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## **ADDENDUM NO. 1**

**DATE: APRIL 17, 2017**  
**TO: ALL PLAN HOLDERS OF THE:**  
**BOYS RANCH WELL 2A JACKSON WELL #3 PROJECT**  
**FROM: DAVID GITTLESON – CITY OF MORGAN HILL**  
**SUBJECT: ADDITIONS/CHANGES**

### **UNDER "SPECIFICATIONS" (Bid Proposal)**

**REPLACE:**  
Bid Schedule  
**WITH:**  
Revised Bid Schedule

### **UNDER "TECHNCIAL SPECIFICATIONS"**

**REPLACE:**  
Section 10050- Building  
**WITH:**  
Revised Section 10050-Building  
**REPLACE:**  
Section 02215- Well Destruction  
**WITH:**  
Revised Section 02215-Well Destruction  
**ADD:**  
Data Sheets for existing Boys Ranch and Jackson wells

### **ADDENDUM ACKNOWLEDGMENT**

Bidder acknowledges receipt of this addendum, which shall be attached to the proposal.

\_\_\_\_\_  
Contractor's Representative

\_\_\_\_\_  
Date

**THIS DOCUMENT AND THE ATTACHMENTS SHALL BECOME PART OF THE  
PROJECTS SPECIFICATION**

attachments: REVISED BID SCHEDULE, REVISED SECTION 10050 BUILDING, REVISED SECTION 02215 WELL  
DESTRUCTION

## REVISED BID SCHEDULES "A"-“E” – GENERAL

This Bid Schedule must be completed in ink and must be included with the sealed Bid Proposal. The unit cost for each item must be inclusive of all costs, whether direct or indirect, including profit and overhead. The sum of all amounts entered in the "Extended Total" column must be identical to the Base Bid price entered in Section 1 of the Bid Proposal Form. Quantities shown are required for bid purposes and may or may not be final pay quantities. Actual quantities, if different, must be substantiated during the Project by the Contractor (either by field measurement, trucking tags, or other means acceptable to the Engineer).

### REVISED Schedule "A" - Boys Ranch #2A Well Improvements:

Bid Item	Description of Bid Item	Approx. Quantity	Unit	Unit Price	Extended Total
A-1	Mobilization	1	LS	\$	\$
A-2	Project Records and Submittals	1	LS	\$	\$
A-3	Preservation and Cleanup	1	LS	\$	\$
A-4	Earthwork	1	LS	\$	\$
A-5	Paving	1	LS	\$	\$
A-6	Chain Link Fencing	1	LS	\$	\$
A-7	Concrete	1	LS	\$	\$
A-8	Painting	1	LS	\$	\$
A-9	Not Used				
A-10	Signs and Safety Equipment	1	LS	\$	\$
A-11	Pipe (Station, Distribution, and Drainage)	1	LS	\$	\$
A-12	Valves and Related Appurtenances	1	LS	\$	\$
A-13	Vertical Turbine Components	1	LS	\$	\$
A-14	Disinfection of Wells, Pumps, and Piping	1	LS	\$	\$
A-15	Performance Testing and Facility Startup	1	LS	\$	\$
A-16	Electrical	1	LS	\$	\$
<b>Base Bid Schedule "A" Total (Items A-1 – A-16):</b>				<b>\$</b>	

Abbreviations:

CY: Cubic Yard, HR: Hour, LF: Linear Feet, LS: Lump Sum

**REVISED Schedule "B" - Jackson #3 Well Improvements:**

Bid Item	Description of Bid Item	Approx. Quantity	Unit	Unit Price	Extended Total
B-1	Mobilization	1	LS	\$	\$
B-2	Project Records and Submittals	1	LS	\$	\$
B-3	Preservation and Cleanup	1	LS	\$	\$
B-4	Earthwork	1	LS	\$	\$
B-5	Paving	1	LS	\$	\$
B-6	Chain Link Fencing	1	LS	\$	\$
B-7	Concrete	1	LS	\$	\$
B-8	Painting	1	LS	\$	\$
B-9	Building	1	LS	\$	\$
B-10	Signs and Safety Equipment	1	LS	\$	\$
B-11	Pipe (Station, Distribution, and Drainage)	1	LS	\$	\$
B-12	Valves and Related Appurtenances	1	LS	\$	\$
B-13	Vertical Turbine Components	1	LS	\$	\$
B-14	Disinfection of Wells, Pumps, and Piping	1	LS	\$	\$
B-15	Performance Testing and Facility Startup	1	LS	\$	\$
B-16	Electrical	1	LS	\$	\$
<b>Base Bid Schedule "B" Total (Items B-1 – B-16):</b>				<b>\$</b>	

Abbreviations:

CY: Cubic Yard, HR: Hour, LF: Linear Feet, LS: Lump Sum

**REVISED Schedule "C" - Boys Ranch Well #2 Destruction:**

Bid Item	Description of Bid Item	Approx. Quantity	Unit	Unit Price	Extended Total
C-1	Mobilization	1	LS	\$	\$
C-2	Inspection of Well	1	LS	\$	\$
C-3	Well Perforation	58	LF	\$	\$
C-4	Placement of Sealing Material	8	CY	\$	\$
C-5	Site Restoration, Cleanup, and Reports	1	LS	\$	\$
C-6	Removal of Pumping Equipment	1	LS	\$	\$
<b>Base Bid Schedule "C" Total (Bid Items C-1 – C-6):</b>				<b>\$</b>	

Abbreviations:

CY: Cubic Yard, HR: Hour, LF: Linear Feet, LS: Lump Sum

**REVISED Schedule "D" - Boys Ranch Well #3 Destruction:**

Bid Item	Description of Bid Item	Approx. Quantity	Unit	Unit Price	Extended Total
D-1	Mobilization	1	LS	\$	\$
D-2	Not used				
D-3	Inspection of Well	1	LS	\$	\$
D-4	Well Perforation	83	LF	\$	\$
D-5	Placement of Sealing Material	28	CY	\$	\$
D-6	Site Restoration, Cleanup, and Reports	1	LS	\$	\$
<b>Base Bid Schedule "D" Total (Bid Items D-1 – D-6):</b>				<b>\$</b>	

Abbreviations:

CY: Cubic Yard, HR: Hour, LF: Linear Feet, LS: Lump Sum

**REVISED Schedule "E" - Jackson Well #1 Destruction:**

Bid Item	Description of Bid Item	Approx. Quantity	Unit	Unit Price	Extended Total
E-1	Mobilization	1	LS	\$	\$
E-2	Removal of Pumping Equipment	1	LS	\$	\$
E-3	Inspection of Well	1	LS	\$	\$
E-4	Removal of Well Pedestal	1	LS	\$	\$
E-5	Well Perforation	78	LF	\$	\$
E-6	Placement of Sealing Material	11	CY	\$	\$
E-7	Site Restoration, Cleanup, and Reports	1	LS	\$	\$
<b>Base Bid Schedule "E" Total (Bid Items E-1 – E-7):</b>				<b>\$</b>	

Abbreviations:

CY: Cubic Yard, HR: Hour, LF: Linear Feet, LS: Lump Sum

<b>TOTAL BASE BID FOR SCHEDULES "A", "B", "C", "D", &amp; "E" (TOTAL = A+B+C+D+E)</b>	<b>\$</b>
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END OF REVISED BID SCHEDULE

## **REVISED SECTION 10050 – BUILDING**

Addendum #1

### **Bid Item No. B-9**

#### **PART 1 - GENERAL**

##### **1.01 SCOPE**

- A. This Section covers all work necessary to furnish materials required for modification of the pump station buildings. The Contractor shall furnish all labor and materials needed to complete the work included in this section, complete.

##### **1.02 SUBMITTALS**

- A. Contractor shall submit manufacturer's specifications and installation instructions for the following products, in accordance with SECTION 01330 - PROJECT RECORDS AND SUBMITTALS. Include laboratory test reports and other data to show compliance with specifications (including specified standards).

#### **PART 2 - MATERIALS**

##### **2.01 CONCRETE**

- A. All concrete shall comply with the requirements of SECTION 03300 - CONCRETE.

##### **2.02 PAINTING**

- A. All painting shall comply with the requirements of SECTION 09900 - PAINTING.

##### **2.03 SUMP PUMP (Jackson Site Only)**

- A. The sump pump shall be a 1/4 HP, thermoplastic submersible sump pump with built-in float switch, Model #3YU69 as manufactured by Dayton or approved equal.

##### **2.04 REDWOOD FENCING (Jackson Site Only)**

- A. Redwood slats shall be 1"x8"x6' nailed with a spacing of about 1/4". The upper and side rails shall be 2x6 pressure treated wood. The three center rails shall be shall be 2x4 pressure treated wood and one shall be nailed to the upper 2x6 rail. The bottom 2x4 rail shall be installed about 6" above grade at an elevation similar to remaining fence rails. The middle 2x4 rail shall be installed at a center height similar to remaining fence rails. Nails shall be 10d galv for the slats to the rails and 16d galv for the top 2x6 to the upper 2x4 rail. Rail to side rails are toe-nailed 10d galv.

## **2.05 MOLDED FIBERGLASS GRATING (Jackson Site Only)**

- A. Molded fiberglass grating shall be made in one-piece construction by interweaving continuous thoroughly wetted fiberglass strand with a sodium hypochlorite and ammonia hydroxide corrosion resistant resin system with ultraviolet (UV) inhibitors. Grating shall be a minimum of 2-inches thick and 2-inches square mesh designed to support a minimum of 200-pounds per square foot uniform load with deflection not to exceed 0.250 inches, and shall be the manufacturer's standard color. Surface shall be concave top. Grating shall be McNichols Fibergrate, Strongwell Duragrate, Gridwalk High Strength Molded Grating, or approved equal.
- B. All fasteners including clips, bolts, nuts and washers shall be type 316 stainless steel grating clips.
- C. Grating supports shall be constructed of fiberglass with a corrosion resistant Vinyl Ester resin system conforming to ASTM E84 Class 1 and ASTM D635.

## **2.06 MISCELLANEOUS HARDWARE**

### **A. Wood Screws**

Wood screws shall be FS FF-S-111C and Am-1.

### **B. Nails**

All nails shall be Common wire, FS FF-N-105a and Int. Am-2. Box nails are not permitted unless specifically noted. Use annular ring shank and spiral type nails where called for on the Drawings.

### **C. Bolts and Nuts**

Bolts and nuts shall be FS FF-B575C and FS-FF-N-836C and Am-1.

### **D. Lagbolts**

All lagbolts shall be FS FF-B-561b.

### **E. Expansion Bolts**

Expansion bolts shall be Red Head, We-It, or equal.

### **F. Washers**

Washers shall be malleable iron or steel plate, cut washers are not permitted.

### **G. Gauge Metal Items**

All gauge metal items (11 gauge and lighter) shall be fabricated from steel sheet, heavily galvanized.

## **PART 3 - EXECUTION**

### **3.01 MOLDED FIBERGLASS GRATING**

- A. Contractor shall use a heavy-duty rotary saw with either a masonry carbide or diamond coated blade with the panel turned bottom-side up. All cut edges shall be ground smooth using a coarse grit open coated (resin) grinding disk. All cut surfaces shall be coated with a light coating of a two-part resin system or a urethane spray paint to prevent corrosion of glass fibers. Safety precautions shall be taken when cutting fiberglass materials including safety goggles, dust mask, and gloves to protect the eyes, reduce dust inhalation and prevent skin irritation.
- B. Panels shall be supported on all sides and attached to the supporting framework with hold down clips. A minimum of four clips per side are required for full size panels. Use end panel clips to unite two adjacent panels, where panels cannot be supported on all sides.

## **PART 4 – MEASUREMENT AND PAYMENT**

All work as specified herein, satisfactorily completed, shall be paid for on a Lump Sum basis as stated in **Bid Item Schedule** for the item listed below:

**Bid Item No. B-9 – BUILDING (JACKSON #1)**

**-END OF SECTION-**

## REVISED SECTION 02215 -WELL DESTRUCTION

### Addendum #1

**Bid Item No. C-2 through C-6**

**Bid Item No. D-2 through D-6**

**Bid Item No. E-2 through E-7**

## **PART 1 - GENERAL**

### **1.01 - SCOPE OF WORK**

The work to be completed as part of this project includes the destruction of Boy's Ranch wells 2 and 3, and Jackson well No. 1. The purpose of the work is to properly seal the wells to prevent vertical migration of water between the aquifers penetrated by the wells and from the ground surface. All work shall be performed in conformance with the applicable regulations of the Santa Clara Valley Water District (SCVWD) and the State of California Department of Water Resources.

#### **Summary of Wells and Work to be Performed**

Each well shall be destroyed in according to all applicable local and state regulations. The work generally includes:

- Removal and disposal of pumping equipment (if equipped)
- Preparing well for video inspection
- Performing video inspection
- Submission of final destruction plan and permits to SCVWD
- Destruction of well pedestal (if required)
- Perforation of well casing
- Placement of sealing material in well
- Disposal of fluid displaced from the well destruction process.
- Site Cleanup
- Submission of Well Completion Report and Records

**Boys Ranch Well No. 2** is located next to the pump station building. The pumping equipment shall be removed by Contractor. The pedestal shall be left in place. The well casing shall be perforated from 102 to 160 feet bgs and filled with 11 sack sand/cement grout. The sand cement grout shall be brought up to the top of the well pedestal, finished and made ready for use by the City.

**Boys Ranch Well No. 3** is located adjacent to the pump station building. The pumping equipment has been removed from the well. The Well is located directly under the discharge piping from Well No. 3A. The discharge piping is equipped with a removable spool above the pedestal, see detail on sheet C-1B in the plans. The Contractor shall

remove the spool prior to well destruction operations. The pedestal shall be left in place. The well casing shall be shot perforated from 47 to 130 bgs and filled with neat cement. The neat cement shall be brought to the top of pedestal, finished and made ready for use by the City.

**Jackson Well No. 1** is in the pump station building. Access to the well/pumping equipment is through a removable roof section. The well pedestal and casing shall be removed to one foot below the existing building floor level. Well casing shall be shot perforated from 20 to 98 feet bgs and filled with neat cement. The neat cement shall be brought to one foot below floor level. The excavated floor area shall be filled with concrete to the existing level of the floor and made ready for use by the City.

The following table includes all currently available information for each well to be destroyed as part of this project.

	<b>Boys Ranch No. 2</b>	<b>Boys Ranch No. 3</b>	<b>Jackson No. 1</b>
Pump Installed	Yes	No	Yes
Well Diameter (in)	16	14	14
Well Depth (ft)	366	291	410
Liner Diameter (in)	NA	10	10
Liner Depth (ft)	NA	280	400
Seal Depth (ft)	100	45	0*
Perforated Interval (Well) (ft)	161-180, 196-206, 216-246, 256-296, 316-346	132-142, 150-158, 176-218, 260-279	112-410
Perforated Interval (Liner) (ft)	NA	166-218, 250-280	100-400

\* No seal depth noted on WCR, assuming no seal.

## 1.02 CONTRACTOR'S QUALIFICATIONS

Contractor destroying the wells shall have a valid California C-57 Water Well Contractors License. The well destruction Contractor shall have previously completed five similar projects as described herein in the last four years and shall be able to demonstrate this to the satisfaction of the City. All Subcontractors shall be lawfully licensed for the work they are contracted to perform and shall have be able to demonstrate experience to the satisfaction of the City.

## 1.03 INSPECTION OF SITE

The Contractor shall inspect the work site and note all existing conditions before submitting a bid for this project.

The contractor shall be responsible for determining the subsurface conditions and extent of underground foundations that may not be detectable by casual observation and must take this into consideration when submitting their bid. The City does not guarantee the accuracy of the data provided. Information sources used to develop specifications will be made

available to the Contractor upon request. No allowances shall be made for expenses incurred as a result of failure to examine the sites and available data.

#### **1.04 COORDINATION/COOPERATION**

The Contractor shall notify the City at least three (3) working days in advance of the tentative starting date. The Contractor shall coordinate well destruction activities with other Contractors that may be working concurrently at the project sites to minimize conflicts and down time of the well stations.

The Contractor shall be responsible for contacting and coordinating with all utility companies with regards to the location of existing underground facilities in the construction area. The Contractor shall call Underground Service Alert at (800) 642-2444, at least 2 working days before commencement of underground work for location of underground facilities.

#### **1.05 PRESERVATION OF PROPERTY**

The Contractor shall use such means as are necessary to confine all work to the well station and adjacent properties as directed by the City.

Utility facilities damaged, temporarily disconnected, abandoned or relocated as a result of construction shall be repaired/reconnected or properly abandoned as directed by the governing utility at the Contractor's expense.

#### **1.06 PERMITS, BONDS, LICENSES AND INSURANCE**

The Contractor shall procure all permits, bonds, licenses and insurance, pay all charges and fees, and give all notices necessary and incidental to the prosecution of the work.

The Contractor shall prepare, pay applicable fees, and submit the Well Destruction Application(s) as required by Santa Clara Valley Water District (SCVWD).

#### **1.07 PUBLIC CONVENIENCE AND SAFETY**

The Contractor shall be responsible for assuring that the work site is safe and secure and that temporary coverings are provided whenever there is an interruption in work. All excavations shall be secured and protected from the public, animals, and debris when not under direct control of the Contractor.

### **PART 2 - PRODUCTS**

#### **2.01 SEALING MATERIALS**

The slurries shall consist of the following mixtures:

City of Morgan Hill  
Boy's Ranch #2A and  
Jackson Well #3 Pump Stations  
LSCE No. 15-5-053

02215-3

Bid Set  
March, 2017  
Addendum #1- Well Destruction

- 1) Neat Cement
  - Materials: a) Potable Water  
b) Type I or II Portland Cement
  - Mixture: 5.2 to 5.8 gallons of water to every 94-pounds of cement with retarder as specified by manufacturer
  
- 2) Sand/Cement Grout
  - Materials: a) Potable Water  
b) Type I or II Portland Cement  
c) Clean washed sand – free of clay or other impurities
  - Mixture: 7 gallons of water to 94-pounds of cement and 188-pounds of sand (11 sack mix)
  
- 3) Concrete
  - Materials a) Potable Water  
b) Type I or II Portland Cement  
c) Clean washed 3/8 aggregate – free of clay or other impurities
  - Mixture 5.3 gallons of water to 94-pounds of cement and 473-pounds of aggregate

## **PART 3 - EXECUTION**

### **3.01 MOBILIZATION**

Mobilization shall include procuring and paying for all required permits, transportation of personnel, equipment and operating supplies to and from the site, providing portable sanitary facilities, maintaining fencing and barricades suitable to keep unauthorized personnel away from construction activities around the site and other necessary facilities at the site.

### **3.02 REMOVAL OF PUMPING EQUIPMENT**

#### **Jackson Well No. 1**

The pumping equipment shall be removed by Contractor. Access to the well/pumping equipment is through a removable roof section. See pump profile sheet at the end of Section 02215 for equipment details.

**Boys Ranch Well No. 2** is located next to the pump station building. The pumping equipment shall be removed by Contractor. See pump profile sheet at the end of Section 02215 for equipment details.

The City shall retain ownership of the turbine motors. The Contractor shall deliver the turbine motors to the Cities Corporation yard. All other pumping equipment and discharge assemblies removed from the wells shall be properly disposed of by the Contractor.

### **3.03 INSPECTION OF WELL**

A video survey with side scan capabilities shall be conducted on each well to determine the present condition of the well structure, confirm location of perforation and determine the amount of fill. The Contractor shall add water to the well for a minimum of 24 hours before conducting the video surveys. Water for flushing the well will be available at the site from a hose bib.

The video survey shall be delivered to the Engineer for review. If the Engineer determines that the video survey is not clear enough to see the well structure the Contractor shall conduct another video survey at no additional cost to the City.

Based upon the results of the video inspection and Engineers review, the Contractor shall submit a final well perforation schedule, destruction plan and well destruction permit to the SCVWD for approval.

### **3.04 PEDESTAL REMOVAL**

#### **Jackson No. 1**

The well pedestal and casing shall be removed to one foot below the existing building floor level. Debris generated as part of the pedestal destruction shall be disposed by the Contractor

#### **Boys Ranch Well No. 2 and 3**

The well pedestals shall remain in place.

### **3.05 PREPARATION FOR SEALING**

The wells shall be cleaned so that all undesirable materials, obstructions, or debris that could interfere with the well destruction process are removed and disposed of prior to perforating and cementing.

### **3.06 WELL DESTSTRUCTION**

Well destruction includes perforation of each well, placement of sealing material, and well head completion.

#### **A. Well Perforation**

Each well casing and liner shall be perforated sufficiently to allow the sealing material to pass through the casing and liners and fill any void space that may exist between the well casing and the borehole. The method of perforating shall be submitted to the Engineer for approval before final destruction plan is submitted to the SCVWD.

The wells shall be perforated as follows:

**Boys Ranch Well No. 2**

The well casing may be perforated either by mills knife or by shot perforation.

- Mills Knife Perforation scheduled - The blank casing shall be perforated from 102 feet to 160 feet below ground surface at four (4) knife cuts per foot. Each cut shall be 90 degrees apart.
- Shot Perforation schedule - The blank casing shall be perforated from 102 feet to 160 feet below ground surface at one shot per foot.

**Boys Ranch Well No. 3**

The well casing shall be shot perforated at one shot per foot between 47 feet and 130 below ground surface.

**Jackson Well No. 1**

The well casing shall be shot perforated at one shot per foot between 10 feet and 98 feet below ground surface.

**B. Sealing Material**

The well casing shall be filled with sealing material as follows:

	<b>Boys Ranch No. 2</b>	<b>Boys Ranch No. 3</b>	<b>Jackson No. 1</b>
<b>Sealing Material</b>	11-Sack Slurry	Neat Cement	Neat Cement

The estimated volume of sealing material is as follows:

	<b>Boys Ranch No. 2</b>	<b>Boys Ranch No. 3</b>	<b>Jackson No. 1</b>
<b>Estimated Sealing Material Volume (yards)</b>	28	8	11

Sealing material in excess of what is estimated above required to complete destruction of well structure according to specifications, will be billed on a per yard basis as verified by the City.

**C. Placement of Seal Material**

The following requirements shall be observed while placing sealing material in wells to be destroyed:

1. All displaced fluids from sealing operations shall be contained and properly disposed of by the Contractor.
2. Each well will be filled with the appropriate cement mix as described in Section 2.1 of this Section.

3. Seal material shall be placed in the well using the positive displacement tremie pipe method. Sealing material shall be placed in one continuous operation. The end of the tremie pipe shall remain submerged below the surface of the slurry during the entire sealing procedure.
4. To assure that the well is filled and voids or bridging of the material do not exist, verification shall be made that the volume of material placed in the well is at least equal to the volume listed in Section 3.6.2.

#### **D. Wellhead Completions**

**Boys Ranch Wells No. 2 and No. 3** – Sealing material from the destruction process shall be brought up to the level of the concrete pedestal and shall be finished smooth and level.

**Jackson Well No. 1** – Sealing material from the destruction process shall be brought to one (1) foot below building floor. The excavated area resulting from the removal of the pedestal shall be filled with six (6) sack concrete and brought to the level of the building floor. The concrete shall be finished smooth and level and made ready for use by the City.

### **3.07 TEMPORARY COVER**

During periods when no work is being performed on the well, such as overnight or while waiting for sealing material to set, the well and surrounding excavation, if any, shall be covered. The cover shall be sufficiently strong and well enough anchored to prevent the introduction of foreign material into the well and to protect the public from a potentially hazardous situation.

### **3.08 STANDBY TIME**

If it becomes necessary for the City to perform work that will require the Contractor, his crew, and equipment to stand idle, the City will request in writing to cease operations and shall state the anticipated extent or duration thereof. The Contractor shall promptly cease operations. This idle time shall be considered Standby Time.

"Standby Time," shall be made on an hourly basis based on the unit price for the actual standby time. The actual cost (hours x unit cost) shall be adjusted in the final project balance change order.

### **3.09 SITE RESTORATION, CLEANUP, AND REPORTS**

Prior to the final acceptance of the work, the Contractor shall prepare and deliver to the City the following reports.

1. A California Water Well Driller's Report shall be fully completed in the format required by the State of California.

2. The Contractor shall prepare two final prints of each log or survey, daily tour reports, and cement tickets.

Within 30 days from the dates of well destruction, the Contractor shall file the required reports with the California State Department of Water Resources in accordance with Water Code Section 13751.

All materials and fluids generated during the destruction process and equipment removed from the wells by the Contractor in accordance with this project shall become property of the Contractor and shall be removed off-site and disposed of legally at the Contractor's expense, with the exception of the vertical hollow shaft motors, which the Contractor shall transport to the Cities corporation yard.

#### **PART 4 - MEASUREMENT AND PAYMENT**

Direct payment will be made only for the items listed in the bid proposal. Items of work not listed, but necessary to satisfactorily complete the work, will not be paid for separately, and all costs in connection therewith shall be considered included for payment with the listed items. The City, or Cities agent, shall measure and determine all quantities subject to payment.

#### **4.2 REMOVAL OF PUMPING EQUIPMENT – Bid Item No. C-6, E-2**

**Measurement:** Removal of the pumping equipment.

**Payment:** Removal of the pumping equipment, satisfactorily completed, will be paid for at the applicable contract unit price.

**Unit of Measure:** Lump Sum

#### **4.3 INSPECTION OF WELL - Bid Item No. C-2, D-3, E-3**

**Measurement:** Satisfactory completion of video survey to the total depth of well.

**Payment:** Video survey shall be paid for at the applicable contract unit price.

**Unit of Measure:** Lump Sum

#### **4.4 REMOVAL WELL PEDESTAL - Bid Item No. E-4**

**Measurement:** Removal of the well pedestal.

**Payment:** Removal of the well pedestal, satisfactorily completed, will be paid for at the applicable contract unit price.

**Unit of Measure:** Lump Sum

**4.5 WELL PERFORATION – Bid Item No. C-3, D-4, E-5**

**Measurement:** Successful perforation of the well.

**Payment:** Well perforation, satisfactorily completed, will be paid for at the applicable contract unit price.

**Unit of Measure:** Lump Sum

**4.6 PLACEMENT OF SEALING MATERIAL – Bid Item No. C-4, D-5, E-6**

**Measurement:** Successful placement of sealing material in the well.

**Payment:** Seal material, satisfactorily installed, will be paid for at the applicable contract unit price.

**Unit of Measure:** Lump Sum

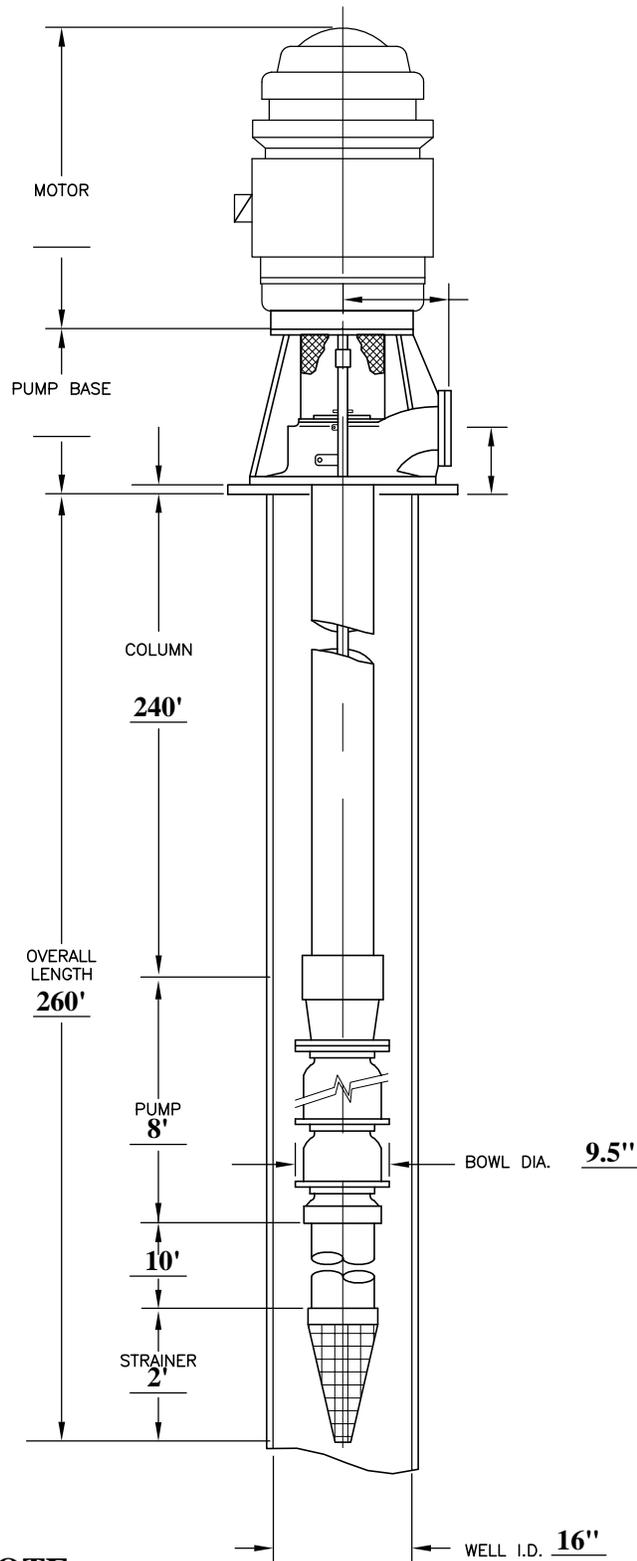
**4.7 SITE RESTORATION, CLEANUP, AND REPORTS – Bid Item No. C-5, D-6, E-7**

**Measurement:** Satisfactorily completed site cleanups and submission of required project records.

**Payment:** Site clean-up and preparation and delivery of the specified records of the well, satisfactorily completed, shall be paid for at the lump sum price stated in the proposal.

**Unit of Measure:** Lump Sum

# VERTICAL TURBINE PUMP



**NOTE:**

REPLACED 6 COLUMN JOINTS, ALL LINE SHAFTS,  
 ALL BEARINGS, SUCTION AND CONE STRAINER.  
 REBUILT EXISTING MOTOR AND BOWL ASSEMBLY.  
 WORK PERFORMED BY: SALINAS PUMP

**MOTOR**

MAKE U.S. MOTOR  
 ENCLOSURE \_\_\_\_\_  
 TYPE \_\_\_\_\_ NRR \_\_\_\_\_  
 HP \_\_\_\_\_ RPM \_\_\_\_\_  
 PHASE \_\_\_\_\_ HERTZ \_\_\_\_\_  
 VOLTAGE \_\_\_\_\_  
 FRAME NO. \_\_\_\_\_  
 TYPE COUPLING \_\_\_\_\_

**PUMP & COLUMN ASSEMBLY**

6W16 DISCH HD.  
1-1/4" LINE SHAFT 6" COL  
 PROD. LUBE X OIL LUBE \_\_\_\_\_  
 TYPE 10KKH STAGE 9  
500 GPM 370 FT HEAD  
 IMPELLER \_\_\_\_\_  
 STRAINER YES  
INGERSOL-DRESSOR PUMP MAKE

**MATERIAL**

COL PIPE STEEL  
 LINE SHAFT STAINLESS STEEL  
 THDS/INCH \_\_\_\_\_  
 SHAFT TUBE \_\_\_\_\_  
 THDS/INCH \_\_\_\_\_ RH/LH \_\_\_\_\_  
 BOWL SHAFT \_\_\_\_\_  
 HEAD SHAFT SEAL \_\_\_\_\_  
 SOLE PLATE \_\_\_\_\_  
 BEARING RETAINER \_\_\_\_\_  
 PUMP BOWL \_\_\_\_\_  
 IMPELLER \_\_\_\_\_  
 BEARINGS (BOWL) \_\_\_\_\_  
 BEARINGS (LINESHAFT) \_\_\_\_\_  
 STRAINER YES  
 BOWL W/R \_\_\_\_\_  
 IMPELLER W/R \_\_\_\_\_

CLIENT CITY OF MORGAN HILL  
 WELL # BOY'S RANCH #2  
 DATE INSTALLED 05/23/08  
 INFORMATION BY C. WULFF  
 DATE 05/23/08  
 LSCE # 08-2-017

# VERTICAL TURBINE PUMP

## MOTOR

MAKE \_\_\_\_\_  
 ENCLOSURE \_\_\_\_\_  
 TYPE \_\_\_\_\_ NRR \_\_\_\_\_  
 HP \_\_\_\_\_ RPM \_\_\_\_\_  
 PHASE \_\_\_\_\_ HERTZ \_\_\_\_\_  
 VOLTAGE \_\_\_\_\_  
 FRAME NO. \_\_\_\_\_  
 TYPE COUPLING \_\_\_\_\_

## PUMP & COLUMN ASSEMBLY

DISCH HD. \_\_\_\_\_  
 1-3/16" LINE SHAFT 6" COL \_\_\_\_\_  
 \_\_\_\_\_ SHAFT TUBE \_\_\_\_\_  
 PROD. LUBE YES OIL LUBE \_\_\_\_\_  
 MANUFACTURE GOULDS \_\_\_\_\_  
 TYPE 9RCLC STAGE 9 \_\_\_\_\_  
527 GPM 393 FT HEAD \_\_\_\_\_  
 IMPELLER 6.625" \_\_\_\_\_  
 STRAINER NONE \_\_\_\_\_

## MATERIAL

COL PIPE 6" STD. \_\_\_\_\_  
 LINE SHAFT 1-3/16" SST \_\_\_\_\_  
 THDS/INCH \_\_\_\_\_  
 SHAFT TUBE \_\_\_\_\_  
 THDS/INCH \_\_\_\_\_ RH/LH \_\_\_\_\_  
 BOWL SHAFT 1.5" \_\_\_\_\_  
 HEAD SHAFT SEAL \_\_\_\_\_  
 SOLE PLATE \_\_\_\_\_  
 BEARING RETAINER \_\_\_\_\_  
 PUMP BOWL \_\_\_\_\_  
 IMPELLER BRONZE \_\_\_\_\_  
 BEARINGS (BOWL) \_\_\_\_\_  
 BEARINGS (LINESHAFT) \_\_\_\_\_  
 STRAINER \_\_\_\_\_  
 BOWL W/R \_\_\_\_\_  
 IMPELLER W/R \_\_\_\_\_

CLIENT CITY OF MORGAN HILL \_\_\_\_\_  
 WELL # JACKSON #1 \_\_\_\_\_  
 DATE INSTALLED 02/06 \_\_\_\_\_  
 INFORMATION BY C. WULFF \_\_\_\_\_  
 DATE 3-01-06 \_\_\_\_\_  
 LSCE # 05-2-105 \_\_\_\_\_

