



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: March 6, 2012

SUBJECT: Approval of a Professional Engineering Services Contract with PRP Engineering, Inc. for Design Services for the Larsson Street Pump Station and 2nd Street Booster Pump Station Upgrade Projects for an amount not-to-exceed \$ 108,080.00.

RECOMMENDATION:

Staff recommends that City Council Authorize the City Manager to approve a Professional Engineering Services Contract to PRP Engineering, Inc. in the amount of \$ 108,080.00 for design of the Larsson Street Pump Station and 2nd Street Booster Pump Station Upgrade Projects.

FISCAL IMPLICATIONS:

Water Funds in the amount of \$730,000 have been appropriated by City Council and are currently available for these projects as shown in Table 1 below. An additional appropriation in the amount of \$500,000 is identified in the FY2012-2016 Capital Improvement Plan (CIP) which would bring available appropriations to \$1,230,000.

Table 1 Budget (Water Funds)			
Project Title	Current Approp'ns	Proposed FY2012-2013	Total Proposed Budget
2nd Street Booster Pump Station* <i>Project No.11833E</i>	\$630,000		\$630,000
Larsson Street Pump Station Improvement* <i>Project No. 12828E</i>	\$100,000	\$500,000	\$600,000
Total	\$730,000	\$500,000	\$1,230,000

Anticipated expenditures are as follows:

Table 1 Anticipated Expenditures						
Project	Current Approp'ns	Project Management Costs VA & Sunbeam Consulting	Geotechnical & Topographic Survey Costs	Recommended Design Contract with PRP Engineering	Total Estimated Project Management and Engineering Costs	Estimated Balance of Approp's Available for Constructn
2 nd Street Booster Pump Station Project Project No. 11833E	\$630,000	\$19,676	\$5,355	\$38,605	\$63,636	\$566,364
Larsson Street Pump Station Improvement Project No. 12828E	\$100,000	\$18,739	\$5,355	\$69,475	\$93,569	\$6,431
Total	\$730,000	\$38,415	\$10,710	\$108,080	\$157,205	\$572,795*

*The additional \$500,000 appropriation in FY2012-13 would increase available construction funding from \$559,933 to \$1,059,933.

BACKGROUND:

The City's water system is composed of two pressure zones: the Main Pressure Zone and the Hill Area Pressure Zone (See map Attachment 1). The Main Pressure Zone serves the majority of the City and is pressurized by pumps at the Peck and Block 35 reservoirs. The Hill Area Pressure Zone is located at the physical high point of the City and requires supplemental pumping to maintain normal water system pressures. Water is pumped into the Hill Area Pressure Zone from the Main Pressure Zone through the Larsson Street Pump Station located at the Larsson Street Parquette adjacent to 217 Larsson Street (see **Figure 1**). A smaller supplemental pump station (2nd Street Pump Station) is located on 2nd Street adjacent to 111 Sepulveda Boulevard (see **Figure 2**). These pump stations do not have sufficient capacity and improvement is recommended.

Larsson Street Pump Station:

The Larsson Pump Station dates back to 1948. The pump station is located in an underground vault under the west sidewalk at the Larsson Street Parkette (see **Figure 1**). The station was last upgraded in 1999 with three new pumps and variable frequency drives and a new diesel generator. The existing structure has several cracks, and is in poor condition.

The existing three pumps are rated at 580 gallons per minute (gpm), and can deliver a maximum of 2,100 gpm. With a maximum day demand of 378 gpm, the fire flow available is approximately 1,700 gpm if 2nd Street Booster Pump Station is out of service. This is only 85 percent of the single family residential fire flow of 2,000 gpm, and 42.5 percent of the commercial fire flow of 4,000 gpm. The fire flow available during the peak hour demand of 713 gpm is significantly lower. The City Water Master Plan identified the following recommended upgrades:

- 1) Evaluate the existing structure, and upgrade as needed to extend the useful life of the facility.
- 2) Upgrade pumping capacity so that the facility can provide a total of 4,400 gpm.
- 3) Provide new motor controls and a larger back-up generator to handle the increased electrical demand of the larger pumps and motors.

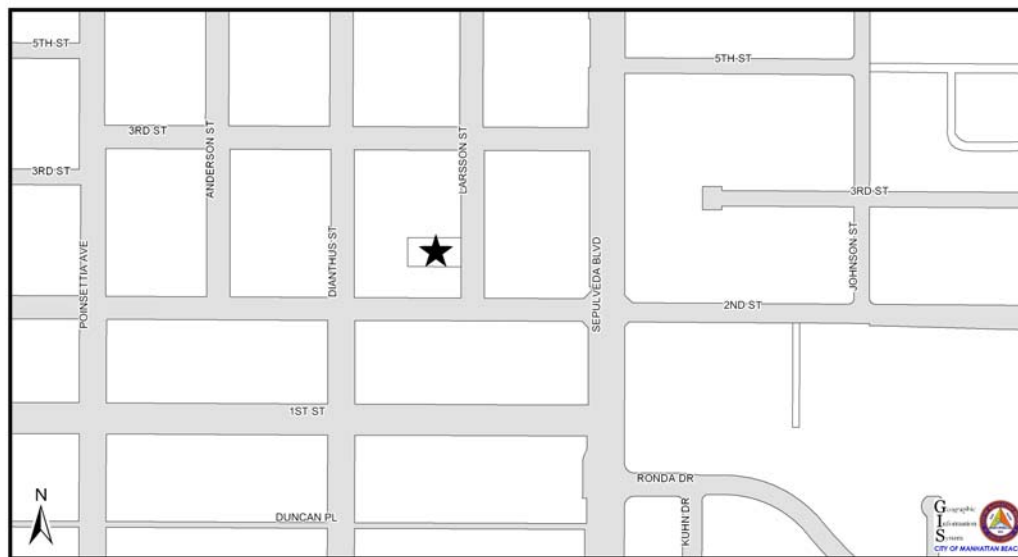


Figure 1. Larsson St. PS Project Location

2nd Street Booster Pump Station:

The 2nd Street booster pump station is a back-up pump station in the Hill Area Pressure Zone. The 2nd Street Pump Station is called to provide backup water system pressure in the case of fire or failure of the Larsson Street Pump Station.

The 2nd Street Pump Station is situated in an underground vault in the 2nd Street parkway immediately adjacent to an office building (see **Figure 2**). It is equipped with an 80 horsepower natural gas powered horizontal centrifugal split case booster water pump. The current engine dates to the 1970's and spare parts are often difficult to locate. The City Water Master Plan identified the following specific issues:

- 1) The pump station's pressure switch type control system is slow to respond to system pressure changes resulting in premature starting and stopping of the station, replacement parts are not readily available, and the control system has exceeded its anticipated service life.
- 2) The natural gas engine experiences excessive vibration when running. This excessive vibration can be felt when standing on the sidewalk above the pump station's vault structure and inside an adjacent office building. A vibration isolation system and new exhaust system is recommended.

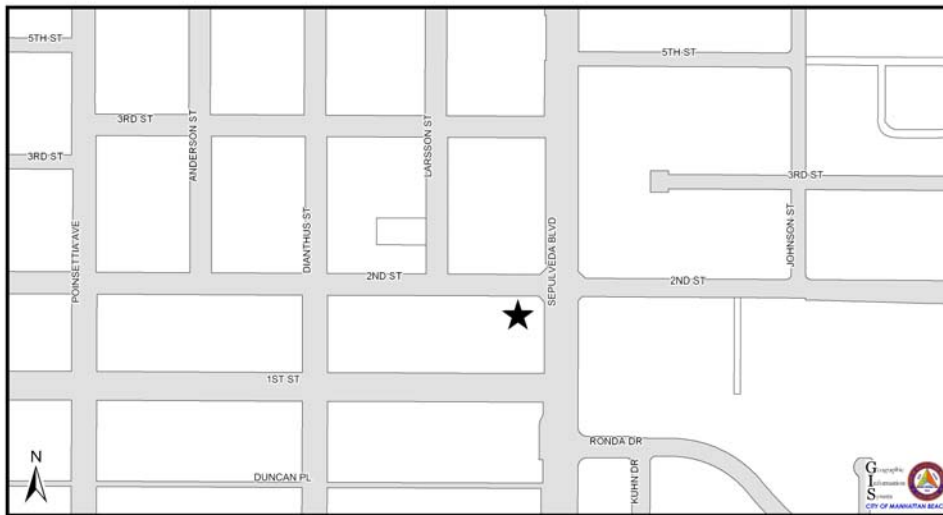


Figure 2. 2nd St. BPS Project Location

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. Six firms were identified for water main, sewer main Pump Station design services: AKM Consulting Engineers, Cannon, Psomas, Tetra Tech, Inc., PRP Engineering, 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 Project and is therefore not eligible to provide design services on this pump station upgrade project.

A Request for Engineering Design Services & Fees for design of the Larsson Street Pump Station and 2nd Street Booster Pump Station Upgrade Projects was issued to the consultants listed below. These consultants provided their proposal and fee (shown below).

1. AKM Consulting Engineers (not to exceed \$233,424.00)
2. Cannon (not to exceed \$145,790.00)
3. Tetra Tech, Inc. (not to exceed \$148,102.00)
4. Psomas (not to exceed \$176,300.00)
5. PRP Engineering, Inc. (not to exceed \$108,080.00)

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

Scope of Work

PRP Engineering will perform a system analysis to determine the most cost effective alternative to achieve the pumping capacity needed for peak domestic service and fire flows. They will determine if the pump stations can be consolidated at the Larsson site or if both station locations will continue to be needed. After City approval of the final pump station configuration, PRP Engineering will prepare plans, specifications and estimates for the pump station upgrades.

Budget

As part of the recommended agreement, PRP Engineering will identify the most cost effective alternative and develop construction cost estimates. It is estimated that \$1,059,933 will be available for construction after completion of design. The goal is to rehabilitate and utilize existing underground vaults if possible. Additional funding may be required if extensive underground vault work is needed. A request for additional construction funding would be presented for City Council consideration prior to advertising for construction bids.

Schedule

Staff expects that the plans and specifications for the Larsson Street Pump Station and 2nd Street Booster Pump Station Upgrade Projects will be completed and ready for bidding by August of 2012 with construction in the fall 2012.

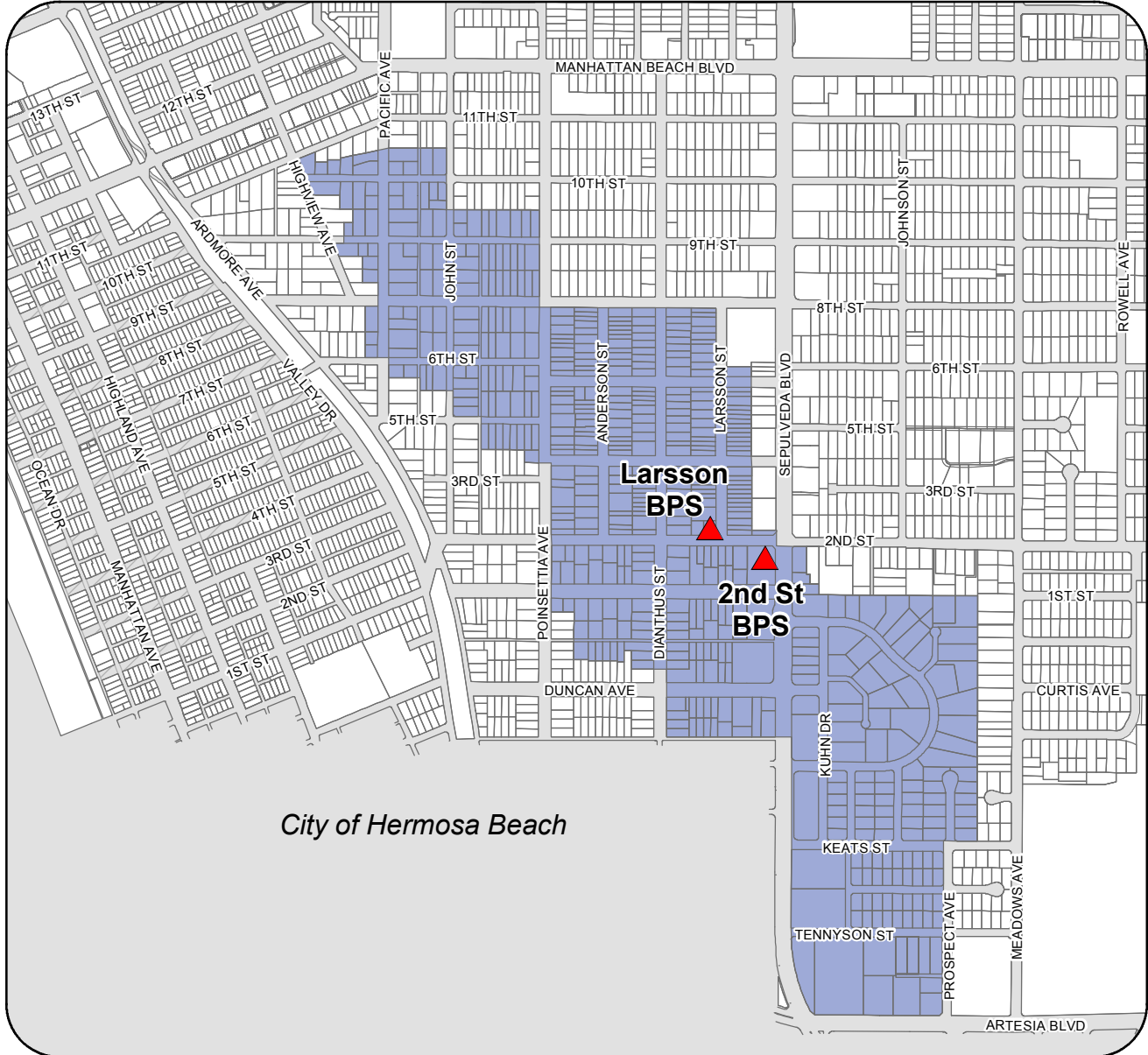
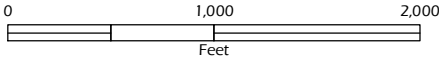
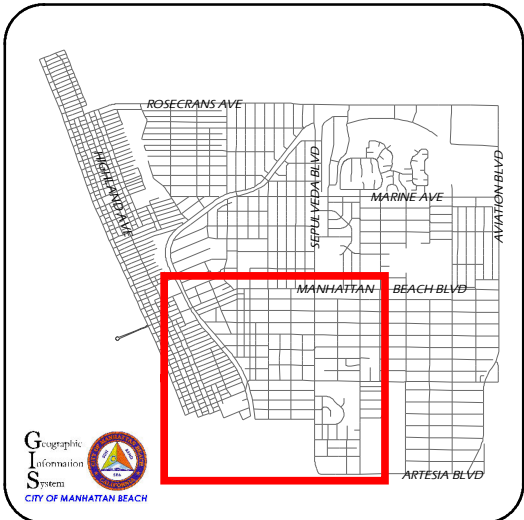
Attachments:

- 1) Map of Pressure Zone and pump station locations.
- 2) Proposed Professional Services Agreement with PRP Engineering, Inc. for the Larsson Street Pump Station and 2nd Street Booster Pump Station Upgrade Projects.

xc: Henry Mitzner, Controller

City of Manhattan Beach

Hill Area Pressure Zone



ATTACHMENT 2

CONTRACT, PRP ENGINEERING

AGREEMENT

THIS AGREEMENT is made this _____ day of March, 2012 by the CITY OF MANHATTAN BEACH, a municipal corporation, ("CITY"), and PRP Engineering, Inc., a consultant, ("CONSULTANT").

RECITALS

The following recitals are a substantive part of this Agreement:

1. City is desirous of obtaining services necessary to design Larsson Street Pump Station Upgrades Project and 2nd Street Booster Pump Station Upgrades;
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.

follows: 3. Compensation. CONSULTANT shall be compensated as

3.1 Amount. Compensation under this Agreement shall not exceed one hundred eight thousand and eighty dollars (\$108,080.00)

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:

PRP Engineering, Inc.
4568 Brookhurst Street, Suite 185
Westminster, CA 92683

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

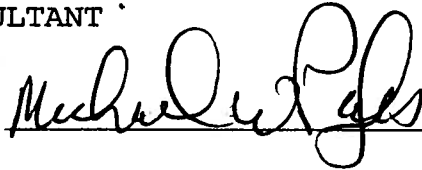
and all other agreements, either oral or in writing, between the parties with respect to the subject matter herein. Each party to this Agreement acknowledges that representations by any party not embodied herein, and any other agreements, statements, or promises concerning the subject matter of this 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 are 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



CITY OF MANHATTAN BEACH

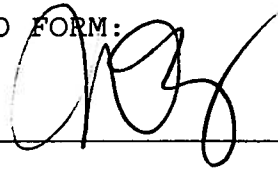
By

City Manager

ATTEST:

City Clerk

APPROVED AS TO FORM:



City Attorney

Public Works Approval

EXHIBIT "A"
SCOPE OF SERVICES

SCOPE OF SERVICES:

The Consultant will perform Project design as described below:

- 1) Research all utilities within the affected project areas. This includes notifying the Gas Company, Verizon, Southern California Edison, and Adelphia/Time Warner and any other utility present.
- 2) Conduct *detailed* field check of project areas to note surface locations of existing utilities and invert depths, where possible. In addition, perform thorough field inspection of adjacent public and private property improvements.
- 3) Prepare a single Basis of Design Report, which evaluates alternatives for upgrade of the Larsson Street Pump Station and 2nd Street Booster Pump Station. Conduct a firm capacity and risk assessment evaluation to confirm the need for both facilities. Develop the final design flows, pump and motor alternatives and selection, pump station layout and improvements, and standby power needs for the facilities to be upgraded. The result of the BODR will be to identify the most cost-effective upgrades to the facilities, to be carried forward to final design. Confirm BODR findings with City staff, and define the proposed improvements and construction phasing plan.
- 4) Coordinate hydraulic design with the consultant conducting design of water main replacement in the high pressure zone. Allow one meeting for this task.
- 5) Prepare detailed plans for the proposed pump station improvements utilizing the City's standard title block (An example plan sheet is attached to indicate required level of drawing detail). Plans are to be submitted at the 50%, 90% and final levels of design. A separate set of plan drawings will be prepared for each facility.

Comments received from the City after the 50% and 90% submittals are to be addressed in the subsequent plans. Allow one week of City review time between submittals in the Project Schedule.
- 6) Review the technical specifications section of the City's standard construction documents and provide comment and feedback with the 90% plan submittal. The City will be responsible for the final preparation of a separate set of the project construction Contract Documents and Specifications for each facility.
- 7) Prepare a separate detailed cost estimate for the construction of each of the projects, to be submitted with the 90% plans.
- 8) Attend project meetings, and prepare meeting minutes. A kickoff meeting, three status meetings, and a hydraulic coordination meeting are anticipated. Both pump station projects will be discussed at each of the meetings.

EXHIBIT "A"
SCOPE OF SERVICES

- 9) Submit monthly status reports detailing progress separately for each project.
- 10) At the end of the projects, provide a complete set for each facility of as-built/record drawings on mylar sheets.
- 11) Bid phase and construction phase services are not requested at this time.

The City will provide to the Consultant:

- 1) Available record drawings and documents relating to the facilities.
- 2) Survey base mapping for the project areas, in CADD format.
- 3) A geotechnical report for the project sites.

EXHIBIT "B"
FEE SCHEDULE

The Consultant will perform design services for the project at the Standard hourly rates as described in the attached table 3 and 4 of the PRP Fee Proposal.

Table 3

City of Manhattan Beach
 Fee Summary
 2nd St. Pump Station Rehabilitation
 Larsson St. Pump Station Rehabilitation

Task SHT	Description	PRP Engineering Inc.				Mullen & Associates				Total Budget
		\$135 Principal	\$125 PMPE	\$80 Designer	Costs	\$120 PMPE	\$75 Designer	Costs	Total Budget	
	2nd Street Pump Station									
1	Utility Research		2	2	410					410
2	Site Investigation		2	2	410					410
3	Preliminary Design Report	2	20	12	3,730		4	480		4,210
4	Hydraulic Summary		2		250					250
5	Pump Station Plan Set									0
	2nd Street Pump Station									
1	Title Sheet, sheet index, Location & Vicinity Maps				0					0
2	Site Plan		2	6	730					730
3	Engine Piping Plans	2	12	16	3,050					3,050
4	Engine Piping Sections	2	12	16	3,050					3,050
5	Miscellaneous Details	2	12	16	3,050					3,050
6	Ventilation & Engine Appurtenances	2	12	16	3,050					3,050
7	General Notes, Symbols, Abbreviations, etc	2	12	12	2,730					2,730
8	Electrical Site Plan				0		2	600		600
9	Single Line Diagram & Details				0		12	2,475		2,475
10	Pump Control Diagrams				0		12	2,475		2,475
	Subtotal Costs	10	62	82	15,660		38	5,115		23,775
6	Specification						6	730		730
7	Engineer's Estimate	2	16		2,270					2,990
8	Project Meetings (7)		6		750		4	480		1,230
9	Provide As-built Record Drawings on Mylar		14		1,750		8	960		2,710
	Budget Costs	14	4	6	980		2	540		1,520
	Miscellaneous Reprographics		128	104	26,210		62	11,295		37,505
	Total Budget	14	128	104	1,000		62	100		1,100
					27,210		62	11,395		38,605

Table 4

City of Manhattan Beach
 Fee Summary
 2nd St. Pump Station Rehabilitation
 Larsson St. Pump Station Rehabilitation

Task / SHT	Description	PRP Engineering Inc.				Mullen & Associates				Total Budget
		Principal	PM/PE	Designer	Costs	Principal	PM/PE	Designer	Costs	
1	Larsson Street Pump Station									
2	Utility Research									
3	Site Investigation									
4	Preliminary Design Report									
5	Hydraulic Summary									
	Pump Station Plan Set									
	Larsson Pump Station									
1	Site Plan	2	2	6	730					730
2	Piping Plans	2	12	20	3,370					3,370
3	Piping Sections	2	12	20	3,370					3,370
4	Miscellaneous Details	2	12	20	3,370					3,370
5	Ventilation & Floor Drain Plan	2	12	16	3,050					3,050
6	Generator Plan and Section	2	12	16	3,050					3,050
7	Temporary Pumping Plan	2	16	20	3,870					3,870
8	Demolition Plan	2	16	20	3,870					3,870
9	General Notes, Methods, Abbreviations, etc	2	16	20	3,870					3,870
10	Electrical Site Plan	2	16	20	3,870					3,870
11	Power & Lighting Plan	2	16	20	3,870					3,870
12	Single Lane Diagram & Details	2	16	20	3,870					3,870
13	Pump Control Diagrams	2	16	20	3,870					3,870
14	Generator Plan & Details	2	16	20	3,870					3,870
15	Generator Plan & Details	2	16	20	3,870					3,870
6	Specification	26	110	158	29,900	5	62	65	13,055	42,955
7	Engineer's Estimate	2	24		3,270		8		960	4,230
8	Project Meetings (7)		6		750		6		320	1,070
9	Diesel Tank Permit		14		1,750		8		960	2,710
10	Provide As-built Record Drawings on Mylar		12		1,500		4		1,500	3,000
	Miscellaneous Reprographics		6		1,390		4		1,000	2,390
	Budget Costs	36	230	194	49,130	5	96	74	17,745	66,875
	Total Budget	36	230	194	2,400	5	96	74	200	2,600
	Grand Total	50	358	288	78,740	8	158	120	29,340	108,080

2nd Street Pump Station Total Hours: Principal 17, PM/PE 190, Designer 150
 Larsson Pump Station Total Hours: Principal 41, PM/PE 326, Designer 268
 Total Project Hours: 58, 516, 418

EXHIBIT "C"
TIME OF PERFORMANCE

Notice to Proceed
Preliminary Design
Final Design
"As Built" Drawings

March 6, 2012
March 9, 2012 – April 18, 2012
April 18, 2012 - June 27, 2012
March 31, 2013
(est. Completion of Construction)