the public record, and in compliance with Public Resources Code Section 21080(b)(8), the City Council finds that the increased water and sewer service fees are for the purpose of:
 - a. Providing funds to meet operating expenses.
 - b. Permitting the generation of necessary cash flow to finance maintenance of the water system and meeting financial reserves requirements.
 - c. Permitting the purchase of necessary equipment for the system.
 - d. Being a source of funds for capital projects necessary to maintain the system.

MAYOR

ATTEST:

CITY CLERK

Exhibits

Exhibit 1 - Water Fees and Charges

Exhibit 2 - Sewer Fees and Charges

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EXHIBIT 1

Water Service Fees and Charges

The Fee and Charge Report of the City of Sacramento is proposed to be amended to include the following water service, connection, development fees and charges effective on July 1, 2005, and July 1, 2006, respectively.

	<u>Rate Code</u>	<u>FY06 Rate</u>	<u>FY07 Rate</u>
I. WATER USE RATES, MONTHLY DOMESTIC			
Single-family residence:	100		
1-3 rooms		15.45	16.84
4-5 rooms		20.11	21.92
6-9 rooms		21.87	23.83
10-15 rooms		25.27	27.54
Over 15, each additional room		1.77	1.93
Multiple-family residences (for each family dwelling unit in a multiple family residence)	101		
1-3 rooms		11.85	12.92
4-5 rooms		15.17	16.54
6-7 rooms		18.51	20.18
8-9 rooms		21.87	23.83
10-15 rooms		25.27	27.54
Over 15, each additional room		1.77	1.93
Lot Irrigation, per Water Service Tap	102	30.78	33.55
II. WATER USE RATES, MONTHLY COMMERCIAL			
Bakery, first 1,000 sq. ft. of gross floor area or fraction thereof	130	42.92	46.78
Each additional 1,000 sq. ft. or fraction thereof		28.54	31.11
Barber Shop or Beauty Parlor, first 1,000 sq. ft. of gross floor area or fraction thereof	131	21.46	23.39
Each additional 1,000 sq. ft. or fraction thereof		13.84	15.09
Bowling Alley, first 1,000 sq. ft. of gross floor area or fraction thereof	131	21.46	23.39
Each additional 1,000 sq. ft. or fraction thereof		13.84	15.09
Cemetery, for the irrigation season, first 1,000 sq. ft. or fraction thereof	132	39.39	42.94
Each additional 1,000 sq. ft. or fraction thereof		3.14	3.42
Dining Facilities (including restaurant, cafeteria, cafe, bar) first 1,000 sq. ft. of gross floor area or fraction thereof	133	42.77	46.62
Each additional 1,000 sq. ft. or fraction thereof		28.19	30.73

EXHIBIT 2

Sewer Service Fees and Charges

The Fee and Charge Report of the City of Sacramento is proposed to be amended to include the following sewer service, connection, development fees and charges effective on July 1, 2005, and July 1, 2006, respectively.

	<u>Rate Code</u>	<u>FY06 Rate</u>	<u>FY07 Rate</u>
I. SEWER SERVICE RATES - RESIDENTIAL			
Single-family residence:			
1-3 rooms	200	7.71	8.17
4-5 rooms	200	9.76	10.35
6-7 rooms	200	11.76	12.47
8-9 rooms	200	13.59	14.41
10-15 rooms	200	15.59	16.53
over 15, each additional room	200	1.07	1.13
Multiple-family residence:			
Each dwelling unit charged the same as a single-family residence			
II. SEWER SERVICE RATES - MONTHLY COMMERCIAL			
Bakery, each 1,000 sq.ft. of gross floor area or fraction thereof	230	17.01	18.03
Barber Shop or Beauty Parlor, each 1,000 sq.ft. of gross floor area or fraction thereof	231	9.12	9.67
Bowling Alley, each 1,000 sq.ft. of gross floor area or fraction thereof	232	7.97	8.45
Dining Facilities (including restaurant, cafeteria, cafe, bar) each 1,000 sq.ft. of gross floor area or fraction thereof	233	18.26	19.36
Drug Store, each 1,000 sq.ft. of gross floor area or fraction thereof	234	5.98	6.34
Furniture Store, each 1,000 sq.ft. of gross floor area or fraction thereof	235	1.97	2.09
Garage, each 1,000 sq.ft. of gross floor area or fraction thereof	236	1.61	1.71
Halls (including lodge or auditorium), each 1,000 sq.ft. of gross floor area or fraction thereof	237	5.29	5.61
Hotel, per sleeping room	238	1.81	1.92
Laundry (where laundry is performed on premises), each 1,000 sq. ft. of gross floor area or fraction thereof	239	35.38	37.50
Market, each 1,000 sq.ft. of gross floor area or fraction thereof	240	7.63	8.09
Mortuary, each 1,000 sq.ft. of gross floor area or fraction thereof	241	5.02	5.32

	<u>Rate Code</u>	<u>FY06 Rate</u>	<u>FY07 Rate</u>
II. SEWER SERVICE RATES - MONTHLY COMMERCIAL (continued)			
Motel, per sleeping room or fraction thereof	238	1.81	1.92
Office Building, each 1,000 sq.ft. of gross floor area or fraction thereof	242	6.18	6.55
Religious Worship (premises), each 1,000 sq.ft. of gross floor area or fraction thereof	243	2.73	2.89
Rest or Convalescent Home, per sleeping room or fraction thereof	244	2.92	3.10
School, each 100 pupils or fraction thereof	245	16.14	17.11
Service Station and Used Car Lot (no wash racks):			
Water tap size to City main: 3/4"	246	9.60	10.18
1"	247	12.51	13.26
1 1/2"	248	20.56	21.79
2"	249	35.38	37.50
Store, each 1,000 sq.ft. of gross floor area or fraction thereof	250	6.34	6.72
Theater, each 1,000 sq.ft. of gross floor area or fraction thereof	251	7.53	7.98
Warehouse, each 1,000 sq.ft. of gross floor area or fraction thereof	252	1.47	1.56
Minimum rate, not less than:		9.54	10.11
III. SPECIAL SEWER RATES - MONTHLY			
Air Conditioning Systems			
For systems on flat-rate service, each month during air conditioning season, per ton of system capacity:	272	15.22	16.13
With water conservation device:	271	1.47	1.56
Evaporative coolers (commercial establishments), for each month during air conditioning season, unit capacity - per 1,000 cfm, without recirculation	274	2.04	2.16
With water conservation device, with recirculation:	273	0.59	0.63
Refrigeration systems, for systems on flat-rate service, per compressor horsepower:	276	15.22	16.13
With water conservation device:	275	1.47	1.56
Dining Facility, each 1,000 sq.ft. or fraction thereof	279	11.82	12.53
Gymnasium, each shower head	280	5.44	5.77

	<u>Rate Code</u>	<u>FY06 Rate</u>	<u>FY07 Rate</u>
III. SPECIAL SEWER RATES - MONTHLY (continued)			
Hydraulically operated elevator	282	46.87	49.68
With water conservation device	281	8.19	8.68
Swimming Pool, non-commercial, per pool capacity			
Under 300 cu.ft. (fill & draw)		0.00	0.00
Over 300 cu.ft. (fill & draw), each 100 cu.ft. contents	278	1.97	2.09
Under 300 cu.ft. (filtered)		0.00	0.00
Over 300 cu.ft. (filtered), each 100 cu.ft. contents	277	0.51	0.54
IV. MONTHLY METERED SEWER USE, PER 100 CU.FT.		0.4816	0.5105

Water Meter Size	Quantity of Sewage Allowed Without Additional Payment			
5/8" x 3/4"	1200 cu.ft., 9000 gal.	260	5.78	6.13
3/4"	1700 cu.ft., 13000 gal.	261	8.19	8.68
1"	2100 cu.ft., 16000 gal.	262	10.11	10.72
1 1/2"	3700 cu.ft., 28000 gal.	263	17.82	18.89
2"	6200 cu.ft., 46000 gal.	264	29.86	31.65
3"	12500 cu.ft., 94000 gal.	265	60.19	63.80
4"	21800 cu.ft., 163000 gal.	266	104.98	111.28
6"	50000 cu.ft., 374000 gal.	267	240.78	255.23
8"	106200 cu.ft., 794000 gal.	268	511.41	542.09
10"	168700 cu.ft., 1262000 gal.	269	812.39	861.13
12"	262500 cu. ft., 1964000 gal.	270	1,264.09	1,339.94

V. SERVICE CONNECTION TO CITY SEWER SYSTEM

Sewer service installation (total charge to be based on unit cost times one-half the width of the street)

<u>Nom. Dia.</u>	<u>Streets & Alleys</u>	<u>Easements</u>
4"	96.05 /ft.	401.74
Larger	5.19 /2" dia. increase	32.46 /2" dia. increase

Easements

City connects first pipe: Rate schedule determined by City Manager based on average cost during a reasonable past period of time. (Code Sec. 36.601, Ordinance 3454/4178)

Connection into manhole or trunk: Rate schedule determined by City Manager based on average cost during a reasonable past period of time. (Code Sec. 36.601, Ordinance 3454/4178)

City labor and materials: Average cost recovery

Reconnect following disconnection: Full cost recovery. (Code Sec. 36.703, Ordinance 3353)

Trunk connections in district parcels--North Bannon Street District only (Code Sec. 36.903, Ordinance 3711):

<u>Parcel Number</u>	<u>Forced Main Fee</u>	<u>Outfall Fee</u>	<u>Area Fee</u>	<u>Total Fee</u>
1	1,167.95	327.24	1,923.65	3,418.84
2	203.19	56.96	608.22	868.37
3	203.19	56.96	608.22	868.37
4	203.19	56.96	608.22	868.37
5	203.19	56.96	608.22	868.37
6	203.19	56.96	608.22	868.37
7	203.19	56.96	608.22	868.37
8	203.19	56.96	608.22	868.37

VI. SEWER SYSTEM DEVELOPMENT FEES

Size of connection:	4"	124.00
	6"	278.00
	8"	494.00
	10"	772.00
	12"	1,112.00

If the existing service is replaced by one of a larger size at the owner's request, the fee shall be equal to the difference between the fee for the original service size and that for the replacement service size in the schedule above.

RESOLUTION NO.

ADOPTED BY THE SACRAMENTO CITY COUNCIL

ON DATE OF _____

**RESOLUTION ADOPTING FINDINGS AND AMENDING
THE CITY OF SACRAMENTO FEE AND CHARGE REPORT
TO ESTABLISH SOLID WASTE FEES AND CHARGES**

WHEREAS, Articles XIIC and D of the California Constitution (Proposition 218) establish various procedures for the approval of local taxes, assessments and property-related service fees; and

WHEREAS, for the imposition or increase of water, sewer and refuse collection service fees that are "property-related fees" within the meaning of Proposition 218, and Proposition 218 requires that a notice describing the proposed fee or fee increase and establishing a date, time and location of a public hearing on the proposed fee or fee increase, be mailed to the record owner of each parcel subject to the proposed fee or fee increase; and

WHEREAS, at such hearing (held not less than 45 days after the notice is mailed), Proposition 218 requires the agency proposing such fee or fee increase to consider all protests filed against the proposed fee or fee increase, and prohibits the agency from approving the proposed fee or fee increase if written protests against the proposed fee or fee increase are presented by a majority of the owners of the affected parcels; and

WHEREAS, on April 22, 2005, the City mailed a notice to all owners of property subject to the City's refuse collection service fees, which notice: (i) described proposed adjustments, including decreases and increases, in these fees for all parcels; (ii) provided the date, time and location of the public hearing when these proposed fee adjustments would be considered for adoption by the City Council; and (iii) notified such owners of their right to file a written protest against the proposed fee increases and proposed new fee with the City Clerk at or before the time set for public hearing; and

WHEREAS, the City Council has held such public hearing, and has considered all protests against the proposed fee adjustments, including decreases and increases, as well as all testimony and other information presented by City staff and members of the public.

FOR CITY COUNCIL USE ONLY

RESOLUTION NO.: _____

DATE ADOPTED: _____

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF SACRAMENTO THAT:

1. Based on the testimony and other information presented to it, the City Council hereby finds that as of the date and time of the public hearing on this matter:

The number of written protests received by the City Clerk against the proposed rate increases in the City's solid waste (garbage, recycling, lawn and garden refuse and street sweeping) service fees, is less than a majority of the owners of record of the parcels that will be subject to the proposed increased fees.

2. Pursuant to Sections 13.10.100, 13.10.440, 13.10.450, 13.10.460 of the Sacramento City Code, the City of Sacramento Fee and Charge Report is hereby amended to include the solid waste service fees and charges attached hereto as Exhibit 1 to take effect for services billed on or after July 1, 2005, for fiscal year 2005-2006 fees and charges.
3. Based on the information presented to it and upon all information in the public record, and in compliance with Public Resources Code Section 21080(b) (8), the City Council finds that the adjusted and increased solid waste service fees are for the purpose of:
 - a. Providing funds to meet operating expenses.
 - b. Permitting the generation of necessary cash flow to finance maintenance of the solid waste collection system and meeting financial reserves requirements.
 - c. Permitting the purchase of necessary equipment for the program.
 - d. Being a source of funds for capital projects necessary to maintain the program.

MAYOR

ATTEST:

CITY CLERK

Exhibits

Exhibit 1 – Monthly Solid Waste Fees and Charges

FOR CITY COUNCIL USE ONLY

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RESOLUTION NO.: _____

DATE ADOPTED: _____

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Monthly Solid Waste Fees and Charges

The City of Sacramento Fee and Charges Report is hereby amended to include the following Solid Waste fees and charges to be effective for services billed on or after July 1, 2005.

<u>Description</u>	<u>Rate Code</u>	<u>Amount of Service</u>	<u>FY06 Rate</u>
I. GARDEN REFUSE COLLECTION (LAWN & GARDEN) AND STREET SWEEPING			
<u>A. Lawn & Garden Services</u>			
Single family residence (non-containerized)	500	Weekly *	\$9.07
Single family (containerized) residence	510	Weekly *	\$6.90
Double family residence	501	Weekly *	\$13.80
<u>Multi-Family Residential Units</u>			
3-5 units	502	Weekly *	\$15.00
6-10 units	503	Weekly *	\$20.00
11-25 units	504	Weekly *	\$25.00
26-50 units	505	Weekly *	\$30.00
51 units and over * *	509	Weekly *	\$35.00
<u>Non-Residential/Commercial</u>			
2 cubic yards of garden refuse	506	Weekly *	\$22.00
3 cubic yards of garden refuse	507	Weekly *	\$30.00
4 cubic yards of garden refuse	511	Weekly *	\$35.00
<u>Miscellaneous Services</u>		charge special rate	
2nd can for containerized L&G service - (One time fee does not apply after first year of service)			\$37.50

FOR CITY COUNCIL USE ONLY

RESOLUTION NO.: _____

DATE ADOPTED: _____

<u>Description</u>	<u>Rate Code</u>	<u>Amount of Service</u>	<u>FY06 Rate</u>
<u>Miscellaneous Services (cont'd)</u>		charge special rate	
Service for 2nd can of containerized L&G service			\$4.00
(*Weekly service except during "Leaf Season")			
(**51 units and over are billed as same as commercial 4 cubic yard rate)			

B. Street Sweeping Services

Single family residence	508		\$1.10
Double family residence	512		\$1.75

Multi-Family Residential Units

3-5 units	513		\$3.10
6-10 units	514		\$3.35
11-25 units	515		\$3.35
26-50 units	516		\$3.35
51 units and over	517		\$3.50

<i>Non-Residential /Commercial</i>	518		\$3.50
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<i>Special/Extra Sweeping Services</i>			\$260/hour
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II. RECYCLING SERVICES

Non-Residential/Commercial (WITH GARBAGE SERVICES)

1 yard commingled recycling	685	1 pickup/bi-weekly	\$20.00
2 yard commingled recycling	686	1 pickup/bi-weekly	\$27.00
3 yard commingled recycling	687	1 pickup/bi-weekly	\$36.00
4 yard commingled recycling	688	1 pickup/bi-weekly	\$41.00
In-office recycle (autolift)	692	1 pickup/weekly	\$7.10
Multi-family/commercial commingled recycle	694	1 pickup/weekly	\$7.10

FOR CITY COUNCIL USE ONLY

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RESOLUTION NO.: _____

DATE ADOPTED: _____

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<u>Description</u>	<u>Rate Code</u>	<u>Amount of Service</u>	<u>FY06 Rate</u>
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Non-Residential/Commercial (WITHOUT GARBAGE SERVICES)

1 yard commingled recycling	690	1 pickup/bi-weekly	\$26.25
2 yard commingled recycling	679	1 pickup/bi-weekly	\$34.25
3 yard commingled recycling	693	1 pickup/bi-weekly	\$43.25
4 yard commingled recycling	691	1 pickup/bi-weekly	\$48.25
In-office recycle (autolift)	to be determined	1 pickup/weekly	\$8.00
Multi-family/commercial commingled recycle	to be determined	1 pickup/weekly	\$8.00

Residential

Commingled 96-gallon	675	Weekly	\$2.55
Commingled 64-gallon	699	Weekly	\$2.55
Commingled Disabled	698	Weekly	\$2.55

Miscellaneous Recycling Services

Recycling services for 2nd recycling can			\$2.55
Delivery of second can			\$24.00
Replacement can within one year			\$37.50
Fee if service is changed less than 6 months after service is started			\$37.50

III. GARBAGE COLLECTION SERVICE
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Residential Manual Services

32 gal or less non-curb*	600	1 pickup/wk	\$22.06
		2 pickups/wk	\$44.13
		3 pickups/wk	\$57.96
		Additional can/pickup	\$10.75
33-40 gal non-curb*	601	1 pickup/wk	\$24.30
		2 pickups/wk	\$48.61
		3 pickups/wk	\$64.86
		Additional can/pickup	\$13.96

FOR CITY COUNCIL USE ONLY

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RESOLUTION NO.: _____

DATE ADOPTED: _____

<u>Description</u>	<u>Rate Code</u>	<u>Amount of Service</u>	<u>FY06 Rate</u>
<u>Residential Manual Services (cont'd)</u>			
32 gal or less curbside	604	1 pickup/wk	\$15.25
		2 pickups/wk	\$30.51
		3 pickups/wk	\$45.38
		Additional can/pickup	\$7.74
33-40 gal curbside	605	1 pickup/wk	\$16.89
		2 pickups/wk	\$33.78
		3 pickups/wk	\$50.66
		Additional can/pickup	\$9.94

(* "non-curb" is defined as container placement more than 6 feet from curb.)

Miscellaneous Residential Manual Services

Collection on special call (manual)		40 gal or less	\$30.15
		Each additional can	\$11.39
Extra bag on normal route		All sizes	\$5.50
Fee if service is changed less than 6 months after service is started			\$25.00
Replacement can within one year			\$37.50
Dormant Service (One-time fee to stop garbage & recycling charges temporarily)			\$50.00
Dormat Service Fee (Monthly fee for vacant residences)	NEW		\$4.65

Residential Automated Services

Auto-lift (96 gallon)	608	1 pickup/wk per res. unit	\$14.95
Auto-lift DISABLED (96 gallon)	697	1 pickup/wk per res. unit	\$14.95
Additional 96 gallon		Each additional can (sitting together)	\$12.00
Auto-lift (64 gallon)	673	1 pickup/wk per res. unit	\$12.35

FOR CITY COUNCIL USE ONLY

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RESOLUTION NO.: _____

DATE ADOPTED: _____

<u>Description</u>	<u>Rate Code</u>	<u>Amount of Service</u>	<u>FY06 Rate</u>
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Residential Automated Services (cont'd)

Auto-lift DISABLED (64 gallon)	696	1 pickup/wk per res. unit	\$12.35
Additional 64 gallon	684	Each additional can (sitting together)	\$10.50
Auto-lift container (32 gallon)	609	1 pickup/wk per res. unit	\$10.15
Auto-lift DISABLED (32 gallon)	695	1 pickup/wk per res. unit	\$10.15
Additional 32 gallon	683	Each additional can (sitting together)	\$9.00

Miscellaneous Residential Automated Services

Collection on special call (autolift)		96-gallon	\$26.12
		Additional can/bag 64-gallon	\$13.66
		Additional can/bag 32-gallon or less	\$23.62
		Additional can/bag	\$12.11
		Additional can/bag	\$21.26
		Additional can/bag	\$10.65
Extra bag on normal route		96-gallon	\$8.35
		64-gallon	\$6.30
		32-gallon or less	\$5.25
Fee if service for additional container is stopped less than six months after service is started			\$25.00
Replacement can within one year			\$37.50
Dormant Service (One-time fee to stop garbage & recycling charges temporarily)			\$50.00
Dormat Service Fee (Monthly fee for vacant residences)	NEW		\$4.65

FOR CITY COUNCIL USE ONLY

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RESOLUTION NO.: _____

DATE ADOPTED: _____

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<u>Description</u>	<u>Rate Code</u>	<u>Amount of Service</u>	<u>FY06 Rate</u>
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Multi-Family/Commercial Manual Cans Services

Com 32 gal or less	630	1 pickup/wk	\$27.10
		2 pickup/wk	\$54.19
		3 pickup/wk	\$75.86
		4 pickup/wk	\$101.16
		5 pickup/wk	\$126.45
		6 pickup/wk	\$151.74
		Additional can	\$15.50
Com 33-40 gal	631	1 pickup/wk	\$29.84
		2 pickup/wk	\$59.70
		3 pickup/wk	\$80.38
		4 pickup/wk	\$107.18
		5 pickup/wk	\$133.98
Com 33-40 gal (continued)	631	6 pickup/wk	\$160.77
		Additional can	\$19.50
Com 41-50 gal	632	1 pickup/wk	\$35.86
		2 pickup/wk	\$71.71
		3 pickup/wk	\$107.58
		4 pickup/wk	\$143.43
		5 pickup/wk	\$179.29
		6 pickup/wk	\$215.15
		Additional can	\$22.45
Com 51-60 gal	633	1 pickup/wk	\$41.24
		2 pickup/wk	\$82.49
		3 pickup/wk	\$123.73
		4 pickup/wk	\$164.97
		5 pickup/wk	\$206.21
		6 pickup/wk	\$247.46
		Additional can	\$26.20

Miscellaneous Multi-Family/Commercial Manual Can Services

Commercial manual collection on special call	32 gal or less	\$35.25
	Each additional can	\$17.50
Replacement can within one year		\$37.50

FOR CITY COUNCIL USE ONLY

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RESOLUTION NO.: _____

DATE ADOPTED: _____

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<u>Description</u>	<u>Rate Code</u>	<u>Amount of Service</u>	<u>FY06 Rate</u>
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Multi-Family/Commercial Automated Can Services

Commercial Auto-lift (96 gallon)	678	1 pickup/wk	\$20.50
Commercial Auto-lift (64 gallon)	677	1 pickup/wk	\$18.00
Commercial Auto-lift (32 gallon)	676	1 pickup/wk	\$16.00
Commercial - additional can		Each additional 96 gallon can	\$16.00
Commercial - additional can		Each additional 64 gallon can	\$14.60
Commercial - additional can		Each additional 32 gallon can	\$14.00
Replacement can within one year			\$37.50

Miscellaneous Multi-Family/Commercial Automated Can Services

Commercial automated collection on special call		96-gallon automated can	\$27.24
		64-gallon automated can	\$23.69
		32-gallon automated can	\$20.50
		Each additional can	\$17.50
1 yd bin loose/owned for multi-family res over 4 units	612	1 pickup/wk	\$51.30
		2 pickup/wk	\$102.61
		3 pickup/wk	\$153.91
		4 pickup/wk	\$205.21
		5 pickup/wk	\$256.51
		6 pickup/wk	\$307.81
1 yd bin loose/owned for multi-family res over 4 units	612	1 pickup/wk	\$51.30
		2 pickup/wk	\$102.61
		3 pickup/wk	\$153.91
		4 pickup/wk	\$205.21
		5 pickup/wk	\$256.51
		6 pickup/wk	\$307.81

FOR CITY COUNCIL USE ONLY

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RESOLUTION NO.: _____

DATE ADOPTED: _____

<u>Description</u>	<u>Rate Code</u>	<u>Amount of Service</u>	<u>FY06 Rate</u>
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Miscellaneous Multi-Family/Commercial Automated Can Services (cont'd)

1 yd bin compacted/owned for multi-family res over 4 units	614	1 pickup/wk	\$106.41
		2 pickup/wk	\$212.81
		3 pickup/wk	\$319.22
		4 pickup/wk	\$425.62
		5 pickup/wk	\$532.03
		6 pickup/wk	\$638.43
2 yd bin loose/owned for multi-family res over 4 units	616	1 pickup/wk	\$67.15
		2 pickup/wk	\$134.29
		3 pickup/wk	\$201.45
		4 pickup/wk	\$268.59
		5 pickup/wk	\$335.74
		6 pickup/wk	\$402.88
2 yd bin compacted/owned for multi-family res over 4 units	618	1 pickup/wk	\$135.27
		2 pickup/wk	\$270.53
		3 pickup/wk	\$405.80
		4 pickup/wk	\$541.07
		5 pickup/wk	\$676.32
		6 pickup/wk	\$811.59
3 yd bin owned for multi-family res over 4 units	620	1 pickup/wk	\$82.99
		2 pickup/wk	\$165.98
		3 pickup/wk	\$248.96
		4 pickup/wk	\$331.94
		5 pickup/wk	\$414.93
		6 pickup/wk	\$497.91
3 yd bin compactor for multi-family res over 4 units	621	1 pickup/wk	\$119.34
		2 pickup/wk	\$238.67
		3 pickup/wk	\$358.01
		4 pickup/wk	\$477.33
		5 pickup/wk	\$596.67
		6 pickup/wk	\$716.01
4 yd bin owned for multi-family res over 4 units	623	1 pickup/wk	\$98.84
		2 pickup/wk	\$197.67
		3 pickup/wk	\$296.50
		4 pickup/wk	\$395.33
		5 pickup/wk	\$494.16
		6 pickup/wk	\$592.99

FOR CITY COUNCIL USE ONLY

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RESOLUTION NO.: _____

DATE ADOPTED: _____

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<u>Description</u>	<u>Rate Code</u>	<u>Amount of Service</u>	<u>FY06 Rate</u>
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Miscellaneous Multi-Family/Commercial Automated Can Services (cont'd)

5 yd bin owned for multi-family res over 4 units	625	1 pickup/wk	\$114.68
		2 pickup/wk	\$229.36
		3 pickup/wk	\$344.04
		4 pickup/wk	\$458.72
		5 pickup/wk	\$573.00
		6 pickup/wk	\$688.08
6 yd bin owned for multi-fam res over 4 units	627	1 pickup/wk	\$130.53
		2 pickup/wk	\$261.04
		3 pickup/wk	\$391.56
		4 pickup/wk	\$522.08
		5 pickup/wk	\$652.60
		6 pickup/wk	\$783.12
8 yd bin loose for multi-fam res over 4 units	628	1 pickup/wk	\$184.97
		2 pickup/wk	\$369.92
		3 pickup/wk	\$554.87
		4 pickup/wk	\$739.82
		5 pickup/wk	\$924.77
		6 pickup/wk	\$1,109.74
8 yd bin compacted for multi-fam res over 4 units	629	1 pickup/wk	\$316.44
		2 pickup/wk	\$632.89
		3 pickup/wk	\$949.32
		4 pickup/wk	\$1,265.76
		5 pickup/wk	\$1,582.20
		6 pickup/wk	\$1,898.64

COMMERCIAL BINS SERVICE (3 Months Continuous Service Required)

Com 1 yd bin loose/owned	635	1 pickup/wk	\$51.30
		2 pickup/wk	\$102.61
		3 pickup/wk	\$153.91
		4 pickup/wk	\$205.21
		5 pickup/wk	\$256.51
		6 pickup/wk	\$307.81
Com 1 yd bin compacted/owned	637	1 pickup/wk	\$106.41
		2 pickup/wk	\$212.81
		3 pickup/wk	\$319.22
		4 pickup/wk	\$425.62
		5 pickup/wk	\$532.03
		6 pickup/wk	\$638.43

FOR CITY COUNCIL USE ONLY

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RESOLUTION NO.: _____

DATE ADOPTED: _____

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<u>Description</u>	<u>Rate Code</u>	<u>Amount of Service</u>	<u>FY06 Rate</u>
<u>COMMERCIAL BINS SERVICE (cont'd)</u>			
Com 2 yd bin loose/owned	639	1 pickup/wk	\$67.15
		2 pickup/wk	\$134.29
		3 pickup/wk	\$201.45
		4 pickup/wk	\$268.59
		5 pickup/wk	\$335.74
		6 pickup/wk	\$402.88
Com 2 yd bin compacted/owned	641	1 pickup/wk	\$135.27
		2 pickup/wk	\$270.53
		3 pickup/wk	\$405.80
		4 pickup/wk	\$541.07
		5 pickup/wk	\$676.32
		6 pickup/wk	\$811.59
Com 3 yd bin owned	643	1 pickup/wk	\$82.99
		2 pickup/wk	\$165.98
		3 pickup/wk	\$248.96
		4 pickup/wk	\$331.94
		5 pickup/wk	\$414.93
		6 pickup/wk	\$497.91
Com 3 yd bin compactor	644	1 pickup/wk	\$119.34
		2 pickup/wk	\$238.67
		3 pickup/wk	\$358.01
		4 pickup/wk	\$477.33
		5 pickup/wk	\$596.67
		6 pickup/wk	\$716.01
Com 4 yd bin owned	646	1 pickup/wk	\$98.84
		2 pickup/wk	\$197.67
		3 pickup/wk	\$296.50
		4 pickup/wk	\$395.33
		5 pickup/wk	\$494.16
		6 pickup/wk	\$592.99
Com 4 yd bin compactor	647	1 pickup/wk	\$146.34
		2 pickup/wk	\$292.68
		3 pickup/wk	\$439.02
		4 pickup/wk	\$585.35
		5 pickup/wk	\$731.70
		6 pickup/wk	\$878.03

FOR CITY COUNCIL USE ONLY

RESOLUTION NO.: _____

DATE ADOPTED: _____

<u>Description</u>	<u>Rate Code</u>	<u>Amount of Service</u>	<u>FY06 Rate</u>
<u>COMMERCIAL BINS SERVICE (cont'd)</u>			
Com 5 yd bin owned	649	1 pickup/wk	\$114.68
		2 pickup/wk	\$229.36
		3 pickup/wk	\$344.04
		4 pickup/wk	\$458.72
		5 pickup/wk	\$573.40
		6 pickup/wk	\$688.08
Com 5 yd bin compactor	650	1 pickup/wk	\$155.80
		2 pickup/wk	\$311.62
		3 pickup/wk	\$478.42
		4 pickup/wk	\$623.23
		5 pickup/wk	\$779.04
		6 pickup/wk	\$934.85
Com 6 yd bin owned	652	1 pickup/wk	\$130.53
		2 pickup/wk	\$261.04
		3 pickup/wk	\$391.56
		4 pickup/wk	\$522.08
		5 pickup/wk	\$652.60
		6 pickup/wk	\$783.12
Com 6 yd bin compactor	653	1 pickup/wk	\$200.11
		2 pickup/wk	\$400.21
		3 pickup/wk	\$600.33
		4 pickup/wk	\$800.44
		5 pickup/wk	\$1,000.55
		6 pickup/wk	\$1,200.65
Com 10 yd bin loose	654	1 pickup/wk	\$305.00
		2 pickup/wk	\$610.00
		3 pickup/wk	\$915.00
		4 pickup/wk	\$1,220.00
		5 pickup/wk	\$1,525.00
		6 pickup/wk	\$1,830.00
Com 10 yd bin compacted	655	1 pickup/wk	\$432.77
		2 pickup/wk	\$865.54
		3 pickup/wk	\$1,298.30
		4 pickup/wk	\$1,731.06
		5 pickup/wk	\$2,163.83
		6 pickup/wk	\$2,596.59

FOR CITY COUNCIL USE ONLY

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RESOLUTION NO.: _____

DATE ADOPTED: _____

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<u>Description</u>	<u>Rate Code</u>	<u>Amount of Service</u>	<u>FY06 Rate</u>
<u>COMMERCIAL BINS SERVICE (cont'd)</u>			
Com 20 yd bin loose	656	1 pickup/wk	\$351.58
		2 pickup/wk	\$703.15
		3 pickup/wk	\$1,054.71
		4 pickup/wk	\$1,406.28
		5 pickup/wk	\$1,757.85
		6 pickup/wk	\$2,109.42
Com 20 yd bin compacted	657	1 pickup/wk	\$681.38
		2 pickup/wk	\$1,362.76
		3 pickup/wk	\$2,044.11
		4 pickup/wk	\$2,725.50
		5 pickup/wk	\$3,406.87
		6 pickup/wk	\$4,088.25
Com 25 yd bin loose	658	1 pickup/wk	\$408.49
		2 pickup/wk	\$816.98
		3 pickup/wk	\$1,225.47
		4 pickup/wk	\$1,633.97
		5 pickup/wk	\$2,042.45
		6 pickup/wk	\$2,450.95
Com 25 yd bin compacted	659	1 pickup/wk	\$806.61
		2 pickup/wk	\$1,613.21
		3 pickup/wk	\$2,419.81
		4 pickup/wk	\$3,226.40
		5 pickup/wk	\$4,033.00
		6 pickup/wk	\$4,839.60
Com 30 yd bin loose	660	1 pickup/wk	\$465.41
		2 pickup/wk	\$930.82
		3 pickup/wk	\$1,396.23
		4 pickup/wk	\$1,861.64
		5 pickup/wk	\$2,327.06
		6 pickup/wk	\$2,792.47
Com 30 yd bin compacted	661	1 pickup/wk	\$929.98
		2 pickup/wk	\$1,859.97
		3 pickup/wk	\$2,789.96
		4 pickup/wk	\$3,719.94
		5 pickup/wk	\$4,649.92
		6 pickup/wk	\$5,579.90

FOR CITY COUNCIL USE ONLY

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RESOLUTION NO.: _____

DATE ADOPTED: _____

<u>Description</u>	<u>Rate Code</u>	<u>Amount of Service</u>	<u>FY06 Rate</u>
<u>COMMERCIAL BINS SERVICE (cont'd)</u>			
Com 35 bin loose	662	1 pickup/wk	\$520.66
		2 pickup/wk	\$1,041.32
		3 pickup/wk	\$1,561.97
		4 pickup/wk	\$2,082.63
		5 pickup/wk	\$2,603.29
		6 pickup/wk	\$3,123.95
Com 35 bin compacted	663	1 pickup/wk	\$1,055.22
		2 pickup/wk	\$2,110.43
		3 pickup/wk	\$3,165.64
		4 pickup/wk	\$4,220.84
		5 pickup/wk	\$5,276.05
		6 pickup/wk	\$6,331.26
Com 40 yd bin loose	664	1 pickup/wk	\$577.59
		2 pickup/wk	\$1,155.16
		3 pickup/wk	\$1,732.73
		4 pickup/wk	\$2,310.32
		5 pickup/wk	\$2,887.89
		6 pickup/wk	\$3,465.47
Com 40 yd bin compacted	665	1 pickup/wk	\$1,178.60
		2 pickup/wk	\$2,357.19
		3 pickup/wk	\$3,535.79
		4 pickup/wk	\$4,714.38
		5 pickup/wk	\$5,892.98
		6 pickup/wk	\$7,071.56
Com 1 blanket	666	1 pickup/wk	\$20.47
		2 pickup/wk	\$40.95
		3 pickup/wk	\$61.42
		4 pickup/wk	\$81.88
		5 pickup/wk	\$102.35
		6 pickup/wk	\$122.82
Com 2 blanket	667	1 pickup/wk	\$33.64
		2 pickup/wk	\$67.26
		3 pickup/wk	\$100.88
		4 pickup/wk	\$134.52
		5 pickup/wk	\$168.14
		6 pickup/wk	\$201.77

FOR CITY COUNCIL USE ONLY

RESOLUTION NO.: _____

DATE ADOPTED: _____

<u>Description</u>	<u>Rate Code</u>	<u>Amount of Service</u>	<u>FY06 Rate</u>
<u>COMMERCIAL BINS SERVICE (cont'd)</u>			
Com 3 blanket	668	1 pickup/wk	\$52.27
		2 pickup/wk	\$104.52
		3 pickup/wk	\$156.78
		4 pickup/wk	\$209.03
		5 pickup/wk	\$261.30
		6 pickup/wk	\$313.55
Com 4 blanket	669	1 pickup/wk	\$70.91
		2 pickup/wk	\$141.82
		3 pickup/wk	\$212.71
		4 pickup/wk	\$283.62
		5 pickup/wk	\$354.52
		6 pickup/wk	\$425.43
Com 5 blanket	670	1 pickup/wk	\$88.63
		2 pickup/wk	\$177.27
		3 pickup/wk	\$265.90
		4 pickup/wk	\$354.52
		5 pickup/wk	\$443.15
		6 pickup/wk	\$531.78
Com Cart	671	5 pickups	\$89.00
Trailer	672	5 pickups	\$371.86
Two-person route surcharge	610	1 pickup/wk	\$17.85
		2 pickups/wk	\$35.70
		3 pickups/wk	\$53.55
		4 pickups/wk	\$71.40
		5 pickups/wk	\$89.25
		6 pickups/wk	\$107.10

IV. OLD SACRAMENTO SERVICE COURTS

The property adjacent to each service court will be billed for solid waste service utilizing the following criteria:

Parcel size	25%
Square footage of building	50%
Front footage of building	25%

FOR CITY COUNCIL USE ONLY

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RESOLUTION NO.: _____

DATE ADOPTED: _____

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<u>Description</u>	<u>Rate Code</u>	<u>Amount of Service</u>	<u>FY06 Rate</u>
OLD SACRAMENTO SERVICE COURTS (cont'd)			
Com 6 yd compact unit		1 pickup	\$545.19
		2 pickups	\$746.34
		3 pickups	\$947.49
		4 pickups	\$1,251.30
		5 pickups	\$1,348.41
		6 pickups	\$1,649.43
		Special call/ daily	\$101.00
		Special call/ Sunday	\$149.96
	Commercial 8 yd bin loose		1 pickup/wk
		2 pickups/wk	\$369.92
		3 pickups/wk	\$554.87
		4 pickups/wk	\$739.82
		5 pickups/wk	\$924.77
		6 pickups/wk	\$1,109.74
Commercial 8 yd bin compacted		1 pickup/wk	\$287.67
		2 pickups/wk	\$575.35
		3 pickups/wk	\$863.02
		4 pickups/wk	\$1,150.69
		5 pickups/wk	\$1,438.36
		6 pickups/wk	\$1,726.04

V. SPECIAL GARBAGE COLLECTION SERVICES

Bins/daily		1 cubic yard	\$42.89
		2 cubic yards	\$56.02
		3 cubic yards	\$68.96
		4 cubic yards	\$81.91
		5 cubic yards	\$94.86
		6 cubic yards	\$107.80
Bins/Sunday		1 cubic yard	\$77.20
		2 cubic yards	\$100.85
		3 cubic yards	\$124.13
		4 cubic yards	\$147.44
		5 cubic yards	\$170.74
		6 cubic yards	\$194.04

FOR CITY COUNCIL USE ONLY

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RESOLUTION NO.: _____

DATE ADOPTED: _____

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<u>Description</u>	<u>Rate Code</u>	<u>Amount of Service</u>	<u>FY06 Rate</u>
SPECIAL GARBAGE COLLECTION SERVICES (cont'd)			
Roll-off containers/weekly (inert materials)		10 cubic yard	\$185.00
		20 cubic yards	\$206.81
		25 cubic yards	\$240.29
		30 cubic yards	\$273.77
		35 cubic yards	\$306.27
		40 cubic yards	\$339.76
Roll-off containers/Sunday		10 cubic yard	\$211.24
		20 cubic yards	\$310.22
		25 cubic yards	\$360.44
		30 cubic yards	\$410.66
		35 cubic yards	\$459.40
		40 cubic yards	\$509.63
Deliver bin and pickup		1 cubic yard	\$85.77
		2 cubic yards	\$112.05
		3 cubic yards	\$137.92
		4 cubic yards	\$163.82
Compactors/daily		3 cubic yards	\$87.75
		4 cubic yards	\$116.70
		5 cubic yards	\$145.88
		6 cubic yards	\$175.05
Compactors/Sunday		3 cubic yards	\$131.62
		4 cubic yards	\$175.05
		5 cubic yards	\$218.81
		6 cubic yards	\$262.58
Compacted Roll-off container/daily		10 cubic yard	\$254.57
		20 cubic yards	\$400.81
		25 cubic yards	\$474.47
		30 cubic yards	\$547.05
		35 cubic yards	\$620.72
		40 cubic yards	\$693.29

FOR CITY COUNCIL USE ONLY

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RESOLUTION NO.: _____

DATE ADOPTED: _____

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<u>Description</u>	<u>Rate Code</u>	<u>Amount of Service</u>	<u>FY06 Rate</u>
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SPECIAL GARBAGE COLLECTION SERVICES (cont'd)

Compacted Roll-off container/Sunday		10 cubic yard	\$381.85
		20 cubic yards	\$601.22
		25 cubic yards	\$711.71
		30 cubic yards	\$820.58
		35 cubic yards	\$931.07
		40 cubic yards	\$1,039.94

Special cleanups/per hour (per worker) \$45.00
 (Time required to remove, load in truck, and haul rubbish or waste matter, plus travel time.
 Two person and one hour minimum.)

Out of City limits charge for commercial bins/roll-offs services \$50.00

Special waste hauling

10 cubic yards			\$361.81
20 cubic yards			\$531.34
25 cubic yards			\$617.36
30 cubic yards			\$703.38
35 cubic yards			\$786.87
40 cubic yards			\$872.91

FOR CITY COUNCIL USE ONLY

RESOLUTION NO.: _____

DATE ADOPTED: _____

RESOLUTION NO.

ADOPTED BY THE SACRAMENTO CITY COUNCIL

ON DATE OF _____

**RESOLUTION ADOPTING THE
INTERNAL AUDIT WORKPLAN
FOR FY2005/06**

WHEREAS, the Mayor and City Council have approved the function of Internal Audit Manager for the City of Sacramento; and

WHEREAS, the on May 31, 2005 the Internal Auditor presented the Preliminary FY2005/06 Internal Audit Workplan to the Mayor and City Council for comment and direction; and

WHEREAS, the Internal Auditor has prepared a Final Annual Internal Audit Workplan, Exhibit 1.

NOW THEREFORE BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF SACRAMENTO THAT:

The Internal Audit Workplan for FY2005/06 is hereby approved.

MAYOR

ATTEST:

CITY CLERK

Exhibits

Exhibit 1 FY2005/06 Internal Audit Workplan

FOR CITY COUNCIL USE ONLY

RESOLUTION NO.: _____

DATE ADOPTED: _____

EXHIBIT 1

Internal Audit Workplan for Fiscal Year 2005/2006

Areas of Review	SCOPE
Bidding Process Examination of the General Services, Transportation, and Utilities Departments.	<p>Examine the City's bidding process for letting contracts for the General Services, Transportation, and Utilities Departments.</p> <p>Review the City's change-order procedures. Compare total cost of change-orders as a percentage of the total contract costs. Benchmark results with other municipalities. In order to maximize audit resources, portions of the fieldwork maybe contacted.</p>
Revenue Division, General Control Review of Cash Collection and Handling.	<p>This review will perform a detailed examination of the collection, handling, recording, and depositing of daily receipts, within the Revenue Division.</p> <p>This audit will be the first step in an examination of cash accounts, starting with the centralized collection point of the Revenue Division.</p> <p>I anticipated that this audit will lead to future audits of cash that occur outside of the Revenue Division, several possible examples may include the Golf, the Crocker Art Museum, the Zoo, and other cash handling operations.</p>
The Mayor and City Council Discretionary Accounts Annual Report for Fiscal Year 2004/2005.	The examination will perform the annual review of the recordkeeping and review the nature of discretionary spending for the Mayor and City Council during fiscal year 2004/2005.
Employee Benefits Audit	This audit will review the City's collection and payments of employee benefits, such as health insurance, dental insurance, and the Sacramento City Employee's Retirement System. Including an examination for duplicate payments and adequate oversight and internal control.
Continuing Professional Education	Obtain continuing professional education as required by Government Auditing Standards.
Special Projects	Perform special projects assigned by the City Manager and the City Council.
Internal Audit Annual Report	Provide an annual report detailing work completed, projects-in-process, and accomplishments.
Fiscal Year 2005/2006 Annual Internal Audit Workplan	Gather ideas and information for the following year's Annual Internal Audit Workplan.

FOR CITY COUNCIL USE ONLY

46

RESOLUTION NO.: _____

DATE ADOPTED: _____

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RESOLUTION NO. 2005-722

Adopted by the Sacramento City Council

October 11, 2005

APPROVING CORRECTION TO RESOLUTION NUMBER 2005-488 ADOPTING FINDINGS AND AMENDING THE CITY OF SACRAMENTO FEE AND CHARGE REPORT TO ESTABLISH WATER AND SEWER SERVICE FEES

BACKGROUND

- A. On June 21, 2005 the Mayor and City Council adopted Resolution number 2005-488 adopting findings and amending the City of Sacramento fee and charge report to establish water and sewer service fees. A full list of water related fees and charges (Resolution 2005-488; Exhibit 1) was mistakenly omitted from the final resolution. To ensure proper documentation of City approved fees and charges staff recommends amending the resolution to include a full list of water related fees and charges. All other items in the previously approved resolution remain unchanged.

BASED ON THE FACTS SET FORTH IN THE BACKGROUND, THE CITY COUNCIL RESOLVES AS FOLLOWS:

Section 1. Amend Resolution 2005-488 to include a full list of Water Service Fees and Charges (Exhibit A).

Table of Contents:

Exhibit A: Water Service Fees and Charges – 8 Pages

Adopted by the City of Sacramento City Council on October 11, 2005 by the following vote:

Ayes: Councilmembers Cohn, Fong, Hammond, McCarty, Pannell, Sheedy, Tretheway, Waters and Mayor Fargo.

Noes: None

Abstain: None

Absent: None

Heather Fargo

Mayor Heather Fargo

Attest:

Shirley Concolino

Shirley Concolino, City Clerk

EXHIBIT A

The Fee and Charge Report of the City of Sacramento is proposed to be amended to include the following water service connection, development fees and charges effective on July 1, 2005, and July 1, 2006, respectively

	<u>Rate Code</u>	<u>FY06 Rate</u>	<u>FY07 Rate</u>
I WATER USE RATES, MONTHLY DOMESTIC			
Single-family residence:	100		
1-3 rooms		15 45	16 84
4-5 rooms		20 11	21 92
6-9 rooms		21 87	23 83
10-15 rooms		25 27	27 54
Over 15, each additional room		1 77	1 93
Multiple-family residences (for each family dwelling unit in a multiple family residence)	101		
1-3 rooms		11 85	12 92
4-5 rooms		15 17	16 54
6-7 rooms		18 51	20 18
8-9 rooms		21 87	23 83
10-15 rooms		25 27	27 54
Over 15, each additional room		1 77	1 93
Lot Irrigation, per Water Service Tap	102	30 78	33 55
II WATER USE RATES, MONTHLY COMMERCIAL			
Bakery, first 1,000 sq ft of gross floor area or fraction thereof	130	42 92	46 78
Each additional 1,000 sq ft or fraction thereof		28 54	31 11
Barber Shop or Beauty Parlor, first 1,000 sq ft of gross floor area or fraction thereof	131	21 46	23 39
Each additional 1,000 sq ft or fraction thereof		13 84	15 09
Bowling Alley, first 1,000 sq ft of gross floor area or fraction thereof	131	21 46	23 39
Each additional 1,000 sq ft or fraction thereof		13 84	15 09
Cemetery, for the irrigation season, first 1,000 sq ft or fraction thereof	132	39 39	42 94
Each additional 1,000 sq ft or fraction thereof		3 14	3 42
Dining Facilities (including restaurant, cafeteria, cafe, bar)			
first 1,000 sq ft of gross floor area or fraction thereof	133	42 77	46 62
Each additional 1,000 sq ft or fraction thereof		28 19	30 73

	<u>Rate Code</u>	<u>Approved FY06 Rate</u>	<u>Approved FY07 Rate</u>
Drug Store. first 1,000 sq ft of gross floor area or fraction thereof	134	19 77	21 55
Each additional 1,000 sq ft or fraction thereof		8 81	9 60
Fire Hydrant Service Charge	135	8 31	9 06
Wharf Hydrant	136	20 55	22 40
Standard Hydrant			
Furniture Store. first 1,000 sq ft of gross floor area or fraction thereof	137	19 77	21 55
Each additional 1,000 sq ft or fraction thereof		2 17	2 37
Garage. first 1,000 sq ft of gross floor area or fraction thereof	137	19 77	21 55
Each additional 1,000 sq ft or fraction thereof		2 17	2 37
 II WATER USE RATES. MONTHLY COMMERCIAL (cont'd)			
Halls (including lodge and auditorium). first 1,000 sq ft of gross floor area or fraction thereof	134	19 77	21 55
Each additional 1,000 sq ft or fraction thereof		8 81	9 60
Hotel. Rest or Convalescent Homes. first 10 sleeping rooms or fraction thereof	138	39 39	42 94
Over 10 sleeping rooms. each additional sleeping room		3 14	3 42
Laundry. first 1,000 sq ft of gross floor area or fraction thereof	139	85 48	93 17
Each additional 1,000 sq ft or fraction thereof		54 36	59 25
Market, first 1,000 sq ft of gross floor area or fraction thereof	131	21 46	23 39
Each additional 1,000 sq ft or fraction thereof		13 84	15 09
Mortuary. first 1,000 sq ft of gross floor area or fraction thereof	134	19 77	21 55
Each additional 1,000 sq ft or fraction thereof		8 81	9 60
Motel. first 10 sleeping rooms or fraction thereof	138	39 39	42 94
Each additional sleeping room over 10		3 14	3 42
Office Building. first 1,000 sq ft of gross floor area or fraction thereof	140	19 77	21 55
Each additional 1,000 sq ft or fraction thereof		6 70	7 30
Park (not municipal), for irrigation season. first 1,000 sq ft or fraction thereof	132	39 39	42 94
Each additional 1,000 sq ft or fraction thereof		3 14	3 42

	<u>Rate Code</u>	<u>Approved FY06 Rate</u>	<u>Approved FY07 Rate</u>
Religious Worship, including the building used exclusively for religious worship and any other building used for religious activities. first 1,000 sq ft of gross floor area or fraction thereof Each additional 1,000 sq ft or fraction thereof	141	19 77 3 64	21 55 3 97
School, first 100 pupils or fraction thereof Each additional 100 pupils or fraction thereof	142	37 99 29 60	41 41 32 26
Service Station (no wash racks) and Used Car Lots: tap size to City main:			
3/4"	143	21 46	23 39
1"	144	28 19	30 73
1 1/2"	145	46 06	50 21
2"	146	78 75	85 84
Store, first 1,000 sq ft of gross floor area or fraction thereof Each additional 1,000 sq ft or fraction thereof	134	19 77 8 81	21 55 9 60
Theater, first 1,000 sq ft of gross floor area or fraction thereof Each additional 1,000 sq ft or fraction thereof	131	21 55 13 84	23 49 15 09
Warehouse, first 1,000 sq ft of gross floor area or fraction thereof Each additional 1,000 sq ft or fraction thereof	137	19 77 2 17	21 55 2 37
Minimum Rate: In no case shall a commercial flat-rate be less than:		19 77	21 55

III SPECIAL WATER USE RATES. MONTHLY

Air Conditioning System:

Monthly demand charge (system without water conservation devices) per ton of capacity for each month of the air conditioning season of 5 months	193	13 13	14 31
For systems on flat-rate service the following charge will apply for each month during the air conditioning season, per ton of system capacity			
With Water Conservation Device	161	3 02	3 29
Without Water Conservation Device	162	46 13	50 28

	<u>Rate Code</u>	<u>Approved FY06 Rate</u>	<u>Approved FY07 Rate</u>
Evaporative coolers (commercial establishments) - for units on flat rate service the following charges will apply for each month during the air conditioning season. per 1,000 cubic feet per minute unit capacity			
With Water Conservation Device	163	1 74	1 90
Without Water Conservation Device	164	4 73	5 16
Refrigeration Systems:			
For systems on flat-rate service, the following charges will apply for each month during the year, per compressor horsepower			
With Water Conservation Device	165	3 20	3 49
Without Water Conservation Device	166	30 17	32 89
Dining Facility, (including restaurant, cafeteria, cafe, kitchen, bar) each 1,000 sq ft of gross floor area or fraction thereof	169	23 15	25 23
Gymnasium, each shower head	178	10 45	11 39
Hydraulically-operated elevator			
With Water Conservation Device	179	16 51	18 00
Without Water Conservation Device	180	91 82	100 08
Irrigation: Supplemental (Commercial)	170		
0 - 10,000 sq ft (net irrigable area)		0 00	0 00
over 10,000 sq ft (net irrigable area), each additional 1,000 sq ft		3 14	3 42
Irrigation: Supplemental (Domestic)	170		
0 - 13,000 sq ft (gross lot area)		0 00	0 00
over 13,000 sq ft (gross lot area), each additional 1,000 sq ft		3 14	3 42
Private Fire Protection			
Tap size to City main:			
0 - 2"	171	13 13	14 31
3"	172	19 77	21 55
4"	173	26 25	28 61
6"	174	39 39	42 94
8"	175	52 53	57 26
10"	176	65 65	71 56
12"	177	78 75	85 84

III SPECIAL WATER USE RATES, MONTHLY (Cont)

Swimming Pool, non-residential (where pool is not principal function of said establishment)			
Under 300 cu ft fill & draw, per 100 cu ft	168	0 00	0 00
Over 300 cu ft fill & draw, per 100 cu ft		4 04	4 40
Under 300 cu ft per 100 cu ft, filtered	167	0 00	0 00
Over 300 cu ft per 100 cu ft, filtered		0 77	0 84

		<u>Rate Code</u>	<u>Approved FY06 Rate</u>	<u>Approved FY07 Rate</u>
IV MONTHLY METERED WATER USE. PER 100 CUBIC FEET				
A	For irrigation of landscaping on parks and medians which are owned and operated by the City of Sacramento and are open to the general public, provided that a turf audit is submitted to the Department of Utilities once every three (3) years, or at such time sooner as may be required by any individual user's case by the Department of Utilities:			
	Per 100 cubic feet:		0 0968	0 1055
B	For Irrigation of landscaping at the Governor's Mansion State Historic Park and Sutter's Fort State Historic Park, provided that a turf audit is submitted to the Department of Utilities once every three (3) years, or at such time sooner as may be required by any individual user's case by the Department of Utilities:			
	Per 100 cubic feet:		0 3764	0 4103
C	For emergency water supply at the California State Fair and Exposition:			
	Monthly service charge:	159	109 00	118 81
	Per 100 cubic feet:		0 6453	0 7034
D	For all other metered water services:			
	Per 100 cubic feet:		0 6453	0 7034
E	For water supply to operate SMUD cogeneration facilities:			
	Per 100 cubic feet:	198	0 4082	0 4449
	For metered service, monthly basic service charges, regardless of water usage, as follows:			
	<u>Metered Size</u>			
	5/8" x 3/4"	150	6 54	7 13
	3/4"	151	6 54	7 13
	1"	152	6 54	7 13
	1½"	153	8 72	9 50
	2"	154	10 90	11 88
	3"	155	16 35	17 82
	4"	156	21 80	23 76
	6"	157	43 60	47 52
	8"	158	70 85	77 23
	10"	159	109 00	118 81
	12"	160	163 50	178 22

V INSTALLATION CHARGES - WATER TAP

<u>Nom. Dia</u>	<u>Streets/Aileys</u>	<u>Easements</u>
1"	2.230	965
1½"	2.325	1.060
2"	2.445	1.180
3"	n/a	n/a
4"	4.305	2.145
6"	4.440	2.275
8"	4.725	2.560
10"	5.225	3.060
12"	5.600	3.440
12" (tie-in)	6.390	4.110

INSTALLATION CHARGES - METERS

<u>Size</u>	<u>Charge for Meter Only</u>	<u>Charge for Meter and installation by City</u>
1"	n/a	385 (without yoke, box or fittings)
1"	n/a	435
1½"	n/a	595
2"	n/a	660
3"	1.330	1.610
4"	2.025	2.310
6"	2.875	3.380
8"	3.835	4.340
10"	3.100	3.605
12"	3.515	4.020

	<u>Rate</u>
VI WATER SERVICE FEE	
Restoration of service following discontinuance	100 00
Vacancy credit service fee	50 00
VII WATER MAIN CONSTRUCTION CHARGE	Full Cost Recovery
VIII REPLACEMENT OF LOST OR DAMAGED WATER LOCK BOX	
Water lock box removed	65 00
Water lock box removed and chain cut or lock missing	85 00
Water lock box, chain, and lock missing	160 00
	<u>Rate</u>
IX FIRE HYDRANT USE FEE	
A Limited Periodic Use - Service Charge	
1 - 10 days	30 00
11 - 30 days	80 00
31 - 60 days	155 00
B Water Truck Use - Annual Fee	
Truck Capacity -	
1,000 gallons or less	150 00
2,000 gallons	305 00
3,000 gallons or more	465 00
C Installation	
Standard Complete	6,135 00
Relocation	Full Cost Recovery
D Damage to fire hydrant:	Full Cost Recovery
E Backflow Prevention Assemblies	
Security Deposit	
2"	360 00
4"	3,600 00
Installation / Testing	
2"	135 00
4"	475 00
X WATER SUPPLY FOR FIRE PROTECTION	
Engineering Analysis	110 00
Field Test	475 00
XI WATER SERVICE ABANDONMENT	
1" - 3" Taps	825 00
4" - 12" Taps	1,530 00
XII TEMPORARY WATER SERVICE FEE (new residential construction)	
Per Lot	53 55

Approved
FY06 Rate

XIII WATER SYSTEM DEVELOPMENT FEE

Water Service or Meter Size. Inches:	
3/4"	1,281
1"	2,305
1-1/4"	3,398
1-1/2"	4,465
2"	9,241
3"	25,976
4"	57,624
6"	102,356
8"	127,213
10"	469,375

Appendix B7

Water Meter Program: Consultant Services Agreement with Black and Veatch



REPORT TO COUNCIL

City of Sacramento

6

915 I Street, Sacramento, CA 95814-2671
www.CityofSacramento.org

CONSENT
June 27, 2006

Honorable Mayor and
Members of the City Council

Subject: Water Meter Program: Consultant Services Agreement with Black and Veatch

Location/Council District: Citywide

Recommendation:

Adopt a resolution authorizing the City Manager to enter into a consultant services agreement with Black and Veatch for program management assistance with implementation of the water meter program for an amount not to exceed \$148,000.

Contact: Dave Brent, Engineering Manager, (916) 808-1420; Syed Rizvi, Field Services Manager, 808-6217

Presenters: Not Applicable

Department: Department of Utilities

Division: Engineering Services

Organization No: 3332

Summary:

A.B. 2572, signed into law by Governor Schwarzenegger on September 29, 2004, mandates that the City install water meters on all service connections by January 1, 2025. This twenty year effort is anticipated to cost upwards of \$350 million and includes the installation of over 100,000 meters throughout Sacramento. Staff is requesting the City Council approve the attached resolution authorizing the City Manager to execute a consultant services agreement with Black and Veatch for an amount not to exceed \$148,000. Black and Veatch will assist in program management and the development of long-term program procedures, protocols and documentation.

Committee/Commission Action: None.

Background Information:

A.B. 2572 was signed into law by Governor Schwarzenegger on September 29, 2004. The bill mandates that the City of Sacramento install meters on all service connections by January 1, 2025. A.B. 2572 superseded the long-standing residential water meter prohibition in the City Charter.

The Department of Utilities (DOU) has gone before City Council and the Law and Legislative Committee regarding the Water Meter Program as follows:

- November 4, 2004, presented an informational workshop on water meters to the City Council.
- March 1, 2005, requested that the Law and Ledge Committee revise the 2004-2005 State and Federal Legislative Platforms to include water meter funding.
- March 22, 2005, requested guidance from the City Council on the meter implementation options.
- May 24, 2005, the City Council adopted Resolution No. 2005-347 approving the DOU water meter implementation plan criteria, the placement of water meters in the sidewalk, and the institution of a voluntary metered rate program.
- November 1, 2005, the City Council adopted Ordinance No. 2005-090 and 2005-091 approving an ordinance amending City Code provisions relating to water meters to enable implementation of A.B. 2572.

The water meter program will be implemented over a twenty-year period and will involve many aspects during the transition from a flat rate to a metered rate for water services. Over 100,000 meters will be installed over this period and beginning in 2010, all residential properties with meters for more than one year must be billed on a metered rate. From that point forward, residents will transition over to a metered rate one year after the installation of a meter. This large effort will cost an estimated \$350 million dollars.

The Department of Utilities is preparing for this program with a comprehensive plan that will address meter retrofits, pipeline replacements, water conservation, public outreach and rate modeling. While much of this work is being done in-house with existing resources, professional services are necessary to assist staff with the program management of this large scale effort and the development of the policies, protocols and documentation that will be essential in the orderly transition to a metered system.

Requests for proposals were sent out to 15 consulting firms and individuals. The RFP was also posted on the City's website. Two firms responded with proposals, Black and Veatch and Psomas. A panel of city staff screened the proposals and selected Black and Veatch based on their understanding of the program and the experience of the project team.

Financial Considerations:

The estimated cost of the consultant agreement with Black and Veatch is \$148,000 and will be funded in the Engineering Services Division operating budget (PN: 3332, Fund 413), which has sufficient funding to award this consultant agreement.

Environmental Considerations:

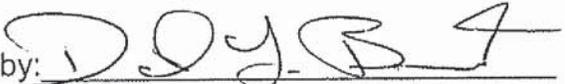
The Environmental Services Manager has determined that the actions of approval of a consultant services agreement for program management and the development of long-term program procedures, protocols and documentation is exempt from the California Environmental Quality Act (CEQA) under sections 15306 and 15308 of the CEQA Guidelines. Exemption 15306 consists of basic data collection and resource evaluation activities that do not result in a serious or major disturbance to an environmental resource. Exemption 15308 consists of actions taken by regulatory agencies for protection of the environment where the regulatory process involves procedures for protection of the environment. Construction activities and relaxation of standards allowing environmental degradation are not included these exemptions. Any projects resulting from the monitoring program would require further environmental review under CEQA.

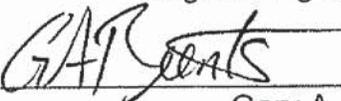
Policy Considerations:

A.B. 2572 mandates that water meters be installed on all properties before January 1, 2025 and customers begin being billed on a metered rate on January 1, 2010 or at the end of one calendar year after meter installation.

Emerging Small Business Development (ESBD):

Black & Veatch is not a City-certified Small Business Enterprise.

Respectfully Submitted by: 
David L. Brent
Engineering Manager

Approved by: 
Gary A. Reents
Director of Utilities

Recommendation Approved:


den Ray Kerridge
City Manager

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4 RESOLUTION

RESOLUTION NO.

Adopted by the Sacramento City Council

RESOLUTION AUTHORIZING THE CITY MANAGER TO EXECUTE A CONSULTANT SERVICES AGREEMENT WITH BLACK AND VEATCH FOR PROGRAM MANAGEMENT ASSISTANCE WITH IMPLEMENTATION OF THE WATER METER PROGRAM FOR AN AMOUNT NOT TO EXCEED \$148,000

BACKGROUND

- A. Assembly Bill 2572 requires that the City install water meters on all service connections by January 1, 2025.
- B. The City is developing a comprehensive water meter program that will address water meter retrofits, pipeline replacements, water conservation, public outreach and rate modeling.
- C. The proposed Consultant Services Agreement with Black and Veatch will assist in the water meter program management and the development of long-term program procedures, protocols and documentation.

BASED ON THE FACTS SET FORTH IN THE BACKGROUND, THE CITY COUNCIL RESOLVES AS FOLLOWS:

Section 1. The City Manager is authorized to sign and execute a Consultant Services Agreement with Black and Veatch for Program Management Assistance with the Implementation of the Water Meter program for an amount not to exceed \$148,000.

RESOLUTION NO. 2006-460

Adopted by the Sacramento City Council

June 27, 2006

AUTHORIZING THE CITY MANAGER TO EXECUTE A CONSULTANT SERVICES AGREEMENT WITH BLACK AND VEATCH FOR PROGRAM MANAGEMENT ASSISTANCE WITH IMPLEMENTATION OF THE WATER METER PROGRAM FOR AN AMOUNT NOT TO EXCEED \$148,000

BACKGROUND

- A. Assembly Bill 2572 requires that the City install water meters on all service connections by January 1, 2025
- B. The City is developing a comprehensive water meter program that will address water meter retrofits, pipeline replacements, water conservation, public outreach and rate modeling.
- C. The proposed Consultant Services Agreement with Black and Veatch will assist in the water meter program management and the development of long-term program procedures, protocols and documentation.

BASED ON THE FACTS SET FORTH IN THE BACKGROUND, THE CITY COUNCIL RESOLVES AS FOLLOWS:

Section 1. The City Manager is authorized to sign and execute a Consultant Services Agreement with Black and Veatch for Program Management Assistance with the Implementation of the Water Meter program for an amount not to exceed \$148,000.

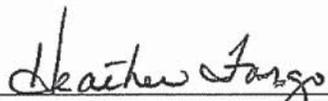
Adopted by the City of Sacramento City Council on June 27, 2006 by the following vote:

Ayes: Councilmembers Cohn, Hammond, McCarty, Pannell, Sheedy, Waters, and Mayor Fargo.

Noes: None

Abstain: None.

Absent: Fong, Tretheway



Mayor, Heather Fargo

Attest:



Shirley Concolino, City Clerk

Appendix C

20 Year Implementation Plan

**WATER METER IMPLEMENTATION PROGRAM
SUMMARY TABLE**

Updated: November 4, 2004

TOTAL PROJECT COSTS

Council District	No of Services	Length of Pipe	Total Est. Cost
1	8,124	46,583	\$ 16,380,329
2	12,420	14,733	\$ 16,892,009
3	14,244	140,983	\$ 43,611,689
4	14,655	270,177	\$ 62,019,007
5	14,237	112,852	\$ 34,455,877
6	14,196	126,516	\$ 38,101,798
7	14,511	44,150	\$ 23,843,880
8	11,291	182,943	\$ 41,770,265
County	131	-	\$ 72,050
Apartments/Condos	1,560	-	\$ 18,018,000
SUBTOTAL	105,369	938,937	\$ 295,164,903
Plastic Services	6,797	-	\$ 3,398,500
TOTAL	105,369	938,937	\$ 298,563,403

METER AND PIPELINE COST BREAKDOWN

Council District	MS	M	PR Meters	PR & Services Only	Total
1	\$ -	\$ 8,329,200	\$ 1,419,600	\$ 6,631,529	\$ 16,380,329
2	\$ 581,400	\$ 12,997,200	\$ 744,000	\$ 3,150,809	\$ 16,892,009
3	\$ -	\$ 8,766,000	\$ 8,326,800	\$ 26,518,889	\$ 43,611,689
4	\$ 136,200	\$ 5,263,200	\$ 12,050,400	\$ 44,705,407	\$ 62,019,007
5	\$ 94,050	\$ 12,626,450	\$ 4,324,800	\$ 17,504,627	\$ 34,455,877
6	\$ 155,100	\$ 10,816,800	\$ 5,880,000	\$ 21,404,998	\$ 38,101,798
7	\$ -	\$ 15,976,800	\$ 1,436,400	\$ 6,430,680	\$ 23,843,880
8	\$ -	\$ 6,613,200	\$ 6,936,000	\$ 28,221,065	\$ 41,770,265
County	\$ -	\$ 72,050	\$ -	\$ -	\$ 72,050
Apartments/Condos	\$ -	\$ -	\$ -	\$ -	\$ 18,018,000
Plastic Services	\$ -	\$ -	\$ -	\$ -	\$ 3,398,500
TOTAL	\$ 966,750	\$ 81,460,900	\$ 41,118,000	\$ 154,568,003	\$ 298,563,403

MS : Existing meter setters - cost to install only the meter

M: Existing front yard service - cost to install box and meter

PR Meters: cost to install box and meter as part of pipeline replacement project

PR & Services Only: cost to install new main in street and new service to front of house (DOESN'T INCLUDE BOX OR METER)

5 - YEAR COST ESTIMATES

Est. FY of Work	No of Services	Length of Pipe	Total Est. Cost
2005-2009	25,041	207,973	61,618,943
20010-2014	19,566	325,972	75,238,819
20015-2019	28,796	226,395	73,740,012
20020-2024	30,406	178,597	66,549,129

COST ASSUMPTIONS

Meter Installation (MS project): Existing meter setters, cost to install meter only

\$500 per meter + 10% project delivery

Meter Retro-fit (M project): Existing front yard service - cost to install box and meter

\$1,000 per service + 20% (contingency + project delivery)

Pipe Replacement (PR project): Relocate ROW mains in street - cost for pipe, service, meter box and meter

\$60/lf of pipe to be replaced + \$2,000/service (including meter) + 30% (valves, FH's, tie-ins, aband.) + 20% (contingency, project delivery)

Apartments/Air Space Condos: Cost to supply and install two meters on 8-inch double check valves

\$10,500/complex + 10% (contingency, project delivery)

Plastic Services: Additional cost to replace plastic water service with copper from the corp stop to the curb stop

Additional \$500 per service

**METER IMPLEMENTATION PROGRAM
COST BREAKDOWN BY YEAR**

ID#	No of Services	Length of Pipe	Total Est. Cost	Est. FY of Work
1-M-7	90	0	\$ 108,000	2005
2-MS-1	969	0	\$ 581,400	2005
3-M-4	1,884	0	\$ 2,260,800	2005
4-MS-0	227	0	\$ 136,200	2005
4-M-3	1,818	0	\$ 2,181,600	2005
5-MS-0	171	0	\$ 94,050	2005
6-MS-0	282	0	\$ 155,100	2005
7-M-1	1,355	0	\$ 1,626,000	2005
8-M-6	1,644	0	\$ 1,972,800	2005
Subtotal	8,440	0	\$ 9,115,950	
2-M-1	1,438	0	\$ 1,725,600	2006
3-PR-2	318	10,541	\$ 1,978,798	2006
4-PR-2	316	8,971	\$ 1,825,606	2006
5-M-1	879	0	\$ 1,054,800	2006
6-M-1	946	0	\$ 1,135,200	2006
7-M-2	1,224	0	\$ 1,468,800	2006
8-PR-1	308	12,520	\$ 2,132,832	2006
Subtotal	5,429	32,032	\$ 11,321,635	
2-PR-1	199	998	\$ 714,293	2007
3-PR-3	441	14,230	\$ 2,707,848	2007
4-PR-3	480	14,655	\$ 2,869,308	2007
5-M-2	855	0	\$ 1,026,000	2007
6-M-2	1,100	0	\$ 1,320,000	2007
7-PR-1	317	12,020	\$ 2,114,112	2007
8-PR-2	348	6,105	\$ 1,657,188	2007
Subtotal	3,740	48,008	\$ 12,408,749	
2-PR-3	288	10,927	\$ 1,921,327	2008
3-PR-4	408	13,855	\$ 2,569,788	2008
4-PR-4	460	12,676	\$ 2,621,674	2008
5-M-3	1,059	0	\$ 1,270,800	2008
6-PR-12	493	10,235	\$ 2,496,156	2008
7-PR-4	222	7,053	\$ 1,352,801	2008
8-PR-3	442	10,767	\$ 2,386,831	2008
Subtotal	3,372	65,513	\$ 14,619,377	
2-M-2	1,121	0	\$ 1,345,200	2009
3-PR-5	287	8,114	\$ 1,654,910	2009
4-PR-10	388	12,520	\$ 2,382,432	2009
5-PR-1	490	16,655	\$ 3,087,708	2009
6-M-3	1,148	0	\$ 1,377,600	2009
7-PR-3	337	12,409	\$ 2,212,922	2009
8-PR-4	289	12,722	\$ 2,092,459	2009
Subtotal	4,060	62,420	\$ 14,153,232	
5-YR TOTAL (2005-2009)	25,041	207,973	\$ 61,618,943	2005-2009

ID#	No of Services	Length of Pipe	Total Est. Cost	Est. FY of Work
2-M-3	770	0	\$ 924,000	2010
3-PR-6	416	11,988	\$ 2,419,997	2010
4-PR-6	725	19,636	\$ 4,099,930	2010
5-M-4	799	0	\$ 958,800	2010
6-PR-4	482	7,618	\$ 2,216,885	2010
7-PR-2	321	12,668	\$ 2,187,245	2010
8-M-1	326	0	\$ 391,200	2010
8-PR-5	321	10,364	\$ 1,971,590	2010
Subtotal	4,160	62,274	\$ 15,169,646	
2-PR-2	133	2,808	\$ 677,789	2011
3-PR-7	446	10,554	\$ 2,379,374	2011
4-PR-7	697	18,694	\$ 3,924,398	2011
5-PR-3	395	15,621	\$ 2,694,526	2011
6-PR-1	262	10,102	\$ 1,762,987	2011
7-M-3	1,772	0	\$ 2,126,400	2011
8-M-4	662	0	\$ 794,400	2011
8-PR-6	345	12,214	\$ 2,219,630	2011
Subtotal	4,712	69,993	\$ 16,579,505	
2-M-4	802	0	\$ 962,400	2012
3-PR-8	406	10,554	\$ 2,254,574	2012
4-PR-8	536	15,407	\$ 3,114,415	2012
5-PR-2	344	9,593	\$ 1,971,185	2012
6-PR-2	280	9,681	\$ 1,779,742	2012
8-PR-7	356	11,473	\$ 2,184,593	2012
Subtotal	2,724	56,708	\$ 12,266,909	
2-M-5	1,563	0	\$ 1,875,600	2013
3-PR-9	478	12,803	\$ 2,689,721	2013
4-PR-9	870	23,695	\$ 4,932,252	2013
5-PR-4	279	11,888	\$ 1,983,197	2013
6-PR-3	312	12,795	\$ 2,171,052	2013
8-PR-8	245	9,681	\$ 1,670,542	2013
Subtotal	3,747	70,862	\$ 15,322,363	
2-M-8	1,805	0	\$ 2,166,000	2014
3-PR-10	502	5,721	\$ 2,101,726	2014
4-PR-5	827	22,803	\$ 4,714,601	2014
5-PR-5	298	12,067	\$ 2,059,231	2014
6-PR-5	450	13,280	\$ 2,647,008	2014
8-PR-9	341	12,264	\$ 2,211,830	2014
Subtotal	4,223	66,135	\$ 15,900,396	
5-YR TOTAL (2010-2014)	19,566	325,972	\$ 75,238,819	20010-2014

ID#	No of Services	Length of Pipe	Total Est. Cost	Est. FY of Work
1-M-6	1,115	0	\$ 1,338,000	2015
2-M-6	1,635	0	\$ 1,962,000	2015
3-M-2	1,659	0	\$ 1,990,800	2015
4-PR-11	688	15,447	\$ 3,592,399	2015
5-PR-6	261	8,657	\$ 1,624,615	2015
6-PR-6	409	13,208	\$ 2,512,349	2015
8-PR-10	321	12,696	\$ 2,189,866	2015
Subtotal	6,088	50,008	\$ 15,210,029	
1-M-5	1,170	0	\$ 1,404,000	2016
2-M-7	908	0	\$ 1,089,600	2016
3-PR-11	765	6,587	\$ 3,003,343	2016
4-PR-12	599	10,893	\$ 2,888,465	2016
5-M-5	1,320	0	\$ 1,584,000	2016
6-PR-7	415	12,853	\$ 2,497,841	2016
8-PR-11	344	13,162	\$ 2,305,243	2016
Subtotal	5,521	43,495	\$ 14,772,492	
1-M-4	1,112	0	\$ 1,334,400	2017
2-M-9	789	0	\$ 946,800	2017
3-PR-12	308	8,518	\$ 1,758,245	2017
4-PR-13	480	12,966	\$ 2,711,218	2017
5-PR-7	526	12,442	\$ 2,805,691	2017
6-M-4	1,872	0	\$ 2,246,400	2017
7-M-4	1,239	0	\$ 1,486,800	2017
8-PR-12	370	14,678	\$ 2,528,261	2017
Subtotal	6,696	48,604	\$ 15,817,814	
1-M-3	1,172	0	\$ 1,406,400	2018
3-PR-13	765	10,339	\$ 3,354,530	2018
4-PR-14	408	11,718	\$ 2,369,765	2018
5-M-6	1,659	0	\$ 1,990,800	2018
6-PR-8	342	8,129	\$ 1,827,914	2018
7-M-5	773	0	\$ 927,600	2018
8-PR-13	194	7,155	\$ 1,274,988	2018
Subtotal	5,313	37,341	\$ 13,151,998	
1-PR-1	238	8,501	\$ 1,538,254	2019
3-PR-14	661	7,842	\$ 2,796,331	2019
4-M-1	1,381	0	\$ 1,657,200	2019
5-PR-8	395	8,677	\$ 2,044,567	2019
6-PR-9	449	11,070	\$ 2,437,032	2019
7-M-6	1,620	0	\$ 1,944,000	2019
8-PR-14	434	10,857	\$ 2,370,295	2019
Subtotal	5,178	46,947	\$ 14,787,679	
5-YR TOTAL (2015-2019)	28,796	226,395	\$ 73,740,012	20015-2019

ID#	No of Services	Length of Pipe	Total Est. Cost	Est. FY of Work
1-M-2	1,162	0	\$ 1,394,400	2020
3-PR-15	593	7,962	\$ 2,595,403	2020
4-PR-15	367	8,654	\$ 1,955,054	2020
4-PR-16	291	9,041	\$ 1,754,158	2020
5-M-7	1,369	0	\$ 1,642,800	2020
6-PR-10	448	8,931	\$ 2,233,702	2020
7-M-8	1,484	0	\$ 1,780,800	2020
8-M-2	1,836	0	\$ 2,203,200	2020
8-PR-15	201	5,934	\$ 1,182,542	2020
Subtotal	7,751	40,522	\$ 16,742,059	
1-PR-2	345	13,407	\$ 2,331,295	2021
3-M-3	1,784	0	\$ 2,140,800	2021
4-PR-17	299	8,848	\$ 1,761,053	2021
5-M-8	1,089	0	\$ 1,306,800	2021
6-PR-11	558	8,614	\$ 2,547,230	2021
7-M-7	781	0	\$ 937,200	2021
8-M-3	1,043	0	\$ 1,251,600	2021
8-PR-16	384	13,033	\$ 2,417,969	2021
Subtotal	6,283	43,902	\$ 14,693,947	
1-M-1	1,120	0	\$ 1,344,000	2022
4-PR-18	341	9,853	\$ 1,986,161	2022
5-M-9	1,433	0	\$ 1,719,600	2022
6-M-5	1,121	0	\$ 1,345,200	2022
7-M-10	1,039	0	\$ 1,246,800	2022
8-PR-17	537	7,318	\$ 2,360,405	2022
CO-M-1	131	0	\$ 72,050	2022
Subtotal	5,722	17,171	\$ 10,074,216	
1-PR-3	335	13,767	\$ 2,333,791	2023
3-PR-1	145	1,375	\$ 581,100	2023
4-M-2	1,187	0	\$ 1,424,400	2023
4-PR-19	652	15,750	\$ 3,508,440	2023
5-PR-9	444	12,405	\$ 2,546,388	2023
6-M-6	1,412	0	\$ 1,694,400	2023
7-M-9	1,182	0	\$ 1,418,400	2023
Subtotal	5,357	43,297	\$ 13,506,919	
1-PR-4	265	10,908	\$ 1,847,789	2024
3-M-1	1,978	0	\$ 2,373,600	2024
4-PR-20	618	17,950	\$ 3,608,280	2024
5-PR-10	172	4,847	\$ 990,319	2024
6-M-7	1,415	0	\$ 1,698,000	2024
7-M-11	845	0	\$ 1,014,000	2024
Subtotal	5,293	33,705	\$ 11,531,988	
5-YR TOTAL (2020-2024)	30,406	178,597	\$ 66,549,129	20020-2024
SUBTOTAL	103,809	938,937	\$ 277,146,903	
Plastics	6,797	0	\$ 3,398,500	
Apartments/Condos	1,560	0	\$ 18,018,000	
TOTAL NON-METERED SERVICES	105,369	938,937	\$ 298,563,403	
Existing Meters	11,247	0	\$ -	
Private Wells	132	0	\$ -	
TOTAL SERVICES	116,748	938,937	\$ 298,563,403	

COUNCIL DISTRICT 1

ID#	No of Services	Length of Pipe	Total Est. Cost	Est. FY of Work
1-M-1	1120	0 \$	1,344,000	2022
1-M-2	1162	0 \$	1,394,400	2020
1-M-3	1172	0 \$	1,406,400	2018
1-M-4	1112	0 \$	1,334,400	2017
1-M-5	1170	0 \$	1,404,000	2016
1-M-6	1115	0 \$	1,338,000	2015
1-M-7	90	0 \$	108,000	2005
Subtotal	6,941	0 \$	8,329,200	

PR Meter Only
\$285,600
\$414,000
\$402,000
\$318,000
\$1,419,600

1-PR-1	238	8501	\$ 1,538,254	2019
1-PR-2	345	13407	\$ 2,331,295	2021
1-PR-3	335	13767	\$ 2,333,791	2023
1-PR-4	265	10908	\$ 1,847,789	2024
Subtotal	1,183	46,583	\$ 8,051,129	

1-EM-0	11247	N/A	\$ -	Existing
Subtotal	11,247	-	\$ -	

1-PW-0	132	N/A	N/A	N/A
Subtotal	132	-	\$ -	

TOTAL	8,124	46,583	\$ 16,380,329	
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\$1,000 per service + 20%

COUNCIL DISTRICT 2

ID#	No of Services	Length of Pipe	Total Est. Cost	Est. FY of Work
2-MS-1	969	0	\$ 581,400	2005
Subtotal	969	0	\$ 581,400	

2-M-1	1438	0	\$ 1,725,600	2006
2-M-2	1121	0	\$ 1,345,200	2009
2-M-3	770	0	\$ 924,000	2010
2-M-4	802	0	\$ 962,400	2012
2-M-5	1563	0	\$ 1,875,600	2013
2-M-6	1635	0	\$ 1,962,000	2015
2-M-7	908	0	\$ 1,089,600	2016
2-M-8	1805	0	\$ 2,166,000	2014
2-M-9	789	0	\$ 946,800	2017
Subtotal	10,831	0	\$ 12,997,200	

2-PR-1	199	998	\$ 714,293	2007
2-PR-2	133	2808	\$ 677,789	2011
2-PR-3	288	10927	\$ 1,921,327	2008
Subtotal	620	14,733	\$ 3,313,409	

TOTAL	12,420	14,733	\$ 16,892,009	
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PR Meter Only
\$ 238,800.00
\$ 159,600.00
\$ 345,600.00
\$ 744,000.00

\$1,000 per service + 20%

COUNCIL DISTRICT 3

ID#	No of Services	Length of Pipe	Total Est. Cost	Est. FY of Work
3-M-1	1978	0	\$ 2,373,600	2024
3-M-2	1659	0	\$ 1,990,800	2015
3-M-3	1784	0	\$ 2,140,800	2021
3-M-4	1884	0	\$ 2,260,800	2005
Subtotal	7,305.00	-	\$ 8,766,000	

PR Meter Only
174,000
381,600
529,200
489,600
344,400
499,200
535,200
487,200
573,600
602,400
918,000
369,600
918,000
793,200
711,600
8,326,800

\$1,000 per service + 20%

3-PR-1	145	1375	\$ 581,100	2023
3-PR-2	318	10541	\$ 1,978,798	2006
3-PR-3	441	14230	\$ 2,707,848	2007
3-PR-4	408	13855	\$ 2,569,788	2008
3-PR-5	287	8114	\$ 1,654,910	2009
3-PR-6	416	11988	\$ 2,419,997	2010
3-PR-7	446	10554	\$ 2,379,374	2011
3-PR-8	406	10554	\$ 2,254,574	2012
3-PR-9	478	12803	\$ 2,689,721	2013
3-PR-10	502	5721	\$ 2,101,726	2014
3-PR-11	765	6587	\$ 3,003,343	2016
3-PR-12	308	8518	\$ 1,758,245	2017
3-PR-13	765	10339	\$ 3,354,530	2018
3-PR-14	661	7842	\$ 2,796,331	2019
3-PR-15	593	7962	\$ 2,595,403	2020
Subtotal	6,939	140,983	\$ 34,845,689	

TOTAL	14,244	140,983	\$ 43,611,689
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COUNCIL DISTRICT 4

ID#	No of Services	Length of Pipe	Total Est. Cost	Est. FY of Work
4-MS-0	227	0	\$136,200	2005
Subtotal	227	0	\$ 136,200	

4-M-1	1,381	0	1,657,200	2019
4-M-2	1,187	0	1,424,400	2023
4-M-3	1,818	0	2,181,600	2005
Subtotal	4,386	0	\$ 5,263,200	

4-PR-2	316	8,971	\$ 1,825,606	2006
4-PR-3	480	14,655	\$ 2,869,308	2007
4-PR-4	460	12,676	\$ 2,621,674	2008
4-PR-5	827	22,803	\$ 4,714,601	2014
4-PR-6	725	19,636	\$ 4,099,930	2010
4-PR-7	697	18,694	\$ 3,924,398	2011
4-PR-8	536	15,407	\$ 3,114,415	2012
4-PR-9	870	23,695	\$ 4,932,252	2013
4-PR-10	388	12,520	\$ 2,382,432	2009
4-PR-11	688	15,447	\$ 3,592,399	2015
4-PR-12	599	10,893	\$ 2,888,465	2016
4-PR-13	480	12,966	\$ 2,711,218	2017
4-PR-14	408	11,718	\$ 2,369,765	2018
4-PR-15	367	8,654	\$ 1,955,054	2020
4-PR-16	291	9,041	\$ 1,754,158	2020
4-PR-17	299	8,848	\$ 1,761,053	2021
4-PR-18	341	9,853	\$ 1,986,161	2022
4-PR-19	652	15,750	\$ 3,508,440	2023
4-PR-20	618	17,950	\$ 3,608,280	2024
Subtotal	10,042	270,177	\$ 56,619,607	

TOTAL	14,655	270,177	\$ 62,019,007	
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PR Meter Only	
\$	379,200
\$	576,000
\$	552,000
\$	992,400
\$	870,000
\$	836,400
\$	643,200
\$	1,044,000
\$	465,600
\$	825,600
\$	718,800
\$	576,000
\$	489,600
\$	440,400
\$	349,200
\$	358,800
\$	409,200
\$	782,400
\$	741,600
\$	12,050,400

\$1,000 per service + 20%

COUNCIL DISTRICT 5

ID#	No of Services	Length of Pipe	Total Est. Cost	Est. FY of Work
5-MS-0	171	0	\$ 94,050	2005
Subtotal	171	-	\$ 94,050	

CO-1	131	0	\$ 72,050	2022
Subtotal	131	-	\$ 72,050	

5-M-1	879	0	\$ 1,054,800	2006
5-M-2	855	0	\$ 1,026,000	2007
5-M-3	1059	0	\$ 1,270,800	2008
5-M-4	799	0	\$ 958,800	2010
5-M-5	1320	0	\$ 1,584,000	2016
5-M-6	1659	0	\$ 1,990,800	2018
5-M-7	1369	0	\$ 1,642,800	2020
5-M-8	1089	0	\$ 1,306,800	2021
5-M-9	1433	0	\$ 1,719,600	2022
Subtotal	10,462	-	\$ 12,554,400	

5-PR-1	490	16655	\$ 3,087,708	2009
5-PR-2	344	9593	\$ 1,971,185	2012
5-PR-3	395	15621	\$ 2,694,526	2011
5-PR-4	279	11888	\$ 1,983,197	2013
5-PR-5	298	12067	\$ 2,059,231	2014
5-PR-6	261	8657	\$ 1,624,615	2015
5-PR-7	526	12442	\$ 2,805,691	2017
5-PR-8	395	8677	\$ 2,044,567	2019
5-PR-9	444	12405	\$ 2,546,388	2023
5-PR-10	172	4847	\$ 990,319	2024
Subtotal	3,604	112,852	\$ 21,807,427	

TOTAL	14,237	112,852	\$ 34,455,877	
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PR Meter Only
588,000
412,800
474,000
334,800
357,600
313,200
631,200
474,000
532,800
206,400
4,324,800

\$1,000 per service + 20%

COUNCIL DISTRICT 6

ID#	No of Services	Length of Pipe	Total Est. Cost	Est. FY of Work
6-MS-0	282	0	\$ 155,100	2005
Subtotal	282	-	\$ 155,100	

6-M-1	946	0	\$ 1,135,200	2006
6-M-2	1100	0	\$ 1,320,000	2007
6-M-3	1148	0	\$ 1,377,600	2009
6-M-4	1872	0	\$ 2,246,400	2017
6-M-5	1121	0	\$ 1,345,200	2022
6-M-6	1412	0	\$ 1,694,400	2023
6-M-7	1415	0	\$ 1,698,000	2024
Subtotal	9,014	-	\$ 10,816,800	

6-PR-1	262	10102	\$ 1,762,987	2011
6-PR-2	280	9681	\$ 1,779,742	2012
6-PR-3	312	12795	\$ 2,171,052	2013
6-PR-4	482	7618	\$ 2,216,885	2010
6-PR-5	450	13280	\$ 2,647,008	2014
6-PR-6	409	13208	\$ 2,512,349	2015
6-PR-7	415	12853	\$ 2,497,841	2016
6-PR-8	342	8129	\$ 1,827,914	2018
6-PR-9	449	11070	\$ 2,437,032	2019
6-PR-10	448	8931	\$ 2,233,702	2020
6-PR-11	558	8614	\$ 2,547,230	2021
6-PR-12	493	10235	\$ 2,496,156	2008
Subtotal	4,900	126,516	\$ 27,129,898	

TOTAL	14,196	126,516	\$ 38,101,798	
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PR Meter Only
314,400
336,000
374,400
578,400
540,000
490,800
498,000
410,400
538,800
537,600
669,600
591,600
5,880,000

\$1,000 per service + 20%

COUNCIL DISTRICT 7

ID#	No of Services	Length of Pipe	Total Est. Cost	Est. FY of Work
7-M-1	1355	0 \$	1,626,000	2005
7-M-2	1224	0 \$	1,468,800	2006
7-M-3	1772	0 \$	2,126,400	2011
7-M-4	1239	0 \$	1,486,800	2017
7-M-5	773	0 \$	927,600	2018
7-M-6	1620	0 \$	1,944,000	2019
7-M-7	781	0 \$	937,200	2021
7-M-8	1484	0 \$	1,780,800	2020
7-M-9	1182	0 \$	1,418,400	2023
7-M-10	1039	0 \$	1,246,800	2022
7-M-11	845	0 \$	1,014,000	2024
Subtotal	13,314	- \$	15,976,800	
7-PR-1	317	12020 \$	2,114,112	2007
7-PR-2	321	12668 \$	2,187,245	2010
7-PR-3	337	12409 \$	2,212,922	2009
7-PR-4	222	7053 \$	1,352,801	2008
Subtotal	1,197	44,150 \$	7,867,080	
TOTAL	14,511	44,150 \$	23,843,880	

PR Meter Only
380,400
385,200
404,400
266,400
1,436,400

\$1,000 per service + 20%

COUNCIL DISTRICT 8

ID#	No of Services	Length of Pipe	Total Est. Cost	Est. FY of Work
8-M-1	326	0	\$ 391,200	2010
8-M-2	1836	0	\$ 2,203,200	2020
8-M-3	1043	0	\$ 1,251,600	2021
8-M-4	662	0	\$ 794,400	2011
8-M-6	1644	0	\$ 1,972,800	2005
Subtotal	5,511	0	\$ 6,613,200	

8-PR-1	308	12520	\$ 2,132,832	2006
8-PR-2	348	6105	\$ 1,657,188	2007
8-PR-3	442	10767	\$ 2,386,831	2008
8-PR-4	289	12722	\$ 2,092,459	2009
8-PR-5	321	10364	\$ 1,971,590	2010
8-PR-6	345	12214	\$ 2,219,630	2011
8-PR-7	356	11473	\$ 2,184,593	2012
8-PR-8	245	9681	\$ 1,670,542	2013
8-PR-9	341	12264	\$ 2,211,830	2014
8-PR-10	321	12696	\$ 2,189,866	2015
8-PR-11	344	13162	\$ 2,305,243	2016
8-PR-12	370	14678	\$ 2,528,261	2017
8-PR-13	194	7155	\$ 1,274,988	2018
8-PR-14	434	10857	\$ 2,370,295	2019
8-PR-15	201	5934	\$ 1,182,542	2020
8-PR-16	384	13033	\$ 2,417,969	2021
8-PR-17	537	7318	\$ 2,360,405	2022
Subtotal	5,780	182,943	\$ 35,157,065	

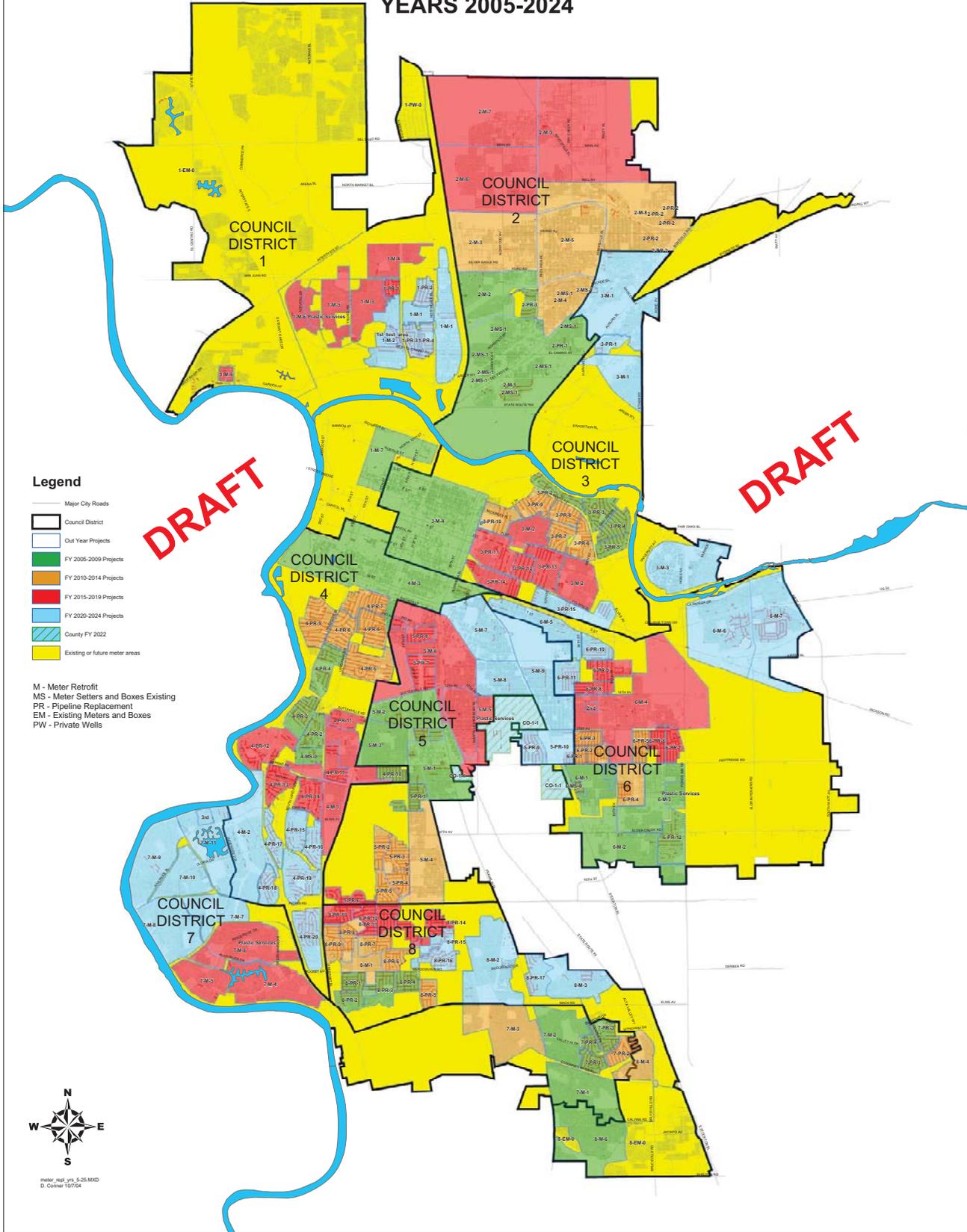
PR Meter Only
369,600
417,600
530,400
346,800
385,200
414,000
427,200
294,000
409,200
385,200
412,800
444,000
232,800
520,800
241,200
460,800
644,400
6,936,000

\$1,000 per service + 20%

8-EM-0	1630	N/A	\$ -	Existing
Subtotal	1,630	-	\$ -	

TOTAL	11,291	182,943	\$ 41,770,265	
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EXAMPLE METER RETROFIT PROGRAM - IMPLEMENTATION YEARS 2005-2024



Legend

- Major City Roads
- Council District
- Out Year Projects
- FY 2005-2009 Projects
- FY 2010-2014 Projects
- FY 2015-2019 Projects
- FY 2020-2024 Projects
- County FY 2022
- Existing or future meter areas

M - Meter Retrofit
 MS - Meter Sitters and Boxes Existing
 PR - Pipeline Replacement
 EM - Existing Meters and Boxes
 PW - Private Wells



meter_repl_05_25_M00D
 D. Corrier 10/7/04

EXAMPLE METER RETROFIT PROGRAM - IMPLEMENTATION COUNCIL DISTRICT 1

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Legend

- Major City Roads
 - Meter That Cross Residential Parcel
 - Council 1
 - Existing or Future Meters
 - FY 2005-2009 Projects
 - FY 2010-2014 Projects
 - FY 2015-2019 Projects
 - FY 2020-2024 Projects
 - County FY 2022
 - Tot_Mtr_Area
- M - Meter Retrofit
 MS - Meter Setters and Boxes Existing
 PR - Pipeline Replacement
 EM - Existing Meters and Boxes
 PW - Private Wells



meter_rpt_CD1.MXD
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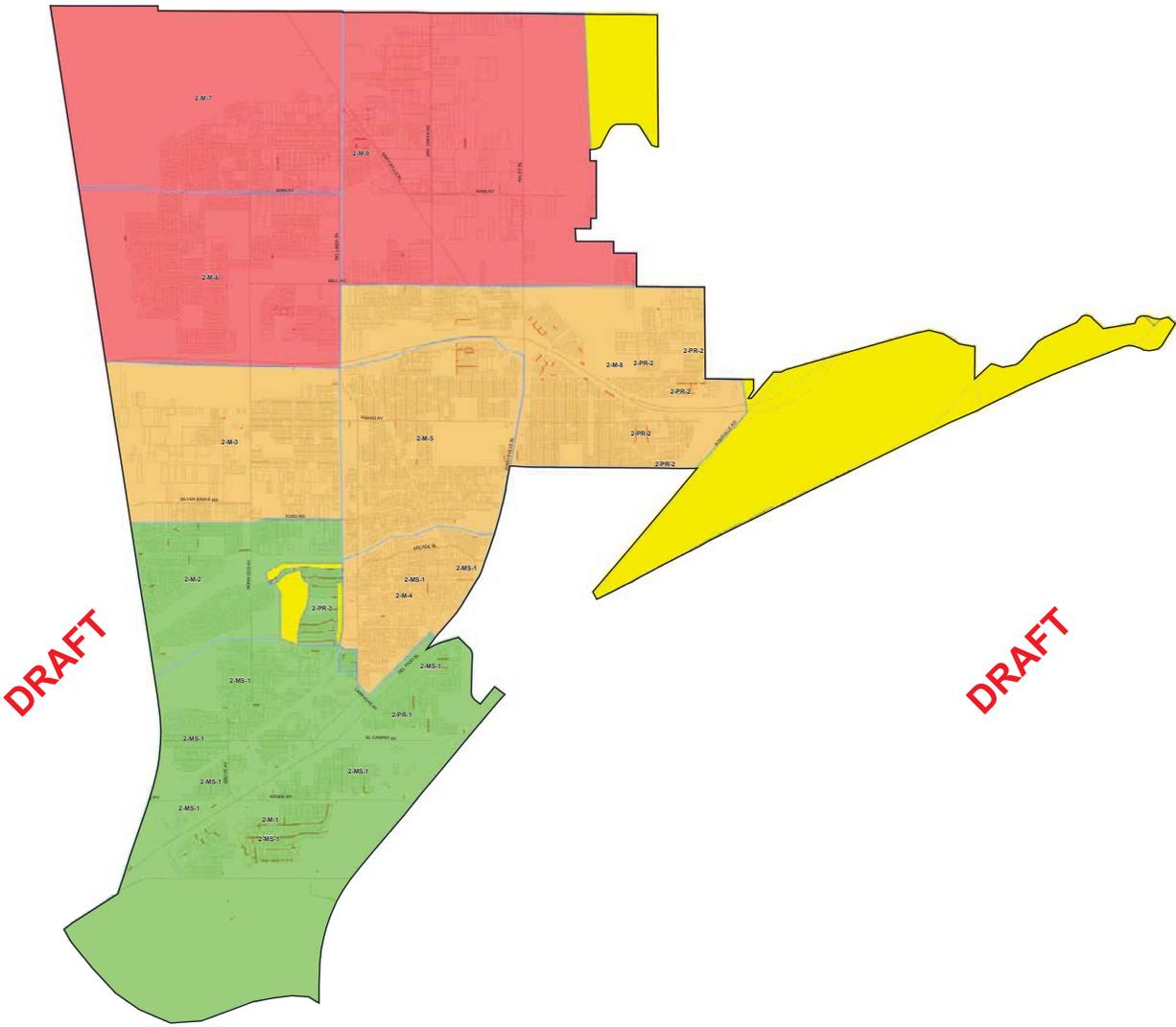
COUNCIL DISTRICT 1

IDP	No of Services	Length of Pipe	Total Est. Cost	Est. FY of Work
1-M-1	1125	0.0	1,324,000	2010
1-M-2	1185	0.0	1,304,400	2010
1-M-3	1125	0.0	1,268,000	2010
1-M-4	1110	0.0	1,332,400	2011
1-M-5	1170	0.0	1,402,000	2011
1-M-6	1130	0.0	1,338,000	2011
1-M-7	300	0.0	109,000	2012
Subtotal	8,840	0.0	8,378,790	
1-PR-1	238	8820.0	1,838,764	2010
1-PR-2	300	1240.0	2,337,200	2010
1-PR-3	300	1310.0	2,337,191	2010
1-PR-4	300	1500.0	1,847,188	2014
Subtotal	1,138	48,540.0	8,363,343	
EM-MS	17,247	N/A	-	Existing
Subtotal	17,247	N/A	-	
1-PW-1	130	N/A	N/A	N/A
Subtotal	130	-	-	
TOTAL	18,807	48,540.0	18,380,378	

PR Meter Only	
1-PR-1	1,838,764
1-PR-2	2,337,200
1-PR-3	2,337,191
1-PR-4	1,847,188
Subtotal	8,363,343

\$1,000 per service + 20%

EXAMPLE METER RETROFIT PROGRAM - IMPLEMENTATION COUNCIL DISTRICT 2



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Legend

- Major City Roads
- Main That Cross Residential Parcels
- District 2
- Existing of Future Meters
- FY 2005-2009 Projects
- FY 2010-2014 Projects
- FY 2015-2019 Projects
- County FY 2022
- 1st_1st_area
- M - Meter Retrofit
- MS - Meter Setters and Boxes Existing
- PS - Pipeline Replacement
- EM - Existing Meters and Boxes
- PW - Private Wells



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D. Colner 12/16/14

COUNCIL DISTRICT 2

ID#	No of Services	Length of Pipe	Total Est. Cost	Est. FY of Work
2.M-1	200	0	\$ 167,200	2015
Subtotal	200	0	\$ 167,200	
2.MS-1	13,338	0	\$ 1,725,000	2009
2.MS-2	11,311	0	\$ 1,476,000	2009
2.MS-3	1,700	0	\$ 224,000	2010
2.MS-4	807	0	\$ 95,400	2010
2.MS-5	10,071	0	\$ 1,311,000	2010
2.MS-6	10,220	0	\$ 1,362,000	2010
2.MS-7	2,048	0	\$ 256,000	2010
2.MS-8	10,000	0	\$ 1,280,000	2010
2.MS-9	1,980	0	\$ 247,500	2010
Subtotal	68,375	0	\$ 13,987,500	
2.PRS-1	150	800	\$ 712,500	2009
2.PRS-2	111	200	\$ 477,500	2010
2.PRS-3	289	170	\$ 821,500	2009
Subtotal	550	1,170	\$ 3,911,500	
TOTAL	77,425	11,700	\$ 18,892,600	

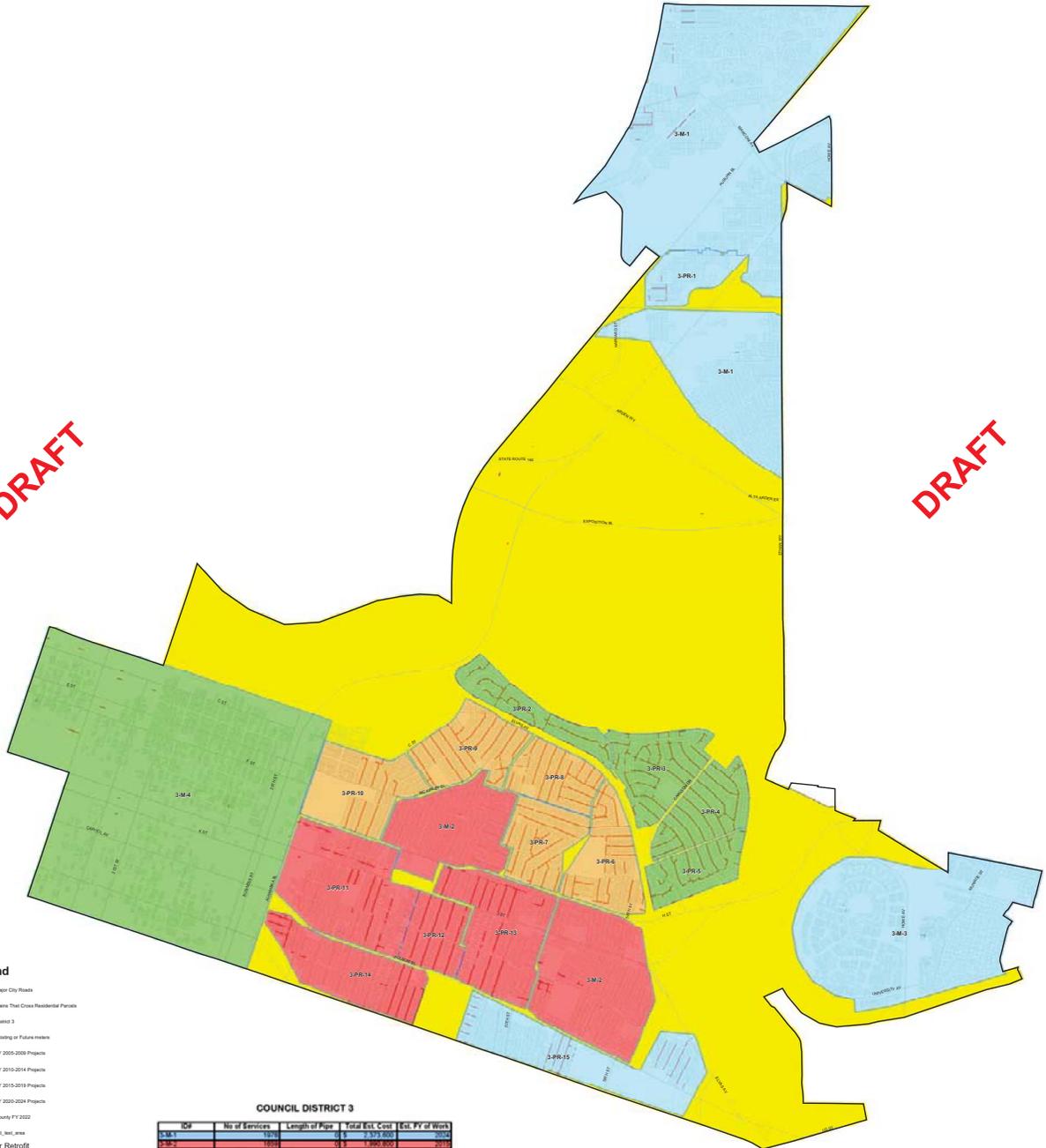
PK Meter Only	
\$	238,800.00
\$	152,800.00
\$	345,800.00
\$	744,000.00

\$1,000 per service + 20%

EXAMPLE METER RETROFIT PROGRAM - IMPLEMENTATION COUNCIL DISTRICT 3

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Legend

- Major City Roads
 - Meter That Cross Residential Parcel
 - District 3
 - Existing of Future Meters
 - FY 2025-2029 Projects
 - FY 2010-2014 Projects
 - FY 2015-2019 Projects
 - FY 2020-2024 Projects
 - County FY 2022
- lat_lon_area
- M - Meter Retrofit
 - MS - Meter Setters and Boxes Existing
 - PS - Pipeline Replacement
 - EM - Existing Meters and Boxes
 - PW - Private Wells



meter_rpt_CD3.MXD
D. Corner 12/26/24

COUNCIL DISTRICT 3

Est	No of Services	Length of Pipe	Total Est Cost	Est. FY of Work
3-M-1	100	0.5	2,375,000	2024
3-M-2	100	0.5	1,950,000	2025
3-M-3	100	0.5	2,125,000	2026
3-M-4	100	0.5	2,280,000	2027
Total	7,385.88	-	8,784,000	

Est	No of Services	Length of Pipe	Total Est Cost	Est. FY of Work
3-PR-1	143	1279.8	981,100	2022
3-PR-2	211	1824.8	1,278,100	2023
3-PR-3	221	1219.5	770,800	2024
3-PR-4	403	1289.5	770,800	2025
3-PR-5	391	1116	705,200	2026
3-PR-6	213	1168.5	2,414,500	2027
3-PR-7	229	1054.5	2,379,300	2028
3-PR-8	400	1054.5	2,742,800	2029
3-PR-9	278	1280.5	2,889,200	2030
3-PR-10	300	777.5	1,031,200	2031
3-PR-11	300	867.5	1,051,200	2032
3-PR-12	300	851.5	1,158,200	2033
3-PR-13	300	1025.5	2,357,200	2034
3-PR-14	811	762.5	2,794,300	2035
3-PR-15	300	368.5	2,586,200	2036
Total	6,373	146,913.5	24,443,800	

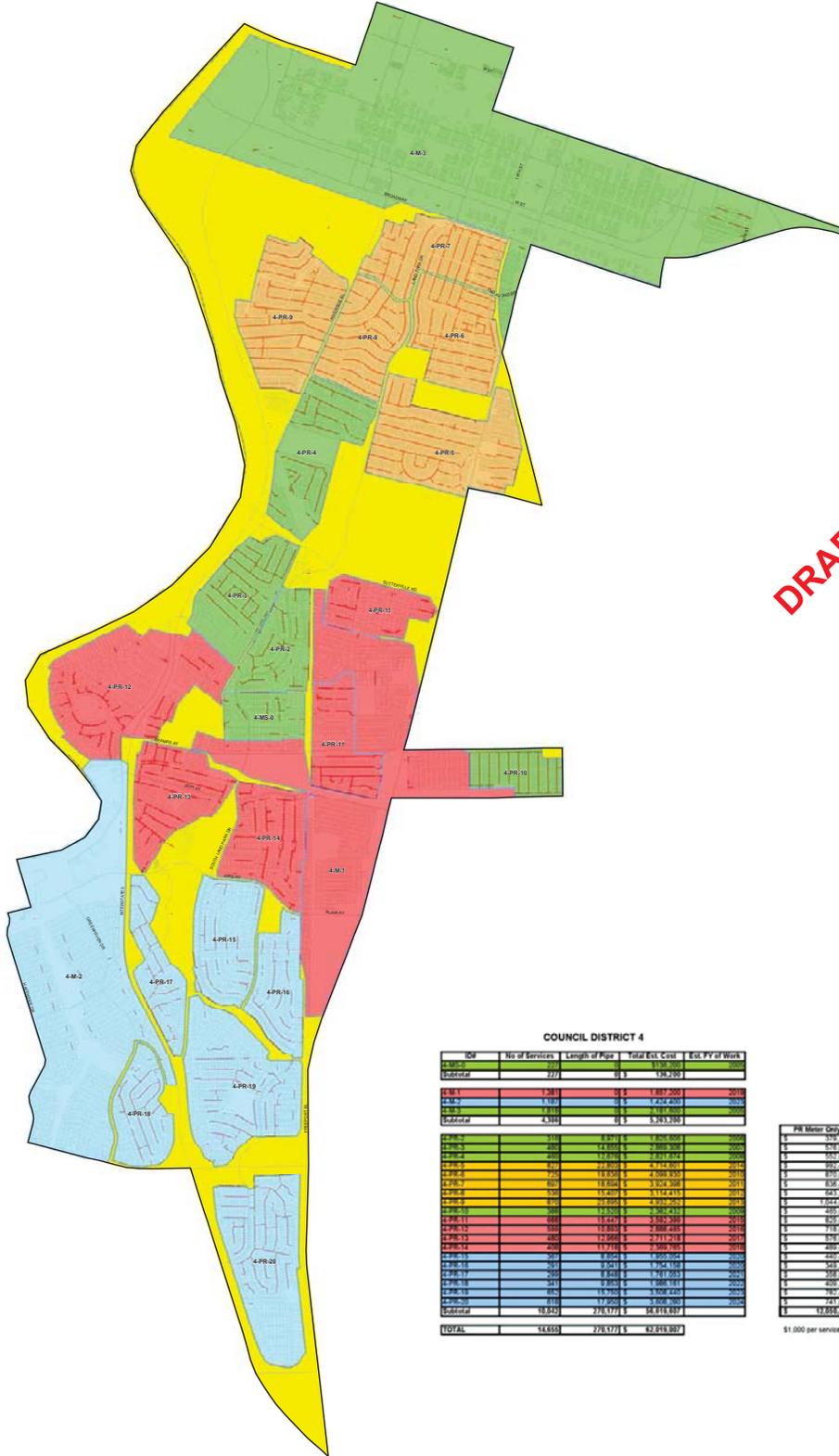
Est	No of Services	Length of Pipe	Total Est Cost	Est. FY of Work
3-M-1	100	0.5	174,000	2024
3-M-2	100	0.5	281,000	2025
3-M-3	100	0.5	253,000	2026
3-M-4	100	0.5	289,000	2027
3-M-5	100	0.5	244,000	2028
3-M-6	100	0.5	250,000	2029
3-M-7	100	0.5	281,000	2030
3-M-8	100	0.5	281,000	2031
3-M-9	100	0.5	281,000	2032
3-M-10	100	0.5	281,000	2033
3-M-11	100	0.5	281,000	2034
3-M-12	100	0.5	281,000	2035
3-M-13	100	0.5	281,000	2036
3-M-14	100	0.5	281,000	2037
3-M-15	100	0.5	281,000	2038
Total	1,500	7.5	4,348,000	

\$1,000 per service + 20%

EXAMPLE METER RETROFIT PROGRAM - IMPLEMENTATION COUNCIL DISTRICT 4

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Legend

- Major City Roads
- Main Road
- Main That Cross Residential Parcels
- Council District 4
- Existing or Future Meters
- FY 2005-2009 Projects
- FY 2010-2014 Projects
- FY 2015-2019 Projects
- County FY 2022 Projects
- County FY 2022
- Int. Int. Area
- Existing or Future meter areas
- M - Meter Retrofit
- MS - Meter Setters and Boxes Existing
- PS - Pipeline Replacement
- EM - Existing Meters and Boxes
- PW - Private Wells



meter_rpt_CDA-MAD
D. Conner 12/6/04

COUNCIL DISTRICT 4

Dist	No. of Services	Length of Pipe	Total Est. Cost	Est. FY of Work
4-M-1	277	69.3	\$138,290	2005
Subtotal	277	69.3	\$138,290	2005
4-M-2	1,381	34.8	\$1,857,200	2010
4-M-3	1,081	26.5	\$1,424,400	2010
4-M-4	1,819	45.3	\$1,819,400	2010
Subtotal	4,381	69.3	\$5,143,100	2010
4-M-5	315	8.31	\$1,810,600	2009
4-M-6	285	14.85	\$1,880,300	2009
4-M-7	495	13.15	\$1,810,600	2009
4-M-8	377	22.82	\$1,810,600	2009
4-M-9	775	18.52	\$1,810,600	2009
4-M-10	607	18.52	\$1,810,600	2009
4-M-11	335	15.42	\$1,810,600	2009
4-M-12	375	20.02	\$1,810,600	2009
4-M-13	385	17.52	\$1,810,600	2009
4-M-14	385	17.52	\$1,810,600	2009
4-M-15	385	17.52	\$1,810,600	2009
4-M-16	385	17.52	\$1,810,600	2009
4-M-17	385	17.52	\$1,810,600	2009
4-M-18	385	17.52	\$1,810,600	2009
4-M-19	385	17.52	\$1,810,600	2009
4-M-20	385	17.52	\$1,810,600	2009
Subtotal	18,815	276.177	\$6,815,857	2009
TOTAL	14,655	276.177	\$7,915,857	

Est. FY of Work	Est. Cost
2005	\$138,290
2009	\$6,815,857
2010	\$5,143,100

\$1,000 per service + 20%

EXAMPLE METER RETROFIT PROGRAM - IMPLEMENTATION COUNCIL DISTRICT 5

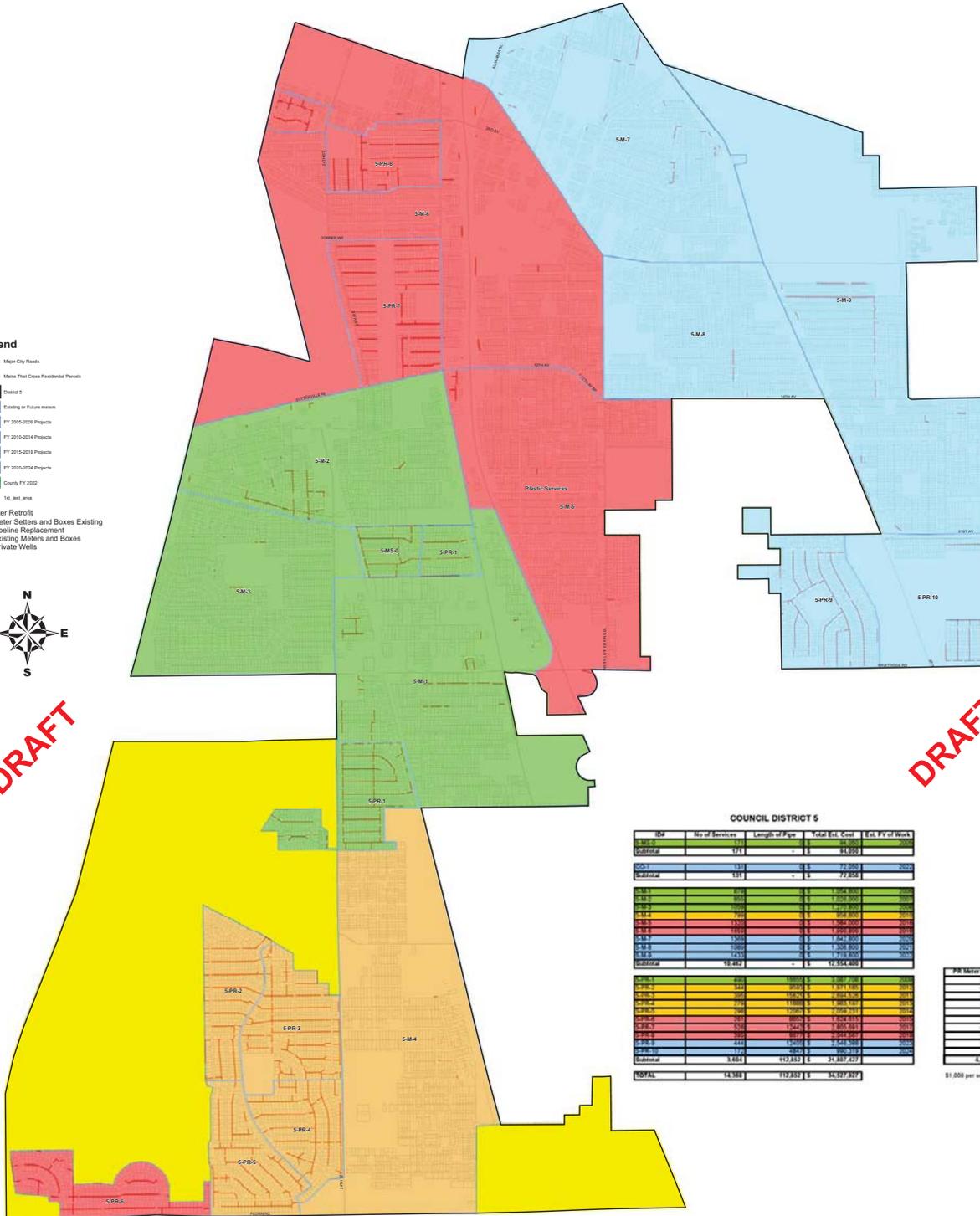
Legend

- Major City Roads
- Meter That Cross Residential Parcels
- District 5
- Existing of Future Meters
- FY 2005-2009 Projects
- FY 2010-2014 Projects
- FY 2015-2019 Projects
- FY 2020-2024 Projects
- County FY 2022
- 1st, 2nd, 3rd Area
- M - Meter Retrofit
- MS - Meter Setters and Boxes Existing
- PR - Pipeline Replacement
- EM - Existing Meters and Boxes
- PW - Private Wells



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COUNCIL DISTRICT 5

ID#	No of Services	Length of Pipe	Total Est. Cost	Est. FY of Work
S-M-1	111	-	\$1,332	2020
Subtotal	111	-	\$1,332	
S-P-R-1	131	18	77,858	2020
Subtotal	131	18	77,858	
S-M-2	878	0	1,054,200	2020
S-M-3	805	0	1,026,000	2020
S-M-4	795	0	1,026,000	2020
S-M-5	1,320	0	1,584,000	2020
S-M-6	1,020	0	1,224,000	2020
S-M-7	1,305	0	1,566,000	2020
S-M-8	1,260	0	1,512,000	2020
S-M-9	1,215	0	1,458,000	2020
Subtotal	10,427	0	12,554,400	
S-P-R-2	342	49	1,071,735	2021
S-P-R-3	297	42	931,530	2021
S-P-R-4	270	38	856,137	2021
S-P-R-5	246	35	769,815	2021
S-P-R-6	201	28	634,315	2021
S-P-R-7	1,342	19	2,855,941	2021
S-P-R-8	327	46	974,814	2021
S-P-R-9	444	63	1,348,388	2021
S-P-R-10	178	25	524,412	2021
Subtotal	5,664	113,357	21,837,437	
TOTAL	14,368	113,357	34,837,437	

1st Meter Only
200,000
217,000
234,000
251,000
268,000
285,000
302,000
319,000
336,000
353,000
370,000
387,000
404,000
421,000
438,000
455,000
472,000
489,000
506,000
523,000
540,000
557,000
574,000
591,000
608,000
625,000
642,000
659,000
676,000
693,000
710,000
727,000
744,000
761,000
778,000
795,000
812,000
829,000
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880,000
897,000
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931,000
948,000
965,000
982,000
999,000

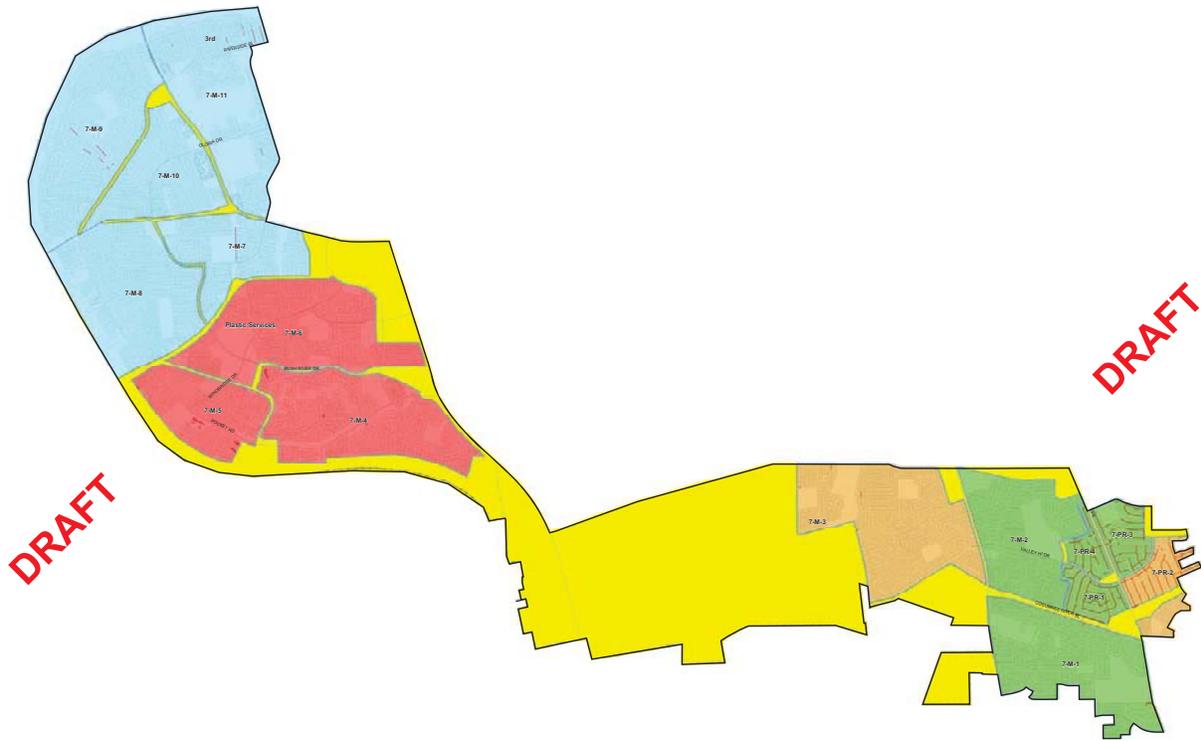
\$1,000 per service + 20%

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D: Corner 12/6/04

EXAMPLE

METER RETROFIT PROGRAM - IMPLEMENTATION

COUNCIL DISTRICT 7



Legend

- Major City Roads
 - Areas That Cross Residential Parcels
 - District 7
 - Existing or Future meters
 - FY 2015-2019 Projects
 - FY 2010-2014 Projects
 - FY 2015-2019 Projects
 - FY 2020-2024 Projects
 - County FY 2022
 - 1st, 2nd, 3rd
- M - Meter Retrofit
 MS - Meter Setters and Boxes Existing
 PR - Pipeline Replacement
 EM - Existing Meters and Boxes
 PW - Private Wells



meter_npl_C07.MXD
 D: Corner 12/16/14

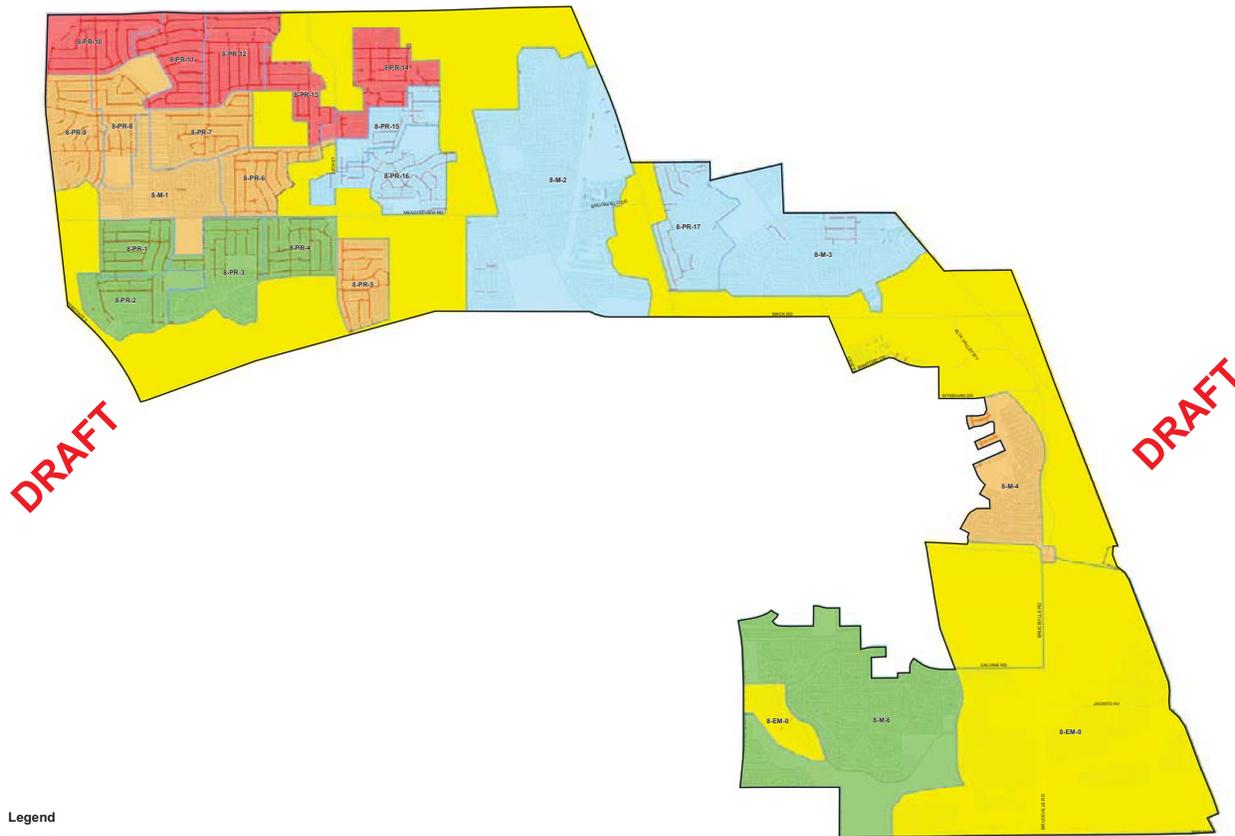
COUNCIL DISTRICT 7

ID#	No. of Services	Length of Pipe	Total Est. Cost	Est. FY of Work
7.M-1	1350	2.5	1,828,000	2015
7.M-2	1100	2.5	1,458,000	2015
7.M-3	1175	2.5	1,738,200	2015
7.M-4	1100	2.5	1,458,000	2015
7.M-5	775	2.5	977,000	2015
7.M-6	1250	2.5	1,644,000	2015
7.M-7	1100	2.5	1,458,000	2015
7.M-8	1180	2.5	1,787,000	2015
7.M-9	1125	2.5	1,518,200	2015
7.M-10	1000	2.5	1,268,000	2015
7.M-11	525	2.5	714,000	2015
Subtotal	13,314	-	15,918,200	
7.PB-1	100	1.0	212,100	2015
7.PB-2	20	1.0	21,870	2015
7.PB-3	30	1.0	32,100	2015
7.PB-4	30	1.0	32,100	2015
7.PB-5	30	1.0	32,100	2015
Subtotal	1,110	-	1,238,100	
TOTAL	14,424	44,150	17,156,300	

PW Meter Only	
7.M-1	1,828,000
7.M-2	1,458,000
7.M-3	1,738,200
7.M-4	1,458,000
7.M-5	977,000
7.M-6	1,644,000
7.M-7	1,458,000
7.M-8	1,787,000
7.M-9	1,518,200
7.M-10	1,268,000
7.M-11	714,000
Subtotal	12,381,000

\$1,000 per service + 20%

EXAMPLE METER RETROFIT PROGRAM - IMPLEMENTATION COUNCIL DISTRICT 8



DRAFT

DRAFT

Legend

- Major City Roads
 - Main Roads That Cross Residential Parcels
 - District 8
 - Existing or Future meters
 - FY 2015-2019 Projects
 - FY 2020-2024 Projects
 - FY 2025-2029 Projects
 - County FY 2022
- M - Meter Retrofit
 MS - Meter Setters and Boxes Existing
 PR - Pipelines Replacement
 EM - Existing Meters and Boxes
 PW - Private Wells



meter_npl_CDB.MXD
D: Corner 12/6/04

COUNCIL DISTRICT 8

Project	Year of Service	Length of Pipe	Total Est. Cost	Est. # of Meters
S-M-1	2020	1,200	\$ 281,000	200
S-M-2	2020	1,200	\$ 2,200,000	200
S-M-3	2020	1,200	\$ 1,817,000	200
S-M-4	2020	1,200	\$ 944,000	200
S-M-5	2020	1,200	\$ 1,874,000	200
S-M-6	2020	1,200	\$ 1,874,000	200
S-M-7	2020	1,200	\$ 1,874,000	200
S-M-8	2020	1,200	\$ 1,874,000	200
S-M-9	2020	1,200	\$ 1,874,000	200
S-M-10	2020	1,200	\$ 1,874,000	200
S-M-11	2020	1,200	\$ 1,874,000	200
S-M-12	2020	1,200	\$ 1,874,000	200
S-M-13	2020	1,200	\$ 1,874,000	200
S-M-14	2020	1,200	\$ 1,874,000	200
S-M-15	2020	1,200	\$ 1,874,000	200
S-M-16	2020	1,200	\$ 1,874,000	200
S-M-17	2020	1,200	\$ 1,874,000	200
S-M-18	2020	1,200	\$ 1,874,000	200
S-M-19	2020	1,200	\$ 1,874,000	200
S-M-20	2020	1,200	\$ 1,874,000	200
S-M-21	2020	1,200	\$ 1,874,000	200
S-M-22	2020	1,200	\$ 1,874,000	200
S-M-23	2020	1,200	\$ 1,874,000	200
S-M-24	2020	1,200	\$ 1,874,000	200
S-M-25	2020	1,200	\$ 1,874,000	200
S-M-26	2020	1,200	\$ 1,874,000	200
S-M-27	2020	1,200	\$ 1,874,000	200
S-M-28	2020	1,200	\$ 1,874,000	200
S-M-29	2020	1,200	\$ 1,874,000	200
S-M-30	2020	1,200	\$ 1,874,000	200
S-M-31	2020	1,200	\$ 1,874,000	200
S-M-32	2020	1,200	\$ 1,874,000	200
S-M-33	2020	1,200	\$ 1,874,000	200
S-M-34	2020	1,200	\$ 1,874,000	200
S-M-35	2020	1,200	\$ 1,874,000	200
S-M-36	2020	1,200	\$ 1,874,000	200
S-M-37	2020	1,200	\$ 1,874,000	200
S-M-38	2020	1,200	\$ 1,874,000	200
S-M-39	2020	1,200	\$ 1,874,000	200
S-M-40	2020	1,200	\$ 1,874,000	200
S-M-41	2020	1,200	\$ 1,874,000	200
S-M-42	2020	1,200	\$ 1,874,000	200
S-M-43	2020	1,200	\$ 1,874,000	200
S-M-44	2020	1,200	\$ 1,874,000	200
S-M-45	2020	1,200	\$ 1,874,000	200
S-M-46	2020	1,200	\$ 1,874,000	200
S-M-47	2020	1,200	\$ 1,874,000	200
S-M-48	2020	1,200	\$ 1,874,000	200
S-M-49	2020	1,200	\$ 1,874,000	200
S-M-50	2020	1,200	\$ 1,874,000	200
Subtotal	6,611	48	\$ 6,611,000	200

Project	Year of Service	Length of Pipe	Total Est. Cost	Est. # of Meters
S-EM-1	2020	1,200	\$ 2,132,000	200
S-EM-2	2020	1,200	\$ 1,857,000	200
S-EM-3	2020	1,200	\$ 2,356,000	200
S-EM-4	2020	1,200	\$ 2,526,000	200
S-EM-5	2020	1,200	\$ 1,311,000	200
S-EM-6	2020	1,200	\$ 1,817,000	200
S-EM-7	2020	1,200	\$ 2,185,000	200
S-EM-8	2020	1,200	\$ 1,870,000	200
S-EM-9	2020	1,200	\$ 2,511,000	200
S-EM-10	2020	1,200	\$ 2,188,000	200
S-EM-11	2020	1,200	\$ 2,406,000	200
S-EM-12	2020	1,200	\$ 2,426,000	200
S-EM-13	2020	1,200	\$ 1,174,000	200
S-EM-14	2020	1,200	\$ 1,376,000	200
S-EM-15	2020	1,200	\$ 1,187,000	200
S-EM-16	2020	1,200	\$ 2,117,000	200
S-EM-17	2020	1,200	\$ 2,529,000	200
Subtotal	6,789	182,843	\$ 36,187,000	200

Project	Year of Service	Length of Pipe	Total Est. Cost	Est. # of Meters
S-EM-1	2020	1,200	\$ -	200
Subtotal	1,839	-	\$ -	200
TOTAL	12,821	182,843	\$ 41,778,000	200

PW Meter Cost

200	\$100
217,000	\$100
130,000	\$100
148,000	\$100
200,000	\$100
214,000	\$100
247,000	\$100
264,000	\$100
298,000	\$100
308,000	\$100
317,000	\$100
344,000	\$100
377,000	\$100
390,000	\$100
391,000	\$100
414,000	\$100
414,000	\$100
434,000	\$100
434,000	\$100
6,936,000	\$100

\$1,000 per service + 20%

Appendix D

5 Year Implementation Plan

Appendix D1

Summary Table

**WATER METER IMPLEMENTATION PROGRAM
SUMMARY TABLE**

Updated: March 17, 2006

Council District	TOTAL PROJECT COSTS (2004 Costs)			REVISED 5 YEAR PLAN (Inflated Costs)			%
	No of Services	Length of Pipe	Total Est. Cost	No of Services	Length of Pipe	Total Est. Cost	
1	8,124	46,583	\$ 19,891,273	164	1,800	\$ 560,191	3%
2	12,420	14,733	\$ 21,812,434	1,168	998	\$ 1,497,711	7%
3	14,244	140,983	\$ 49,493,950	1,822	-	\$ 3,185,611	6%
4	14,594	283,698	\$ 69,028,996	842	25,641	\$ 8,914,446	13%
5	14,237	112,852	\$ 40,559,466	1,394	9,593	\$ 4,430,414	11%
6	14,196	126,516	\$ 44,139,430	1,368	-	\$ 2,271,966	5%
7	14,133	44,150	\$ 29,522,942	861	-	\$ 1,668,135	6%
8	11,291	182,943	\$ 46,669,712	1,233	-	\$ 2,477,748	5%
County	131	-	\$ 157,200	-	-	\$ -	-
Apartments/Condos	1,560	-	\$ 18,018,000	-	-	\$ -	-
Plastic Services	6,797	-	\$ 3,398,500	-	-	\$ -	-
SUBTOTAL	104,930	952,458	\$ 342,691,902	8,852	38,032	\$ 25,006,221	7%

TOTAL METER AND PIPELINE COST BREAKDOWN (2004 DOLLARS)

Council District	D	M	PR Meters	PR & Services Onl	Total
1	\$ -	\$ 11,326,811	\$ 1,932,933	\$ 6,631,529	\$ 19,891,273
2	\$ 532,950	\$ 17,697,042	\$ 1,013,034	\$ 3,102,359	\$ 21,812,434
3	\$ -	\$ 11,637,255	\$ 11,337,806	\$ 26,518,889	\$ 49,493,950
4	\$ 124,850	\$ 6,878,288	\$ 16,308,205	\$ 45,842,503	\$ 69,028,996
5	\$ 94,050	\$ 17,251,323	\$ 5,888,666	\$ 17,419,477	\$ 40,559,466
6	\$ 155,100	\$ 14,728,200	\$ 8,006,233	\$ 21,404,998	\$ 44,139,430
7	\$ -	\$ 21,136,454	\$ 1,955,808	\$ 6,430,680	\$ 29,522,942
8	\$ -	\$ 9,004,561	\$ 9,444,087	\$ 28,221,065	\$ 46,669,712
County	\$ -	\$ 157,200	\$ -	\$ -	\$ 157,200
Apartments/Condos	\$ -	\$ -	\$ -	\$ -	\$ 18,018,000
Plastic Services	\$ -	\$ -	\$ -	\$ -	\$ 3,398,500
TOTAL	\$ 906,950	\$ 109,817,133	\$ 55,886,771	\$ 155,571,499	\$ 342,691,902

5YR PLAN METER AND PIPELINE COST BREAKDOWN (2004 DOLLARS)

Council District	D	M	PR Meters	PR & Services Onl	Total
1	\$ -	\$ 132,791	\$ 120,910	\$ 292,918	\$ 546,619
2	\$ 532,950	\$ -	\$ 325,151	\$ 475,493	\$ 1,333,594
3	\$ -	\$ 1,524,140			\$ 1,524,140
4	\$ 124,850	\$ -	\$ 1,679,675	\$ 5,469,008	\$ 7,273,533
5	\$ 94,050	\$ 1,436,220	\$ 562,070	\$ 1,558,385	\$ 3,650,725
6	\$ 155,100	\$ 1,618,643	\$ -	\$ -	\$ 1,773,743
7	\$ -	\$ 1,406,809	\$ -	\$ -	\$ 1,406,809
8	\$ -	\$ 2,014,630	\$ -	\$ -	\$ 2,014,630
County	\$ -	\$ -	\$ -	\$ -	\$ -
Apartments/Condos	\$ -	\$ -	\$ -	\$ -	\$ -
Plastic Services	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL	\$ 906,950	\$ 8,133,232	\$ 2,687,807	\$ 7,795,803	\$ 19,523,792

D : Existing meter setters - cost to install only the meter

M: Existing front yard service - cost to install box and meter

PR Meters: cost to install box and meter as part of pipeline replacement project

PR & Services Only: cost to install new main in street and new service to front of house (DOESN'T INCLUDE BOX OR METER)

**Revised 5yr Plan
METER IMPLEMENTATION PROGRAM
COST BREAKDOWN BY YEAR**

3/21/2006

ID#	No of Services	Length of Pipe	Total Est. Cost (2004 Dollars)	Est. FY of Work	Inflated Costs Based on ENR Index	Water Meter Program Funding	R&R CIP Funding	Total Funding	Carryover/ (Deficit)
Project Management	0	0	\$ 288,280	2005/06	\$ 288,280				
Public Outreach	0	0	\$ 36,000	2005/06	\$ 36,000				
Service Repair Retrofits	100	0	\$ 50,000	2005/06	\$ 50,000				
Retrofit Pilot Project	140	0	\$ 200,000	2005/06	\$ 200,000				
Drop in Pilot Project (NS ph6)	231	0	\$ 127,050	2005/06	\$ 135,012				
4-PR-1 (S.Land Park Ph1)	227	11,240	\$ 2,108,365 ¹	2005/06	\$ 2,108,365 ¹		\$ 1,860,000		
Subtotal	471	11,240	\$ 2,809,695		\$ 2,817,657	\$ 1,163,000	\$ 1,860,000	\$ 3,023,000	\$ 205,343
Project Management	0	0	\$ 100,000	2006/07	\$ 100,000				
Public Outreach	0	0	\$ 36,000	2006/07	\$ 36,000				
Service Repair Retrofits	500	0	\$ 250,000	2006/07	\$ 250,000				
1-PR-5 (Bowman/Wisconsin Ave)	74	1800	\$ 413,828	2006/07	\$ 413,828				
1-M-7	90	0	\$ 132,791	2006/07	\$ 146,363				
4-PR-2a (S.Land Park Ph2)	164	9,301	\$ 1,453,417 ²	2006/07	\$ 2,300,000 ²		\$ 2,300,000		
3-M-4 (27%)	506	0	\$ 746,578	2006/07	\$ 822,884				
2-D-1	738	0	\$ 405,900	2006/07	\$ 447,386				
4-D-0 (S.Land Park Ph1)	227	0	\$ 124,850	2006/07	\$ 137,611				
5-D-0	171	0	\$ 94,050	2006/07	\$ 103,663				
6-D-0	282	0	\$ 155,100	2006/07	\$ 170,953				
Subtotal	2,752	11,101	\$ 3,912,514		\$ 4,928,688	\$ 2,780,253	\$ 2,300,000	\$ 5,080,253	\$ 356,909
Project Management	0	0	\$ 100,000	2007/08	\$ 100,000				
Public Outreach	0	0	\$ 36,000	2007/08	\$ 36,000				
Service Repair Retrofits	500	0	\$ 250,000	2007/08	\$ 250,000				
2-PR-1	199	998	\$ 800,644	2007/08	\$ 915,312				
3-M-4 (28%)	527	0	\$ 777,562	2007/08	\$ 888,925				
3-M-2 (48%)	789	0	\$ 1,289,167	2007/08	\$ 1,473,801				
4-PR-2b (S.Land Park Ph3)	119	4,768	\$ 869,202	2007/08	\$ 993,689				
Subtotal	2,134	5,766	\$ 4,122,575		\$ 4,657,727	\$ 4,398,318		\$ 4,398,318	\$ 97,499
Project Management	0	0	\$ 100,000	2008/09	\$ 100,000				
Public Outreach	0	0	\$ 36,000	2008/09	\$ 36,000				
Service Repair Retrofits	500	0	\$ 250,000	2008/09	\$ 250,000				
4-PR-3a (S.Land Park Ph4)	188	9,102	\$ 1,520,085	2008/09	\$ 1,802,452				
5-M-1 (75%)	659	0	\$ 1,077,165	2008/09	\$ 1,277,257				
7-M-4	861	0	\$ 1,406,809	2008/09	\$ 1,668,135				
Subtotal	2,208	9,102	\$ 4,390,060		\$ 5,133,844	\$ 6,162,009		\$ 6,162,009	\$ 1,125,664
Project Management	0	0	\$ 100,000	2009/10	\$ 100,000				
Public Outreach	0	0	\$ 36,000	2009/10	\$ 36,000				
Service Repair Retrofits	500	0	\$ 250,000	2009/10	\$ 250,000				
4-PR-3b (S.Land Park Ph5)	144	8,191	\$ 1,278,443	2009/10	\$ 1,572,328				
5-M-1 (25%)	220	0	\$ 359,055	2009/10	\$ 441,594				
5-PR-2	344	9,593	\$ 2,120,455	2009/10	\$ 2,607,901				
6-M-1	946	0	\$ 1,545,693	2009/10	\$ 1,901,014				
8-M-6 (75%)	1,233	0	\$ 2,014,630	2009/10	\$ 2,477,748				
Subtotal	3,387	17,784	\$ 7,704,275		\$ 9,386,585	\$ 8,084,432		\$ 8,084,432	\$ (176,488)
5-YR TOTAL (2005/06-2009/10)	10,952	54,993	\$ 22,939,118	2005-2009	\$ 26,924,501	\$ 22,588,013	\$ 4,160,000	\$ 26,748,013	\$ (176,488)

PR= Backyard Main Pipe Replacement Project
M= Meter Retrofits
D= Drop in Meters in Existing Boxes

Notes

- \$1.86 Million Funded in FY05/06 R&R CIP Budget (South Land Park Phase 1 ZK01)
- \$2.30 Million Proposed in FY06/07 R&R CIP Budget (South Land Park Phase 2 ZL26)

Revised 5yr Plan
METER IMPLEMENTATION PROGRAM
Spread of Meters Across City

3/21/2006

<u>5-year Plan Summary</u>	Costs	%	Meters	%
District 1	\$ 560,191	2%	164	2%
District 2	\$ 1,497,711	6%	1,168	13%
District 3	\$ 3,185,611	13%	1,822	21%
District 4	\$ 8,914,446	36%	842	10%
District 5	\$ 4,430,414	18%	1,394	16%
District 6	\$ 2,271,966	9%	1,368	15%
District 7	\$ 1,668,135	7%	861	10%
District 8	\$ 2,477,748	10%	1,233	14%
Total	\$ 25,006,221	100%	8,852	100%
Program Management Consultant	\$ 688,280			
Public Outreach Consultant	\$ 180,000			
Service Repair Retrofits	\$ 1,050,000		2,100	
Total	\$ 26,924,501		10,952	
Pipeline Replacement Projects (PR)	\$ 12,713,876	47%	1,459	13%
Meter Retrofits (M)	\$ 11,097,721	41%	5,831	53%
Drop ins (D)	\$ 994,625	4%	1,422	13%
Pilot Program	\$ 200,000	1%	140	1%
Service Repair Retrofits	\$ 1,050,000	4%	2,100	19%
Project Management & Outreach	\$ 868,280	3%		
Total	\$ 26,924,501	100%	10,952	100%
Check	\$ 26,924,501		10,952	

Revised 5yr Plan
METER IMPLEMENTATION PROGRAM
Number of Meters

3/21/2006

ID#	No of Services	In house	Retrofit Contract	Meters Only	CIP Project
Service Repair Retrofits	100	100			
Retrofit Pilot Project	140	140			
Drop in Pilot Project (NS ph6)	231			231	
4-PR-1 (S.Land Park Ph1)	0				0
Subtotal	471	240	0	231	0
Service Repair Retrofits	500	500			
1-PR-5 (Bowman/Wisconsin Ave)	74				74
4-PR-2a (S.Land Park Ph2)	164				164
1-M-7	90		90		
3-M-4 (27%)	506		506		
2-D-1	738			738	
4-D-0 (S.Land Park Ph1)	227			227	
5-D-0	171			171	
6-D-0	282			282	
Subtotal	2,752	500	596	1,418	238
Service Repair Retrofits	500	500			
2-PR-1	199				199
3-M-4 (28%)	527		527		
3-M-2 (48%)	789		789		
4-PR-2b (S.Land Park Ph3)	119				119
Subtotal	2,134	500	1,316	0	318
Service Repair Retrofits	500	500			
4-PR-3a (S.Land Park Ph4)	188				188
5-M-1 (75%)	659		659		
7-M-4	861		861		
Subtotal	2,208	500	1,520	0	188
Service Repair Retrofits	500	500			
4-PR-3b (S.Land Park Ph5)	144				144
5-PR-2	344				344
5-M-1 (25%)	220		220		
6-M-1	946		946		
8-M-6 (75%)	1,233		1,233		
Subtotal	3,387	500	2,399	0	488
5-YR TOTAL (2005-2009)	10,952	2,240	5,831	1,649	1,232

PR= Backyard Main Pipe Replacement Project
M= Meter Retrofits
D= Drop in Meters in Existing Boxes

COST ASSUMPTIONS

Meter Installation (MS project): Existing meter setters, cost to install meter only

Meter	Project Delivery	Total
\$ 500.00	10%	\$ 550.00

Meter Retro-fit (M project): Existing front yard service - cost to install box and meter

	contingency +	
Box & Meter	project delivery	Total
\$ 1,000.00	20%	\$ 1,200.00

Pipe Replacement (PR project): Relocate ROW mains in street - cost for pipe, service, meter box and meter

\$60/lf of pipe to be replaced + \$2,000/service (including meter) + 30% (valves, FH's, tie-ins, aband.) + 20% (contingency,project delivery)

Foot of Pipe	Service	Appurtenances	contingency +	project delivery
\$ 60.00	\$ 2,000.00	30%	20%	

Apartments/Air Space Condos: Cost to supply and install two meters on 8-inch double check valves

\$10,500/complex + 10% (contingency, project delivery)

	contingency +	
Complex	project delivery	Total
\$ 10,500.00	10%	\$ 11,550.00

Plastic Services: Additional cost to replace plastic water service with copper from the corp stop to the curb stop

Additional \$500 per service

Service
\$ 500.00

Sidewalk Installation: Additional cost to install the meterbox within an existing sidewalk

Additional \$510 per service

However, It was estimated that 15% of Residents do not have sidewalks.
Therefore, \$434 per service was added to all M & MS project outside of downtown.

Alley Installation: Additional cost to install the meterbox within an existing alley

Additional \$275 per service

Alley Installation Costs

3/17/2006

Extra cost to install box in Alley

Pavement Cutting	\$	48.00
Surface Paving 12sf @ \$10/sf	\$	120.00
Average Installation Cost	\$	168.00

Extra cost of H20 rated box

H20 Box (Christy B1324)	\$	64.50
H20 Lid (Christy B1324-61GH)	\$	90.45
Standard Box (Christy N30BOX)	\$	(21.25)
Standard Lid (Christy B30G)	\$	(26.25)

Total Extra Box Cost \$ **107.45**

Total Extra Costs \$ **275.45**

Number of Services

Downtown/Alley Services Areas

1-M7	90
3-M4	1,884
4-M3	1,818
Total Alley installations	3,792

Total Extra Costs \$ **1,044,506**

AC

avg of low 3 lowest bidders

Miscellaneous Asphaltic Concrete to Place ZJ86	9.33
AC Pavement to Place WK16	5
Asphaltic Concrete to Remove and Replace ZJ31	3.4
Miscellaneous Asphaltic Concrete to Place ZJ91	6.91
Miscellaneous Asphaltic Concrete to Place ZJ51	6.33

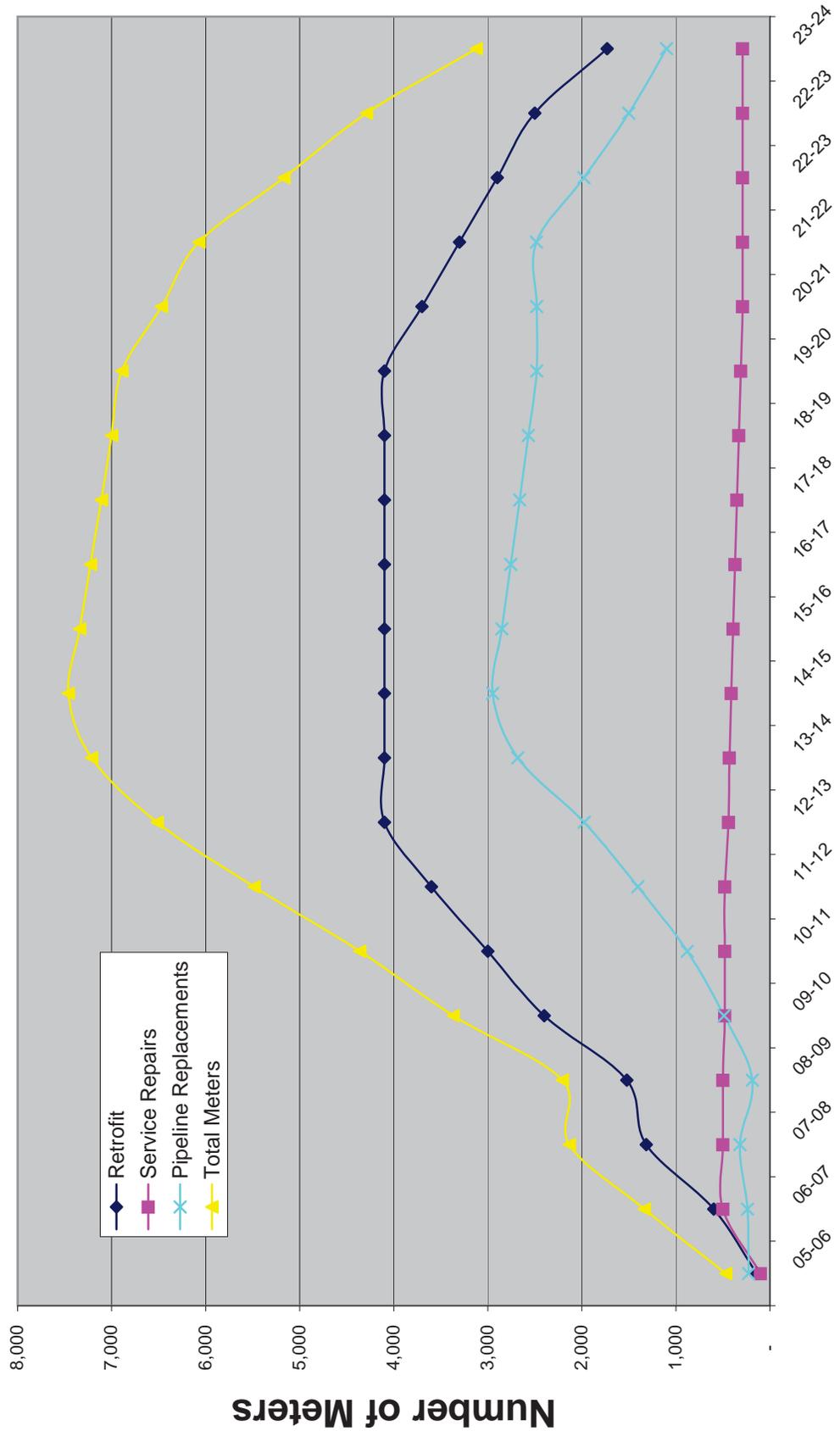
Conc

Concrete Driveways to construct WK16	7.33
Concrete to Remove and Replace ZJ31	3.5
Concrete, to Remove and Replace ZK51	10
Concrete, to Remove and Replace ZI71	6.33

Pavement Cutting

Kent@Vickers (3/15/06)
3x4 square overcuts okay = 14LF
25 per day 8hr day
\$1200/day
\$48/meter

Number of Meters per Year



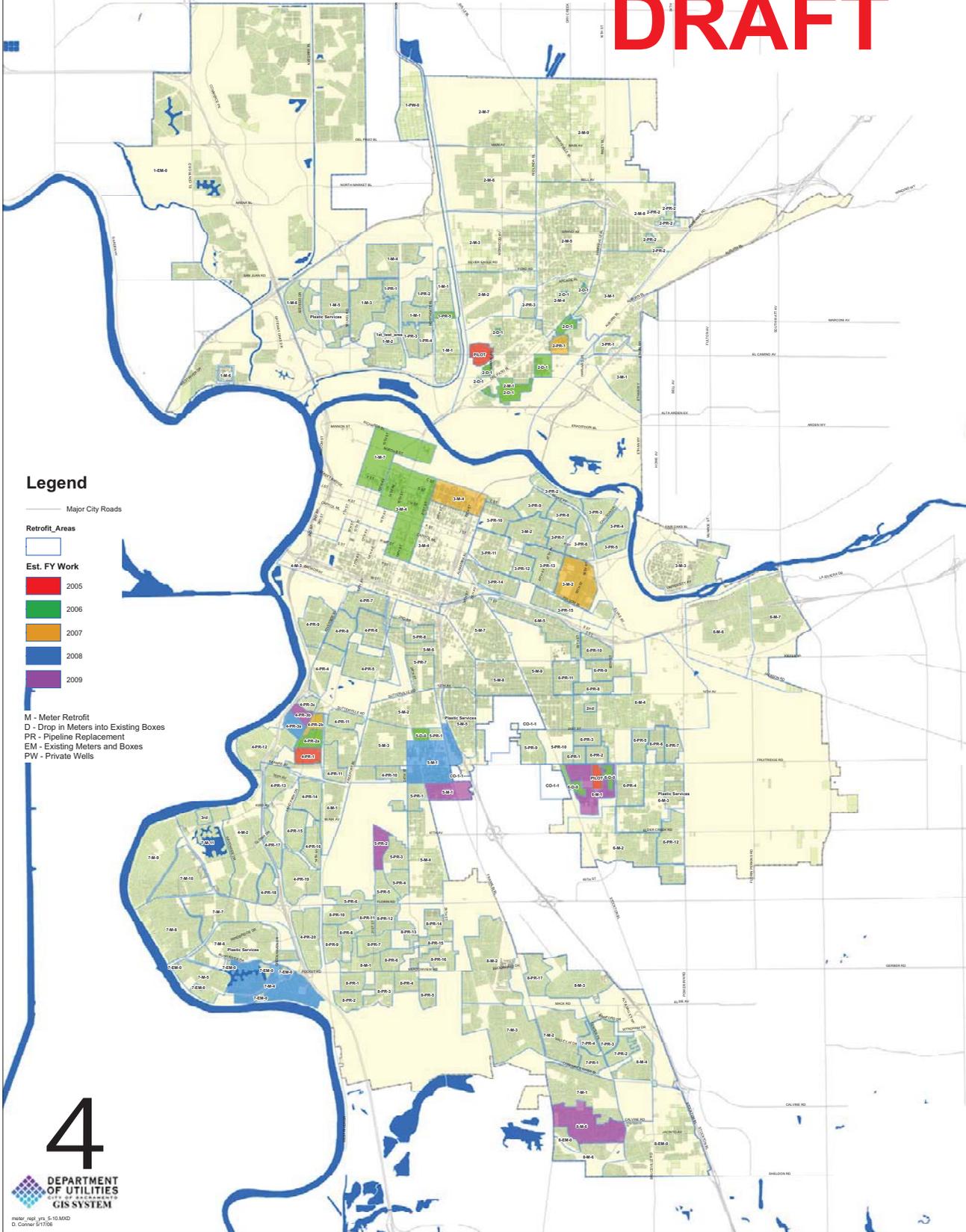
ID#	No of Services	Length of Pipe	Total Est. Cost	Est. FY of Work	Leaks	Leaks per 1000lf
4-PR-3	480	14,655	\$ 3,077,594	2007	43	2.93
4-PR-1	232	11,240	\$ 1,958,400	2005	24	2.14
4-PR-2	316	8,971	\$ 1,962,727	2006	18	2.01
2-PR-1	199	998	\$ 800,645	2007	2	2.00
3-PR-1	145	1,375	\$ 643,889	2023	2	1.45
4-PR-12	599	10,893	\$ 3,148,389	2016	15	1.38
4-PR-13	480	12,966	\$ 2,919,504	2017	11	0.85
3-PR-10	502	5,721	\$ 2,319,107	2014	4	0.70
3-PR-11	765	6,587	\$ 3,334,611	2016	4	0.61
8-PR-3	442	10,767	\$ 2,578,628	2008	6	0.56
5-PR-2	344	9,593	\$ 2,120,457	2012	5	0.52
3-PR-13	765	10,339	\$ 3,685,798	2018	5	0.48
1-PR-1	238	8,501	\$ 1,641,529	2019	4	0.47
4-PR-14	408	11,718	\$ 2,546,808	2018	5	0.43
4-PR-5	827	22,803	\$ 5,073,461	2014	9	0.39
8-PR-5	321	10,364	\$ 2,110,882	2010	4	0.39
8-PR-16	384	13,033	\$ 2,584,598	2021	5	0.38
4-PR-7	697	18,694	\$ 4,226,848	2011	7	0.37
5-PR-7	526	12,442	\$ 3,033,938	2017	4	0.32
7-PR-2	321	12,668	\$ 2,326,536	2010	4	0.32
4-PR-4	460	12,676	\$ 2,821,281	2008	4	0.32
6-PR-12	493	10,235	\$ 2,710,083	2008	3	0.29
7-PR-4	222	7,053	\$ 1,449,133	2008	2	0.28
8-PR-12	370	14,678	\$ 2,688,815	2017	4	0.27
5-PR-3	395	15,621	\$ 2,865,928	2011	4	0.26
3-PR-15	593	7,962	\$ 2,852,190	2020	2	0.25
6-PR-8	342	8,129	\$ 1,976,318	2018	2	0.25
8-PR-6	345	12,214	\$ 2,369,336	2011	3	0.25
6-PR-7	415	12,853	\$ 2,677,922	2016	3	0.23
6-PR-11	558	8,614	\$ 2,789,363	2021	2	0.23
8-PR-11	344	13,162	\$ 2,454,515	2016	3	0.23
6-PR-5	450	13,280	\$ 2,842,277	2014	3	0.23
1-PR-3	335	13,767	\$ 2,479,158	2023	3	0.22
3-PR-3	441	14,230	\$ 2,898,814	2007	3	0.21
6-PR-2	280	9,681	\$ 1,901,242	2012	2	0.21
5-PR-10	172	4,847	\$ 1,064,955	2024	1	0.21

JAN	SAN FRAN	20 CITIES	AVERAGE	% CHG	EFF FY	Inflation Factor
1992	6,220.71	4,885.03	5,552.87		1992/93	1.00
1993	6,293.15	5,070.66	5,681.91	2.3%	1993/94	1.00
1994	6,488.51	5,335.81	5,912.16	4.1%	1994/95	1.00
1995	6,524.91	5,443.14	5,984.03	1.2%	1995/96	1.00
1996	6,546.74	5,523.13	6,034.94	0.9%	1996/97	1.00
1997	6,548.86	5,751.41	6,150.14	1.9%	1997/98	1.00
1998	6,731.08	5,851.80	6,291.44	2.3%	1998/99	1.00
1999	6,845.59	5,999.63	6,422.61	2.1%	1999/00	1.00
2000	6,817.24	6,130.36	6,473.80	0.8%	2000/01	1.00
2001	7,447.99	6,280.85	6,864.42	6.0%	2001/02	1.00
2002	7,675.93	6,461.81	7,068.87	3.0%	2002/03	1.00
2003	7,820.71	6,640.06	7,230.39	2.3%	2003/04	1.00
2004	7,786.30	6,824.90	7,305.60	1.0%	2004/05	1.00
2005/06	8,229.62	7,297.24	7,763.43	6.3%	2005/06	106%
2006/07	8,468.45	7,660.00	8,064.23	3.7%	2006/07	110%
2007/08		AVG 5 YR		3.7%	2007/08	114%
2008/09		AVG 5 YR		3.7%		119%
2009/10		AVG 5 YR		3.7%		123%
2010/11		AVG ALL YR		2.6%		126%
2011/12		AVG ALL YR		2.6%		130%
2012/13		AVG ALL YR		2.6%		133%
2013/14		AVG ALL YR		2.6%		136%
2014/15		AVG ALL YR		2.6%		140%
2015/16		AVG ALL YR		2.6%		144%
2016/17		AVG ALL YR		2.6%		147%
2017/18		AVG ALL YR		2.6%		151%
2018/19		AVG ALL YR		2.6%		155%
2019/20		AVG ALL YR		2.6%		159%
2020/21		AVG ALL YR		2.6%		164%
2021/22		AVG ALL YR		2.6%		168%
2022/23		AVG ALL YR		2.6%		172%
2023/24		AVG ALL YR		2.6%		177%
2024/25		AVG ALL YR		2.6%		181%
2025/26		AVG ALL YR		2.6%		186%

3.7% AVG 5 YR (2001-2005)
2.7% AVG 10 YR
2.6% AVG ALL YR

METER RETROFIT - IMPLEMENTATION YEARS 2005-2009

DRAFT



Legend

Major City Roads

Retrofit_Areas

Est. FY Work

- 2005
- 2006
- 2007
- 2008
- 2009

- M - Meter Retrofit
- D - Drop in Meters into Existing Boxes
- PR - Pipeline Replacement
- EM - Existing Meters and Boxes
- PW - Private Wells

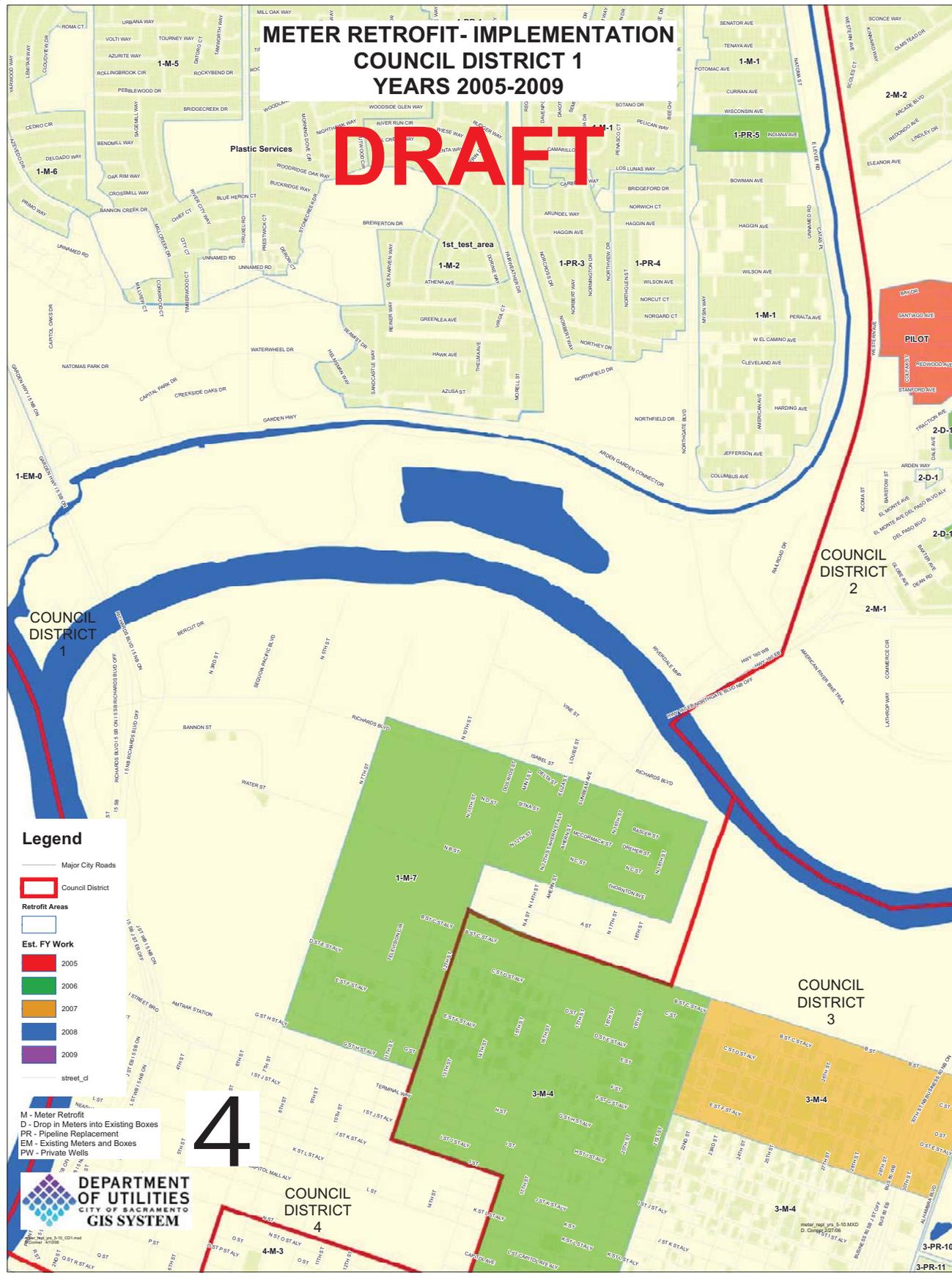
4

DEPARTMENT
OF UTILITIES
GIS SYSTEM

meter.mxd, vrs, 5-10-09
D. Corner 5/17/06

METER RETROFIT- IMPLEMENTATION COUNCIL DISTRICT 1 YEARS 2005-2009

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Legend

- Major City Roads
- Council District
- Retrofit Areas
- Est. FY Work
 - 2005
 - 2006
 - 2007
 - 2008
 - 2009
- street_cd

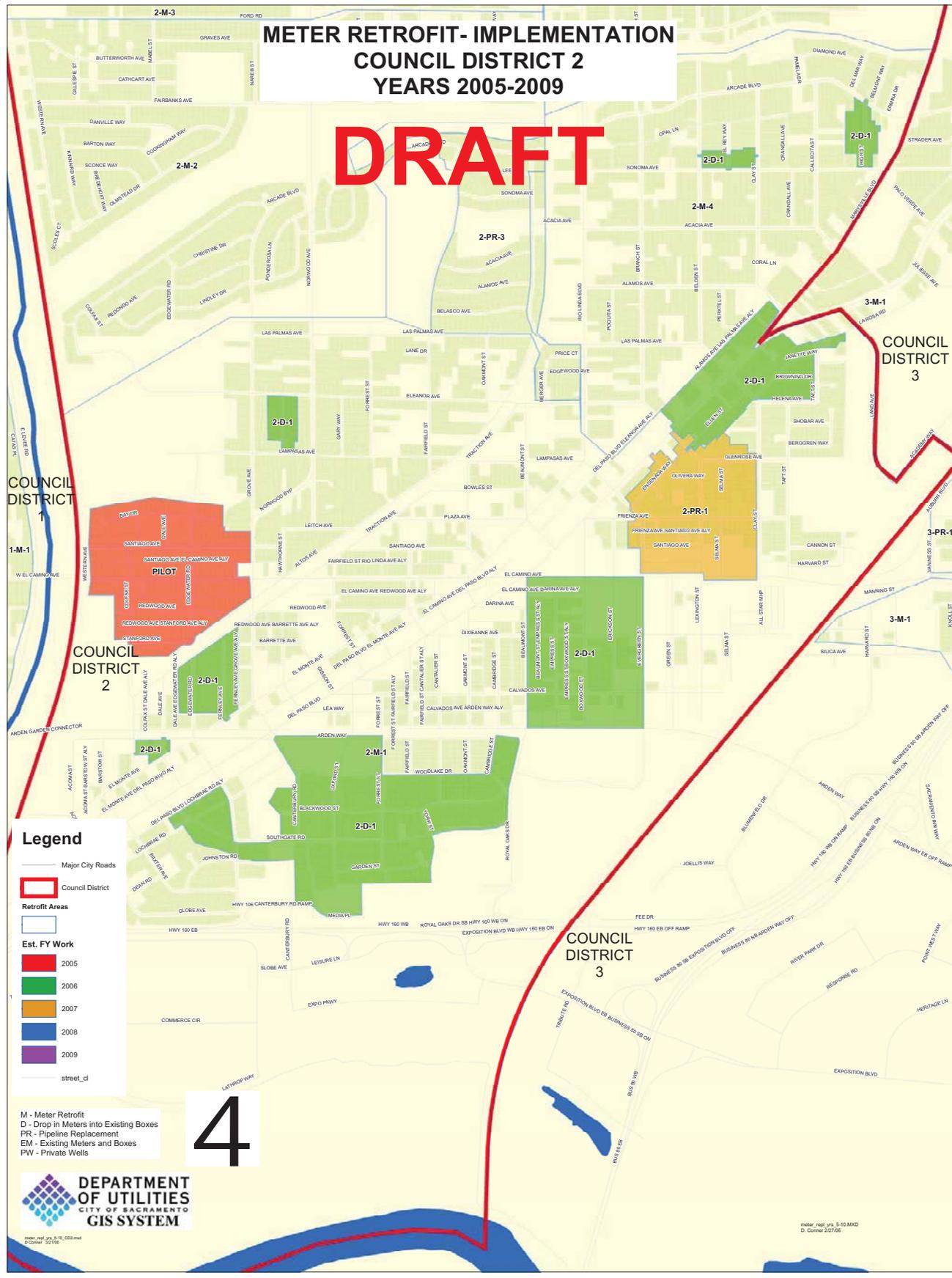
- M - Meter Retrofit
- D - Drop in Meters into Existing Boxes
- PR - Pipeline Replacement
- EM - Existing Meters and Boxes
- PW - Private Wells

4

DEPARTMENT OF UTILITIES
CITY OF SACRAMENTO
GIS SYSTEM

METER RETROFIT- IMPLEMENTATION COUNCIL DISTRICT 2 YEARS 2005-2009

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Legend

- Major City Roads
- Council District
- Retrofit Areas
- Est. FY Work
 - 2005
 - 2006
 - 2007
 - 2008
 - 2009
- street_cd

M - Meter Retrofit
 D - Drop in Meters into Existing Boxes
 PR - Pipeline Replacement
 EM - Existing Meters and Boxes
 PW - Private Wells

4



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 5/10/2009 10:15:06

METER RETROFIT- IMPLEMENTATION COUNCIL DISTRICT 3 YEARS 2005-2009

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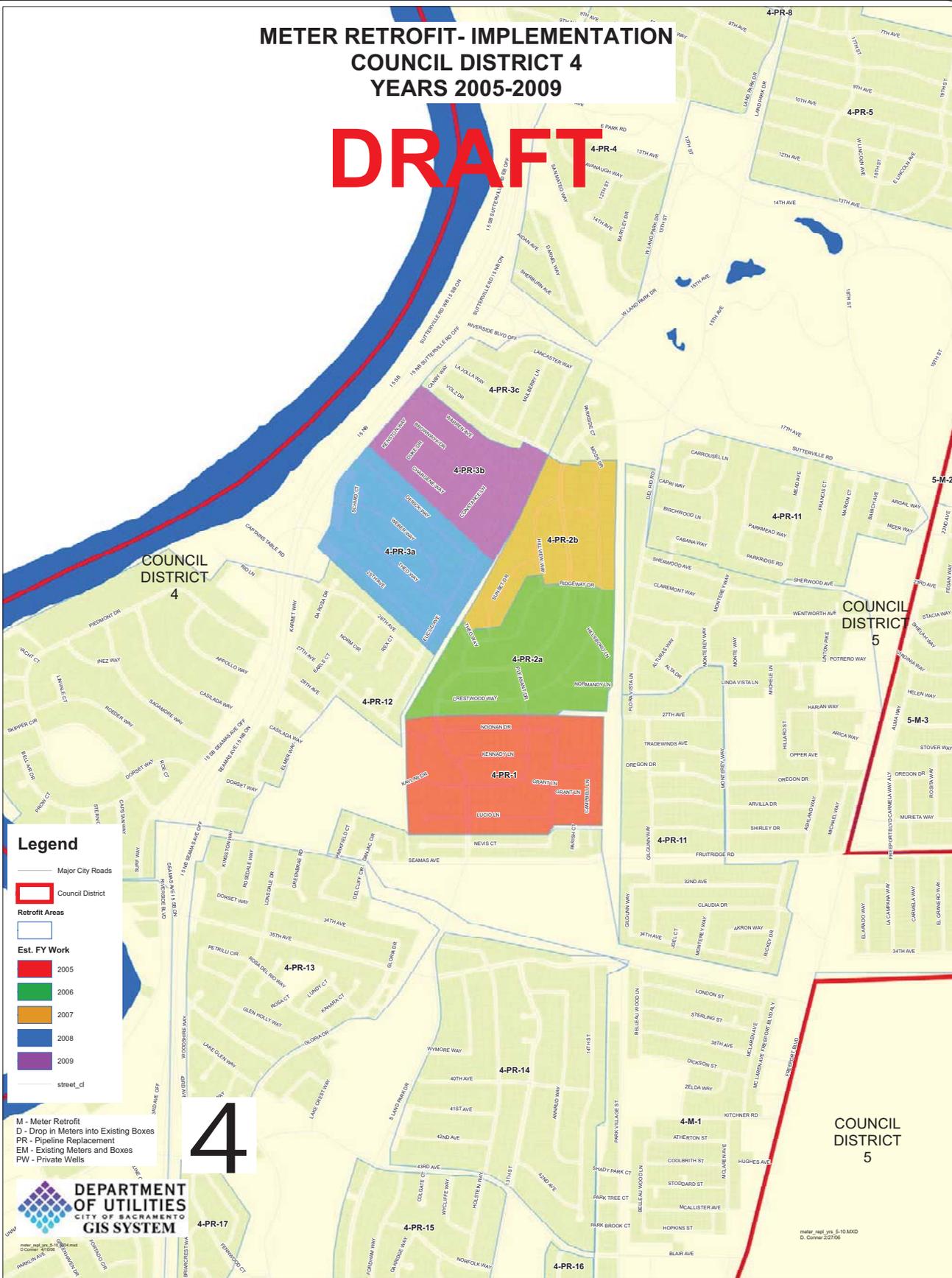
- Major City Roads
- Council District
- Retrofit Areas**
- Est. FY Work
- 2005
- 2006
- 2007
- 2008
- 2009
- street_id
- M - Meter Retrofit
- D - Drop in Meters into Existing Boxes
- PR - Pipeline Replacement
- EM - Existing Meters and Boxes
- PW - Private Wells

**DEPARTMENT OF UTILITIES
CITY OF SACRAMENTO
GIS SYSTEM**

4

METER RETROFIT - IMPLEMENTATION COUNCIL DISTRICT 4 YEARS 2005-2009

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Legend

- Major City Roads
- Council District
- Retrofit Areas
- Est. FY Work
 - 2005
 - 2006
 - 2007
 - 2008
 - 2009
- street_cl

M - Meter Retrofit
 D - Drop in Meters into Existing Boxes
 PR - Pipeline Replacement
 EM - Existing Meters and Boxes
 PW - Private Wells

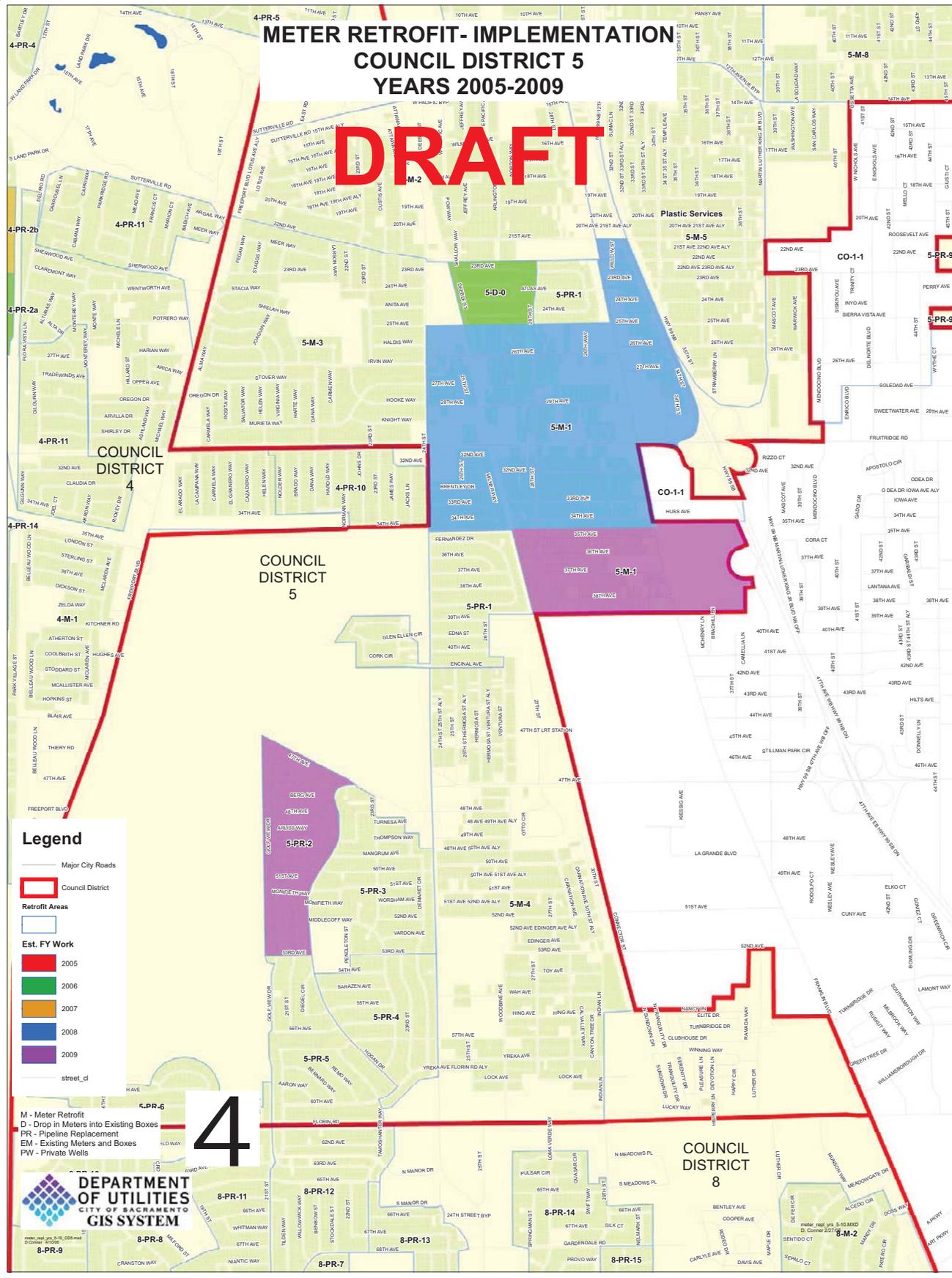
4

DEPARTMENT OF UTILITIES
CITY OF SACRAMENTO
GIS SYSTEM

Appendix D2
Council District Map

METER RETROFIT- IMPLEMENTATION COUNCIL DISTRICT 5 YEARS 2005-2009

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Legend

- Major City Roads
- Council District
- Retrofit Areas**
- 2005
- 2006
- 2007
- 2008
- 2009
- street_id

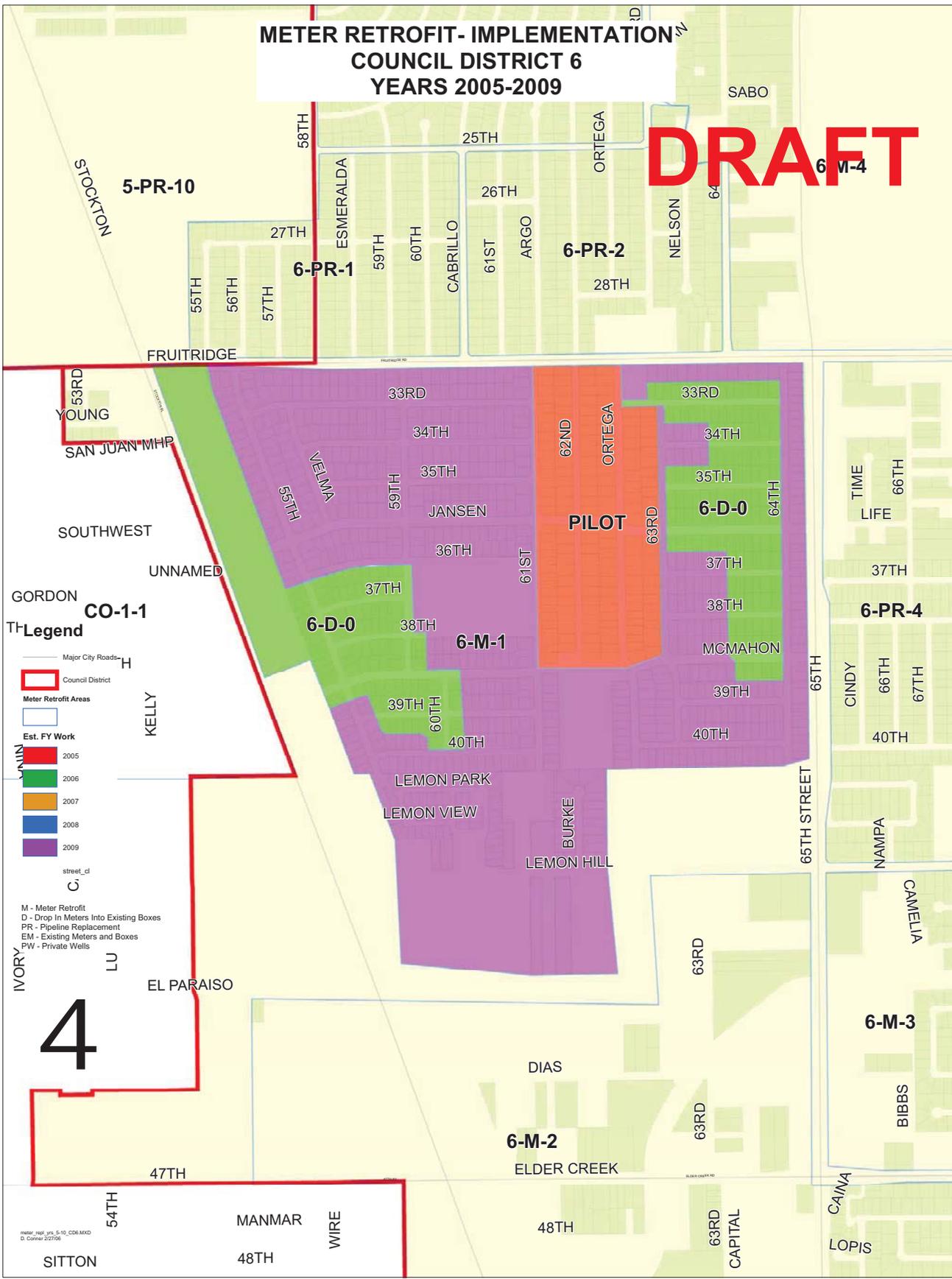
- M - Meter Retrofit
- D - Drop in Meters into Existing Boxes
- PR - Pipeline Replacement
- EM - Existing Meters and Boxes
- PW - Private Wells



4

**METER RETROFIT- IMPLEMENTATION
COUNCIL DISTRICT 6
YEARS 2005-2009**

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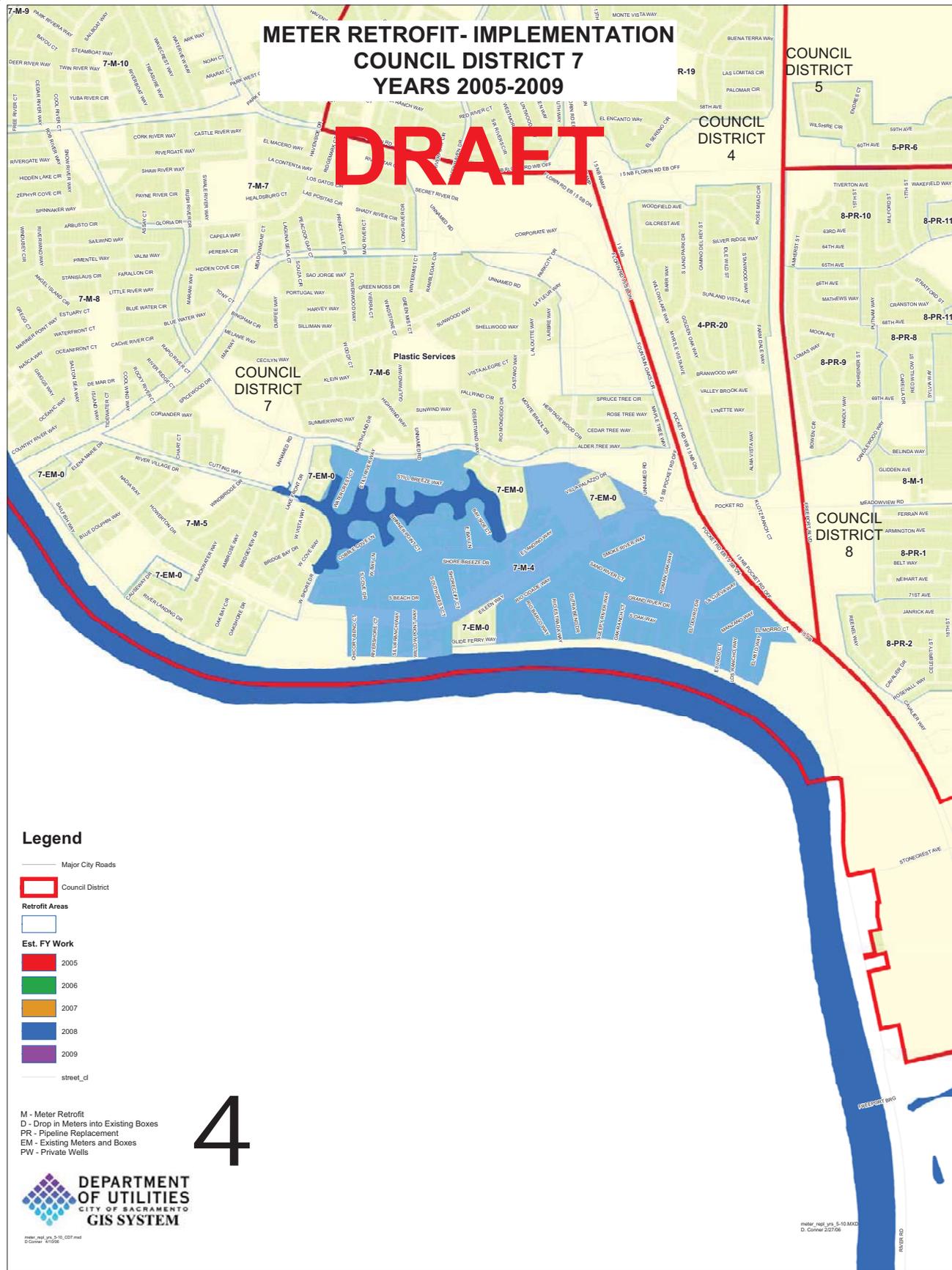
- Major City Roads
- Council District
- Meter Retrofit Areas
- Est. FY Work
 - 2005
 - 2006
 - 2007
 - 2008
 - 2009
- street_cl
- M - Meter Retrofit
- D - Drop In Meters Into Existing Boxes
- PR - Pipeline Replacement
- EM - Existing Meters and Boxes
- PW - Private Walls

4

meter_ret_yns_5-10_CD6.MXD
D. Colver 2/27/08

METER RETROFIT- IMPLEMENTATION COUNCIL DISTRICT 7 YEARS 2005-2009

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Legend

- Major City Roads
- Council District
- Retrofit Areas**
- Est. FY Work
- 2005
- 2006
- 2007
- 2008
- 2009
- street_cd

M - Meter Retrofit
 D - Drop in Meters into Existing Boxes
 PR - Pipeline Replacement
 EM - Existing Meters and Boxes
 PW - Private Wells

4

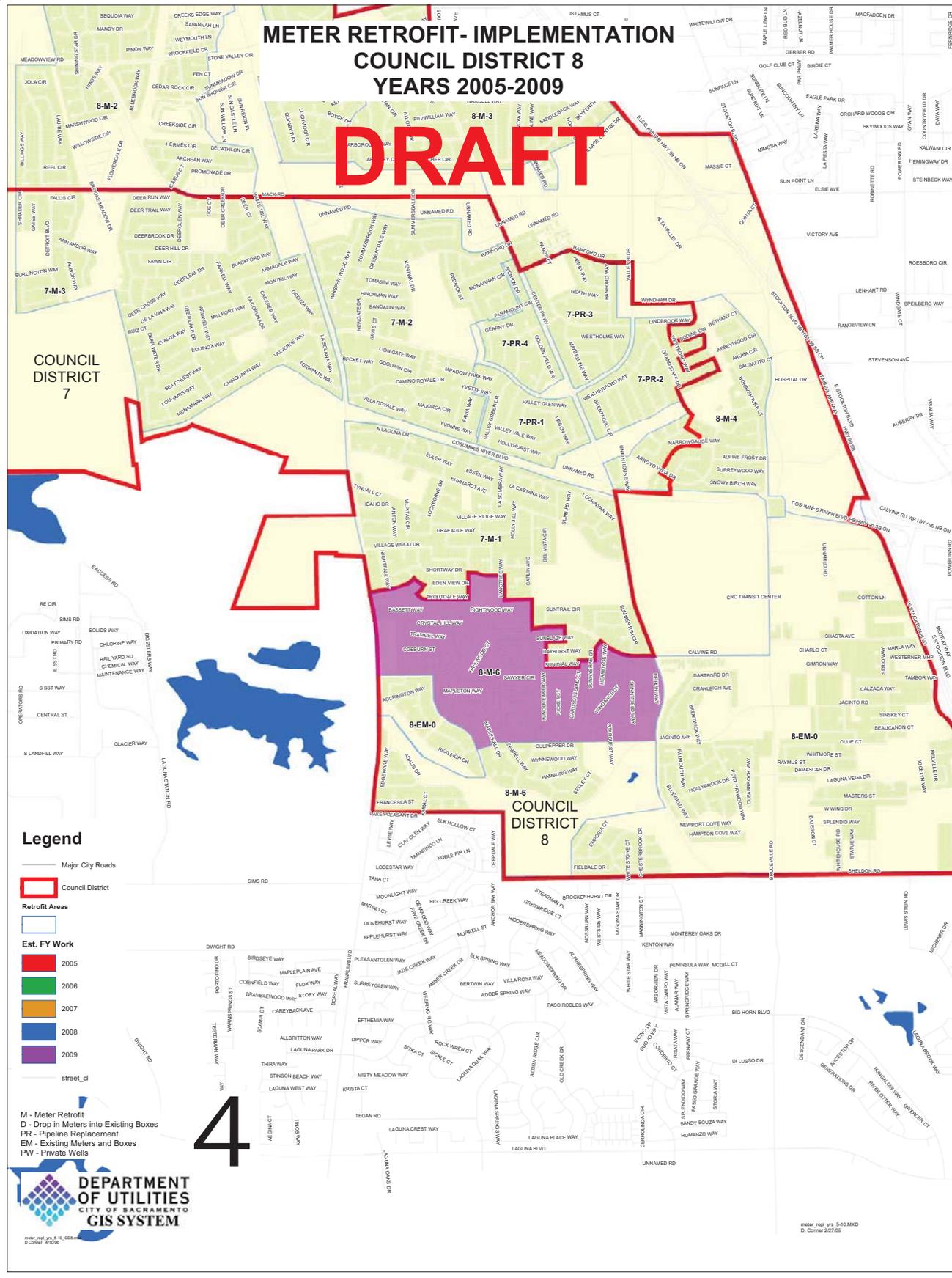


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 10/20/09 10:05am

meter_refit_05_10_007.mxd
 10/20/09 10:05am

METER RETROFIT- IMPLEMENTATION COUNCIL DISTRICT 8 YEARS 2005-2009

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COUNCIL DISTRICT 7

COUNCIL DISTRICT 8

Legend

Major City Roads

Council District

Retrofit Areas

Est. FY Work

2005

2006

2007

2008

2009

street_id

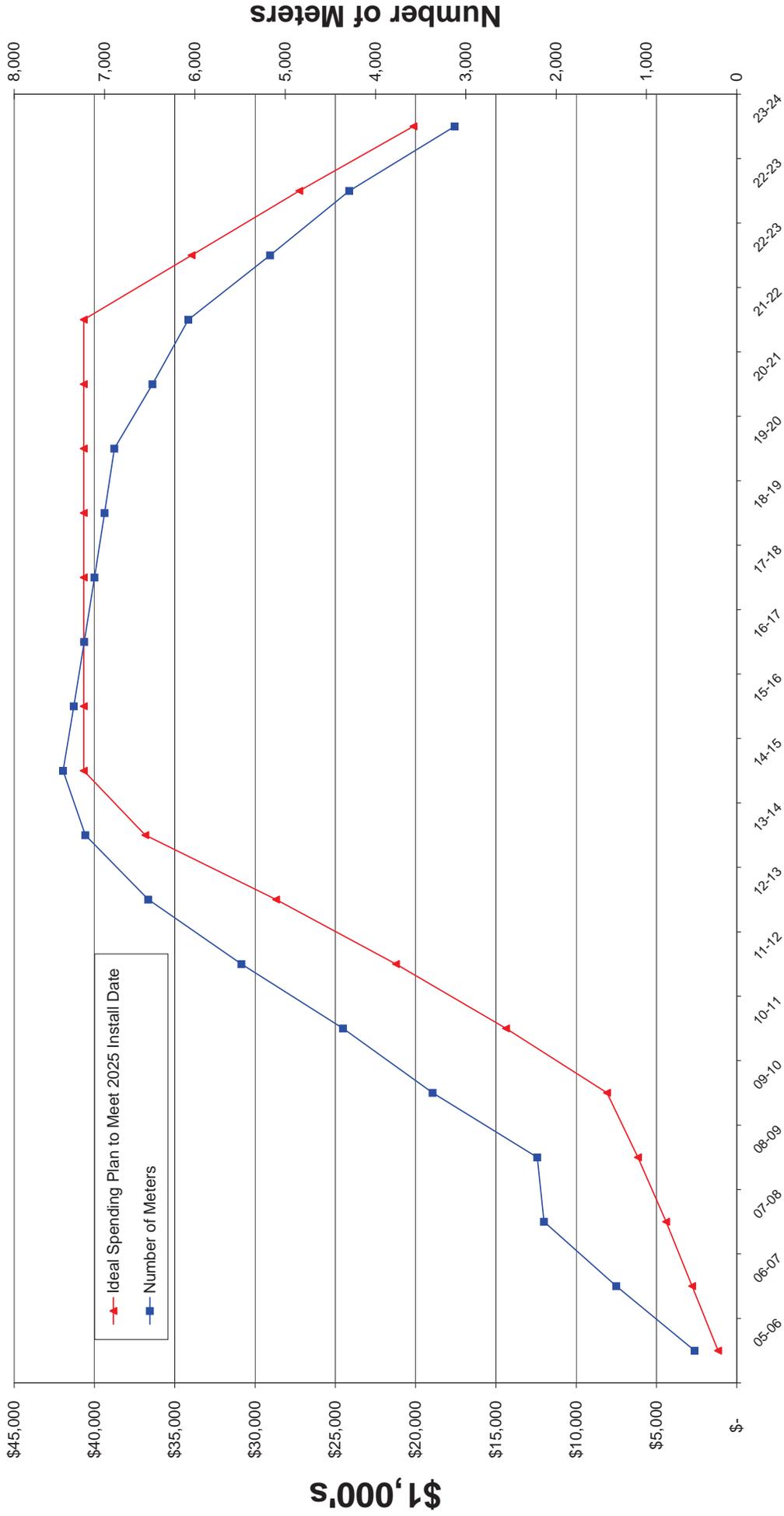
M - Meter Retrofit
D - Drop in Meters into Existing Boxes
PR - Pipeline Replacement
EM - Existing Meters and Boxes
PW - Private Wells



4

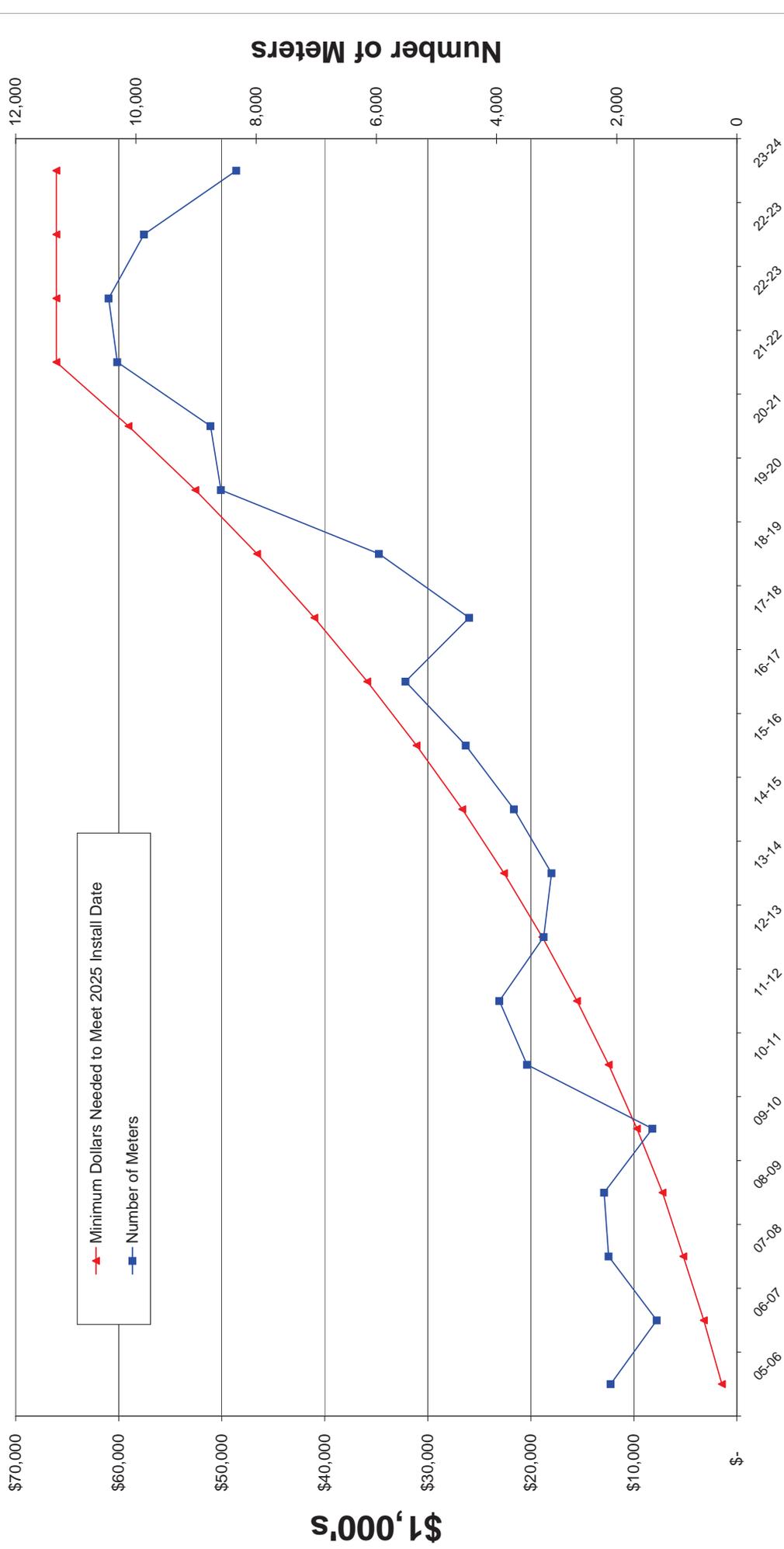
map_766_jys_5-10-MXD
D. Gower 2/27/08

Residential Retrofit Program 20 Year Plan 1



Fiscal Year

Residential Retrofit Program 20 Year Plan 2



Fiscal Year

Appendix E

Ultimate Plan

Appendix F

Public Outreach Activities

**City of Sacramento Metering Program
Woodlake Neighborhood Association Presentation
October 4, 2006**

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Project Member Attendance: Jessica Hess, Michael Malone, Schaelene Rollins
Woodlake members – 18 in total

Jessica Hess provided an overview about the water metering program and explained the process for meter retrofits and drops in the Woodlake area. Many questions followed the presentation.

Q.	Will meters be installed in October? When will metered rates begin?
A.	Meter installation will start in October. Metered rates will go into effect 2010. All residents will receive comparative billing so that they are aware of how much they can anticipate paying when on a metered rate.
Q.	Will we be billed for the meter box?
A.	The cost for the meter implementation program is factored into your water bill. It is considered part of the city's capital improvement project and therefore, all residents pay the same amount through their flat rate water bill.
Q.	If we previously had a water meter when we were part of North Sacramento in the 1960s and it was removed, do we receive a credit since we already in a sense paid for a meter?
A.	No. The meters being installed now are up-to-date and will be the same throughout the city.
Q.	How does the radio read work?
A.	Michael Malone explained in detail how the transmitter worked. The transmitter reads the meter through radio signals. The information is collected electronically via computer and transferred to the city's billing system.
Q.	How long does the meter's battery system last?
A.	The battery life is about 15 years.
Q.	If my neighbor's meter box is close to mine will it interfere with my meter read?
A.	Each signal is unique to each meter connected to the homes and therefore, the proximity to other meters will not cause interference.
Q.	Will the radio pulse interfere with other home electronics?
A.	No, it should not cause interference.
Q.	What if I think my reading was wrong, that it was too high for the amount of water that I used?
A.	The city's billing department will establish high and low reads based on each individual's typical usage. If the meter read falls above or below the set high/low reads for that household, then the read will be flagged and the meter manually read to ensure

1. The first part of the document is a list of names and addresses of the members of the committee.

2. The second part of the document is a list of the names and addresses of the members of the committee who have been elected to the office of Chairman.

3. The third part of the document is a list of the names and addresses of the members of the committee who have been elected to the office of Secretary.

4. The fourth part of the document is a list of the names and addresses of the members of the committee who have been elected to the office of Treasurer.

5. The fifth part of the document is a list of the names and addresses of the members of the committee who have been elected to the office of Auditor.

6. The sixth part of the document is a list of the names and addresses of the members of the committee who have been elected to the office of Assessor.

7. The seventh part of the document is a list of the names and addresses of the members of the committee who have been elected to the office of Collector.

	accuracy. If there is ever a question about your read, you can call and request for someone from the City to come read your meter.
Q.	Have you encountered problems tapping into old lines?
A.	We have retrofitted most of the old service lines in this area so there should not be any problems installing the meter.
Q.	My concrete driveway extends over the easement on my property. Will the cement need to be broken up to access my line?
A.	Until we see the property, it is hard to determine what will need to be done. However, the city will leave your property in the same condition found prior to beginning work.
Q.	A lot of property owners have old, smaller meter boxes. Will they need to be replaced?
A.	Yes. If the boxes are undersized to fit the meter, then the boxes will be replaced.
Q.	Will we be able to read our meters?
A.	No. City Council decided to have the meters installed in the sidewalks in all areas of the city that do not currently have meter boxes installed. Because of this, the meters selected do not have lids that can be lifted due to safety reasons. The lids could create trip hazards in the sidewalk or could break off leaving the meter exposed. The City's water conservation staff is available to come to your property and read your meter at your request.
Q.	Will the metered water bill be the same amount as our sewer bill?
A.	No. Sewer rates are based on a flat rate. Metered water rates will be based on usage.
Q.	Will residents pay the same rate for water usage?
A.	Residents will pay for the amount of water they use. The calculations used to determine the amount to be paid are the same for all City customers.
Q.	Are there programs to help us monitor and possibly reduce our water usage?
A.	Yes. The City's water conservation staff will come to your home and conduct a water wise house call. This free service will provide suggestions about how to use water efficiently and reduce water waste.
Q.	Do we have water shut-off capability?
A.	City staff will need to be contacted to shut off your water.
Q.	If I need to wait for someone from the City to turn off my water, how long can I expect to wait?
A.	The City has a quick response time. In an emergency situation, the City operator (a 24/7 service) contacts the on-call City crew. The crew is typically onsite within one hour of an emergency.

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	The City also has a swing shift crew that works until 9 p.m. This allows for extra hours each day to provide normal services, including requested water shut-offs.
Q.	I have galvanized pipe, which makes simple plumbing jobs challenging and requires the water to be shut off. How can I conduct basic household plumbing maintenance, such as changing a faucet, when I first have to call the City to have my water shut off?
A.	The City can help a homeowner find the line so that the homeowner can install a valve for external shut-off.
Q.	How can we be prevented from turning off water in an emergency situation such as a flood or if the pipes freeze? How to turn off utilities in an emergency is what the fire departments and emergency services tell us to know how to do.
A.	Your concerns are valid and will be taken back to our team for consideration. We are still in the early phases of this program. All neighborhoods are different and unique and we appreciate having your feedback.
Q.	Were neighborhood groups given the opportunity to provide input during the planning process?
A.	Because meters were mandated, the City Council provided direction as the advocates for their representative communities.
	<p>Comments: A few Woodlake representatives expressed great concern over two main issues: not being able to shut off their water and second, not being able to independently read their meter.</p> <p>As the meeting concluded, attendees also expressed concern that they had not heard about the metering program from their council member. This meeting was the first time they were made aware that they would be receiving meters. NOTE: Some did recall receiving a letter about the timing of meter installation.</p>

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City of Sacramento Department of Utilities

Meter Implementation Program

Public Outreach Plan

FINAL - June 17, 2005

I. Introduction

The city of Sacramento is embarking upon a 20-year effort to transition its customers to metered water rates. The city charter has historically exempted Sacramento from metering, but a new statewide mandate dictates that all customers will have water meters and be transitioned to a metered rate by 2025. The city will need to implement an ambitious meter retrofit program and new metered-rate structure to meet its requirement.

Department of Utilities staff is currently finalizing the implementation plan, which will outline a master installation and retrofit schedule for each of the city's eight council districts over the next two decades. The plan is being designed based on three main criteria, which work to minimize overall costs and impact to the community:

- ◆ Replacing old water pipelines.
- ◆ Spreading projects in areas throughout the city (not just focusing on one area at a time).
- ◆ Continuing to add new meter installation projects that are adjacent to completed projects.

Lucy & Company, the public outreach consulting firm retained by the city, conducted research on behalf of the city of Sacramento Department of Utilities with residential water customers and community leaders to capture feelings about the advent of water metering in Sacramento. Recognizing the value of educating its customers about the transition, the city of Sacramento has taken a proactive approach by developing a strategic public outreach plan to help guide the process.

The city of Sacramento Department of Utilities has taken a research-based approach to public outreach by collecting an effective mix of quantitative data and qualitative feedback from its customers about their metering-related attitudes and conservation behavior. Such primary research will be instrumental in developing an effective implementation plan and public education program.

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II. Research Summaries

Telephone Survey – Executive Summary

In order to fulfill the three criteria above, the city of Sacramento conducted a telephone survey among its residents. The primary purpose of the study was to capture residents' feelings about the advent of water metering in the City of Sacramento.

Methodology

The findings are based upon the results of a telephone survey conducted in December 2004 under the direction of Lucy & Company, a local public outreach firm specializing in water issues. An initial sample of 400 residents of Sacramento was interviewed via Department of Utilities' customer lists. The customers completed a questionnaire that focused on metering implementation, public education, conservation services, motivation factors and customer concerns. Up to 50 additional interviews were completed with both Asian and Hispanic respondents in order to increase the statistical significance of their responses and aid in independent analysis of their results.

Findings Overview

The following summarizes the key findings from the qualitative survey.

Customers' Reactions to Impending Metering – Sacramento Metering Awareness

- ◆ Just under two in five respondents were aware in an unaided format that metering is coming to Sacramento by 2025.
- ◆ Nearly one-quarter claimed to have heard nothing about water metering and the City of Sacramento.

Attitudes toward Impending Metering

- ◆ Almost three in five respondents expressed negative reactions to the onset of metering in Sacramento (nearly half expressed very negative reactions). One-quarter had positive reactions.
- ◆ Negative metering reactions were largely a function of cost concerns, with negatively-disposed respondents suggesting that they believed they would have to pay more under metered rates (30 percent). Thirteen percent did not want to pay for meter installation or wondered who would pay for meter installation.
- ◆ About one in five of those negatively-disposed said they did not see the benefit of metering.
- ◆ Those positively disposed toward metering overwhelmingly cited (71 percent) the reduction of water use/water conservation as a reason for their positive reactions. 14 percent find metering fair and equitable due to its pay-by-usage nature.
- ◆ Respondents neutral on metering mentioned cost issues and not thinking that metering would affect them as the primary reasons for their neutral ratings.
- ◆ Concerns for all of the respondents, regardless of their feelings about metering, were primarily cost-related, with over two in five anticipating a higher water bill. To a much lesser degree, they wanted to know who would pay for meter installation. **Only about one in five said they had no concerns about the advent of metering.**

Intended Water Conservation Practices as a Response to Metering

- ◆ Respondents indicated that they would not take substantial action to implement water conservation measures as a result of the onset of metering; on the contrary, about one-quarter each said they would do nothing/just deal with it or that they did not know what they would do.

- ◆ The most commonly-mentioned action was vague, “be more aware of the need to conserve water” (14 percent).
- ◆ Only small percentages intended to take tangible actions. The most frequently-cited action “plant more water-efficient plants,” was noted by five percent.

Water Metering Message Testing

Four statements about water metering were read to the respondents. They were asked to rank the statements based on their level of agreement with each.

- ◆ Among the four messages, the one meriting the highest level of agreement from respondents was “Water metering in Sacramento will encourage water conservation,” with 64 percent agreeing with the message.

Preferred Sources for Receiving Information

- ◆ When looking to media sources for information about water metering, respondents preferred the *Sacramento Bee* to other media – it was mentioned by about half of respondents. Over one-quarter mentioned TV news and about one in 10 cited radio news or online news sites.
- ◆ About one-quarter of these water customers would prefer inserts in their water bills as a non-media source of receiving metering information. Almost one in five mentioned the Department of Utilities’ customer newsletter *Water Spots*, making it the second-most popular non-media information source.
- ◆ When asked about methods of reviewing metering-related information, the highest percentage claimed that they’d be likely to read a letter mailed to them in a Department of Utilities envelope (85 percent). A postcard mailed to them garnered the second-highest readership likelihood by just a few percentage points. Also highly likely to be read would be a mailed flyer and an insert in their water bill. A considerably lower percentage said that they’d be likely to read an ad in the newspaper.
- ◆ Water-bill inserts would be the most popular method for notifying customers about water-related public meetings or workshops.

Water Conservation Attitudes and Behavior – Conservation Information Sources

- ◆ Respondents’ primary source of information on water conservation is written materials from the City of Sacramento Department of Utilities, relied upon by over half of respondents. Between one-quarter and one-third said they rely on other written publications: home and garden publications; nurseries/landscaping businesses; or home and garden TV shows.
 - Asian and Hispanic respondents both rely upon home and garden TV shows second-most frequently (behind the *Bee*).
- ◆ Nearly one-half said they do not look for information about water conservation.
- ◆ The most trustworthy source for water conservation information (among three sources evaluated) would be a water conservation expert.

Conservation-Related Message Testing

- ◆ Almost two-thirds agreed with the conservation-related statement “the City of Sacramento needs to conserve water” and about half again as many as agreed with “water meters will reduce overall water consumption in Sacramento.”

Water-Wise House Calls/Other Conservation Services

- ◆ Respondents' awareness of free water conservation services offered by the Department of Utilities was fairly low. Thirty percent claimed awareness of free water efficiency kits, 23 percent the toilet rebate program, and 18 percent Water-Wise House Calls.
- ◆ However, nearly half said they would be likely to request one or more of the free water conservation services knowing that metering is coming to Sacramento.
- ◆ The top two means of informing respondents about a free Water-Wise House Call were an article in a newsletter (21 percent) and a door-to-door visit by a water conservation specialist (16 percent).
- ◆ The most influential message promoting Water-Wise House Calls (among four tested) was "a free Water-Wise House Call would locate potential leaks, both indoors and outdoors."
- ◆ No clear preference emerged for either "water conservation" and "water efficiency" as the best term for communicating the concept of saving water; the former was slightly preferred to the latter.
 - Hispanic respondents and those negatively-disposed to metering both considered "water efficiency" the better term by 12-14 percent over "water conservation."

Respondents' Final Survey Comments

- ◆ In an open-ended respondent opportunity at the end of the survey to express any final questions or comments, the most common response – albeit by only nine percent of respondents – was an opposition to metering.

Findings Significantly Different for Asian and Hispanic Respondents

Following are the survey findings for which either (or both of) Asian or Hispanic respondents significantly differed from each other or from Caucasian respondents. It should be noted that in many of these cases, the significant differences are not pronounced enough to create outreach to these ethnic groups different from that developed for the customer base as a whole. The rare cases where differences are pronounced are noted in the full the report.

- ◆ Asian respondents said that they had not heard anything about metering more often than Caucasian or Hispanic respondents.
- ◆ The percentage of Asian respondents who feel very negative about metering coming to Sacramento was less than that of Caucasian respondents.
- ◆ Asian respondents expressed no concerns about the onset of metering more frequently than Caucasian respondents.
- ◆ Hispanic respondents mentioned an inability to afford metered rates due to fixed incomes as a metering-related concern more frequently than did Asian respondents.
- ◆ Hispanic respondents said they would be more aware of the need to conserve in response to the onset of metering more frequently than Caucasians.
- ◆ Hispanic respondents would prefer to learn metering information via radio news more than Asian respondents.
- ◆ Hispanic respondents would prefer to receive metering information from the Sacramento City Council more than Asian respondents.
- ◆ Hispanic respondents would be more likely than Asian respondents to read a metering-related postcard mailed to them.
- ◆ Both Asian and Hispanic respondents would be more likely to read an ad in the newspaper than would Caucasian respondents.

- ◆ Hispanic respondents would rely on door-to-door visits from water conservation experts more than Asian respondents would for information on water conservation.
- ◆ Hispanic respondents considered City of Sacramento Department of Utilities staffers very trustworthy more often than Asian respondents did.
- ◆ Conversely, Asian respondents would trust a respected community member or leader more than Hispanic respondents.
- ◆ Hispanic respondents would be less likely to request free water conservation services from the city than would Asian respondents.

Conclusions and Recommendations

- ◆ Negatively-disposed respondents were primarily concerned about the cost of metering, and a noticeable percentage also failed to see the benefits of it. Many of them intended to take no action as a result the advent of metering. **These customers should be provided ample information about means of reducing their water usage – and be offered hands-on assistance in doing so.**
- ◆ Even many respondents with positive feelings about metering didn't appear to have solid ideas about what to do as a result of the arrival of metering; this is borne out by the low percentage of all respondents who named demonstrable actions they planned to take due to the onset of metering. In addition, nearly half claimed that they don't look for conservation-related information. **It is imperative that all respondents have widely-available, easily-attainable sources of conservation information with a variety of tools for implementing water-saving changes.**
- ◆ Work to obtain articles in the *Sacramento Bee* as an avenue for communicating metering information since many respondents rely on it.
- ◆ Avoid spending on newspaper ads for communicating metering and conservation information. Customers would be less likely to read them and also rely on them to a much lesser degree than they do newspaper articles (at least for the *Bee*).
- ◆ Develop water bill inserts informing customers of metering-related issues, including public meetings and workshops. **This type of collateral was positively-mentioned for several information-dissemination questions.**
- ◆ Use water conservation experts as spokespersons for conservation; they engendered the highest level of trust among respondents. However, the cost of having them make door-to-door visits might exceed the incremental benefit; less expensive alternatives that are already heavily relied-upon, such as the Department of Utilities' *Water Spots* publication, would likely be more cost-effective.
- ◆ Given that half of negatively-disposed respondents agreed with the conservation message "The City of Sacramento needs to conserve water," as did two-thirds of all respondents, outreach emphasizing this message should be considered. **Further conservation messages should also be developed in order to try to find one more agreeable to those negatively-disposed and be tested in the focus group research.**
- ◆ There are many opportunities to increase customers' awareness of the free water conservation services offered by the Department of Utilities. Given that about half of the respondents said they would request one or more of them, the information sources (*Sacramento Bee* articles, *Water Spots* articles, insert in water bills) should include contact numbers, Web addresses, and email addresses to make it easy for customers to contact the Department of Utilities to make such requests.

- ◆ The message “A free Water-Wise House Call would locate potential leaks, both indoors and outdoors”— while influential with about more than half the respondents – is the strongest motivator to attract customers’ attention and get them to schedule a Water-Wise House Call.
- ◆ There was no decisive winner between “water conservation” and “water efficiency” in communicating the concept of saving water. Given that those negatively-disposed to metering and Hispanic respondents preferred the latter; outreach directed to these groups may have a somewhat better breakthrough if the term “water efficiency” is used.

Focus Groups – Executive Summary

To obtain qualitative feedback from affected residents and community, the Department of Utilities conducted four focus groups.

Focus groups were held based on a recommendation from the city council. Objectives of the focus groups were to:

- ◆ collect general reactions to metering-related issues.
- ◆ identify concerns about meter installation.
- ◆ establish preferred means of public education related to metering issues.

Feeling about water meters

Most respondents were not pleased about the idea of water meters. Most commonly cited reasons were:

- ◆ Burden on those with a fixed income
- ◆ Region is water-rich (rivers, lake, flood region); therefore, metering as a conservation measure seems unnecessary
- ◆ Water saved is used elsewhere without benefit to the Sacramento region; many prefer keeping water in northern California

Cited benefits of water meters included:

- ◆ Motivator to conserve water
- ◆ Can somewhat control one's own water rate, because it will be based on usage
- ◆ Will provide a monetary incentive to reduce water waste

Why metering is coming to Sacramento

Many were aware that some sort of legislative effort was behind the reason for water metering although in one group, no one knew this. Many claimed the Southern California politicians were behind the legislation, with an unfavorable opinion of that being the driver. Many cited that meters were being installed to **increase city revenues and/or support development.**

Meter installation criteria

Three criteria for the sequencing of meter installation were developed by the city and shared with respondents to determine first if the criteria were clear and second if the criteria were complete and logical. The initial criteria were as follows:

1. Replacing old infrastructure
2. Spreading projects throughout the city (not focusing in one area at a time)
3. Completing projects that neighbor each other to create more efficient routes for servicing and reading the meters

At first read, the criteria were confusing. With each group, the criteria were further refined based on respondents' comments. The final criteria developed and accepted were:

1. Replacing *old water pipelines*
2. Spreading projects *in areas* throughout the city (not just focusing in one area at a time)
3. *Continuing to add new meter installation projects that are adjacent to completed projects*

All respondents felt the criteria were adequate and made sense as a process for determining meter installation sequencing. No other consistent suggestions for additional criteria were provided by respondents.

Meter installation logistics

Most respondents cited the same concerns about the meter installation process:

- ◆ Time it will take to install meters
- ◆ Amount of time without water service
- ◆ Damage to landscaping, sprinkler systems and yardscape
- ◆ Need for ongoing meter maintenance or repair
- ◆ Noise
- ◆ Neighborhood traffic impacts

Respondents felt most concerns could be mitigated by:

- ◆ Restoring landscaping and sprinkler systems to original condition
- ◆ Educating residents about who is responsible for meter maintenance work
- ◆ Hiring reputable contractors to complete the work/overseeing contractors

Meter installation

Location

In general, anyone in any group who had seen water meters in sidewalks in another location selected sidewalks as the overriding favorite for meter installations. Respondents in two out of four focus groups were asked to identify where they preferred to have the water meter installed. Most chose the sidewalk as the desired location. When told that the most likely place for meter installation was in the middle of the front yard behind the sidewalk, most resisted the location, citing landscape considerations and privacy issues as the main concerns.

Respondents in two groups were first presented with the fact that the meters would likely be installed in the middle of the front yard, behind the sidewalk. Most reacted negatively, again citing landscaping considerations and privacy as the main concerns. Without prompting, one group spontaneously and unanimously selected the sidewalk as the desired location.

Respondents in all groups were told that to have the meter in the sidewalk would cost about \$300-\$400 extra per home. Most were reluctant to pay the added cost and instead begrudgingly accepted the yard location.

When all groups were asked if they would be willing to pay more – up to \$2,500 – to choose a location anywhere in the yard or driveway, none were willing to do so. Many already felt burdened by the fact that meter installation already came with an expensive price tag.

Reactions to the city absorbing any additional costs (\$2,500 for location selection option or \$300-400 for sidewalk installation) were negative. Respondents understood that they would have to pay the added cost to have a more popular choice available so they chose not to accept additional financial obligations.

Costs

General reactions to paying for installation costs varied, though most were negative. Respondents felt an increase in rates to absorb the cost of meters plus paying for water on a metered rate was a double hit in the pocketbook. Some even felt that the state should have to pay for the meters since it was the state that mandated the meters.

Some respondents accepted the fact that they would have to pay but preferred to have the meter installation cost appear as a separate surcharge on the water bill that would be eliminated over time instead of a rate increase that would not decrease once installation costs were "paid off".

Process

When asked what the city could do to make the installation process easier for residents, most requested advance notification. A variety of options were stated:

- ◆ Utility bill fliers
- ◆ Regional newspaper articles (advertisements were also cited, but not as high a preference)
- ◆ Presentations to community and neighborhood groups
- ◆ Separate mailers in city Department of Utilities envelopes clearly marked as water meter news
- ◆ Post information on a Web site
- ◆ Phone number/hotline to obtain information

Other measures for a smoother installation process included:

- ◆ Charge all customers a metered rate starting at the same time (instead of phasing in metered rates)
- ◆ Provide neighborhoods with a timeline and adhere to it
- ◆ Coordinate with other city projects (sidewalk restoration, street maintenance, etc.)

Metered Rates

Common themes arose among respondents when asked to list advantages and disadvantages of metered water rates. Advantages included:

- ◆ Residents will pay for what they use/control water bill
- ◆ May help to identify plumbing leaks

Disadvantages included:

- ◆ Higher water bills
- ◆ Inability to afford to keep landscaping green/healthy
- ◆ Those on a fixed income will be burdened
- ◆ Those with older homes may have leaky pipes which will cause higher bills. To further add to the burden, those with older homes may themselves be older and on a fixed income and therefore, unable to pay for repairs

The most common response about how the city could smoothly make the transition from flat to metered rates was for the city to provide comparative billing for at least one year. Another popular response was the desire for a tiered rate structure (similar to gas and electric utilities). Others requested incentives for those who conserve water and reduce their bill as a result of conservation measures.

Water metering messages

Three meter-related messages were tested among respondents:

1. Reduce the use of water
2. Be fair and equitable in that each household will pay for what it uses
3. Encourage water conservation

Most respondents accepted and agreed with statement two, **water metering in Sacramento will be fair and equitable in that each household will pay for what it uses**. Messages one and three were seen as opposites with message one being a negative reinforcement and message three being a positive reinforcement. Most felt that message three, **water metering in Sacramento will encourage water conservation**, was a positive way to discuss the benefits of metering.

When asked how the city can best inform customers about water issues, respondents cited many common answers:

- ◆ Utility bill fliers
- ◆ Messages printed on the utility bill
- ◆ Regional newspapers
- ◆ Web site
- ◆ Phone number/hotline number
- ◆ Personal letter in the mail from the city
- ◆ Bright, consistent materials (postcards, newsletters, etc.)

III. Public Outreach Plan

Approach

To recap the primary research findings, the city of Sacramento, Department of Utilities customers will benefit from a long-term, proactive public outreach campaign. Some key research findings that support this approach include:

- ◆ survey findings that an ongoing public education campaign is critical to the success of the metering program.
- ◆ repeated confusion and misunderstanding about metered rates and implementation process (found in focus groups, telephone survey and research with other water providers).
- ◆ The consulting firm Lucy & Company's experience with five other metering programs that demonstrate the value of customers being actively involved in the development/implementation of such programs.
- ◆ research findings that the public wants more information about metering.

Lucy & Company recommends a two-tier approach to public outreach. The first tier includes the city of Sacramento Department of Utilities' internal stakeholders (i.e. Mayor's office, city council, utilities staff and other city departments). The second tier comprises all external stakeholders – namely customers – in addition to news media and the water community.

The two-tier outreach approach will need to focus on three primary findings:

- ◆ dispelling common metering myths.
- ◆ clarifying the reason the city is transitioning to metered rates.
- ◆ educating customers about how to manage metered rates through proven water conservation techniques.

Similar programs throughout Sacramento have demonstrated that customers become less adverse to the concept of water meters once educated about why they are required and how they can reduce their water use. Based on research for the city, it is recommended that the city clearly and strongly communicate to the public that metering is part of a much larger statewide effort to protect California's water supply. As explained further in this plan, key messages and outreach materials should be developed to continually emphasize the state mandate.

Research validated that there are many other controversial issues related to metering and high level of misunderstanding about the process; some of the primary questions that must be addressed through the public education and outreach program are:

- ◆ Why is the metering program being initiated?
- ◆ Why does "the government" want to control water use (issues: loss of control and privacy)?
- ◆ Why does the city of Sacramento have to meter – how was the city charter overturned?
- ◆ Will the rates increase as a result of metering? If so, how much and for how long?
- ◆ Will the city of Sacramento benefit financially from the metering program (e.g. "make a profit")?
- ◆ When/how/where will meters be installed?
- ◆ Why do we need to conserve water/does metering reduce water use?
- ◆ Will landscaping return to its original condition once meters are installed?
- ◆ How can we maintain the quality of community aesthetics if some can't afford to water as much as they do now?

- ◆ What will be done to ensure quality work?
- ◆ How will customers prepare for the advent of metered rates?
- ◆ How will customers be charged for meter installation/maintenance?
- ◆ What will be the metered rate structure?

Key messages will be crafted to address each of these questions and specific outreach activities will be planned to provide the public with as much information possible and give ample opportunity for the public to voice concerns, questions and comments.

As research demonstrated, all customers do not look at the same outreach materials, so it is imperative that the Department of Utilities provide several channels of information for its customers. While some customers automatically toss a metering brochure, a door hanger will catch their attention and vice versa. A mix of complementary outreach materials is recommended to capture the largest audience possible.

Together, the recommended public education and outreach activities will work to achieve the city's objectives, outlined below, and a successful metering implementation program.

Public Outreach Goal

To encourage a smooth transition to metered rates by implementing a proactive, comprehensive public education and outreach program based on research and community input.

Public Outreach Objectives

- ◆ Educate the community about metering and metered water rates, the city's services and benefits of the services.
- ◆ Work toward completing implementation of the metering program with little or no public opposition as measured by comments at public meetings, media stories and letters and phone calls to city council and the mayor's office.
- ◆ Address potential issues of concern in an open and honest manner, both in written communication and prepared statements, as measured by responses to letters and concerns in the public record.

Target Audiences

Internal

Mayor's office/city council

Objectives

- ◆ To keep elected officials aware of the implementation planning process and project status.
- ◆ To minimize public complaints to elected officials.

Strategies

- ◆ Ongoing education to elected officials
- ◆ Inclusion in community meetings

Department of Utilities employees

Objectives

- ◆ To educate and inform residential customers of upcoming implementation activities in an effort to have a smooth and customer-friendly approach that receives high marks from customers.

Strategies

- ◆ Ongoing public education program

Other city departments (DOT, Neighborhood Services)

Objectives

- ◆ Coordinate capital improvement projects in an effort to minimize overall impact to the public.
- ◆ Keep target audiences informed about progress of the meter implementation program and related activities in order to learn about additional opportunities for cost-sharing partnerships and collaboration.

Strategies

- ◆ Cross promotion of projects in outreach materials
- ◆ Include articles in various internal publications

External

Customers (homeowners and tenants) – Those who:

- ◆ Need water main moved to front, plus meter retrofit
- ◆ Meter retrofits in front yard
- ◆ Meters already installed but not being charged a metered rate

Objectives

- ◆ Increase awareness and support of project as evidenced by minimal negative feedback during program implementation.

Strategies

- ◆ Media relations
- ◆ Outreach material distribution
 - ◆ Fact sheet/brochure
 - ◆ Door hangers
 - ◆ Newsletters
- ◆ Web site
- ◆ Educational reminders
- ◆ Community meetings

Media

Objectives

- ◆ Increase awareness and build support among news media for the metering implementation program, as evidenced by balanced, if not favorable, news coverage throughout the project.

Strategies

- ◆ Media relations
- ◆ Speakers bureau

Water community

Objectives

- ◆ Keep others in water industry informed of progress in implementing meter implementation program in order to learn about cost-sharing partnerships, grant opportunities and collaboration.

Strategies

- ◆ Media relations
- ◆ Web site
- ◆ Outreach material coordination

Metering Outreach Activities

Stakeholder database

Immediate – 20 years

A stakeholder database will be developed and maintained, and will include community opinion leaders, neighborhood association leaders, environmental groups, elected officials, landscape groups, project staff, other city agencies and individuals that express interest throughout the project.

Stakeholders will receive project update information once or twice a year through the outreach methods outlined below.

Key messages

Immediate – 2 years

Key messages will be developed to ensure everyone – from elected officials to conservation staff – speaks with one voice using consistent messages. Messages will consist of two components: proactive (to be used repeatedly) and reactive (those stated only when asked). The messages should address all the issues identified in this plan in a forthright and factual manner. Collectively, the recommended key messages respond to important issues and concerns. Messages will be updated throughout project implementation.

Speakers bureau

Immediate – 2 years

An effective way to reach customers and community members personally and directly with facts about the metering program is through a speakers bureau program. A staff training session focusing on key messages, how to answer customers' questions, etc. will be held.

Designated spokespeople will discuss water meters and water conservation in presentations, regular community meetings or at casual neighborhood gatherings. A brief metering component will be included in presentations by utilities staff if they are already making a presentation to a particular group.

The training will include a multilingual component to ensure all customers have an opportunity and ability to receive project information. Potential second languages, based on the city's demographic breakdown, include Spanish, Hmong, Russian, Lao, Chinese and Vietnamese.

2 - 20 years

A brief metering component will be included in presentations by utilities staff if they are already making a presentation to a particular group.

Hotline

Immediate/Ongoing

A hotline number, with a recorded, informational message, has been established for the Department of Utilities and will be transferred to a city phone number. The message will be updated throughout the project by Lucy & Company. Hotline calls will always be returned within 24 hours.

Fact sheet

Immediate - 2 years

Based on the key messages, a fact sheet will be developed to answer the primary elements of the metering program: who, what, when, where, why and how. It will be distributed to impacted residents and the media. Updates will be provided as necessary.

Letters

Introductory

A letter, on city letterhead, with details regarding the meter retrofit and rate transition will be sent to affected neighborhoods in advance of retrofit activities. It is recommended that the letter be sent six months in advance of retrofit activities. The letter will include a metering brochure and information about what to expect during the retrofit, if applicable; how to handle special needs; water conservation techniques, etc.

Reminder

A second letter will be distributed one week in advance of installation or retrofit activities (as some customers may not see door hangers due to garage entrances).

Project Completion

The third letter will notify customers that meter installation and retrofit activities are complete and comparative billing will commence.

Opinion Leader Updates

An opinion leader update letter will be prepared and distributed, from the department's director, to community leaders on at least an annual basis, or whenever major project milestones are accomplished.

Noticeable rate increase letters

Customized letters will be delivered, on city letterhead, to customers identified as those with "significantly higher" rates due to metering. The letters will address water-saving methods and leak detection information to provide ample opportunity for public to reduce water use in advance of onset of metered rates.

Door hanger(s)

Immediate

Two door hangers will be produced for the metering implementation program. The first will notify residents about upcoming meter installation and retrofit activities. These door hangers will be distributed at least three days in advance of construction work. It will provide information about the expected date and time of construction, anticipated impacts and contact information. The second door hanger will be distributed to notify residents about metered rates taking effect.

Flyer/brochures

Immediate – 2 years

A metering brochure with answers to common questions and concerns about installation and retrofits, transition to metered rates and an introduction to comparative billing will be produced. Brochures will be mailed to all city customers along with an informational letter in a city envelope. It will outline who to call with questions, extend invitations for speaking engagements and community events, etc.

Additionally, a flyer with specifics about how to read meters will be developed and sent to residents and include a component about calculating your water rate with the second letter.

Both the flyer and brochures will be distributed at community meetings and to the media, as part of the media kit.

2 – 20 years

Flyers and brochures will be updated and distributed as the project progresses.

Newsletters/Articles

Immediate/Ongoing

Project updates will be distributed via bimonthly bill stuffers and future department newsletters to announce project details, status and upcoming community meetings or workshops. Newsletter articles will feature information about the history of water metering in the Sacramento region, how meters will affect the community, implementation schedules, how to read a meter and water-saving tips.

Articles that appear in project newsletters will be shared with community groups for inclusion in their newsletters, Web sites and e-mail publications.

Meetings

Immediate – 2 years

Public attendance at evening meetings has declined in recent years due to busy schedules, information fatigue and other issues. Often times, it is difficult for a resident to leave their house after work or during dinner-time. Alternative meeting methods are convenient and allow residents to stay informed. An effective mix of grassroots outreach, presentations at established neighborhood associations and occasional public meetings will maximize attendance.

Presentations at community/neighborhood association meetings

The city of Sacramento's Neighborhood Services Department monitors over 100 neighborhood associations throughout the city. Most of these groups hold regularly-scheduled meetings and offer a captive, involved audience. It is recommended that the Department of Utilities coordinate with these associations to present introductory information and provide recurring progress updates in neighborhoods expected to experience construction or metered rates within two years.

Neighborhood/community meetings (pizza parties)

Research shows that residents prefer to attend meetings close to home, outside of normal working hours. A proven way to reach these customers is to recruit one resident in each affected neighborhood to host a neighborhood meeting or project status update. It allows residents to interact with city staff in person and is an informal way to gauge progress and resident perceptions. It also creates project "ambassadors" throughout the community that will help to encourage support for the project throughout the neighborhood.

The grassroots meetings can be held at a neighbor's home or garage in the evening or as a block party on a Saturday, to encourage attendance. This is successfully done on other projects throughout Sacramento County. At each meeting, light refreshments and outreach materials will be distributed. Project signage will be created to announce upcoming meetings.

Public Meetings

Traditional public meetings or workshops may be held at major milestones. Elected officials, media and the community at-large will be invited to discuss project status, next steps and will provide an opportunity for the public to voice any concerns or questions.

Public meetings will be held at large, centrally-located venues and will be publicized through media, newsletters and the project Web site.

Bill inserts

Immediate – 2 years

A series of bill inserts will be designed and produced to inform and educate residents about the metering implementation program. An introductory bill insert will notify customers about upcoming activities, how to read a meter and what to expect.

Web site

Immediate – 2 years

A water metering section has been added to the city's Web site to serve as another way to increase communication about the meter retrofit/installation and rate timeline. A metered rate reminder on the Web page, including some FAQs regarding the metering process, will ensure that the information is up-to-date and all of the city's key messages are being communicated.

The project section on the city's Web site will reflect the image of the citywide Web site design.

Media relations

Immediate – 2 years

An ongoing media relations campaign that positions the city as a proactive, concerned water purveyor will be conducted. Regular news releases should feature: benefits of metering, upcoming workshops and availability of metering brochures.

A media kit will be distributed to local media outlets including the *Sacramento Bee* and other community publications. In addition, releases will be distributed to community/civic organizations which have regular newsletters or e-mail communication programs.

Each media kit will include the fact sheet, brochures and a news release. Multiple news releases will be prepared, pitched and tracked prior to and after metered rates taking effect.

Educational reminders

Immediate – 2 years

Magnets

Small, business card-size magnets will be produced and distributed to impacted residents to serve as a reminder and source for contact information. The magnets will feature the city's Web site URL and telephone hotline numbers. Magnets can be distributed as part of a mailing, through city hall, the utilities office and at community events.

Customer Service Survey

It is recommended that the ongoing, random customer service survey in place by the Department of Utilities continue throughout the life of the implementation program. Feedback received from the public will serve as a public perception gauge.

Goody bags

Additionally, a "goody bag" will be distributed to residents at community meetings including "pizza parties," community events, etc. Bags can include water conservation tips, toilet tummies, spray bibs, shower timers, magnets and other water-saving devices.

Billboards/Bus Signage

Once customers begin to receive comparative bills, a mix of billboards and bus signage will be utilized to educate customers about the ongoing program. The billboards will be placed along frequently-traveled highways to provide consistent, highly-visible project follow-through for the public. Multilingual billboards and signage will be prepared.

Appendix G
Pilot Project Data

RETROFIT METER PROJECT

Avg Cost Per Meter

<u>ACTCOD</u>	<u>WO #</u>	<u>DATE COMPLETED</u>	<u>EQUIP COST</u>	<u>LABOR COST</u>	<u>PARTS COST</u>	<u>TOTALCOST</u>
<u>PW-IMS</u>						
PW-IMS	2908918	05/03/2006	\$129.67	\$485.60	\$525.02	\$1,140.29
PW-IMS	2914163	05/03/2006	\$116.19	\$359.85	\$367.56	\$843.60
PW-IMS	2914168	05/05/2006	\$116.19	\$359.64	\$429.47	\$905.30
PW-IMS	2914169	05/09/2006	\$114.69	\$436.92	\$443.48	\$995.09
PW-IMS	2914166	05/05/2006	\$116.19	\$359.64	\$511.86	\$987.69
PW-IMS	2914170	05/09/2006	\$114.69	\$359.64	\$497.01	\$971.34
PW-IMS	2914172	07/18/2006	\$119.89	\$395.50	\$504.46	\$1,019.85
PW-IMS	2914175	07/18/2006	\$118.39	\$426.12	\$474.73	\$1,019.24
PW-IMS	2914179	07/19/2006	\$118.39	\$426.12	\$405.58	\$950.09
PW-IMS	2914173	07/18/2006	\$118.39	\$444.18	\$503.81	\$1,066.38
PW-IMS	2914191	07/24/2006	\$119.89	\$474.80	\$389.57	\$984.26
PW-IMS	2914190	05/25/2006	\$200.07	\$1,212.76	\$535.06	\$1,947.89
PW-IMS	2914189	07/24/2006	\$121.39	\$474.80	\$472.19	\$1,068.38
PW-IMS	2914186	07/21/2006	\$118.39	\$341.58	\$389.57	\$849.54
PW-IMS	2914184	07/21/2006	\$119.89	\$390.26	\$397.93	\$908.08
PW-IMS	2914183	07/20/2006	\$119.89	\$474.80	\$411.33	\$1,006.02
PW-IMS	2914181	07/20/2006	\$118.39	\$426.12	\$505.01	\$1,049.52
PW-IMS	2914171	05/09/2006	\$114.69	\$310.96	\$464.07	\$889.72
PW-IMS	2914226	07/10/2006	\$122.74	\$533.83	\$404.07	\$1,060.64
PW-IMS	2914222	06/14/2006	\$122.04	\$416.35	\$507.98	\$1,046.37
PW-IMS	2914221	06/28/2006	\$126.67	\$388.24	\$504.46	\$1,019.37
PW-IMS	2914218	06/14/2006	\$117.54	\$395.21	\$563.39	\$1,076.14
PW-IMS	2914214	06/14/2006	\$116.19	\$330.76	\$392.82	\$839.77
PW-IMS	2914211	06/09/2006	\$113.19	\$300.07	\$500.96	\$914.22
PW-IMS	2914209	08/01/2006	\$116.19	\$437.24	\$521.68	\$1,075.11
PW-IMS	2914207	08/01/2006	\$118.39	\$339.88	\$420.67	\$878.94
PW-IMS	2914240	07/13/2006	\$118.39	\$426.12	\$392.54	\$937.05
PW-IMS	2914239	07/13/2006	\$118.39	\$426.12	\$512.41	\$1,056.92
PW-IMS	2914237	07/13/2006	\$118.39	\$426.12	\$392.54	\$937.05
PW-IMS	2914234	07/11/2006	\$118.39	\$426.12	\$507.08	\$1,051.59
PW-IMS	2914232	07/11/2006	\$118.39	\$426.12	\$521.30	\$1,065.81
PW-IMS	2914230	05/03/2006	\$129.67	\$485.60	\$398.64	\$1,013.91
PW-IMS	2914229	07/11/2006	\$119.89	\$474.80	\$518.21	\$1,112.90
PW-IMS	2914228	07/10/2006	\$118.39	\$426.12	\$514.81	\$1,059.32
PW-IMS	2914265	07/17/2006	\$113.19	\$426.12	\$389.57	\$928.88
PW-IMS	2914259	07/17/2006	\$121.39	\$426.12	\$404.00	\$951.51
PW-IMS	2914256	07/20/2006	\$155.05	\$818.84	\$901.63	\$1,875.52
PW-IMS	2914254	07/14/2006	\$118.39	\$426.12	\$403.98	\$948.49
PW-IMS	2914253	07/14/2006	\$118.39	\$426.12	\$389.57	\$934.08
PW-IMS	2914252	07/14/2006	\$118.39	\$426.12	\$432.86	\$977.37
PW-IMS	2914251	07/14/2006	\$118.39	\$426.12	\$432.86	\$977.37
PW-IMS	2914244	07/13/2006	\$118.39	\$426.12	\$513.92	\$1,058.43
PW-IMS	2914287	06/22/2006	\$143.15	\$611.56	\$402.77	\$1,157.48
PW-IMS	2914286	06/23/2006	\$140.15	\$433.06	\$427.86	\$1,001.07
PW-IMS	2914285	05/10/2006	\$116.19	\$359.64	\$623.51	\$1,099.34
PW-IMS	2914284	06/23/2006	\$143.15	\$600.44	\$503.59	\$1,247.18
PW-IMS	2914283	05/10/2006	\$114.69	\$310.96	\$498.50	\$924.15
PW-IMS	2914274	07/18/2006	\$121.39	\$523.48	\$392.54	\$1,037.41
PW-IMS	2914272	07/17/2006	\$114.69	\$426.12	\$499.12	\$1,039.93
PW-IMS	2914269	07/17/2006	\$118.39	\$426.12	\$505.01	\$1,049.52
PW-IMS	2914317	06/09/2006	\$122.93	\$422.63	\$507.32	\$1,052.88
PW-IMS	2914315	06/09/2006	\$122.93	\$422.63	\$572.14	\$1,117.70

RETROFIT METER PROJECT

Avg Cost Per Meter

<u>ACTCOD</u>	<u>WO #</u>	<u>DATE COMPLETED</u>	<u>EQUIP COST</u>	<u>LABOR COST</u>	<u>PARTS COST</u>	<u>TOTALCOST</u>
PW-IMS	2914313	06/01/2006	\$143.15	\$107.72	\$431.63	\$682.50
PW-IMS	2914312	05/17/2006	\$143.15	\$611.56	\$387.97	\$1,142.68
PW-IMS	2914311	05/17/2006	\$143.15	\$611.56	\$397.34	\$1,152.05
PW-IMS	2914310	05/31/2006	\$118.74	\$348.75	\$392.82	\$860.31
PW-IMS	2914306	05/31/2006	\$120.24	\$397.43	\$392.54	\$910.21
PW-IMS	2914305	05/31/2006	\$120.24	\$397.43	\$511.11	\$1,028.78
PW-IMS	2914302	05/23/2006	\$116.19	\$359.64	\$505.01	\$980.84
PW-IMS	2914300	05/19/2006	\$117.24	\$342.34	\$507.78	\$967.36
PW-IMS	2914295	05/12/2006	\$114.69	\$310.96	\$428.95	\$854.60
PW-IMS	2914291	05/11/2006	\$114.69	\$310.96	\$382.52	\$808.17
PW-IMS	2914289	06/22/2006	\$143.15	\$611.56	\$428.31	\$1,183.02
PW-IMS	2914288	05/11/2006	\$114.69	\$310.96	\$624.95	\$1,050.60
PW-IMS	2914347	06/19/2006	\$144.65	\$660.24	\$469.06	\$1,273.95
PW-IMS	2914343	06/20/2006	\$140.15	\$514.20	\$806.83	\$1,461.18
PW-IMS	2914339	06/16/2006	\$140.15	\$514.20	\$524.70	\$1,179.05
PW-IMS	2914338	06/16/2006	\$140.15	\$514.20	\$493.90	\$1,148.25
PW-IMS	2914337	06/13/2006	\$140.15	\$514.20	\$606.02	\$1,260.37
PW-IMS	2914336	06/13/2006	\$140.15	\$514.20	\$416.88	\$1,071.23
PW-IMS	2914334	06/12/2006	\$140.15	\$514.20	\$533.09	\$1,187.44
PW-IMS	2914324	06/01/2006	\$143.15	\$611.56	\$603.31	\$1,358.02
PW-IMS	2914369	06/07/2006	\$179.75	\$679.88	\$245.26	\$1,104.89
PW-IMS	2914360	05/18/2006	\$135.99	\$442.48	\$166.89	\$745.36
PW-IMS	2914348	06/19/2006	\$140.15	\$514.20	\$497.91	\$1,152.26
PW-IMS	2914203	08/01/2006	\$118.39	\$339.88	\$406.29	\$864.56
PW-IMS	2914202	07/26/2006	\$138.97	\$780.04	\$411.01	\$1,330.02
PW-IMS	2914200	08/01/2006	\$121.39	\$437.24	\$406.87	\$965.50
PW-IMS	2914198	07/25/2006	\$118.39	\$426.12	\$504.92	\$1,049.43
PW-IMS	2914197	07/27/2006	\$134.47	\$634.00	\$505.01	\$1,273.48
PW-IMS	2914196	07/24/2006	\$118.39	\$426.12	\$380.99	\$925.50
PW-IMS	2914192	07/24/2006	\$118.39	\$426.12	\$418.12	\$962.63
PW-IMS	PILOT, INSTALL METER SETTER	Average Cost	\$1,049.51	Sub-Total	\$86,059.94	
PW-RNW						
PW-RNW	2913471	08/04/2006	\$151.90	\$852.23	\$983.00	\$1,987.13
PW-RNW	2914235	08/03/2006	\$156.40	\$994.87	\$890.39	\$2,041.66
PW-RNW	2914225	05/23/2006	\$128.02	\$398.59	\$886.97	\$1,413.58
PW-RNW	2914217	07/10/2006	\$138.82	\$741.71	\$1,143.88	\$2,024.41
PW-RNW	2914212	06/19/2006	\$138.82	\$741.71	\$792.50	\$1,673.03
PW-RNW	2914210	07/19/2006	\$138.82	\$741.71	\$777.62	\$1,658.15
PW-RNW	2914208	07/19/2006	\$138.82	\$741.71	\$763.19	\$1,643.72
PW-RNW	2914205	07/25/2006	\$135.82	\$644.35	\$844.59	\$1,624.76
PW-RNW	2914204	07/25/2006	\$140.32	\$790.39	\$982.18	\$1,912.89
PW-RNW	2914322	05/30/2006	\$144.50	\$621.91	\$1,033.40	\$1,799.81
PW-RNW	2914321	05/24/2006	\$146.00	\$821.29	\$1,001.57	\$1,968.86
PW-RNW	2914320	05/24/2006	\$146.00	\$821.29	\$823.75	\$1,791.04
PW-RNW	2914319	05/22/2006	\$141.50	\$524.55	\$882.16	\$1,548.21
PW-RNW	2914318	05/22/2006	\$147.50	\$719.27	\$972.60	\$1,839.37
PW-RNW	2914314	05/19/2006	\$141.50	\$693.63	\$1,082.39	\$1,917.52
PW-RNW	2914308	05/16/2006	\$144.50	\$621.91	\$865.96	\$1,632.37
PW-RNW	2914307	05/16/2006	\$144.50	\$621.91	\$894.82	\$1,661.23
PW-RNW	2914342	06/15/2006	\$146.00	\$670.59	\$1,042.56	\$1,859.15
PW-RNW	2914340	06/15/2006	\$141.50	\$524.55	\$1,135.58	\$1,801.63
PW-RNW	2914335	06/12/2006	\$147.50	\$719.27	\$1,035.02	\$1,901.79

RETROFIT METER PROJECT Avg Cost Per Meter

<u>ACTCOD</u>	<u>WO #</u>	<u>DATE COMPLETED</u>	<u>EQUIP COST</u>	<u>LABOR COST</u>	<u>PARTS COST</u>	<u>TOTALCOST</u>
PW-RNW	2914330	06/06/2006	\$147.50	\$719.27	\$1,138.04	\$2,004.81
PW-RNW	2914328	06/06/2006	\$141.50	\$524.55	\$1,036.53	\$1,702.58
PW-RNW	2914327	06/05/2006	\$144.50	\$621.91	\$1,040.88	\$1,807.29
PW-RNW	2914325	06/05/2006	\$144.50	\$621.91	\$1,022.60	\$1,789.01
PW-RNW	2914323	05/30/2006	\$144.50	\$621.91	\$1,138.04	\$1,904.45
PW-RNW	2914349	06/21/2006	\$141.50	\$719.27	\$1,092.74	\$1,953.51
PW-RNW	2914345	06/20/2006	\$146.00	\$670.59	\$1,008.17	\$1,824.76
PW-RNW	2914281	06/26/2006	\$144.50	\$621.91	\$1,015.18	\$1,781.59
PW-RNW	2914278	06/26/2006	\$141.50	\$524.55	\$880.58	\$1,546.63
PW-RNW	2914273	06/29/2006	\$146.00	\$670.59	\$908.21	\$1,724.80
PW-RNW	2914271	06/29/2006	\$141.50	\$524.55	\$890.44	\$1,556.49
PW-RNW	2914270	06/30/2006	\$141.50	\$524.55	\$941.21	\$1,607.26
PW-RNW	2914267	06/30/2006	\$146.00	\$670.59	\$679.01	\$1,495.60
PW-RNW	2914263	07/12/2006	\$151.90	\$852.23	\$1,134.53	\$2,138.66
PW-RNW	2914260	07/12/2006	\$156.40	\$998.27	\$974.03	\$2,128.70
PW-RNW	2914304	05/15/2006	\$130.14	\$621.91	\$1,104.46	\$1,856.51
PW-RNW	2914303	05/15/2006	\$144.50	\$621.91	\$865.96	\$1,632.37
PW-RNW	2914301	05/12/2006	\$144.50	\$621.91	\$920.39	\$1,686.80
PW-RNW	2914299	05/11/2006	\$144.50	\$621.91	\$830.58	\$1,596.99
PW-RNW	2914296	05/05/2006	\$144.50	\$621.91	\$901.03	\$1,667.44
PW-RNW	2914294	06/21/2006	\$141.50	\$524.55	\$779.84	\$1,445.89
PW-RNW	2914250	07/21/2006	\$151.90	\$683.15	\$753.90	\$1,588.95
PW-RNW	2914249	07/28/2006	\$151.90	\$852.23	\$1,030.04	\$2,034.17
PW-RNW	2914248	07/28/2006	\$156.40	\$852.23	\$947.26	\$1,955.89
PW-RNW	2914246	07/31/2006	\$141.50	\$683.15	\$1,012.90	\$1,837.55
PW-RNW	2914245	07/31/2006	\$387.50	\$877.87	\$966.29	\$2,231.66
PW-RNW	2914243	08/02/2006	\$156.40	\$829.19	\$887.25	\$1,872.84
PW-RNW	2914241	08/02/2006	\$151.90	\$683.15	\$983.00	\$1,818.05
PW-RNW	2914238	08/03/2006	\$151.90	\$848.83	\$905.26	\$1,905.99
PW-RNW	2914187	05/26/2006	\$199.92	\$1,505.79	\$921.17	\$2,626.88
PW-RNW	2914167	07/26/2006	\$167.98	\$1,060.11	\$882.94	\$2,111.03
PW-RNW	2914195	05/04/2006	\$204.42	\$1,320.47	\$965.29	\$2,490.18
PW-RNW	2914182	06/02/2006	\$233.04	\$1,676.57	\$949.22	\$2,858.83
PW-RNW	2914176	07/27/2006	\$173.98	\$1,254.83	\$946.77	\$2,375.58
PW-RNW	2914164	06/28/2006	\$156.48	\$699.19	\$1,146.86	\$2,002.53
PW-RNW	2913544	08/04/2006	\$151.90	\$852.23	\$1,132.52	\$2,136.65
PW-RNW	PILOT, METER RETROFIT, RENEW	Average Cost	\$1,864.27	Sub-Total	\$104,399.23	
Total Average Cost			\$1,380.14	Grand Total:		\$190,459.17

NUMBER	ISSUE / QUESTIONS	RECOMMENDATION / DESCRIPTION	PRO	CON	FINANCIAL IMPLICATIONS
1	Retrofit Cost Comparison	How are the pilot program City crew costs going to be used? How is City going to compare Contractor costs to City costs? Suggest that unless the City is considering hiring sufficient staff to do the entire project that the focus should be on consideration of where and when certain retrofits and services would be best conducted by City staff e.g. complex or politically sensitive retrofit.	Cost savings may be realized by City staff vs. contracted services on complex retrofits.	Requires additional City resources.	Unknown
4	Service Calls - Replacing a Service	Install meter box and setter.. install meter in the future with entire area.	Cost savings by not having to cut and replace sidewalk, residents will be educated on the meters as part of the program and not on individual basis, reduces inefficiencies in meter reading routes.	Cost savings by not having to cut and replace sidewalk, residents will be educated on the meters as part of the program and not on individual basis, reduces inefficiencies in meter reading routes.	Will have to disconnect service for future retrofit.
5	Meter Installation	City crews will test, calibrate. The City will supply contractor with meter setters, meters, and boxes, and contract meter installation. City staff person assigned to contractor installation crew provides the quality control i.e. final inspection, initiates and registers meter serial number to the address where installed, using latest technology (laptop computer) to enter relevant data for each retrofit. Software should allow that when uploads from the laptop are made, all relevant internal contact receive information at the same time. Yes, entire driveway cold joint to cold joint should be replaced. Consultant disagreed with replacing driveway.	Better quality control, fewer errors in transfer of information to a variety of City departments, greater efficiency, reduced installation, notification and disruptions to customer.		Cost Savings
11A	Should the Department continue existing policy to replace entire section of driveway when removing curb stops and boxes in driveways?	Yes, entire driveway cold joint to cold joint should be replaced. Consultant disagreed with replacing driveway.	Supports strong commitment to customer services. Continuous existing policy.	Additional cost. Coordination issues with matching existing driveway or cost sharing with home owner to replace entire driveway. Costs based on pilot area and may be much higher in south natomas and pocket areas.	\$2,000,000.00
11B	Curb Stops	Curb stop is weakest part of existing service. All curb stops will be removed as part of the retrofit program except when the existing service is copper and the curb stop is more than 3 feet beyond the back of walk. All curb stop boxes will be removed. See below "Curb Stop in Driveway" if the curb stop is located in the driveway.	Minimize future maintenance calls. Will save time and money over time.	Additional upfront cost. Not budgeted for as part of the program.	Additional Program Cost
12	City Services	Remove and replace galvanized and plastic services from the water main to the existing curb stop, even when the curb stop is located beyond the back of walk.	Minimize future maintenance calls. May save time and money over time.	Additional upfront cost. Was budgeted for as part of the program.	None
14A	Should we replace substandard undersized mains (4" or smaller) located in City streets knowing that the main needs to be replaced in future to achieve adequate fire flow?	Yes	Goal is inline with Business plan to improve pressure and fire flows. Avoids multiple disruptions to a neighborhood. Provides consistency by upgrading all residents vs. just backyard main areas.	Additional upfront cost. Was not budgeted for as part of the program.	\$65,000,000.00
14B	Should we retrofit properties served by undersized mains (4" or smaller) located in City streets knowing that the main needs to be replaced in future to achieve adequate fire flow?	Steel mains should be replaced and the rest should be evaluated on a case by case basis.	Avoids multiple disruptions to a neighborhood. Improves pressure and fire flows.	Additional upfront cost. Was not budgeted for as part of the program.	Additional Program Cost
15	Tree roots that interfere with box installation. Roots 2" and over require arborist inspection. If roots can't be cut - what are the options? - new service from main to front of house - who does this work?	Relocating services to avoid roots could add significant costs. City will pay for costs. Cost factor needs to be looked at.	Roots were not an issue on retrofit pilot project.	May have significant impacts in East Sac.	Additional Program Cost
16	Should meters be installed as part of Sewer, Drainage, DoT projects?	Whenever increased efficiencies and lower cost can be achieved, it is recommended the City take advantage of it. Allocation, and control of costs associated with retrofits may be an issue to review carefully.	Avoids multiple disruptions to a neighborhood.		
17	Do we need to make modifications to the existing outreach plan?	The outreach plan should contain enough to respond to multiple situations. It should be considered a "living" plan, one that will need to change with new issues and when the project moves into major production. Adjustments over time will be necessary.			

NUMBER	ISSUE / QUESTIONS	RECOMMENDATION / DESCRIPTION	PRO	CON	FINANCIAL IMPLICATIONS
20A	Should the Department pay for the cost to replace onsite plumbing for a customer whose service is in such poor condition that we cannot hook up to it?	No, one honest attempt should be made to reconnect service. Consultant disagreed. Need to add to Water Ordinance that it is the customer's responsibility to keep their service line in a good enough condition that will allow routine maintenance.	Avoids additional cost. Would cost at least an additional \$4.2 million to replace customer's services (based on 5000 service lines, 8% of all retrofits). Could cost up to \$27.0 million if 50% need to be replaced.	Customers will argue that before the meter retrofit they did not have a problem with their service line. Coordination problem with customer not having water and being given a week/month to repair their own service.	\$0.00
20B	Meter retrofit projects: customer's service pipe is too brittle to connect to?	The consultant disagreed. The customer's argument will always be that before the meter retrofit they did not have a problem with their service line. Based on the City of Sacramento's commitment to work with its public to minimize disruption, understanding that meter retrofits will have a wide range of cost, and that this will not likely be a large number of connections, when encountered the City should make every effort to connect to the existing line up to and including replacement of the service line if necessary.	Supports strong commitment to customer services.	Additional upfront cost. Not budgeted for as part of the program.	Additional program cost.
21	Meter retrofit projects: two existing services to a single parcel - install two meters, abandon one, manifold the services - who pays for additional work??	Unless there is a need for both services and the owner is willing to pay for two services, one should be abandoned. City should pay for cost.	Resolves issue without confrontation	May have additional upfront costs not budgeted for as part of the program.	
22	Meter retrofit projects: Two services looped on one parcel. Are back flow preventers necessary?	The fact that two services are looped on one parcel does not pose any additional threat of backflow. However the greater concern would be for the ability to shut off or disconnect one of the services for non-payment or in the case of an emergency. The services should be isolated and the parcel owner(s) responsible for the costs.	Eliminates potential problems	Customers may resist isolating the looped service lines	N/A
23	Meter retrofit projects: Two parcels being served by one service. Install new service - who pays for additional work??	Each parcel should have its own service connection. Some level of investigation should be conducted to determine if connection fees have been collected from both parcels and why this was allowed. Unless the City can find this is an illegal connection, the City should absorb the cost.	Eliminates two parcels on one service	May have additional upfront costs not budgeted for as part of the program.	Additional Program Cost
24	Meter retrofit projects: A house that is land locked from the alley water main requires a new service rerouted to the front - who pays for additional work??	If the City makes a determination to re-route an existing service under this condition then the cost of re-location should be absorbed by the City. However, if the condition is that multiple services come off of a private line, then the City should place the multiple meter boxes within its easement and the burden of running lines to the new meter box locations should be the responsibility of the property owners.	Provides some balance for when and who should pay for relocation costs	Additional upfront cost. Not budgeted for as part of the program.	Additional Program Cost
25A	Should the City take over private water mains in public easements within town home complexes?	Yes	Allows meters to be installed at point of service to each town home without replumbing entire complex. Improves customer service. Provides consistency for all town homes complexes.	May have legal issues with taking over private water system. The private mains may not be in a proper PUE. Increased liability in taking over maintenance of 60,000' of main and 1800 services that may be substandard.	Potentially \$12,500,000 to replace these private systems as they approach the end of their lifecycle.
25B	Meter retrofit projects: Metering of Apartments, Condos, and Town Homes. Need policy clarifying whether a meter is required for each unit.	Suggested that a policy is developed for requiring meters on each unit. Apartments and Condo's will have one meter. Town homes will be individually metered. Town homes often have public mains on private streets and others have private onsite mains.	Provides equity. Ensures each user is paying their fair share	Additional upfront cost. Not budgeted for as part of the program.	Additional Program Cost
26	Meter retrofit projects: What should be done with extra services that have been killed at the property line?	The best practice would be to ensure that services that are to be terminated, should be disconnected at the mainline. If termination is at the property line then, the old service location should be measured or logged by GPS, recorded for that property, and the connection threads destroyed to prevent any illegal connection.	Defers disconnect for future and prevents illegal connection	Not the best way to terminate a service line	Unknown
27A	Should the Department pay for the cost to install new services and correct onsite plumbing for illegal or undocumented connections to the water system?	yes	Avoids customer complaints. Reduces staff time to determine if service is legitimate.	Additional cost	\$600,000 for Downtown
27B	Meter retrofit projects: What should be done with fire services that are illegally being used for domestic or landscaping?	Domestic or landscape services that are illegally connected to fire service lines should be removed and reconnected to domestic mainlines as part of the meter retrofit program.	Eliminates illegal connections to fire service lines.	Additional upfront cost. Not budgeted for as part of the program.	Additional Program Cost
28	Meter retrofit projects: Should residential and commercial retrofit projects downtown be combined?	Combining residential and commercial retrofits is the most efficient and effective procedure for the project	Saves time, money, and minimizes disruption to the public	May require some care in allocating and separation of projects costs i.e. residential vs. commercial program budgets	Should provide overall project savings

NUMBER	ISSUE / QUESTIONS	RECOMMENDATION / DESCRIPTION	PRO	CON	FINANCIAL IMPLICATIONS
29	Meter retrofit projects: What should be done with properties that may need back flow prevention.	Notify John Laurenzi (Cross control and backflow specialists)			
30	Should residents have access to meter boxes to read meter and shut off water to house.	Meters and meter boxes are the property of the City. Allowing residents to open (and potentially leave open) meter boxes and to use the curb stops to shut water to the house may pose a much higher risk exposure. Most homes are equipped with shut off valves that are part of the property owners plumbing. Shutting off at the meter should be performed by City staff.	Lowers liability/risk to City	Residents may object to not being able to read the meter or shut off the service.	Unknown
36	Who should determine the size and location for services with no tap records?	Language will be developed to have the Contractor include this work in the Construction Contract for backyard main replacements.	Reduces staff time.	May cost more for Contractor's to Locate Services.	Unknown
37	Where should the point of service be for land locked downtown parcels served from an alley?	Current Policy per the City Code is that the point of service is at the alley R.O.W. The resident's service is then ran in the street or park strip to the front or side of the property.	City's responsibility ends at the alley. Avoids main extensions.	Private services will be in the public right-of-way.	Unknown
39	When multiple properties are served by one service, which properties get new services and who keeps the old one?				

MATERIAL

QUANTITY	SIZE	DESCRIPTION	UNIT COST	AMOUNT
1	1"	meter Senter		
1	1"	meter Idler		
2	1"	mipt x Comp		
30	1"	Copper pipe		
1	3/4"	mipt x Comp		
1	3/4" x 1"	Bell Reducer		
4		bricks		
1		meter box		
1		meter box lid		
Sub Total:				

EQUIPMENT

HOURS	DESCRIPTION	UNIT COST	AMOUNT
4	8921-8689-9949		
4	0305		
3	9227		
Sub Total:			

STREET REPAIRS

Sq. Ft. Conc Alley	. Sdwik	2450	Gutter		
Ch.			Cb. & Gutter		
Sq. Ft. Asphalt		30	Street	<input type="checkbox"/> Alley	Sub Total:

LABOR

NO. MEN	HOURS	NAME	HR WAGE	AMOUNT
5	4	J James / T Wallis B JAQUEZ / J bran C STAEUS		
Sub Total:				

Total Cost \$ _____

WATER REPAIR ORDER

No. _____

Address 5640 Ortega Date 7-17-06

Description or complaint INSTALL meter setler good #

Map No. _____ Valve no. _____ Hyd. No. _____ Signed JH

Report Review unknown 3/4 gal Service from
1/2 to 1/2 with 1" copper pipe install
meter setler 1 box into sidewalk, reattach to service
& flush patch walk with cut back, street dept
parked street
meter box 33-SNUE 1' w/c
33-SNUE 20 EWC
Flow St 9.97 Fm 1465 AT 10 248678

CHARGE TO Name _____ Completion Date 7-28-06
 MAP Dept or Budget No. 2666 Signed JH
 RECORD Address _____

Rev. 1984 MD Form 51

MATERIAL

QUANTITY	SIZE	DESCRIPTION	UNIT COST	AMOUNT
1	1"	meter setter		
1	1"	meter idler		
1	1"	nut x comp		
1	1"	cs flat x comp		
1	3/4"	Bushing		
1	3/4"	nut x comp		
1	1"	flat x comp		
1	1x6	brass nipple		
1	1"	flex couplings		
30'	1"	COPPER PIPE		
	4	bricks		
1		meter box		
1		meter box lid		
Sub Total:				

EQUIPMENT

HOURS	DESCRIPTION	UNIT COST	AMOUNT
4	8921-8689-9949		
4	8305		
Sub Total:			

STREET REPAIRS

Sq. Ft. Conc Alley _____ Sq. Ft. Sidewalk 2450, Gutter _____

Cb. _____, Cb. & Gutter _____

Sq. Ft. Asphalt 357 Street Alley Sub Total: _____

LABOR

NO. MEN	HOURS	NAME	HR WAGE	AMOUNT
5	4	J James / J Wallis B James / J Brown C Stevens		
Sub Total:				

Total Cost \$ _____

WATER REPAIR ORDER

No. _____

Address 5728 63 St

Date 7-17-06

Description of complaint

Install 1" meter setter

Map No. _____

Valve no. _____

Hyd. No. _____

Signed Travis

Report

Install 1" meter setter & box into sidewalk
on 1" copper service. removed old
C.I. meter setter & box. reattached to
service & flush. Patch walk with cut back
meter box 37-NSLL 1" wuc
Flow St 997 992

2130

252506

CHARGE TO

Name _____

Completion Date 7/24/06

MAP

Dept or Budget No. 2166

Signed Travis

RECORD

Address _____

MATERIAL

QUANTITY	SIZE	DESCRIPTION	UNIT COST	AMOUNT
1	1"	meter setter		
1	1"	meter feeder		
1	3/4" x 1"	Brass Bushing		
1	3/4"	nip t x Comp		
5-	3/4"	Copper pipe		
1	3/4"	Comp x Comp 90°		
	4	bricks		
1		meter box		
1		meter box lid		
Sub Total:				

EQUIPMENT

HOURS	DESCRIPTION	UNIT COST	AMOUNT
2	890-8689-9949		
2	8305		
2	9227		
Sub Total:			

STREET REPAIRS

Sq. Ft. Conc Alley	Sdwik	2150	Gutter
Cb. , Cb. & Gutter			
Sq. Ft. Asphalt	<input type="checkbox"/> Street	<input type="checkbox"/> Alley	Sub Total:

LABOR

NO. MEN	HOURS	NAME	HR WAGE	AMOUNT
5	2	B. JAMES/T. WALLIS		
		B. JAMES/T. WALLIS		
		C. STEVENS		
1	2	A. POWELL		
Sub Total:				

Total Cost \$ _____

WATER REPAIR ORDER

No. _____

Address 5732 63rd St

Date 7.17.06

Description or complaint

install 1" meter setter

3/4

Map No. _____

Valve no. _____

Hyd. No. _____

Signed F. W. [Signature]

Report

install 1" meter setter & box into

sidewalk on 3/4 copper service

removed old 3/4 of box. reattached

& flushed - padlock with cut back.

meter loc 38" NSL 1" WWC

Flow st 15.13 FM 1407

12 SA

252506

CHARGE TO

Name _____

Completion Date 7-24-06

MAP

Dept or Budget No. 2466

Signed [Signature]

RECORD

Address _____

MATERIAL

QUANTITY	SIZE	DESCRIPTION	UNIT COST	AMOUNT
1	1"	meter setter		
1	1"	meter Idler		
2	3/4"	1 Bell Rubber		
2	3/4"	mipt x comp		
1	3/4"	FIPT x comp		
5-	3/4"	Copper pipe		
	4	bricks		
1		meter box		
1		meter box lid		
Sub Total:				

EQUIPMENT

HOURS	DESCRIPTION	UNIT COST	AMOUNT
2	8921-8689-9949		
2	8305		
1	9227		
Sub Total:			

STREET REPAIRS

Sq. Ft. Conc Alley	<input checked="" type="checkbox"/> Sdwlk	1250	Gutter	
Cb.	Cb. & Gutter			
Sq. Ft. Asphalt	<input type="checkbox"/> Street	<input type="checkbox"/> Alley	Sub Total:	

LABOR

NO. MEN	HOURS	NAME	HR WAGE	AMOUNT
5	2	J JAMES / J WALLIS		
		B JACOB / J BROWN		
		C STORNS		
1	1	C POWELL		
Sub Total:				

Total Cost \$ _____

WATER REPAIR ORDER No. _____

Address 5736 63 st Date 7-17-06

Description of complaint meter setter

Map No. _____ Valve no. _____ Hyd. No. _____ Signed James

Report INSTALL 1" meter setter & box into sidewalk on 1" copper service. removed old g/s & box - reattach to service & flush. patch walk with cut back
meter loc 38' NSSL 1" WWC
Flow st 13.11 Fwd 1300 15 3φ 252506

CHARGE TO Name _____ Completion Date 7-24-06
 MAP Dept or Budget No. 2E66 Signed J James
 RECORD Address _____

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MATERIAL

QUANTITY	SIZE	DESCRIPTION	UNIT COST	AMOUNT
1	1"	meter solder		
1	1"	meter filler		
1	1"	mip + comp		
1	1"	comp + comp		
5'	1"	copper pipe		
	4	brick's		
	1	meter box		
	1	meter box lid		
1	3/4"	mip + comp		
1	1"	mip + comp		
1	1/2"	Bell reducer		
Sub Total:				

EQUIPMENT

HOURS	DESCRIPTION	UNIT COST	AMOUNT
2	8921-8689-9949		
2	8305		
Sub Total:			

STREET REPAIRS

Sq. Ft. Conc Alley	(Sdwl) 15 sq	Gutter	
Cb.	Cb. & Gutter		
Sq. Ft. Asphalt	<input type="checkbox"/> Street <input type="checkbox"/> Alley	Sub Total:	

LABOR

NO. MEN	HOURS	NAME	HR WAGE	AMOUNT
5	2	J James / T Wallis		
		Botaquez / J Brown		
		C STEVENSON		
Sub Total:				

Total Cost \$ _____

WATER REPAIR ORDER

No. _____

Address 5748 63 St

Date 7-17-06

Description of complaint

1" water meter setter

Map No. _____

Valve no. _____

Hyd. No. _____

Signed Jane S

Report

INSTALL 1" water setter & box into
side wall. removed old 1" copper service.
removed old 1" box reattached to
service & flush, patch wall with cut back
meter loc 38 - NSLL 1" WWC 1238
Flow 5718.31 Fin 17.3 252506

CHARGE TO

Name _____

Completion Date 7-24-06

MAP

Dept or Budget No. 2K66

Signed JT James

RECORD

Address _____

MATERIAL

QUANTITY	SIZE	DESCRIPTION	UNIT COST	AMOUNT
1	1"	meter setter		
1	1"	meter feller		
1	1"	mipt & conn		
1	1"	Flt & comp		
5-	1"	copper pipe		
	4	bricks		
	1	meter box		
	1	meter box lid		
Sub Total:				

EQUIPMENT

HOURS	DESCRIPTION	UNIT COST	AMOUNT
2	8921-8689-9949		
2	8305		
Sub Total:			

STREET REPAIRS

Sq. Ft. Conc Alley 21250 Sdwk Gutter

Cb. _____ Cb. & Gutter

Sq. Ft. Asphalt Street Alley Sub Total:

LABOR

NO. MEN	HOURS	NAME	HR WAGE	AMOUNT
5	2	J James / J Wallis		
		B Jaquez / J Brown		
		C Stevens		
Sub Total:				

Total Cost \$ _____

WATER REPAIR ORDER No. _____

Address 6240 Janssen dr Date 7-19-06

Description or complaint Exposed
Renew plastic service / install meter setter

Map No. _____ Valve no. _____ Hyd. No. _____ Signed _____

Report Set up one way traffic during & remove
Renew 1" plastic service from 1/2 to 3/4 with 1" copper
install meter setter & box into sidewalk - removed old
3/4 box & reattached push. Patch walk with cutback
Street dept patched street

Meter loc 100' EULL 1' SSC Jansen
1/2 EULL 20' SSC Jansen
Flow St 1478 Fm 1483 24 sq 256490

CHARGE TO Name _____ Completion Date 7-28-06
 MAP Dept or Budget No. 2K66 Signed J James
 RECORD Address _____

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Program Management Cost Estimate¹

Accelerated Program Costs		
Estimated Program Cost Excluding Program Management		\$ 232,020,000
Program Duration		5
Category	Description	Estimated Cost
Project Controls	Contract admin, procurement of consultants & contractors, schedule and budget controls, invoice reviews	1.0% \$ 2,320,200
Legal and easements	Legal support, assessing/buying easement, surveying, temp construction easements, environmental permitting	1.0% \$ 2,320,200
Business integration	Integration of AMI with data collection, billing coordination, CMMS, Cost for AMI accelerated installation (including outside contractors)	0.25% \$ 580,050
Project Delivery	Prelim design, standards setting, engineering support, construction management, inspection	3.0% \$ 6,960,600
Communications	Public outreach program development and implementation, communications, call center, program website development and maintenance, 218 process support	1.0% \$ 2,320,200
Estimated Consultant Design Costs	Outside Consultant Costs for Design of Backyard Replacements and Meter Install Projects (as a percentage of Construction Costs)	2.5% \$ 3,200,000
TOTAL ESTIMATED COSTS		\$ 17,700,000
Notes:		
1 - Estimates based on representative level of effort and scope of work for PM. Actual effort and costs to be developed.		