



# Staff Report

## City of Manhattan Beach

**TO:** Honorable Mayor Tell and Members of the City Council

**THROUGH:** David N. Carmany, City Manager

**FROM:** Jim Arndt, Director of Public Works  
Steve Finton, City Engineer

**DATE:** April 3, 2012

**SUBJECT:** Professional Services Agreement with Psomas (\$75,000) for Design Services Related to the Sepulveda Blvd. and 2<sup>nd</sup> Street Water Main Replacement Project, Additional Appropriation from Water Fund Reserves (\$25,000), and an Amendment to the Psomas Agreement for Computer Water System Modeling (Not-to-exceed \$5,000)

**RECOMMENDATION:**

Staff recommends that City Council:

- 1) Authorize the City Manager to award a Professional Services Agreement to Psomas in an amount not to exceed \$75,000 for professional engineering services to design the Sepulveda Blvd. and 2<sup>nd</sup> Street Water main Replacement Project;
- 2) Appropriate Water Fund reserves in the amount of \$25,000 to the Sepulveda Blvd. and 2<sup>nd</sup> Street Water main Replacement Project (Project No. 12829E); and,
- 3) Authorize the City Manager to approve an amendment to the Agreement with Psomas in an amount not-to-exceed \$5,000 for additional water system computer modeling.

**FISCAL IMPLICATIONS:**

Funding for the recommended contract would be provided from appropriations made by City Council for this Project in the Capital Improvement Projects as follows:

Table 1	
Budget	
Current Appropriation (Water Funds) for Design <i>Project No. 12829E</i>	\$100,000
<b>Recommended Appropriation from Water Fund Reserves for Design*</b>	<b>\$25,000</b>
Total Design Appropriation	\$125,000
Proposed FY2012-2013 Appropriation as indicated in the proposed FY 2012-13 through 2016-17 Capital Improvement Plan.	\$1,100,000
<b>Total</b>	<b>\$1,225,000</b>

\*Sufficient Water Fund reserves exist to fund the recommended appropriation.

Estimated expenditures for project management, geotechnical, topographic survey and engineering costs are indicated in Table 2 below.

<b>Table 2 Estimated Costs</b>	
Current Design Appropriation if Add'l Appropriation Approved	\$125,000
Project Management Costs VA & Sunbeam Consulting	\$28,108
Geotechnical Agreement Kling Consulting Group, Inc.	\$3,913
Topographic Survey Agreement KDM Meridian	\$12,410
<b>Recommended Design Agreement with Psomas</b>	<b>\$75,000</b>
<b>Recommended Amendment to Psomas Agreement for Water System Modeling</b>	<b>\$5,000</b>
Total Estimated Design Expenses	\$124,161
Balance	\$831

**BACKGROUND:**

This project is part of the City’s ongoing program to replace aging water mains within the City’s water distribution system. This project provides for construction of replacement water mains and new fire hydrants in Sepulveda Blvd. from Manhattan Beach Blvd. to 2<sup>nd</sup> Street and in 2<sup>nd</sup> Street from the Larsson Pump Station to the 2<sup>nd</sup> Street Pump Station. In addition, new or replacement pipes crossing Sepulveda Blvd. would be constructed at 3<sup>rd</sup>, 9<sup>th</sup>, 10<sup>th</sup>, and 11<sup>th</sup> Streets. (See attached location map)

The existing water mains on the west side of Sepulveda Blvd. are 70 to 80 years old. Replacing these mains and the main in 2<sup>nd</sup> Street will restore the useful lives of these mains and will assure the longevity and dependability of the system.

**DISCUSSION:**

In January 2011, Staff issued a request for proposal for On-Call Engineering Services. Fifty-three proposals were received. Staff reviewed the proposals and developed a shortlist of firms for consideration on City projects over the next three years. Five firms were identified for water main and sewer main design services: AKM Consulting Engineers, Cannon, Psomas, and Tetra Tech, Inc. and VA Consulting, Inc. VA Consulting, Inc. was retained to provide Program Management Services for portions of the City’s Water System Capital Improvement Program (including this project) and was therefore, not eligible to provide design services on this water main replacement project.

A Request for Engineering Design Services & Fees for design of the Sepulveda Blvd. and 2<sup>nd</sup> Street Water Main Replacement Project was issued to the consultants listed below. These consultants provided their proposal and fee (shown below).

- |                             |                  |
|-----------------------------|------------------|
| 1. Psomas                   | (\$ 75,000)      |
| 2. AKM Consulting Engineers | (\$ 79,570)      |
| 3. Cannon                   | (\$ 108,462)     |
| 4. Tetra Tech, Inc.         | (did not submit) |

City staff evaluated the proposals and ranked the firms based on qualifications and approach. Staff deems that the team, approach and fee proposed by Psomas to be the most effective proposal. Staff recommends that the design contract be awarded to Psomas.

#### Appropriation

A supplemental appropriation is required to fund the recommended design contract because design and Caltrans permitting will require more effort than originally anticipated. The following project elements are more extensive due to Caltrans oversight.

- Pavement rehabilitation in excess of simple trench repair
- Traffic control required for pavement rehabilitation
- Signing and striping for pavement rehabilitation
- Project construction impacts may warrant night work
- Greater coordination and review to obtain Caltrans permit

#### Amendment to agreement with Psomas

This project will install new pipelines connecting to the Larsson Street and 2<sup>nd</sup> Street Pump Stations. The consultant designing improvements to these pump stations recently raised a concern that the pipelines serving the stations may not be adequate to meet the demands of the larger capacity pumps to be installed. It is recommended that the water system be modeled to determine if larger or more lines are needed and to estimate system pressures when the larger pumps are operating. The computer model developed during the master plan effort would be used and several different operational scenarios would be modeled. This is critical to make sure the system operates as intended. It is recommended that the recommended Psomas Agreement be amended to include the additional water modeling. Psomas is currently working with the City's water model as part of the Hill Section water main replacement project. Their knowledge of the City's model would facilitate modeling in the Larsson/2<sup>nd</sup> Street area.

The need for additional water modeling was identified very late after the recommended contract documents were executed by the consultant and approved-as-to-form by the City Attorney. As a time saving measure, staff recommends that City Council authorize the City Manager to negotiate and approve an amendment to the recommended Psomas agreement for the water modeling services in an amount not-to-exceed \$5,000.

Schedule

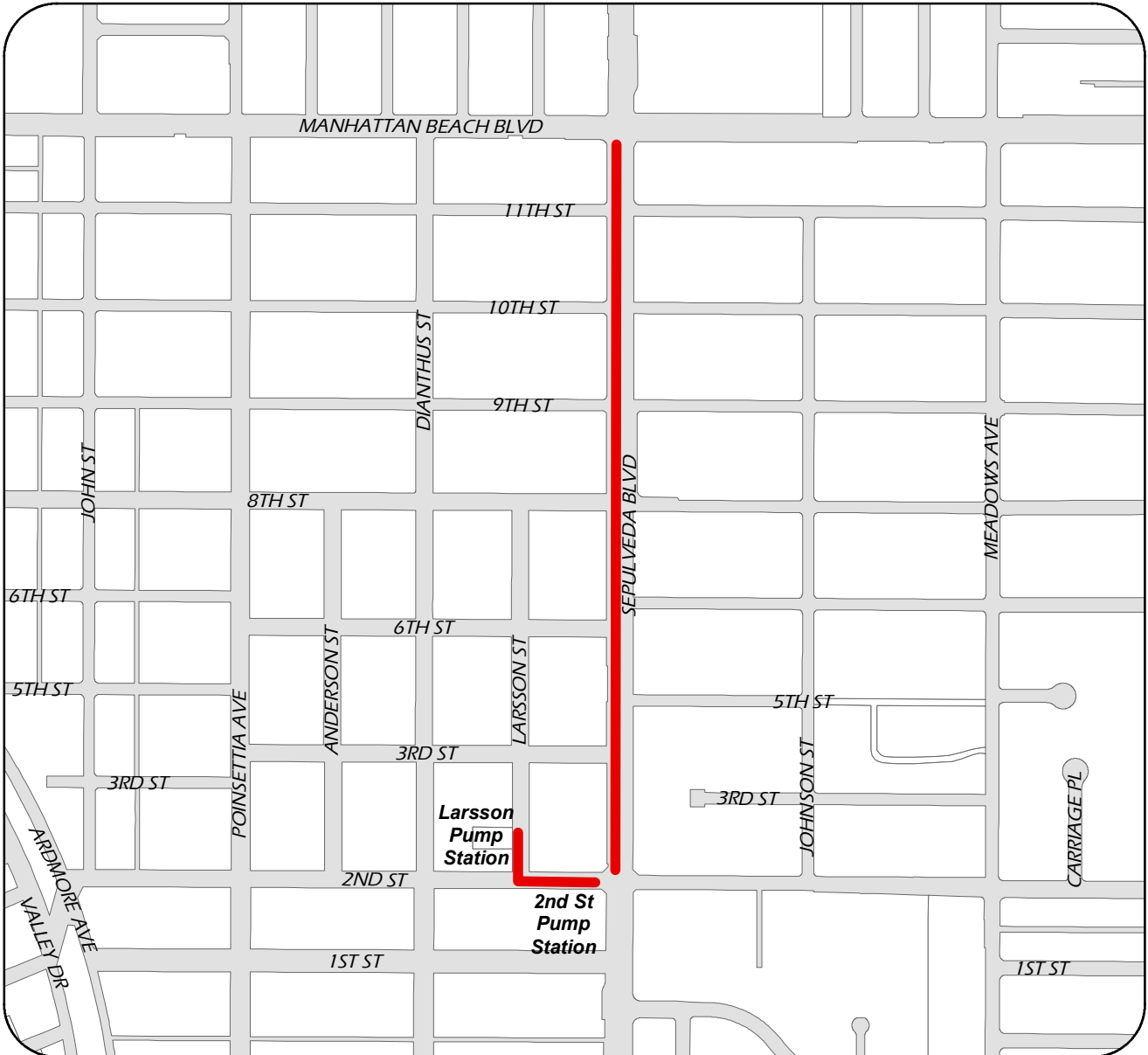
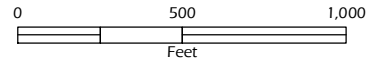
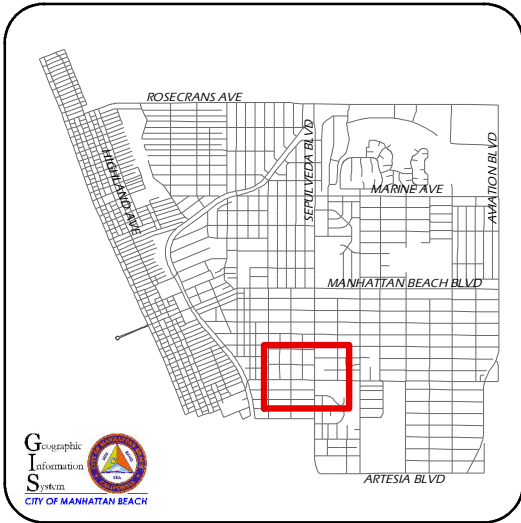
Staff expects that the plans and specifications for the Sepulveda Blvd. and 2<sup>nd</sup> Street Water Main Replacement Project will be completed and ready for bidding by January 2013 with construction in spring of 2013.

Attachments:

- 1) Map of the Sepulveda Blvd. and 2<sup>nd</sup> Street Water Main Replacement Project locations
- 2) Proposed Professional Services Agreement with Psomas for the Sepulveda Blvd. and 2<sup>nd</sup> Street Water Main Replacement Project.

xc: Henry Mitzner, Controller

# City of Manhattan Beach Sepulveda Blvd & 2nd St Water Main Replacement Project



# ATTACHMENT

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## AGREEMENT

THIS AGREEMENT is made this \_\_\_\_\_ day of \_\_\_\_\_ April, 2012 by the CITY OF MANHATTAN BEACH, a municipal corporation, ("CITY"), and Psomas, a consultant, ("CONSULTANT").

## RECITALS

The following recitals are a substantive part of this Agreement:

1. City is desirous of obtaining services necessary to design the Sepulveda Boulevard (Manhattan Beach Boulevard to 2<sup>nd</sup> Street) and 2<sup>nd</sup> Street (Sepulveda Boulevard to Larsson Street Pump Station) Water Main Replacement Project;
2. CONSULTANT is qualified by virtue of experience, training, education, and expertise to accomplish these services.

## AGREEMENT

THE PARTIES MUTUALLY AGREE AS FOLLOWS:

1. **Term of Agreement**. This Agreement shall terminate upon completion of Scope of Services, unless earlier terminated as provided below.

1.1 **Termination**. CITY and CONSULTANT shall have the right to terminate this Agreement, without cause, by giving fifteen (15) days written notice. Upon receipt of a termination notice, CONSULTANT shall:

- (1) Promptly discontinue all services affected (unless the notice directs otherwise); and
- (2) Promptly deliver all data, reports, estimates, summaries, and such other information and materials as may have been accumulated by CONSULTANT in performing the Agreement to CITY, whether completed or in progress. CONSULTANT shall be entitled to reasonable compensation for the services it performs up to the date of termination.

2. **Services to be Provided**. The services to be provided hereunder shall be *those set forth in Exhibit "A", Scope of Work*, which is attached hereto and incorporated herein by this reference.

3. **Compensation**. CONSULTANT shall be compensated as

follows:

3.1 Amount. Compensation under this Agreement shall not exceed Seventy-Five Thousand Dollars (\$75,000.00).

3.2 Payment. For work under this Agreement, payment shall be made per monthly invoice. For extra work not a part of this Agreement, written authorization by CITY will be required, **[payment shall be based on hourly rates in Exhibit "B"]**.

3.3 Expenses. CONSULTANT shall not be entitled to any additional compensation for expenses.

4. Professional Standards. CONSULTANT shall maintain or exceed the level of competency presently maintained by other similar practitioners in the State of California, for professional and technical soundness, accuracy and adequacy of all work, advice, and materials furnished under this Agreement.

5. Time of Performance. CONSULTANT shall complete all services required hereunder as and when directed by CITY **[as set forth in Exhibit "C"]**. However, CITY in its sole discretion may extend the time for performance of any service.

6. Employees and Subcontractors. CONSULTANT may, at CONSULTANT'S sole cost and expense, employ such other person(s) as may, in the opinion of CONSULTANT, be needed to comply with the terms of this Agreement, if such person(s) possess(es) the necessary qualifications to perform such services. If such person(s) is/are employed to perform a portion of the scope of work, the engagement of such person(s) shall be subject to the prior approval of the CITY.

7. Insurance Requirements.

7.1 Commencement of Work. CONSULTANT shall not commence work under this Agreement until it has obtained CITY approved insurance. Before beginning work hereunder, during the entire period of this Agreement, for any extensions hereto, and for periods after the end of this Agreement as indicated below, CONSULTANT must have and maintain in place, all of the insurance coverages required in this Section 7. CONSULTANT'S insurance shall comply with all items specified by this Agreement. Any subcontractors shall be subject to all of the requirements of this Section 7 and CONSULTANT shall be responsible to obtain evidence of insurance from each subcontractor and provide it to CITY before the subcontractor commences work.

All insurance policies used to satisfy the

requirements imposed hereunder shall be issued by insurers authorized to do business in the State of California. Insurers shall have a current A.M. Best's rating of not less than A-:VII unless otherwise approved by CITY.

7.2 Coverages, Limits and Policy Requirements.  
CONSULTANT shall maintain the types of coverages and limits indicated below:

(1) COMMERCIAL GENERAL LIABILITY INSURANCE - a policy for occurrence coverage, including all coverages provided by and to the extent afforded by Insurance Services Office Form CG 0001 ed. 11/88 or 11/85, with no special limitations affecting CITY. The limit for all coverages under this policy shall be no less than one million dollars (\$1,000,000.00) per occurrence. CITY, its employees, officials and agents, shall be added as additional insureds by endorsement to the policy. The insurer shall agree to provide the City with thirty (30) days prior written notice of any cancellation, non-renewal or material change in coverage. The policy shall contain no provision that would make this policy excess over, contributory with, or invalidated by the existence of any insurance, self-insurance or other risk financing program maintained by CITY. In the event the policy contains such an "other insurance" clause, the policy shall be modified by endorsement to show that it is primary for any claim arising out of the work performed under this Agreement. The City of Manhattan Beach Insurance Endorsement Form No. 1 (General Liability) must be executed by the applicable insurance underwriters.

(2) COMMERCIAL AUTO LIABILITY INSURANCE - a policy including all coverages provided by and to the extent afforded by Insurance Services Office form CA 0001, ed. 12/93, including Symbol 1 (any auto) with no special limitations affecting the CITY. The limit for bodily injury and property damage liability shall be no less than one million dollars (\$1,000,000) per accident. CITY, its employees, officials and agents, shall be added as additional insureds by endorsement to the policy. The insurer shall agree to provide the City with thirty (30) days prior written notice of any cancellation, non-renewal or material change in coverage. The policy shall contain no provision that would



make this policy excess over, contributory with, or invalidated by the existence of any insurance, self-insurance or other risk financing program maintained by CITY. In the event the policy contains such an "other insurance" clause, the policy shall be modified by endorsement to show that it is primary for any claim arising out of the work performed under this Agreement. The City of Manhattan Beach Insurance Endorsement Form No. 2 (Auto) must be executed by the applicable insurance underwriters.

(3) WORKERS' COMPENSATION INSURANCE - a policy which meets all statutory benefit requirements of the Labor Code, or other applicable law, of the State of California. Employers Liability Insurance with a minimum limit of no less than one million dollars (\$1,000,000) per claim. The policy shall contain, or be endorsed to include, a waiver of subrogation in favor of CITY.

(4) PROFESSIONAL ERRORS & OMISSIONS - a policy with minimum limits of one million dollars (\$1,000,000) per claim and aggregate. This policy shall be issued by an insurance company which is qualified to do business in the State of California and contain a clause that the policy may not be canceled until thirty (30) days written notice of cancellation is mailed to CITY.

7.3 Additional Requirements. The procuring of such required policies of insurance shall not be construed to limit CONSULTANT'S liability hereunder, nor to fulfill the indemnification provisions and requirements of this Agreement. There shall be no recourse against CITY for payment of premiums or other amounts with respect thereto. CITY shall notify CONSULTANT in writing of changes in the insurance requirements. If CONSULTANT does not deposit copies of acceptable insurance policies with CITY incorporating such changes within sixty (60) days of receipt of such notice, CONSULTANT shall be deemed in default hereunder.

Any deductibles or self-insured retentions must be declared to and approved by CITY. Any deductible exceeding an amount acceptable to CITY shall be subject to the following changes:

(1) either the insurer shall eliminate, or

reduce, such deductibles or self-insured retentions with respect to CITY and its officials, employees and agents (with additional premium, if any, to be paid by CONSULTANT) ; or

- (2) CONSULTANT shall provide satisfactory financial guarantee for payment of losses and related investigations, claim administration, and defense expenses.

7.4 Verification of Compliance. CONSULTANT shall furnish CITY with original endorsements effecting coverage required by this Agreement. The endorsements are to be signed by a person authorized by the insurer to bind coverage on its behalf. All endorsements are to be received and approved by CITY before work commences. Not less than fifteen (15) days prior to the expiration date of any policy of insurance required by this Agreement, CONSULTANT shall deliver to CITY a binder or certificate of insurance with respect to each renewal policy, bearing a notation evidencing payment of the premium therefor, or accompanied by other proof of payment satisfactory to CITY.

8. Non-Liability of Officials and Employees of the CITY. No official or employee of CITY shall be personally liable for any default or liability under this Agreement.

9. Non-Discrimination. CONSULTANT covenants there shall be no discrimination based upon race, color, creed, religion, sex, marital status, age, handicap, national origin, or ancestry, in any activity pursuant to this Agreement.

10. Independent Contractor. It is agreed that CONSULTANT shall act and be an independent contractor and not an agent or employee of CITY, and shall obtain no rights to any benefits which accrue to CITY'S employees.

11. Compliance with Law. CONSULTANT shall comply with all applicable laws, ordinances, codes, and regulations of the federal, state, and local government.

12. Ownership of Work Product. All documents or other information created, developed or received by CONSULTANT shall, for purposes of copyright law, be deemed works made for hire for CITY by CONSULTANT as CITY'S employee(s) for hire and shall be the sole property of CITY. CONSULTANT shall provide CITY with copies of these items upon demand and in any event, upon termination or expiration of the term of this Agreement.

13. Conflict of Interest and Reporting. CONSULTANT shall at all times avoid conflict of interest, or appearance of conflict of interest, in performance of this Agreement.

14. **Notices**. All notices shall be personally delivered or mailed to the below listed addresses. These addresses shall be used for delivery of service of process.

a. Address of CONSULTANT is as follows:

Psomas

3 Hutton Center Drive, Suite 200

Santa Ana, CA 92707

b. Address of CITY is as follows:

City of Manhattan Beach  
1400 Highland Ave  
Manhattan Beach, CA 90266

(with a copy to):

City Attorney  
City of Manhattan Beach  
1400 Highland Avenue  
Manhattan Beach, CA 90266

15. **Consultant's Proposal**. This Agreement shall include CONSULTANT'S proposal or bid which is incorporated herein. In the event of any inconsistency between the terms of the proposal and this Agreement, this Agreement shall govern.

16. **Licenses, Permits, and Fees**. CONSULTANT shall obtain a Manhattan Beach Business License, all permits, and licenses as may be required by this Agreement.

17. **Familiarity with Work**. By executing this Agreement, CONSULTANT warrants that:

- (1) it has investigated the work to be performed;
- (2) it has investigated the site of the work and is aware of all conditions there; and
- (3) it understands the difficulties and restrictions of the work under this Agreement. Should CONSULTANT discover any conditions materially differing from those inherent in the work or as represented by CITY, it shall immediately inform CITY and shall not proceed, except at CONSULTANT'S risk, until written instructions are received from CITY.

18. **Time of Essence**. Time is of the essence in the performance of this Agreement.

19. Limitations Upon Subcontracting and Assignment. Neither this Agreement, or any portion, shall be assigned by CONSULTANT without prior written consent of CITY.

20. Authority to Execute. The persons executing this Agreement on behalf of the parties warrant that they are duly authorized to execute this Agreement.

21. Indemnification.

21.1. Indemnity for Design Professional Services. CONSULTANT is considered a "design professional" as that term is defined in Civil Code Section 2782.8. In connection with its design professional services, CONSULTANT shall hold harmless and indemnify CITY, and its elected officials, officers, employees, servants, designated volunteers, and those CITY agents serving as independent Consultants in the role of CITY officials (collectively, "Indemnitees"), with respect to any and all claims, demands, damages, liabilities, losses, costs or expenses, including reimbursement of attorneys' fees and costs of defense (collectively, "Claims" hereinafter), including but not limited to Claims relating to death or injury to any person and injury to any property, which arise out of, pertain to, or relate to in whole or in part to the negligence, recklessness, or willful misconduct of CONSULTANT or any of its officers, employees, subcontractors, or agents in the performance of its design professional services under this Agreement.

21.2 Other Indemnities. In connection with any and all claims, demands, damages, liabilities, losses, costs or expenses, including attorneys' fees and costs of defense (collectively, "Damages" hereinafter) not covered by Section 21.1, CONSULTANT shall defend, hold harmless and indemnify the Indemnitees with respect to any and all Damages, including but not limited to, Damages relating to death or injury to any person and injury to any property, which arise out of, pertain to, or relate to the acts or omissions of CONSULTANT or any of its officers, employees, subcontractors, or agents in connection with the performance of this Agreement, including without limitation the payment of all consequential damages, attorneys' fees, and other related costs and expenses. With respect such Claims, CONSULTANT shall defend CITY, with counsel of CITY's choice, at CONSULTANT's own cost, expense, and risk and shall pay and satisfy any judgment, award, or decree that may be rendered against CITY. CONSULTANT shall reimburse CITY for any and all legal expenses and costs actually incurred by each of them in connection therewith or in enforcing the indemnity herein provided. CONSULTANT's obligation to indemnify shall not be restricted to insurance proceeds, if any, received by CONSULTANT or CITY. All duties of CONSULTANT under this Section shall survive termination of this Agreement.

22. Modification. This Agreement constitutes the entire agreement between the parties and supersedes any other

agreements, oral or written. No promises, other than those included in this Agreement, shall be valid. This Agreement may be modified only by a written agreement executed by CITY and CONSULTANT.

23. California Law. This Agreement shall be construed in accordance with the laws of the State of California. Any action commenced about this Agreement shall be filed in the appropriate branch of the Los Angeles County Municipal or Superior Court.

24. Interpretation. This Agreement shall be interpreted as though prepared by both parties.

25. Preservation of Agreement. Should any provision of this Agreement be found invalid or unenforceable, the decision shall affect only the provision interpreted, and all remaining provisions shall remain enforceable.

26. Entire Agreement. This Agreement supersedes any and all other agreements, either oral or in writing, between the parties with respect to the subject matter herein. Each party to this Agreement acknowledges that representations by any party not embodied herein, and any other agreements, statements, or promises concerning the subject matter of this Agreement, not contained in this Agreement, shall not be valid and binding. Any modification of this Agreement will be effective only if it is in writing signed by the parties. Any issue with respect to the interpretation or construction of this Agreement is to be resolved without resorting to the presumption that ambiguities should be construed against the drafter.

27. Attorneys' Fees. In the event that legal action is necessary to enforce the provisions of the Agreement, or to declare the rights of the parties hereunder, the parties agree that the prevailing party in the legal action shall be entitled to recover attorneys' fees and court costs from the opposing party.

IN WITNESS THEREOF, the parties hereto have executed this Agreement on the day and year first shown above.

CONSULTANT

By Joseph L. Boyle  
Joseph L. Boyle, Vice President

CITY OF MANHATTAN BEACH

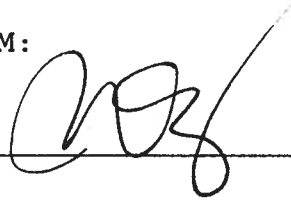
By David N. Carmany  
David N. Carmany, City Manager

ATTEST:

\_\_\_\_\_  
City Clerk

APPROVED AS TO FORM:

\_\_\_\_\_  
City Attorney



\_\_\_\_\_  
Public Works Approval

## EXHIBIT "A" SCOPE OF WORK

### SCOPE OF WORK

Based on the Scope of Services outlined in the Request for Proposal (RFP), which is incorporated herein by reference as an integral part of this proposal, the following is our proposed Scope of Work to complete the project.

#### Task I – Project Management, Meetings and Coordination

- 1.1 **Project Management** – Provide project management to ensure adherence to the project schedule and budget and to document all communication between Psomas and City. Submit monthly status reports detailing project progress and monthly invoice.  
*Deliverables: Monthly Status Reports; Monthly Invoices.*
- 1.2 **Meetings** – At the commencement of the project, Psomas will hold a "kick-off" meeting with City staff to discuss the scope and parameters of the project. Arrange for and participate in review meetings with City staff to review progress of the project work and exchange ideas and information at preliminary, 50%, and 90% design stages. We assume the final design comments will not require a review meeting, but may be addressed via telephone and/or email. Prepare and submit minutes for each project meeting summarizing the participating personnel, key discussion comments and decisions, documents delivered or received and actions required.  
*Deliverables: Meeting Minutes.*

#### Task II – Preliminary Investigations and Design

The task is dedicated to collecting information available from the City and performing a detailed field reconnaissance to get familiar with the project area and to note all visible relevant features along the pipeline alignment including major utility structures within the street right-of-way, and existing driveways to frontage properties.

- 2.1 **Records & Requirements Search** – Perform record and data search consisting of existing water, sewer, and other utilities along the subject alignment. In addition, document contact and coordinate with other public and private agencies/entities involved to inform them about the project and obtain their records, and approval. Utility companies will include Gas Company, Verizon, Southern California Edison, Adelphia/Time Warner, and others with infrastructures in the area.  
*Deliverables: Utility Coordination Tables and Coordination Correspondence.*
- 2.2 **Field Reconnaissance and Survey Verification** – Conduct detailed field check of project streets to note surface locations of existing utilities and invert depths, where possible. In addition, perform thorough field inspection of water meter locations, public improvement and private property improvements adjacent to the proposed project improvements. Compare field conditions with topographical map provided by the City.  
*Deliverables: None.*
- 2.3 **Preliminary Design Letter Report** – Prepare a preliminary plan and design report (Letter Report) summarizing pipe alignments, pipe size, connection locations, replacement fire hydrant locations, new fire hydrant locations, and construction phasing plans and traffic control plans. Select appropriate pipe alignments maintaining proper clearances from existing sewer mains and other utilities. Review preliminary plan with City Program Manager and City staff and incorporate input into final alignments prior to preparation of final PS&E.

Submit three (3) copies of the Preliminary Design Letter Report to the City for review.

*Deliverables: Preliminary Design Letter Report (3 copies).*

### **Task III — Final Engineering**

The Preliminary Design Letter Report will serve as the outline for executing the final design services which includes the following items:

- 3.1 **Public/Private Agency, Utility Coordination, Caltrans Permits** – Coordinate and submit the 90% Construction Drawings to utility companies with copies of all correspondence and submittals to the City. Comments received from the various agencies will be incorporated into the final design.

Prepare Caltrans Encroachment Permit application, traffic control plans, and coordinate with Caltrans to obtain approval and Encroachment Permit for construction of the project improvements.

*Deliverables: Agency Coordination Correspondence, Caltrans Encroachment Permit.*

- 3.2 **Utility Verification and Potholing** — Perform utility verification by potholing. Resulting pothole data will be accurately shown on the construction drawings. A maximum of 10 potholes have been included in this proposal. Potholing includes native backfill and permanent cold patch for pavement repair. Prepare traffic control plans and obtain an encroachment permit with Caltrans for potholing operations. For budgeting purposes, additional pothole is estimated at \$900.

*Deliverables: Potholing Summary.*

- 3.3 **Construction Plans, Technical Specifications, and Engineer's Estimate at 50%, 90%, and Final Stages of Design** – Prepare construction drawings, technical specifications, and engineer's construction cost estimate incorporating any comments received from the City, utility companies, and outside agencies. The construction specifications will include the City's contract boiler plate documents, construction sequencing, and technical specifications. The construction plans will consist of the following sheets at a minimum:

- A. Cover
- B. Construction and General Notes, Abbreviations, Legend, Standard Plans and Typical Details
- C. Sepulveda Boulevard Waterline Improvements (5 Sheets)
- D. Larsson Street to 2nd Street Waterline Improvements
- E. Sepulveda Pipe Crossings (2 Sheets)
- F. Connection Enlargement Details (2 Sheets)
- G. Miscellaneous Construction Details
- H. Traffic Control Plans — Sepulveda Boulevard (3 Sheets)

Three (3) sets of the Progress Submittal Package will be sent to the City for review at 50%, 90%, and Final Design Milestones. Construction plans will utilize the City's standard title block. Construction plans will show proposed pipeline alignment in plan and profile at horizontal scale of 1"=20' and vertical scale of 1"=2'. In addition, connection enlargement details will be at a scale of 1"=10' or greater. Technical specifications and cost estimates will be submitted with the 90% and Final design milestones.

*Deliverables: 3 copies of 50% Design Submittal, and 90% Design Submittal, and Final Design Submittal.*

- 3.4 **Final Deliverable** – Submit one bond copy of the construction plans, a reverse read mylar set, and one loose bound bond copy of the specifications, stamped by a registered civil engineer in State of California.

*Deliverables: Final Deliverable which includes one bond copy of construction plans; one mylar copy of construction plans; and one unbound copy of project specifications.*



- 3.5 **Record Drawings** – At the end of the project, provide a complete set of record drawings on mylar sheets incorporating redline comments from the Contractor of as-built conditions. Update individual City water intersection drawing sheets using City standard title block.  
*Deliverables: Record Drawings and City Water Intersection Drawing Sheets*

City will provide the following for use on the project:

- Available record drawings and documents relating to existing facilities,
- Survey base map for the project area in AutoCAD format which will include centerline, right-of-way lines, lot lines, above ground improvements such as monuments, manholes, catch basins, valve boxes, medians, striping, etc.
- Geotechnical Report for the project area.
- Construction markups for as-built drawings.

**CITY OF MANHATTAN BEACH**  
**EXHIBIT B**  
**Sepulveda Boulevard and 2nd Street Water Main Replacement**  
**Fee Proposal**

Scope of Work Tasks	Labor Hours							Total Hours	FEE	Sub (Pothole)	Direct Costs	Total Fee
	PM	QC	PE	TC	Staff	CADD	Admin					
	\$ 185	\$ 196	\$ 162	\$ 145	\$ 117	\$ 110	\$ 75					
<b>TASK I - Project Management, Meetings and Coordination</b>												
1.1 Project Management	6	0	0	0	0	0	3	9	\$1,335	\$0	\$0	\$1,335
1.2 Meetings	16	0	0	0	0	0	4	20	\$3,260	\$0	\$300	\$3,560
<b>Subtotal Task I -</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>29</b>	<b>\$4,595</b>	<b>\$0</b>	<b>\$300</b>	<b>\$4,895</b>
<b>TASK II - Preliminary Investigation &amp; Design</b>												
2.1 Records and Requirements Search	0	0	0	0	12	0	0	12	\$1,404	\$0	\$0	\$1,404
2.2 Field Reconnaissance and Survey Verification	0	0	0	0	16	0	0	16	\$1,872	\$0	\$75	\$1,947
2.4 Preliminary Design Letter Report	1	1	8	0	4	16	4	34	\$4,205	\$0	\$150	\$4,355
<b>Subtotal Task II -</b>	<b>1</b>	<b>1</b>	<b>8</b>	<b>0</b>	<b>32</b>	<b>16</b>	<b>4</b>	<b>62</b>	<b>\$7,481</b>	<b>\$0</b>	<b>\$225</b>	<b>\$7,706</b>
<b>TASK III - Final Engineering</b>												
3.1 Public/Private Agency, Utility Coordination, Caltrans	0	0	4	0	30	6	0	40	\$4,818	\$0	\$100	\$4,918
3.2 Utility Verification and Potholing	0	0	0	20	0	0	0	20	\$2,900	\$10,500	\$0	\$13,400
3.3 Prepare Plans, Specs, and Estimate (50%, 90%, and Final)	12	3	29	28	72	186	2	332	\$40,600	\$0	\$350	\$40,950
3.4 Final Deliverable	0	0	0	0	0	4	2	6	\$590	\$0	\$200	\$790
3.5 Record Drawings	0	1	0	0	0	2	23	26	\$2,141	\$0	\$200	\$2,341
<b>Subtotal Task III -</b>	<b>12</b>	<b>4</b>	<b>33</b>	<b>48</b>	<b>102</b>	<b>198</b>	<b>27</b>	<b>424</b>	<b>\$51,049</b>	<b>\$10,500</b>	<b>\$850</b>	<b>\$62,399</b>
<b>Total Estimated Hours and Fee -</b>	<b>35</b>	<b>5</b>	<b>41</b>	<b>48</b>	<b>134</b>	<b>214</b>	<b>38</b>	<b>515</b>	<b>\$63,125</b>	<b>\$10,500</b>	<b>\$1,375</b>	<b>\$75,000</b>

**Legend**

Psomas Staff	Subconsultant
PM - Project Manager (Joey Gutierrez, \$185/hr)	Pothole - Saf-R-Dig
QC - Quality Assurance (Joe Boyle, \$196/hr)	
PE - Project Engineer (Neha Gajjar, \$162/hr)	
TC - Traffic Control (Regina Hu, \$145/hr)	
SE - Staff Engineer/Permitting (Nancy Heim, \$117/hr)	
CADD - CAD Designer (John Kaneshiro, \$110/hr)	
Admin - Project Assistant Administration (Vanessa Scott, \$75/hr)	

**EXHIBIT "C"**

**TIME OF PERFORMANCE**

Notice to Proceed	April 3, 2012
Preliminary Investigation and Design	April 3 – July 27, 2012
Caltrans Encroachment Permit	July 27 – October 12, 2012
Final Engineering	October 12 – October 26, 2012
Submit Final Plans and Specs	October 29, 2012
Prepare "As Built" Drawings	June 28, 2013 (est. Completion of Construction)