### ORDINANCE NO. 2008-2 AN ORDINANCE OF THE BOARD OF DIRECTORS OF THE ARMONA COMMUNITY SERVICES DISTRICT ADOPTING CAPITAL FACILITIES IMPROVEMENT PLAN, AND CONFIRMING REVISIONS THERETO AND PAYMENT OF CONNECTION FEES

The Board of Directors of the Armona Community Services District does hereby find and determine as follows:

WHEREAS, the Armona Community Services District ("District") is a California community services district formed and existing under and by virtue of the provisions of the California Community Services District Law, codified at Government Code §§ 61000-61226.5, inclusive, together with all acts, laws and decisions of courts amendatory thereof or supplementary thereto, and possessing all of the powers, both necessary and implied, to give full meaning and effect thereto; and

WHEREAS, said Law provides, at Government Code § 61060, that the District has the power generally to perform all acts necessary to carry out fully the provisions thereof; and

WHEREAS, said Law further provides, at Government Code § 61060(b), that the District may by ordinance adopt regulations binding upon all persons to govern the construction and use of its facilities and property, including regulations imposing reasonable charges for the use thereof; and

WHEREAS, said Law further provides, at Government Code § 61115, that the District may provide for the collection of charges for the services and facilities provided by the District; and

WHEREAS, Government Code § 66013 provides for fees for water connections and sewer connections (hereinafter referred to as "connection fees"); and

WHEREAS, Government Code § 66002 provides for the establishment, review and revision of Capital Facilities Improvement Plans and connection fees; and

WHEREAS, the District has heretofore established, and annually reviewed, and revised, a Capital Facilities improvement Plan ("Plan") and established connection fees based thereon; and

WHEREAS, the District reviewed the current Plan, directed the Listrict Engineer to update the Plan, and held a public hearing on the updated Plan on April 25, 2008; and

WHEREAS, at the public hearing, the District received comments on the Plan; and

WHEREAS, after the conclusion of the public hearing on April 25, 2008, the Board voted to adopt the Plan, in the form set forth as Exhibit A attached hereto, and to establish the connection fees set forth in Table 1B thereof.

GRISWOLD, LASALLE, OBB, DOWD & GIN, L.L.P. 311 NORTH DOUTY STREET HANFORD, CA 93230

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## EXHIBIT A ARMONA COMMUNITY SERVICES DISTRICT ADOPTED 2008/2009 CAPITAL FACILITIES IMPROVEMENT PLAN

GRISWOLD, LASALLE, DBB, DOWD & GIN, L.L.P. 311 NORTH DOUTY STREET HANFORD, CA 93230

### **ARMONA COMMUNITY SERVICES DISTRICT**

### ADOPTED CAPITAL FACILITIES IMPROVEMENT PLAN FISCAL YEAR 2008/2009



April 2008

Prepared for:

Armona Community Services District P.O. Box 486 – 10956 14<sup>TH</sup> Avenue Armona, CA 93202

Prepared By:



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### **ARMONA COMMUNITY SERVICES DISTRICT**

### ADOPTED CAPITAL FACILITIES IMPROVEMENT PLAN FISCAL YEAR 2008/2009

April 25, 2008

Prepared for:

**Armona Community Services District** 

Prepared by:

Provost & Pritchard Engineering Group, Inc. Fresno, California

### **TABLE OF CONTENTS**

1	GE	NERAL
	1.1	Introduction
	1.2	Specific Growth Anticipated in Armona
2	GE	NERAL IMPROVEMENTS
_	2,1	Office Improvements
3	WA	TER SYSTEM
	3.1	Water Supply
4	3.2	Water Distribution
4	4.1	STEWATER SYSTEM
	4.2	Sewer Collection System
5		Wastewater Treatment and Disposal
_	5.1	Available Funds
6		COMMENDATIONS
	6.1	Recommended Priority List for Capital Improvements
	6.2	Funding
	6.3	Summary
	6.4	Implementation
FIC	GURE	s
Fig	ure 1	Land Use Map of Armona
Fig	ure 2	Areas of Potential Development
Fig	ure 3	Overall Water System Improvements
Fig	ure 4	Overall Sewer System Improvements
TA	BLES	
Tal	ole 1A	<ul> <li>Capital Improvements Identified for Projected Population of 8,600 (with 0.90 adjustment)</li> </ul>
Tal	ole 1B	<ul> <li>Capital Improvements Identified for Projected Population of 6,600 (with 0.90 adjustment)</li> </ul>
Tat	ole 1C	<ul> <li>Capital Improvements Identified for Projected Population of 6,600 (with 0.85 adjustment)</li> </ul>
Tat	ole 2 -	Adopted 2008/2009 Connection Fees
Tab	ole 3 -	Summary of Projected Population Equivalents



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### 1 GENERAL

### 1.1 Introduction

Armona Community Services District, as stated in the previous Capital Facilities Improvement Plans, is faced with capital expenditures necessary to satisfy infrastructure demands resulting from growth of the population served. Connection fees are imposed as a means to collect monies from developments to be served by the District. This document serves to update the District's anticipated infrastructure requirements.

The projections of population growth used in this plan are based upon projections compiled by Kings County. To date, the population of Armona has not followed those projections. Further, the time frame for the individual improvements are based upon actual population growth, not the projected year that said growth will be realized. The original base population for Capital Facilities Improvement Plans was 3,100.

The 2000 U.S. Census reported a population of 3,239 people in Armona with an average household density of 3.4 people per house. Armona currently has approximately 1,255 residential water and sewer service customers. The estimated population today is 4,267 based on the number of service connections and the average household density. The growth rate in Armona between 2000 and 2007 is about 4 percent based on the number of service connections.

The Land Use Map of Armona, as included in the Kings County General Plan is included as Figure 1. Figure 1 includes an aerial photograph, the boundary of the District, the primary sphere of influence limits and the secondary sphere of influence limits.

### 1.2 Specific Growth Anticipated in Armona

Ultimate population equivalent (residential and commercial/industrial) projections for the community of Armona exceed 11,000 population equivalents (See Table 3).

Future residential growth in Armona has been identified with four proposed subdivisions.

Tentative Tract No. 883 (Mitchell Property) consists of 44 equivalent units and is located at the intersection of Hood & Oak Avenues. The anticipated population increase from this subdivision is approximately 150 persons. Tract No. 883 presently has a conditional will serve that expires in August of 2009.

Tract No. 886, consists ultimately of 64 equivalent units and is located south of Hanford-Armona Road near the Cornelia Street alignment. The anticipated population increase



from this subdivision is approximately 218 persons. Tract 886 has relinquished 58 of the equivalent units and presently has will-serve commitments to 6 units.

Tentative Tract No. 787, consisting of 50 lots (presently defined as Phase 1 of Tentative Tract No. 756) has been developed north of Front Street east of the Oak Street alignment. Construction for Tract 787 has been completed. The estimated population increase from this subdivision is approximately 170 persons.

Tentative Tract No. 756 is also a proposed subdivision. Construction for Phase 2 and 3 of the subdivision has been completed. Note that one of the lots in Phase 2 has been acquired for possible use as a well and water storage tank site. Phase 4 of the subdivision is pending construction. Phase 5 has been issued a will serve. Phases 6 and 7 have conditional will serves for future development contingent upon increased capacity of water and sewer systems after completion of improvements. The Tentative Tract is divided into (four remaining) seven phases as outlined below:

Phase	Number of Lots	Estimated Population	Cumulative Population
4	61	207	207
5	39	133	340
6	45	153	493
7	42	143	636
Total	187	636	

Table 1.2 - Tentative Tract 756

The three subdivisions identified would increase the population by an estimated 1,004 people.

The locations of proposed subdivisions are shown on the attached Figure 2. Locations where interest has been expressed for other potential development are also included in Figure 2.

### 2 GENERAL IMPROVEMENTS

### 2.1 Office Improvements

The District's office and shop are marginally adequate to serve the present population. The office in particular is crowded and does not satisfy ADA requirements. It has been determined that a new (or modified) office and shop will be needed to accommodate future growth. The new office and shop are anticipated to be adequate for 2,400 people more than the base population (approximately 5,500 people total).



Population estimates are based on 3.4 persons per residence.

Additional facilities are expected to be required for the shop and office subsequent to the above growth. No estimates are included at this time for these future facilities. The capital costs associated with office and shop improvements have been discounted by 50 percent due to the benefit derived by the existing community of Armona.

### 3 WATER SYSTEM

A summary figure (Figure 3) is included to locate the various water supply and distribution system improvements described in the plan.

### 3.1 Water Supply

### 3.1.1 Existing Facilities:

Water supply facilities include treatment, storage and booster pumping facilities at Well No. 1 (Dillon Well) and water storage and booster pumping facilities at Well No. 2 (7th Day Well). Actual cost of construction of the improvements is identified in this report. The water treatment facilities for the wells are expected to be adequate for between 1,500 and 2,000 people beyond the base population (approximately 4,900 people total). The capital cost of the treatment facilities has been discounted by 40 percent prior to incorporation into connection fee estimates due to benefits to the existing population in the form of higher pressures, reliability of water supply and quality of water supply. The capital cost of the treatment facilities has also been reduced by the amount of grant money that was included with the funding assistance to construct the facilities (15 percent).

It is anticipated that the media in the filters at Well No. 1 will require replacement during the first benefit period. This improvement is included in Table 1 for costs associated with capital facilities improvements; however, the cost is not included in the developer connection fees since costs will primarily benefit existing customers.

### 3.1.2 Future Facilities:

Future growth will require two additional wells during the 5th and 6th Benefit periods (See Table 1). A will-serve letter has been issued to Phases 4 and 5 of Tract 756 for 100 units.

New regulations associated with Arsenic limits in drinking water will require replacement of Well No. 2 or construction of additional treatment facilities at Well No. 2. Previously, the District pursued a project that would include treatment facilities adjacent to Well No. 2 that would also address secondary water quality issues including color, odor and iron. The District has recently defined a new alternative for the SDWSRF funding application that would consist of drilling a new replacement well in an effort to avoid arsenic. The recommended alternative would include drilling a new well and constructing treatment facilities, if required, as a contingency. Treatment facilities would require acquisition of



additional property (Exhibit W-1). The capital facilities plan includes monies for property acquisition in addition to construction costs. The capital cost for this project has been discounted by 75 percent prior to incorporation into connection fee estimates since costs will largely benefit existing customers.

The District is making plans to construct a new well (Well No. 3) on 2 to 3 lots in Phase 6 of Tract 756. The plans include drilling a pilot well to determine water quality characteristics. It is anticipated that a production well will be developed at this site (Exhibit W-2). Production capacity of Well No. 3 is anticipated to be 1,000 gpm for the purposes of this report. Well No. 3 is expected to serve an additional 3,300 people above the base population (approximately 6,400 people total). Due to the water quality of the existing wells, it is anticipated that treatment facilities will be required for Well No. 3.

Well No. 4 is expected to be required for a total population of up to 8,600 people. The site for future Well No. 4 has not yet been defined by the District. It is recommended that future well sites be investigated north of existing facilities (Exhibit W-6).

A site for a future well has been acquired by the District and is located within Tentative Tract No. 756, Phase 2. However, the required footprint of treatment facilities is not yet known, possibly limiting the utilization of this well site.

In addition to the wells, water storage facilities will be needed in the future. Water storage facilities of at least 250,000 gallons or a new water supply well are necessary prior to exceeding a total population of 6,500. Supplemental storage may be added to Well No. 2.

Supplemental information regarding the projected capacity of capital improvements is included in the Appendix.

### 3.2 Water Distribution

### 3.2.1 Existing Facilities:

A water main along Hanford-Armona Road east of Oak Street was constructed in the summer of 2004 consistent with the previously adopted Capital Facilities Plan. This water main extension serves as a basis for future looping of the water distribution system east of the community, thereby enhancing fire flow capabilities. Specific growth in this vicinity is commercial development. This improvement provides an additional benefit to the existing population in the form of enabling additional commercial development to receive potable water along this corridor, aiding in employment opportunities. The capital cost of this water main has been reduced by 15 percent prior to incorporation into the proposed connection fee.



Water mains previously constructed along Oak Street and 14th Avenue have also been identified as necessary to serve future growth in Armona. These improvements provide benefit to the existing population in the form of higher pressures and better distribution of emergency flows. Therefore, the capital costs of these two mains have been reduced by 30 percent prior to incorporation into the proposed connection fee. As with the water treatment and storage facilities, the capital cost of the water mains has been further reduced by 15 percent due to that portion of the funding assistance package that was granted to the District. The net reduction is 40 percent.

### 3.2.2 Future Facilities:

Future water distribution improvements include looping of the water mains located in Front Street and in Hanford-Armona Road east of Oak Street. The dead end water mains would require extension to 13<sup>th</sup> Avenue and approximately ¼ mile of water main in 13<sup>th</sup> Avenue to complete the loop, thereby improving overall system pressure and reliability (Exhibit W-3).

Similarly, the water mains located in Locust and Hanford Armona Road near 14 ½ Avenue require extension to 14 ½ Avenue and approximately ¼ mile of water main in 14 ½ Avenue to complete the loop, thereby improving overall system pressure and reliability (Exhibit W-4).

Extension of the water mains south along 13<sup>th</sup> Avenue and then westerly in Hood would provide water service capability to areas within the District's primary sphere of influence (Exhibit W-5).

Extension of the water main north in 14<sup>th</sup> Avenue, to Lacey Boulevard, would provide water service capability to remaining areas within the District's primary sphere of influence. However, a long dead end water main north should be looped along Lacey Boulevard (Exhibit W-7) and then south along 13<sup>th</sup> Avenue to previously described water mains (Exhibit W-8). It has been discussed that future water supply wells are anticipated to be located north of existing facilities. A water main in Lacey Boulevard may also be supplied by a future, northerly, well.

### 4 WASTEWATER SYSTEM

A summary figure (Figure 4) is included to locate the various sewer collection and wastewater treatment and disposal improvements discussed in the plan.

### 4.1 Sewer Collection System

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### 4.1.1 Existing Facilities:

The sewer system expansion and wastewater treatment and disposal facilities constructed in 1992 were financed in part by a loan of \$203,685 from the water fund.



The expansion is expected to be adequate for 1,800 additional people beyond the 3,100 persons used as the original base population.

Construction of Tentative Tract No. 787 included the construction of a sewer main along the Oak Street alignment from Front Street to Hanford-Armona Road. This capital improvement was specifically identified in previous capital facilities plans and involves the participation of connection fee revenues to a maximum of \$52,000 defined in previous actions by the Board of Directors.

### 4.1.2 Future Facilities:

The District is investigating the possibility of constructing a sewer by-pass pipeline to direct water treatment backwash water from Well No. 1 to the disposal facilities at the wastewater treatment plant (Exhibit S-1). The by-pass pipeline would free up collection system capacity and wastewater treatment capacity. Construction of a by-pass pipeline would require acquisition of easements, CEQA approval, and approval by the Regional Water Quality Control Board.

Additional population growth will impose a need for sewer trunk lines. Sewer extensions that have been identified include Hanford-Armona Road between Randall and 14 ½ Avenue. This sewer main extension would require a sewer lift station (Exhibit S-3).

Continued growth and infill of the District to the north and west will require an expansion to the sewer main in Hume between the wastewater treatment plant and 14<sup>th</sup> Avenue (Exhibit S-4). The sewer main in 14<sup>th</sup> Avenue between Hume and Hood (Exhibit S-5), and in 14<sup>th</sup> Avenue between Hood and Hanford-Armona Road (Exhibit S-6) will need to be replaced to address insufficient slope of existing sewers.

Expansion of the water system east along Hanford-Armona Road between Oak and 13<sup>th</sup> Avenues may include the demand to extend the sewer collection system and eliminate on-site sewage disposal. Extension of the sewer collection system east along Hanford-Armona Road and northerly along 13<sup>th</sup> Avenue will require a sewer lift station in Hanford-Armona Road in the vicinity of Mussel Slough (Exhibit S-7).

Continued growth and infill of the District to the north and east will require an expansion to the sewer main in Oak Street between the wastewater treatment plant and Hood Street (Exhibit S-8) and between Hood Street and Walker Street (Exhibit S-9).

Water service is provided within District boundaries along 14<sup>th</sup> Avenue north of Highway Street, however, sewage disposal is on-site. Extension of the sewer collection system in 14<sup>th</sup> Avenue coincident to the water system will eliminate said on-site disposal facilities and would require a lift station (Exhibit S-10).

Future development adjacent to existing District boundaries may require expansion of District limits and facilities. The District has identified possible expansion areas of Front



Street east of Tract 787 (Exhibit S-11), and 14 ½ Avenue between Hanford-Armona Road and Locust (Exhibit S-12) as possible extensions beyond present boundaries.

### 4.2 Wastewater Treatment and Disposal

### 4.2.1 Existing Facilities:

The supplemental wastewater treatment and disposal capacity achieved by the improvements constructed in 1992 was reduced (equivalent to approximately 800 persons) due to the backwashing required at the water treatment facilities at Well No. 1.

Construction of the first wastewater treatment facility expansion was completed during the summer of 2007. Improvements consisted primarily of additional aeration and disposal ponds to increase treatment and disposal capacity respectively. The plant capacity has be increase to 0.53 million gallons per day. It is estimated that the recent wastewater treatment facility expansion will serve an additional 1,450 people.

The pond levee was repaired with the recent wastewater treatment plant expansion. Also, electrical deficiencies in the wastewater treatment plant that impacted the ability to serve existing and future floating aerators were repaired.

### 4.2.2 Future Facilities:

Soils in the Armona area are generally silty sands. The existing ponds at the wastewater treatment and disposal facilities experience significant erosion due to wave action. Capital improvements consisting of erosion mitigation facilities are included and will benefit all existing and future populations served by the Armona CSD.

Increased development pressure on the Armona Community Services District has resulted in the potential for accelerated expansion of the wastewater treatment and disposal facilities to a capacity of 0.75 and 1.0 MGD. The expansions would require more intensive activated sludge processes and may include tertiary treatment of a portion of the effluent to facilitate reclamation alternatives (Exhibit S-12 and S-14). The expansion to 1.0 MGD would serve an estimate 1,535 people beyond the current capacity of 0.53 MGD.

### 5 FINANCING

### 5.1 Available Funds

The total revenue generated from connection fees during fiscal year ending June 30, 2007 was \$42,440 in the sewer fund and \$78,355 in the water fund. The equity balance as of June 30, 2007 is not yet available.



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### **6 RECOMMENDATIONS**

### 6.1 Recommended Priority List for Capital Improvements

Staff recommendations for priority list items are summarized in the following sections:

### 6.1.1 Well No. 2

Drill Replacement Well, Construct New Transmission Pipeline, and Construction Water Treatment Plant

\$6,032,000

The District is pursuing SDWSRF funding for a replacement well and treatment (if required). It is recommended that the District acquire additional land and construct a new replacement well and transmission pipeline. Additionally, water treatment facilities should be constructed if water does not meeting the drinking water standards for arsenic.

### 6.1.2 Well No. 3

Total	\$2,170,000
Treatment (to be determined)	\$ 750,000
Full site development	\$ 720,000
Pilot and production well in Tract 756	\$ 700,000

The District is investigating implementation of a pilot and production well in Phase 6 of Tract 756. It is recommended that the District initiate the development of a complete production well site after a final well site location has been determined for the Well No. 2 replacement well.

### 6.1.3 Well No. 1 Water Treatment Plant - Media Replacement

Well No. 1, Water Treatment Plant Replace existing filter media

\$ 100,000

It is recommended that the District replace the media in the existing filters at Well No. 1 and making minor improvements to the existing treatment facilities. The costs associated with media replacement will be paid for with funds provided from existing user rates.

### 6.1.4 Well No. 1 Water Treatment Plant - Backwash Bypass Pipeline

Well No. 1, Water Treatment Plant Backwash Bypass Pipeline to WWTF

\$164,000



### 6.1.5 Office Improvements

New Office Improvements to Address ADA Issues

\$400,000

It is recommended that the Board direct staff regarding implementation of a new office and shop or improvements to the existing office associated with ADA compliance and any other office or shop improvements to be considered. Upon determination of District intent, it is recommended that the District retain the services of an architect to provide more specific cost estimates and building permit requirements associated with anticipated improvements.

### 6.2 Funding

It is further recommended that the District continue to investigate supplemental funding assistance programs to contribute toward implementation of the improvements. The District has submitted funding assistance applications for:

- Safe Drinking Water State Revolving Fund (Proposition 84) The District will be submitting an application for funding with the SDWSRF. The District is eligible for grant and loan funding through SDWSRF and up to \$5 million through Proposition 84.
- Proposition 40 and 50 Pre-Applications have previously been submitted for water system improvements.

The District may explore additional funding assistance programs, including:

- Safe Drinking Water State Revolving Fund. Includes low interest loans, limited grant possibilities. Qualified projects may include water treatment, storage, and new wells.
- USDA, Rural Utilities Service. Includes low interest loans, limited grant possibilities. Qualified projects may include water and wastewater system improvements.
- Wastewater Recycling Funding Assistance programs from the SWRCB.

### 6.3 Summary

The known developments (Tracts 883, 886, 756) are expected to bring an additional population to the community of Armona associated with the first, second and third benefit periods identified in Table 1. In addition, the need for Well No. 3 and additional water storage is already required.



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The total cost to the District for the required projects to accommodate growth to a population of 8,600 people is estimated to be \$31,125,935. Several alternatives were presented and considered in determining the appropriate connection fees associated with the capital improvements identified.

These alternatives included the following:

- Table 1A Capital Improvements Identified for a Projected Population of 8,600. Connection fees have been reduced to approximately 90 percent of the maximum.
- Table 1B Capital Improvements Identified for a Projected Population of 6,600. Connection fees have been reduced to approximately 90 percent of the maximum.
- Table 1C Capital Improvements Identified for a Projected Population of 6,600. Connection fees have been reduced to approximately 85 percent of the maximum.

Note that capital improvement in the 6<sup>th</sup> Benefit Periods are included in Tables 1B and 1C because these improvements benefit a population beyond the population identified.

Based upon direction from the Board of Directors received during the April 25, 2008 Board Meeting, the capital facility requirements for the plan and the associated connection fees are based upon a population of 6,600 persons, and approximately 90 percent of the maximum identified cost \$5,899 for water and \$6,637 for sewer.

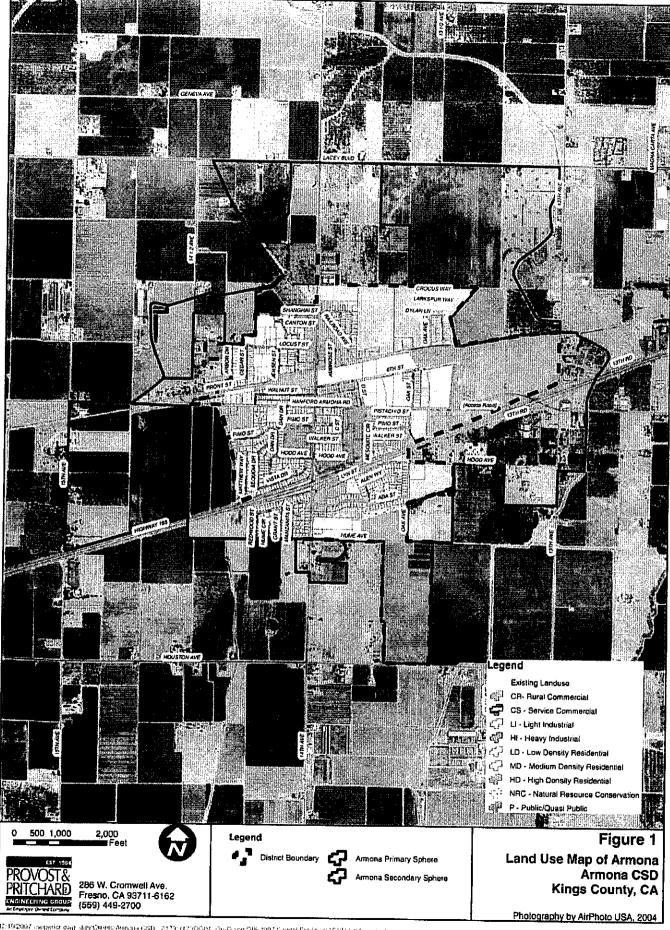
### 6.4 Implementation

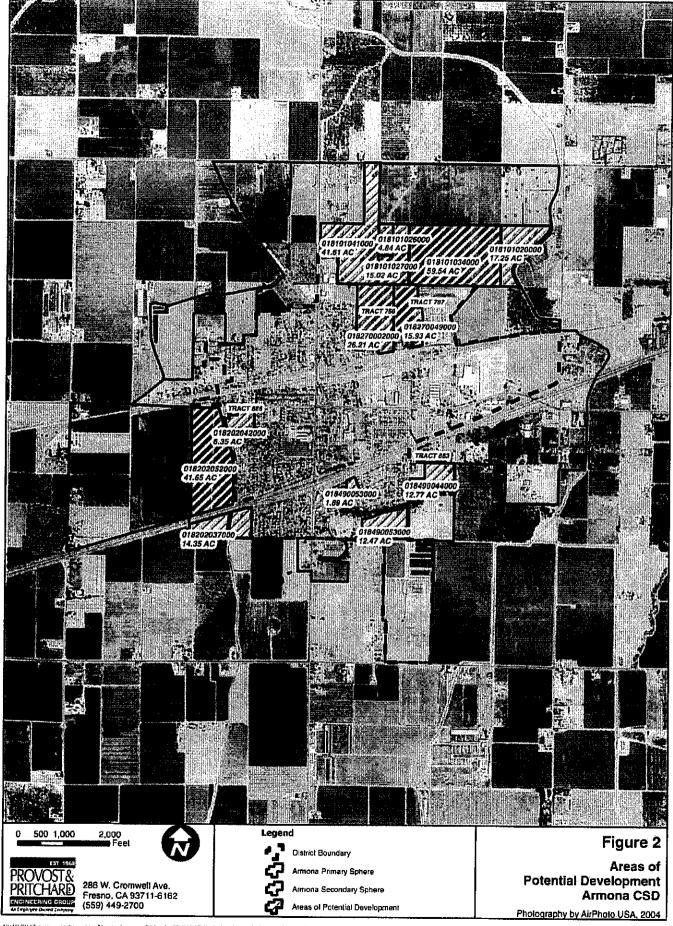
The allocation of connection fees to two-bedroom apartments, as defined in Ordinance 1992-1, is 80% of a single family residence. Single bedroom apartments are charged 60% of a two bedroom apartment. A typical commercial connection is assumed to contribute approximately one-half of the demand of a single family residence. Said typical commercial development is anticipated to be defined by 14 sewer fixture units and 20 water fixture units. This results in a charge for commercial developments of \$237 per sewer fixture unit and \$147 per water fixture unit.

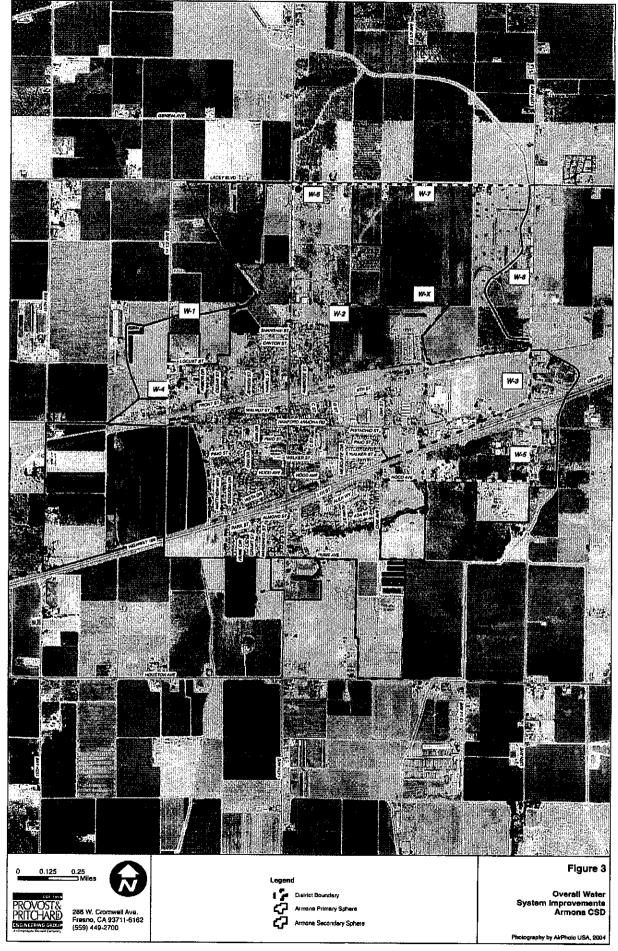
Other commercial and industrial connections that impose water or sewer demands that vary from typical residential uses would require determination of the appropriate equivalent dwelling unit value. For example, an industrial connection that would discharge wastewater with characteristics with high BOD, suspended solids, electroconductivity, or other component, requires determination of the appropriate equivalent dwelling unit value on a case-by-case basis.

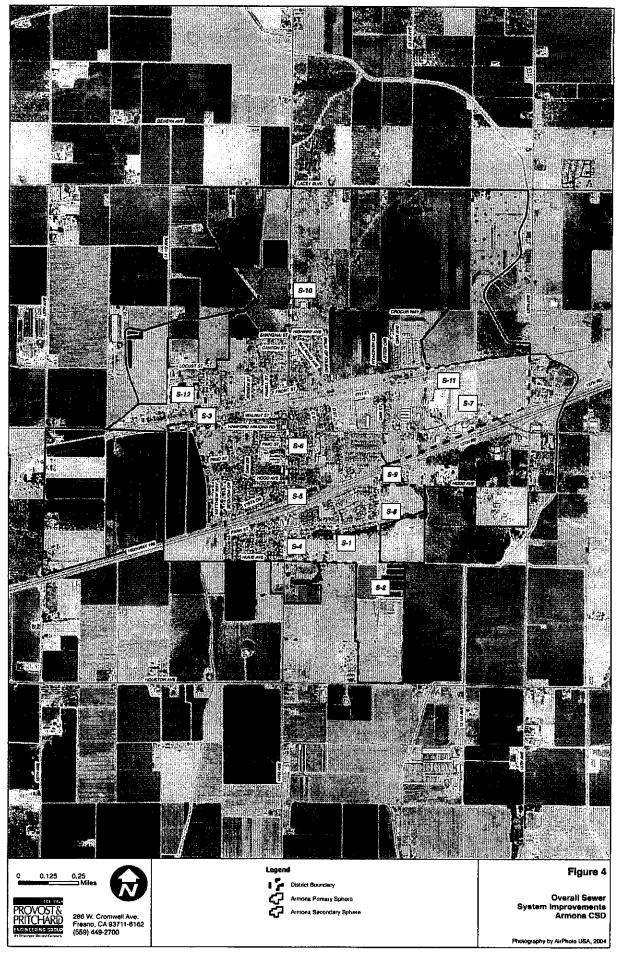


**FIGURES** 









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SUSTOTAL - 2th Bennill Period (in table from the best of the state o			57.420,000	090	51,136,000		
FIT PETROO   For a	SUSTOTAL - Sth Benefil Period	<u>                                     </u>	TOTAL SE	1	\$8,060,575		
Full Health   Hamil Stange in Fical   Full He W.3   \$1559,000   0.85   \$473,130     Full He W.3   Full He W.3   \$1000,000   0.85   \$473,130     Full He W.3   \$1000,000   0.85   \$473,130     Full He W.4   \$1000,000   0.80   \$473,130     Full He W.5   \$1000,000   0.80   \$473,130     Full He W.5   \$1000,000   0.80   \$1300,000     Full He W.5   \$1000,000   0.80   0.80   \$1000,000     Full He W.5   \$1000,000   0.80   0.80   \$1000,000     Full He W.5   \$1000,000   0.80   0.80   \$1000,000     Full He W.5   \$1000,000   0.80   0.80   0.80   0.80     Full He W.5   \$1000,000   0.	AN BENEFIT PERIOD						
Purple   P	Valer Main (Hanlord Mini Storage to Front						
(coalion not desimited)	Place Fernansion		250,000	989	5475 150		
FULL HE HAVE AND LIGHT HAVE.  FULL HE HAVE AND LIGHT HAVE.  FULL HE HAVE AND LIGHT HAVE.  FULL HE HAVE AND LIGHT HAVE AND LIGH	Heroined		200000	3 5	200,000		
See over 1.000   Gazalerio   Calc.	7		5426,000	174	S426,000		
### 1720 ###							
######################################		-	2362,000		\$225,000		
The and all statem in M-A Ma to 13 an M-DILIME S-7 \$900,000  ***and all statem in 14th from Massal PUTURE S-10 \$229,000  ***and and statem in 14th M-B to Locate PUTURE S-11 \$293,000  ***th M-B to Locate PUTURE S-11 \$293,000  ***th M-B to M-		3.	\$195,000		\$175,500		
FUTURE S-10 \$229,000  FUTURE S-11 \$29,000  FUTURE S-11 \$29,000  FUTURE S-12 \$29,000  FUTURE S-12 \$29,000  FUTURE S-13 \$29,000  FUTURE F-14 \$100,000  FUTURE F-15 \$100,000  FUTURE F-15 \$100,000		ù			2603,000		
A first from Mussel FUTLIFE 5-11 \$591,000 HA All to Locust FUTLIFE 5-12 \$129,000 form Lasey to Front for the FUTLIFE W-7 \$540,000 form Lasey to Front for the FUTLIFE W-9 \$340,000		5.10			\$328,000		
HAND DOLLOW FORM FORM SAID STREAM FORM TABLE STREAM FORM FORM FORM FUTURE W-S SAID COMPANY FORM FORM FORM FORM FUTURE W-S SAID COMPANY FORM FORM FORM FORM FORM FORM FORM FORM	in in Front from Mussel	-	_	A STATE OF THE STA			
FUTURE W-7 SS40,000	HA Batto Locus	- 2			20000		
FUTURE IW-9 S074,000	(36)	12			\$540,000	•	
				1147	5374,000		

**TABLES** 

MPROVEMENT COST PER COMMECTION & 3.4 PERSONSICONNECTION

NOR: 'Sese population estimate of 3,100 persons in 1930, Present estimated population of 4,267 persons (year 2027) francator in Case Informate Properticability fortion Pro-100 collegeogoals cerebrates of

Age (1) Table

# TABLE 18 - PROPOSED CAPITAL FACILITIES PLAN 2000/2009

PROJECTED POPULATION					27700	4900	5100	0099	0099	0099	_		
Control of the Control of Control of	EXISTING OR	ESTIMATED	DISCOUNT	ESTIMATED		#	MPROVEMENT COST PEH PERSON	TCOSTPER	PERSON				
12 SENETI PERIOD	FUTURE	LSOS	- [	2081	₹	3	8	*	s	×	*	TOTALS	WAS
₹.	FUTURE S.1	\$100,000	0.30	549,200	86						00	- <b>8</b>	8 8
•2" wase alan (H-A Hd., Cak to Havord Min Slotage)	EXISTING	\$132,000	0.85	\$112,200							38	-	*
<ol> <li>B 6" Water Main (14th, Locust to H.A. Rd.)</li> <li>Water Main (Oak, Hood to Front St.)</li> </ol>	EDOSTING EDOSTING	\$78,000	0.60	\$48,800	98 <del>1</del> 9						* 5	9 9	2 8
Well No. 2 Replacement and Tresment SUBTOTAL - 1st Benefit Pariod	FUTURE W-1	\$8,032,000	0.15	\$1,218,600				,,,,,,,,			9695	o BCS	\$896
2nd BENEFIT PERIOD	1	i	•	i	Tale I								
Repay loan from water fund SUBTICTAL - 2nd Benefit Period	EXISTING	\$203,685	OCT CONTRACTOR	S203,685		113	_				00	B E 5	S173
	•			2007		ž					3	9616	*
Well No. 2 (7th Day Well) Sprage and Booster Well No. 1 (5fton Well) Treatment	EXISTING	\$349,000	090	\$209,400 \$505 BOO			105				20.5		\$105
SUBTOTAL - 3rd Benefit Period				\$715,200			8				\$336	8	8
4th BENEFIT PERIOD New Office and Shop	FUTURE	2400,000	0.50	\$200,000				4			24	ij	
b Trunk Sewer 1,320 ft, and fitt station focated in H-A Rd. Calveen Rendal and 14 1/2 Ave.	FUTURE S-3	\$280,000		\$238,000		_					00	- 8 8	88
located in Oak St. between Front and IHA Rd.	EXISTING	554,000	080	543,200			-				••	ㅁ뚜	
SUBTOTAL - 4th Benefil Period				\$481,200				\$42 : \$159	I#		\$42	98 15	
5th BENGFIT PCRIOD 1st S. Plant Expansion (.53 MGD Capacity) 2nd S. Plant Expansion (.69 MGD Capacity)	EXISTING	St,079,250	08.0	5971,325					872		0 (	E.2	8
Erosion protection at WWTP ponds	FUTURES	\$635,500	080	\$571,950					8 22 8 22			<u> </u>	S. 13
Defineen 1470 a. And the WMTP  F. Torsk Camer 1 200 b. beauted in the text	FUTURE 5-4	\$298,000	0.70	5201,600			_		8		00	- R	8 g
between Hood and Hume R. York Sewer, 1 700 H for and in 14th Aus	FUTURE S-S	\$135,000	0.70	294,500			_	• •	27		000	- K	" DJ "
Delween H.A Ru, and Hood Water Storage and Booster Storage	FUTURE S-6	5191,000		5133,700					8		- 0	- R -	. 21.5
(250,000 gal, min.) 12" Waller main in 14 10 Ave from Journel to Hua Bu	EVEN THE WALL			000					, R 1		90	• • •	
Ved No. 3 Wed & Site Development	FUTURE W.2	\$1,420,000	0.80	21,136,000					4 Kg		8 %		2 23
SUBTOTAL - 5th Benefit Period	24 5000	3/30/00/0	n. Bec	\$8,360,575				,	9629 \$1,760		\$629	\$1,760	\$2,36
GIN BENEFIT PERIOD 12" Water Main (Hankord Mini Sociage to Front		·											
Smell 3rd S. Plan Expansion	AUTURE IN:3 RUTURE S	\$559,000	0.90	5475,150						,	00	00	88
Well 44 (Location not determined) 12" Water mein in Hood and 13th Ave.	FUTURE IN-5	55,000,000	080	54,000,000				,			00	90	, .
<ol> <li>Trank seems 1,900 h located in Oak St. between flood and the WWTP heacturies</li> </ol>	FITTINGES	ON COMES	8	000 300							000	000	
18" Trusk sewer - 550 B knoaked in Oak St. Columbia Walter and Hours	o o unatro	90		200			-				-	90	
12 Sewer and III station in IFA Rd to 13th 12 Sewer and III station in 14th from Histories to	FUTURE S-7	\$603,000		\$62,000				,			00	- 0	., .,
Dountary XX Sewer and 69 steken in Front from Messes	FUTURE S-10	2328,000		\$328,000							0	0	8
	AUTURE 5-11	000,1622		\$291,000							0.	0.	u, ,
7-4th to 13th	FUTURE W.7	\$540,000		\$540,000							00	0.0	, vi
Capacity	FUTURES	\$374,000 \$2,130,000	0.50	\$1,917,000							00	00	នន
SUBLOIAL - 6th Denetal Period				\$10,570,450	н		_		, .			33	ľ
TOTAL		200 301 103		000 000 100	1000	4100	4000			***			

Note: Sace population estimate of 3.100 persons to 1980.
Present estimated population of 4,257 persons (pex 2007)

\*\*Connections of 0.317373000, On daing solved throught to squal large and my present of the treatment connection or

## TABLE 1C - PROPOSED CAPITAL FACILITIES PLAN 2008/2009

PROJECTED POPULATION					4400	4800	5100	2500	0099	9600	٥			
	EXESTING OR	TOTAL ESTIMATED	DISCOUNT	DISCOUNTED		2	WPROVEMEN	AMPROVEMENT COST PER PERSON	PERSON					
PLANNED MAPROVEMENTS 1st BENEFIT PERIOD		DOST		TS	 3	3	*	3	3	3	67	¥ ,	TOTALS	S***
Well No. 1 Media Replacement WTP Bachwast By Pass Pionline	AVTURE S.T	\$100,000	<b>80</b>	500 000	0						_		0 g	នដូ
12" Water Main (H.A Rd., Oak to Hanford Nani			3									, ,	3 '	1
10" & Tivater Main (14th, Locust to H.A. Rd.)	EXISTING	\$78,000	8 9	546,800	8 8					_		8 %	0 0	Ŕä
12" Water Main (Claic, Modd to Front St.) Well No. 2 Replacement and Treatment	FUTURE W.1	\$6,032,000	0.15	S105,600	£ 86							. 95 95 95	0 0	<b>3 3</b>
SUBTOTAL - 1st Benefit Period				\$1,218,600		,						86 84	2	Š
and services the services of t	FUTURE	S594,500	0.0	\$178,350		98		····				00	88 5	8 5
SUBTOTAL - 2nd Benelik Period				\$382,035		\$212					<b></b>	8	\$212	ğ
and Benefitt PERIOD Well No. 2 (7th Cay Well) Sprage and Booster	EXISTING	5348,000	09:0	\$209,400								ā	0	500
Well No. 1 (Dillon Well) Treatment SUBTOTAL - 3rd Benefit Pedod		2843,000	09:0	\$715,200			253 0 5256 \$7					50 BB	- 8	\$263 \$358
4th BENEFIT PERIOD New Office and Shoo	301416	Supp and	20	000								ş	Ş	Š
6" Trank Server - 1,320 ft. and 88 station boosted in H-4 Pet Technolog Receipt and 14 1/2 and			200									, 00	, - 8	20.0
2" Trank Sewer - 1,300 ft located in Oak St. between Front and H-A Rd		000755		000 643				, <u>q</u>			_	000	905	32.2
SUBTOTAL - 4th Benefit Period				\$481,200				\$42 \$159			-	3	\$129	Š
Str BENEFIT PERIOD 1st S. Plant Function / \$7 MISO Conserted	CHICTORIC	61 070 250	5	2007			·			<u> </u>			2	ě
2nd S. Plant Expansion (.88 MSD Capacity) Erosion protection at WMVTP points	FUTURE S FUTURE S	54,650,000	0,0	54,185,000					961	<b>2</b> 22 12		• • •	8 8	\$1.196
12" Truth Sewer - 2,100 ft, located in Huma between 14th Ave, and the WWTP	FUTURE S-4	\$288,000	07.00	008,052	-					* %		00	08	v 8
Trunk Sewer - 1,200 ft, focated in 14th Ave. Derween Hood and Hume	FUTURE S-5	\$135,000	0.70	394,500						27		00	° 5	a ß
8" (runk Sewer - 1,700 ft. koafed in 14th Ave. between I+A Rd. and Hood	FUTURE S-6	\$191,000	0.70	5133,700						88		00	O pp	3 B
Water Storage and Boosler Station (250,000 gal. min.)		S430,000	89	S3H,000					33			g ¢	9 9	gg GF
12" Water main in 14 1/2 Ave. from Locust to H-A Rd. Well No. 3 West & Sie Development	FUTURE W-4	\$175,000	2, 2, 5, 80	\$122,500					% %	_		98 Kg	00	8 8
Well No. 3 Treatment SUBTOTAL - 5th Benetit Period		\$750,000	0.80	S8,360,575					171 \$829 \$1,760	ę	<u> </u>	171	51,760	517
GIN BENEFIT PERIOD 12" Water Main (Hanbort Mini Storam to Front														
	PUTURE W.3	\$559,000	0.65	\$475,150								00	00	26.5
ferménad) and 13th fue	PUTURE W.6	\$5,000,000	98	\$4,000,000								òò	000	s or a
	FINISE CA	2000	8	2204 8000								9.9	900	385
Trusk sewer - 550 R located in Oak St.		200	R C	Oraci Caro								9 63 6	000	6 66 i
12. Sower and fix status in the Put to 13th	PUTURE S.7	\$603,000	96'3	5603,000								90	00	N N
Control of the state of the sta	FUTURE S-10	\$328,000		\$328,000								0	0	36
	FUTURE S11	5297,000		000,1652								φ.	0.0	<b>36</b> 5
14th to 13th	AUTURE W.7	\$540,000		2540,000								9 9	0	1 24
	FUTURE W-	5274,000	080	\$1,917,000								00	۰ -	38 28
SUGLOLAL - BIT DEFINAL PENDS				510,519,450				. ,		8	98	34	<b>5</b> ;	σ <u>;</u>
TOTAL		100 301 103			****						ŀ		l	

NORE: Base population estimate of 3,100 persons in 1990.
Present estimated population of 4,500 persons (year 2007)
storist Pranceira of Date Represent Propressing Persons observations conhecutations of the Persons of

TABLE 2 ADOPTED (2008/2009) CONNECTION FEES	ONNECTIC	N FEES				
TYPE CONNECTION	ORD.	ORD. 1988-1	ORD. 1992-1	1992-1	MAXIMUM	MAXIMUM ALLOWED
	SEWER	WATER	SEWER	WATER	SEWER	WATER
Single Family Residence	2,000	1,050	2519	1971	6,637	5.899
Developer Credit	(200)	(320)			€	€
Apartments						
2 or more bedrooms	1,200	900	2016	1576	5,310	4,719
1 bedroom	725	450	1,210	946	3,186	2,831
Commercial/Institution						
Per fixture unit	54	25	90	49	237	147
Minimum fee	200	750	1,264	980	3,319	2,949
	222	200,	+02,1	200	3,313	

NOTES:

(A) Local Option, there is no maximum or minimum.

### TABLE 3 Summary of Projected Population Equivalents

ARMONA COMMUNITY SERVICES DISTRICT SEWER AND WATER CONNECTION FEE ANALYSIS

ESTIMATE OF POPULATION FOR ARMONA CSD PER KINGS COUNTY LAND USE ELEMENT

**EXISTING POPULATION ESTIMATE** 

3,500

### POPULATION ESTIMATE BEYOND EXISTING

		POPULATION	TOTAL
LAND USE	ACREAGE	DENSITY	POPULATION
RESIDENTIAL			
	40.00		
Very Low Density Low Density	16.07 107.833		153
Low-Medium Density	107.833	9.52	1,027
Medium Density	122.29	23.8	0
Medium-High Density	122.29	23.8	2,911
High Density	27.03	40.8	1.103
, ,	27,000	40.0	1,103
COMMERCIAL			0
Mulliple		]	0
Retail			ő
Rural	110	9.52	1,047
Service	16	23.8	381
Transportation	72	2	144
INDUSTRIAL			O
Heavy Industrial			0
Light Industrial	1	95.2	95
right moestna:	32	28.56	914
AGRICULTURAL			0
Limited Agriculture	1		0
Elithed Agriculture	assume no pop	ulation equivalent	Ó
PUBLIC	30000000000	ulation equivalent	0
. 0220	gasanne no bob	ulation equivalent	0
SCHOOLS	assume to be in	scluded already	0
		1	"[
SUBTOTAL			7,774
			]
TOTAL ULTIMATE POPULATION	I EQUIVALENT		11,274

### Sewer Demand Estimates:

High Density CR, CS Medium Density Low Density, Very Low Density Heavy Industrial Light Industrial	5000 gpd/acre 1000 gpd/acre 2500 gpd/acre 1000 gpd/acre 10000 gpd/acre 3000 gpd/acre	12 units per abre 2.8 units per abre 7 units per abre 2.8 units per abre 28 units per abre 8.4 units per abre	40.8 population per acre 9.52 population per acre 23.8 population per acre 9.52 population per acre 95.2 population per acre 28.56 population per acre
--	---	---	---

Assume 3,40 persons per unit

Per Kings County General Plan range of medium density units is 7 through 11 units per acre.