



## PROPOSAL and CONTRACT

DATE Feb 15, 2017

PROPOSAL SUBMITTED TO  
City of Manhattan Beach C/O Shawn Igoe

STREET  
3621 Bell Avenue

CITY, STATE, AND ZIP CODE  
Manhattan Beach, CA, 90266

ENGINEER  
N/A

DATE OF PLANS  
N/A

QB 17 - 0037

PHONE  
(310) 802-5315

JOB NAME  
Emergency Storm Lift Station Repairs

JOB LOCATION  
Manhattan Beach

JOB PHONE  
N/A

Dear Mr. Igoe,

**FRM** proposes to furnish all labor, materials and equipment to complete the following scope of work;

### SCOPE OF WORK:

#### General-

Provide submittals to the city for all electrical panels, pumps, and sensory devices installed. Provide a CAL-OSHA permit required confined space entry for the duration of the work that takes place in the vault. Provide insurance and bonding as required by the City. Mobilize to and from the work locations. Provide per diem to employees for the duration of the project. Comply with Prevailing wage requirements. The project will be performed on a Time and Materials Basis using FRM's current prevailing wage rate sheet.

#### First Mobilization-

1. Provide rigging necessary to remove the existing 50hp and 75hp motors. Transport the motors to Perry's Electric in Santa Maria California. Work with Perry's to have the motor repaired from damages sustained from being flooded.
2. Remove the 5 hp pump from service, determine what fittings if any will be required to reinstall the new pump.
3. Remove the existing electrical components that will be replaced due to flooding.
4. Make the final electrical arrangement plan and materials list.
5. Dispose of the materials removed from the pump station.

#### Second Mobilization

1. Install new electrical components sized per NEC/manufacture standards that consist of the following;
  - a. Meter main panel with 300a breaker.
  - b. Cutler hammer 400a rated transfer switch.
  - c. 480v three phase distribution panel with breakers sized for each load.
  - d. 75hp pump panel, panel will have a 200va 120v transformer for the control circuit. The panel will be wired to operate automatically based off of an ultrasonic level transmitter; provide a dry contact run and fail signal to din rail connectors for future SCADA integration.
  - e. 50hp pump panel, panel will have a 200va 120v transformer for the control circuit. The panel will be wired to operate automatically based off of an ultrasonic level transmitter; provide a dry contact run and fail signal to din rail connectors for future SCADA integration.
  - f. 5hp pump panel, panel will have a 200va 120v transformer for the control circuit. The panel will be wired to operate automatically based off of an ultrasonic level transmitter; provide a dry contact run and fail signal to din rail connectors for future SCADA integration.
  - g. 15KVA transformer for single phase power.
  - h. 120/240v single phase distribution panel with breakers sized for the loads.
  - i. Pump Control Panel- ultra-sonic level transmitters, redundant bypass float system.
  - j. Lighting system- install new occupancy sensor and lights for the control room, provide new lights and switch for the pump vault.

- k. Pump vault emergency stop switch.
  - l. Ventilation fan.
  - m. Courtesy outlets.
  - n. Surge protection.
2. Install new electrical troughs around the perimeter of the electrical area. Install each component and provide a conduit drop from the enclosure to the trough using rigid piping and myers hubs. Install ancillary components (lights, outlets switches etc.) and provide new conduits to each piece of equipment. Pull sized conductors to and from each component as necessary, wire sizing will be determined by NEC standard for each load.
  3. Install a new 5hp Gould's Pump identical to the existing. Reconnect the discharge piping as necessary.
  4. Install the 50hp and 75hp motors onto the existing bases and using the existing shafting. Reset the bowl height on each pump to the height it was previously installed at.
  5. Drain the lubrication system on the 50hp and 75hp pumps. Remove the drain plug and capture the oil/water from the lubrication channel. Flush the lubrication system with new oil in effort to remove any entrained water from the flood.
  6. Replace the 120v single phase sump pump and reconnect electrical and plumbing as necessary.
  7. After power is restored to the station perform startup on all pumps, panels, automation systems, transformers, etc including rotation tests and full load amperage on the pumps. Program automation equipment as designated by the City.

All of the above work to be completed in a substantial and workmanlike manner according to standard practices for the sum of  
Not to exceed One Hundred Sixty Thousand Dollars

(\$NTE \$160,000.00 )

**Payments are due Net 30 days from the date of invoice unless stated otherwise in this contract.**

Any alteration or deviation from the above specifications involving extra cost of materials or labor will only be executed upon written orders for same, and will become an extra charge over the sum mentioned in this contract. All agreements must be made in writing. This proposal is valid for 30 days.

**NOTICE**

**Contractors are required by law to be licensed and regulated by the Contractors State License Board. Any questions concerning a contractor may be referred to the registrar of the board whose address is**

**CONTRACTORS STATE LICENSE BOARD  
1020 N Street, Sacramento, California 95814**

Respectfully Submitted,

**FLUID RESOURCE MANAGEMENT**

BY Michael Ellison

License No. 937346

Digitally signed by Michael Ellison  
DN: cn=Michael Ellison, o=Fluid Resource Management, email=michael@fluidrm.com, c=US  
Date: 2017.02.15 15:50:22 -0800

**ACCEPTANCE**

You are hereby authorized to furnish all materials and labor required to complete the work mentioned in the above proposal, for which The City of Manhattan Beach agrees to pay the amount mentioned in said proposal, and according to the terms and conditions thereof (See conditions on next page).

DATE: \_\_\_\_\_

ACCEPTED BY: \_\_\_\_\_

**NOTICE UNDER THE MECHANIC'S LIEN LAW (CALIFORNIA CODE OF CIVIL PROCEDURE, SECTION 1181 ET SEQ.), ANY CONTRACTOR, SUBCONTRACTOR, LABORER, SUPPLIER OR OTHER PERSON WHO HELPS TO IMPROVE YOUR PROPERTY BUT IS NOT PAID FOR HIS WORK OR SUPPLIES, HAS A RIGHT TO ENFORCE A CLAIM AGAINST YOUR PROPERTY. THIS MEANS THAT, AFTER A COURT HEARING, YOUR PROPERTY COULD BE SOLD BY A COURT OFFICER AND THE PROCEEDS OF THE SALE USED TO SATISFY THE INDEBTNESS. THIS CAN HAPPEN EVEN IF YOU HAVE PAID YOUR OWN CONTRACTOR IN FULL, IF THE SUBCONTRACTOR, LABORER, OR SUPPLIER REMAINS UNPAID.**