



CITY OF HOUSTON

INVITATION TO BID

Issued: November 18, 2011

Bid Opening:

Sealed bids, in duplicate, will be received by the City Secretary of the City of Houston, in the City Hall Annex, Public Level, 900 Bagby, Houston, Texas 77002, until 10:30 a.m. Thursday, **December 15, 2011** and all bids will be opened and publicly read in the City Council Chamber, City Hall Annex, Public Level, 900 Bagby at 11:00 a.m. on that date for the purchase of:

**PURCHASE OF SUBMERSIBLE PUMPS
FOR THE PUBLIC WORKS & ENGINEERING DEPARTMENT
BID INVITATION No. S50-N24120
NIGP CODE – 720-64/720-17/720-73**

Buyer:

Questions regarding this solicitation package should be addressed to **Art Lopez** at **832-393-8731**, or e-mail to **arturo.lopez@houstontx.gov**.

Bidding forms, specifications, and all necessary information should be downloaded from the Internet at **<http://purchasing.houstontx.gov>** by registering and downloading this solicitation document, all updates to this solicitation document will be automatically forwarded via e-mail to all registered bidders. This information may also be obtained from the Supplier Assistance Desk, Strategic Purchasing Division, 901 Bagby, Concourse Level, Houston, Texas 77002.

Electronic Bidding:

In order to submit a bid for the items associated with this procurement, you must fill in the pricing information on the “**PLACE BID**” page.

Pre-Bid Conference:

A Pre-Bid Conference will be held for all Prospective Bidders in the Strategic Purchasing Division, **Conference Room No.1, City Hall, 901 Bagby, at 10:00 AM, on Wednesday, November 30, 2011.**

All Prospective Bidders are urged to be present. It is the bidder's responsibility to ensure they have secured and thoroughly reviewed the solicitation documents prior to the Pre-Bid Conference. Any revisions to be incorporated into this solicitation document arising from discussions before, during and subsequent to the Pre-Bid Conference will be confirmed in writing by Letter(s) of Clarification prior to the bid due date. Verbal responses will not otherwise alter the specifications, terms and conditions as stated herein.

The place of the bid opening may be transferred in accordance with Paragraph (b), (5) of Section 15-3 of The Code of Ordinances, Houston, Texas. The bid opening meeting may be rescheduled in accordance with Paragraph (b), (6) of said Section 15-3.

The City reserves the right to reject any or all bids or to accept any bid or combination of bids deemed advantageous to it.

City Employees are prohibited from bidding on this solicitation in accordance with the Code of Ordinances, Section 15 - 1.

***CONTENTS:**

SECTION A: OFFER
SECTION B: SCOPE OF WORK/SPECIFICATIONS
SECTION C: GENERAL TERMS & CONDITIONS

***NOTE 1: Actual page numbers for each Section may change when the solicitation document is downloaded from the Internet or because of Letters of Clarification. Therefore, Bidders must read the bid document in its entirety and comply with all the requirements set forth therein.**

***NOTE 2: To be considered for award, please submit the electronic bid form and the forms listed in Section A, including the official signature page, which must be signed by a company official authorized to bind the company.**

**SECTION A
OFFICIAL BID FORM**



FORMAL ONE-TIME BID

**PURCHASE OF SUBMERSIBLE PUMPS
FOR THE PUBLIC WORKS & ENGINEERING DEPARTMENT
BID INVITATION No. S50-N24120
NIGP CODE – 720-64/720-17/720-73**

To The Honorable Mayor
and City Council Members
of the City of Houston, Texas (the "City"):

The undersigned hereby offers to **Furnish and Deliver of Submersible Pumps for the Public Works and Engineering Department**, Prepaid F.O.B. destination point Houston, Texas, the item(s) listed on the **electronic bid form** and on individual Purchase Orders, in accordance with the price(s) bid and other conditions shown herein, and in accordance with the City's Specifications and General Terms & Conditions and/or samples/drawings provided herein. When issued by the City of Houston, Letters of Clarification shall automatically become part of this bid document and shall supersede any previous specifications or provisions in conflict with Letters of Clarification. It is the responsibility of the bidder to ensure that it has obtained all such letters. By submitting a bid on this project, bidder shall be deemed to have received all Letters of Clarification and to have incorporated them into the bid.

The City may accept this bid offer by issuance of a Notice of Award Letter and/or a Purchase Order at any time on or before the 120th day following the day this Official Bid Form is opened by the City. This offer shall be irrevocable for 120 days after bid opening or for 90 days after City Council awards the bid, whichever comes last, but this period may be extended by written agreement of the parties.

The City reserves the right to INCREASE quantities during the twelve-month (12) period following the issuance of the first purchase order subject to agreement in writing by the Contractor/Supplier to honor the same bid price.

The City reserves the option, after bids are opened, to adjust the quantities listed on the electronic bid form upward or downward, subject to the availability of funds, and/or make award (s) on a line item basis.

SECTION A

Documents/forms must be downloaded from the City's Website:

<https://purchasing.houstontx.gov>

http://purchasing.houstontx.gov/solicitation_forms.htm

Additional Required Forms to be Included with this Bid:

In addition to the electronic Bid Form and the Official Signature Page, the Forms listed in Table 1 **must be completed and submitted to the Office of the City Secretary on or before the date and time the bid is due:**

Table 1 – Required Forms
Affidavit of Ownership
Hire Houston First Application & Affidavit
Fair Campaign Ordinance
Statement of Residency
Conflict of Interest Questionnaire

Table 2 lists other documents and forms that should be viewed/downloaded from the City's website, but are not required to be submitted with the bid. **The City will request these forms, as applicable, to be completed and submitted to the City by the recommended/successful bidder:**

Table 2 – Documents and Forms
Drug Forms
Sample Insurance Over \$50,000.00
Formal Instructions for Bid Terms
EEOC
M/WBE

Questions concerning the Bid should be submitted in writing to: City of Houston, Strategic Purchasing Division, 901 Bagby, Room B506, Houston, TX 77002, Attn: Arturo Lopez or via fax: 832-393-8759 or via email (preferred method) to arturo.lopez@houstontx.gov no later than **4:00 PM, Monday, December 5, 2011.**

HIRE HOUSTON FIRST:

Designation as a City Business or Local Business

To be designated as a City or Local Business for the purposes of the Hire Houston First Program, as set out in Article XI of Chapter 15 of the Houston City Code, a bidder or proposer must submit the **Hire Houston First Application and Affidavit ("HHF Affidavit")** to the Director of the Mayor's Office of Business Opportunities and receive notice that the submission has been approved prior to award of a contract. Bidders are encouraged to secure a designation prior to submission of a bid or proposal if at all possible.

Download the HHF Affidavit from the Office of Business Opportunities Webpage at the City of Houston e-Government Website at the following location:

www.houstontx.gov/obo/moreforms/hirehoustonfirstaffidavit.pdf

Submit the completed application as directed on the form, or submit a signed original affidavit with your bid.

Award of a Procurement of \$100,000 or More for Purchase of Goods:

THE CITY WILL AWARD THIS PROCUREMENT TO A "CITY BUSINESS," AS THAT TERM IS DEFINED IN SECTION 15-176 OF THE CITY OF HOUSTON CODE OF ORDINANCES ("THE CODE"):

- IF THE BID OF THE CITY BUSINESS IS THE LOWEST RESPONSIBLE BID OR IS WITHIN 3% OF THE LOWEST BID RECEIVED, AND
- UNLESS THE USER DEPARTMENT DETERMINES THAT SUCH AN AWARD WOULD UNDULY INTERFERE WITH CONTRACT NEEDS, AS PROVIDED IN SECTION 15-181 OF THE CODE.

IF THERE IS NO BID OF A CITY BUSINESS THAT MEETS THESE CRITERIA, THE CITY WILL AWARD THE PROCUREMENT TO THE LOWEST RESPONSIBLE BIDDER.

Award of Procurement under \$100,000 for Purchase of Goods:

THE CITY WILL AWARD THIS PROCUREMENT TO A "CITY BUSINESS," AS THAT TERM IS DEFINED IN SECTION 15-176 OF THE CITY OF HOUSTON CODE OF ORDINANCES ("THE CODE"):

- IF THE BID OF THE CITY BUSINESS IS THE LOWEST RESPONSIBLE BID OR IS WITHIN 5% OF THE LOWEST BID RECEIVED, AND
- UNLESS THE USER DEPARTMENT DETERMINES THAT SUCH AN AWARD WOULD UNDULY INTERFERE WITH CONTRACT NEEDS, AS PROVIDED IN SECTION 15-181 OF THE CODE.

IF THERE IS NO BID OF A CITY BUSINESS THAT MEETS THESE CRITERIA, THE CITY WILL AWARD THE PROCUREMENT TO THE LOWEST RESPONSIBLE BIDDER.

Award of Procurement that may be More or Less than \$100,000 for Purchase of Goods:

THE CITY WILL AWARD THIS PROCUREMENT TO A "CITY BUSINESS," AS THAT TERM IS DEFINED IN SECTION 15-176 OF THE CITY OF HOUSTON CODE OF ORDINANCES ("THE CODE"):

- IF THE BID OF THE CITY BUSINESS IS LESS THAN \$100,000 AND IS THE LOWEST RESPONSIBLE BID OR IS WITHIN 5% OF THE LOWEST BID RECEIVED, OR
- IF THE BID OF THE CITY BUSINESS IS MORE THAN \$100,000 AND IS THE LOWEST RESPONSIBLE BID OR IS WITHIN 3% OF THE LOWEST BID RECEIVED, AND
- UNLESS THE USER DEPARTMENT DETERMINES THAT SUCH AN AWARD WOULD UNDULY INTERFERE WITH CONTRACT NEEDS, AS PROVIDED IN SECTION 15-181 OF THE CODE.

IF THERE IS NO BID OF A CITY BUSINESS THAT MEETS THESE CRITERIA, THE CITY WILL AWARD THE PROCUREMENT TO THE LOWEST RESPONSIBLE BIDDER.

PRIME CONTRACTOR/SUPPLIER REFERENCES

In order to receive bid award consideration, the bidder must be able to demonstrate that it has provided, as a prime contractor/supplier, products or services that are similar to those offered on the electronic bid form to governmental agencies or other entities of similar size/scope. The references should be listed in the space provided below. Please attach additional pages as necessary. If references are not included with the bid, the bidder shall be required to provide such references to the City of Houston within five working days from receipt of a written request from the City of Houston to do so. **Bidder's capability and experience shall be a factor in determining the Contractor's responsibility.** The City of Houston reserves the right to determine if such products or services are appropriately similar to those offered.

1. Entity Name: _____
Address: _____
City & State: _____
Name & Phone Number of Contact: _____

2. Entity Name: _____
Address: _____
City & State: _____
Name & Phone Number of Contact: _____

3. Entity Name: _____
Address: _____
City & State: _____
Name & Phone Number of Contact: _____

4. Entity Name: _____
Address: _____
City & State: _____
Name & Phone Number of Contact: _____

5. Entity Name: _____
Address: _____
City & State: _____
Name & Phone Number of Contact: _____

SECTION B
PART I
GENERAL SPECIFICATIONS

1.0 BIDDING AND AWARD:

- 1.1 The City may accept this bid offer by issuance of a Notice of Award Letter and/or a Purchase Order at any time on or before the 120th day following the day the Official Bid Form is opened by the City. This offer shall be irrevocable for 120 days after bid opening or for 90 days after City Council awards the bid, whichever comes last, but this period may be extended by written agreement of the parties.
- 1.2 Prices quoted shall remain firm through delivery and shall not be subject to increases (or supplemented on The Contractor/Supplier's invoice(s) for payment).
- 1.3 The City reserves the option to adjust the quantities listed on the City's Official Bid Form upward or downward, subject to the availability of funds, and/or make award on a line item basis. Therefore, the City shall not be liable for any contractual agreements/obligations the Bidder enters into based on the City purchasing all the quantities specified herein.
- 1.4 The City reserves the right to INCREASE quantities during the twelve-month period following the issuance of the first purchase order subject to agreement in writing by the Contractor/Supplier to honor the same bid price.

2.0 APPLICABLE SPECIFICATIONS:

- 2.1 "Notice to Bidders", the "Official Bid Forms", the "General Specifications", the "Technical Specifications", the "General Terms and Conditions" and other specifications that may be included herewith and the purchase orders which refer to these specifications.

3.0 TECHNICAL LITERATURE:

- 3.1 To evaluate the bids, the user department and the City purchasing staff may require product literature/specification sheets. Technical literature may be provided with the bid submittal but is not required. However, the City reserves the right to request literature or clarifications, as needed, after bid submittal.
- 3.2 If required, the Bidder must submit a minimum of TWO SETS of the requested catalogue information, descriptive literature specifications and/or (if applicable) engineering drawings that completely identify the items bid. Bidder(s) shall furnish the requested literature within seven (7) calendar days after the receipt of the City's written request. FAILURE ON BIDDER'S PART TO FURNISH THE REQUESTED TECHNICAL DATA IN THE TIME LIMIT GIVEN MAY BE CAUSE FOR REJECTION OF THE BID.

4.0 WARRANTY:

- 4.1 A minimum twelve (12) month warranty on both materials and workmanship shall be provided. The warranty period shall commence the date the City officially accepts the completed item(s). When extended warranties are available as standard, they shall be included as a part of the bid for the benefit of the City. Any and all documents necessary to effect warranty shall be properly applied for and submitted by the Bidder.
- 4.2 Additional warranties required are listed in the Technical Specifications for each item.
- 4.3 With respect to any goods, materials, equipment, supplies and parts furnished by it, The

Contractor/Supplier warrants:

- That all items are new and free of defects in title, design, material and workmanship.
- That each item meets or exceeds the manufacturer's specifications and requirements for the equipment structure, or other improvement in which the item is installed and conforms in all respects to the terms of the City Purchase Order and Specifications.
- That each replacement item is new, in accordance with original equipment
- Manufacturer's specifications are of a quality of at least as good as the quality of the item that it replaces (when the replaced item was new).
- That no item or its use infringes any patent, copyright or proprietary right.

4.4 The Contractor/Supplier's product shall be supported by an authorized service facility that can provide warranty repair, service and maintenance work within 24 hours from notification by the City.

4.5 Any warranty work shall be completed without cost to the City. The Contractor/Supplier shall be responsible for all shipping and/or freight expense from the City's designated location to the Contractor/Supplier's facility for all warranty repair and/or maintenance and return to the City's designated location.

5.0 DELIVERY/INSPECTION:

5.1 The item(s) specified above, with delivery tickets and/or other required documents shall be delivered FOB Destination, to the location(s) shown on the purchase order(s) **within the delivery time(s) as listed in the Technical Specifications** after receipt of City of Houston Purchase Order.

5.2 The Contractor/Supplier shall notify the City Contact listed in the "Ship To" section of the purchase order not less than three (3) days prior to expected delivery/arrival to permit inspection scheduling. The City Contact shall advise The Contractor/Supplier as to the date, time and location of authorized delivery/location. An authorized representative of the Contractor/Supplier shall supervise delivery to the City. The City will not assume any liability for equipment delivered to an unauthorized location.

5.3 Documentation at time of Delivery:
The Contractor/Supplier shall provide the following documentation **per purchase order** upon delivery:

- Copy of purchase order(s) and original invoice(s).
- Warranty policy (ies) and/or certifications as may be required in the Specifications.
- Parts, service, operators and maintenance manual(s) as may be required in the Technical Specifications.

6.0 WARRANTY:

6.1 See Paragraph 4 entitled "Warranty" in Part I above. If the manufacturer's standard warranty is greater than the period specified in Paragraph 4 above then the contractor/supplier shall pass the greater/longer warranty to the City of Houston.

7.0 DELIVERY REQUIREMENT:

7.1 The contractor/supplier shall be required to deliver the equipment/parts no later than **170** calendar days after receipt of the City of Houston Purchase Order for the specified equipment/parts.

8.0 SHIPPING TERMS:

8.1 Prices shall be prepaid F.O.B. Destination to the delivery locations, Houston, TX, as indicated on individual City of Houston purchase orders. The Contractor/Supplier shall retain title and control of

all goods until they are delivered and the contract of coverage has been completed. All risk of transportation and all related charges shall be the responsibility of the Contractor/Supplier. All claims for visible or concealed damage shall be filed by the Contractor/Supplier. The City will notify the Contractor/Supplier promptly of any damaged goods and shall assist the Contractor/Supplier in arranging for inspection.

9.0 RESOLUTION OF LATE DELIVERY FOR EQUIPMENT:

- 9.1 Time is of the essence in this Contract and accordingly all time limits shall be strictly construed and rigidly enforced. The work shall be furnished and fully completed within the delivery time specified in the Bid Proposal and Purchase Order to be furnished to the Contractor/Supplier by the City. In the event that the work or any portions thereof shall remain uncompleted after expiration of the specified time, the Contractor/Supplier shall furnish to the City a like number of comparable equipment for the City's use until such time as the ordered equipment are delivered. The equipment shall be furnished to the City with insurance to cover the use of this equipment by City personnel and in pursuit of the City's business. Should The Contractor/Supplier not furnish such specified equipment during the late delivery period, the City retains the right to lease such equipment from a equipment leasing firm and The Contractor/Supplier agrees and authorizes the City to deduct all such costs associated with such leases from the amounts due and owing to The Contractor/Supplier under the Purchase Order. The City may avail itself of other remedies that may be available to it in law or equity as to any other event of default
- 9.2 The Contractor/Supplier will not be liable for delays in performing its obligations to the extent such delays are caused by unforeseeable conditions that are beyond the Contractor/Supplier's reasonable control and directly interfere with performance, and are without The Contractor/Supplier's fault or negligence (force majeure). However, The Contractor/Supplier shall provide written notice to the City of the cause and extent of an **excusable delay** requesting a time extension equal to the estimated duration thereof. Upon cessation of the event causing the delay, The Contractor/Supplier shall provide written notice to the City of the actual delay incurred. Determination of force majeure shall rest solely with the City Purchasing Agent and the receiving department.

10.0 CONFLICT IN TERMS:

- 10.1 Should there be any conflict between the General Specifications and the Technical Specifications, the Technical Specifications shall prevail.

**SECTION B
PART II
TECHNICAL SPECIFICATIONS
FOR
SUBMERSIBLE PUMPS**

1.0 General:

- 1.1 The Contractor shall be required to furnish all labor, supervision, transportation, permits, tools, consumables, safety equipment, testing and testing equipment to furnish ten (10) horizontal end suction replacement chopper pumps and five replacement non-potable water submersible pumps, in strict accordance with City of Houston specifications and drawings included herein.
- 1.2 This procurement project consists of the purchase of ten horizontal end suction chopper pumps, for the Southwest Wastewater Treatment Plant, located, at 4211 Beechnut, three non-potable water submersible pumps for the Northeast Treatment Plant, located at facility No. 146, 655 Maxey Road and two non-potable water submersible pumps for the Upper Brays Wastewater Treatment Plant, located at 13525 W. Houston Center Blvd.
- 1.3 The pumps shall be delivered to the City of Houston, Public Works and Engineering Department, Wastewater Operation Branch, Cullen Maintenance Facility located at 7440 Cullen Blvd. Houston, TX 77051

2.0 Warranty:

- 2.1 The Contractor shall warranty the submersible pumps and associated equipment for a period of **one year**. The warranty shall include all parts, labor, material and transportation cost associated either performing the warranty repairs on site or at the contractors facility. The warranty shall begin subsequent to certification and acceptance of the equipment by the City.
- 2.2 The Contractor shall furnish to the City an Operation & Maintenance (O & M) Manual and any applicable literature and/or viable information associated with the equipment.

BID GROUP NO. 1

1.0 Equipment:

LINE ITEM NO. 1 **PUMP, CHOPPER WITH HORIZONTAL SUCTION END**

Make: VAUGHN

Model: HE4K6CSEC2-070 **Or City Approved Equal**

1.1 Summary of Requirement:

- 1.1.1 The Contractor shall be required to provide pump(s), chopper with horizontal suction end, VAUGHN, Model No. HE4K6CSEC2-070, or City approved equal for the Southwest Treatment Plant, located,at 4211 Beechnut.
- 1.1.2 The pump assemble shall be a dry well horizontally mounted chopper pump with dual cutters capable of macerating and conditioning sewage and scum materials.
- 1.1.3 The pump shall be rated for wastewater applications.
- 1.1.4 The pump shall be horizontally mounted with 7.5 HP, 1750RPM 230/460 volt, 3-phase 60hertz, premium efficiency motor with a 213TC frame and the motor must be rated for chemical duty.

1.2 Pump Specifications:

- 1.2.1 The pump performance shall be 330 GPM with motor speed of 1750 rpm,
- 1.2.2 The discharge head rating shall be 24ft. total dynamic head (TDH) or greater with a 7.5 HP motor,
- 1.2.3 The flange connection shall provide an inlet with a 6" diameter and a discharge with a 4" diameter and a 150 Lb American National Standards Institute (ANSI) rating.
- 1.2.4 The casing and adapter plate shall be constructed of ductile cast iron with all water passages to be smooth and free of blowholes and imperfections.
- 1.2.5 The pump shaft shall be constructed of heat-treated steel with a minimum diameter of 1.5 inches in order to minimize deflection during solids chopping. The pump shaft shall be supported by ball bearings and the bearings shall be rated with a minimum B10 bearing life of 100,000 hours.
- 1.2.6 The impeller shall be semi-open type with pump out vanes to reduce the seal area pressure. The chopping/maceration of materials shall be accomplished by the action of the cupped and sharpened leading edges of the impeller blades moving across the cutter bar at the intake openings, with a set clearance between the impeller and the cutter bar of .010" to .015". The impeller shall be cast steel heat treated to a minimum Rockwell C 60 hardness and dynamically balanced. The impeller shall be keyed to the shaft and shall have no axial adjustments or set screws required.
- 1.2.7 The cutter blade adjustment must be capable of external adjustment of impeller-to-cutter bar clearance.
- 1.2.8 A chopper pump with individually mounted shear bars are not acceptable.**
- 1.2.9 The cutter bar plate shall be recessed into the pump bowl and shall contain at least 2 shear bars extending diametrically across the intake opening to within 0.010"-0.015" of the rotating cutter nut tooth, for the purpose of preventing intake opening blockage and wrapping of debris at the shaft area. The cutter bar shall be T1 plate steel heat-treated to minimum Rockwell C 60 hardness. The

cutter bar shall have a machined surface on the outside in order to accommodate the external cutter.

- 1.2.10 The external cutter shall be used and affixed to the impeller shaft to eliminate binding or build-up of stringy materials at the pump inlet. The external cutter shall consist of opposing cutter wings that shear against the outside surface of the shear bars on the cutter bar plate to within 0.010"-0.015". The external cutter shall be cast steel and heat-treated to a minimum 60 Rockwell C hardness.
- 1.2.11 An upper cutter shall also be included as part of the pump. It shall be designed to cut against the pump-out vanes and impeller hub so as to reduce and remove stringy materials from the mechanical seal area. The upper cutter shall be cast steel heat treated to a minimum C 60 Rockwell hardness.
- 1.2.12 The seal shall be a mechanical flush-less seal; cartridge type with silicon carbide faces and integral shaft sleeve.
- 1.2.13 The stainless steel nameplate shall be attached to the pump and drive motor with, the manufacturer's model, serial number, rated capacity, head and motor speed information imprinted on the plate.
- 1.2.14 The pump unit shall be degreased and coated with acrylic epoxy paint.

LINE ITEM NO.2 **PUMP, SUBMERSIBLE, NON-POTABLE WATER**

Make: GOULDS

Model: Model VIT-FF(I piece head) ANSI/HI 2,6 Size 11ALC 3 stages **Or City Approved**
Equal

2.1 Summary of requirement:

2.1.1 The Contractor shall be required to provide submersible pump(s), non-potable water, GOULDS, Model No. VIT-FF (I piece head) ANSI/HI 2,6 Size 11ALC 3 stages, or City approved equal for the Northeast Treatment Plant, located at facility No.146, 655 Maxey Road.

2.2 Operating and Performance Requirements:

2.2.1 The bare pump shall provide a rotating assembly,

2.2.2 The non-potable water pump shall be a vertical pump,

2.2.3 The capacity requirements shall be 28.5.0 GPM #152.0 ft and the head rating shall be 1770 RPM,

2.2.4 The pump must be capable of service in potable water,

2.2.5 The pump efficiency shall be a minimum of 80%,

2.2.6 The pump run capacity shall be a minimum of 458 gpm,

2.2.7 The pump shall require the NPSHr @ the Impeller eye at 4.5 ft,

2.2.8 The pump discharge pressure shall be 83.8 psi minimum.

2.3 Material and Dimensions:

2.3.1 The bowl shall be constructed of cast Iron with glass enamel,

2.3.2 The suction bell shall be constructed of cast iron,

2.3.3 The impeller shall be bronze taper locked, dynamically balanced to 8W/N,

2.3.4 The bowl shaft shall be 416SS (1.6875 in.) in diameter,

2.3.5 The bowl and suction bell bearings shall be bronze,

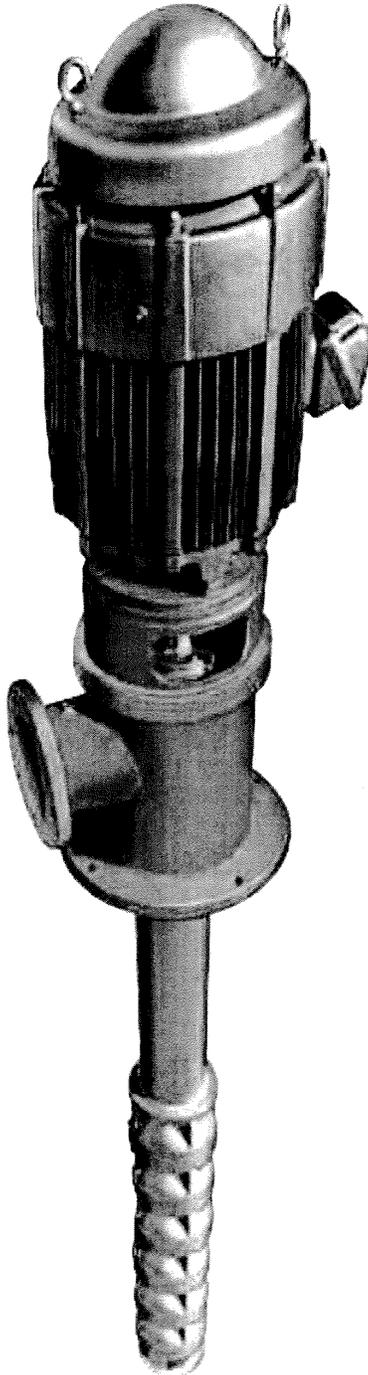
2.3.6 The bowl and impeller wear rings shall be bronze,

2.3.7 The Strainer shall be constructed of galvanized steel,

2.3.8 The discharge head shall be constructed of carbon steel,

2.3.9 The discharge flange shall be 6 inches in dimension and 150 lbs,

2.3.10 The pump length shall be 13.0 ft.
(As per the specifications provided on the cut sheet drawings, Page Nos. 13 through 23 of 39)
GOULDS, Model No. VIT-FF (1 piece head) ANSI/HI 2,6 Size 11ALC 3 stages



Model VIT-FF

Vertical Industrial Turbine Pump

- ◆ Flows to 70000 GPM (15,900 m³/Hr)
- ◆ Heads to 3,500 feet (1,060m)
- ◆ Pressures to 2500 psi (75kg/cm²)
- ◆ Bowl sizes from (6" to 55")
- ◆ Temperatures to 500° F (260° C)
- ◆ Horsepower to 5000 HP (1860 KW)

Design Advantages

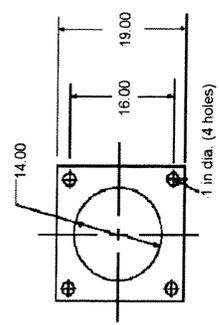
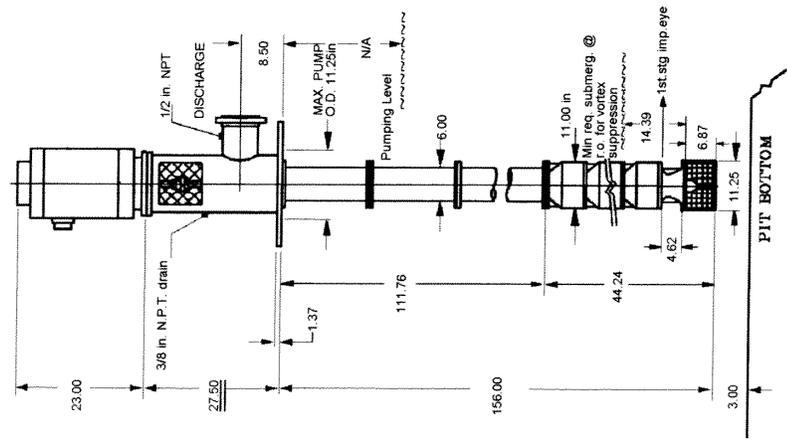
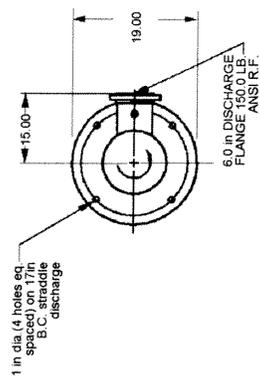
- ◆ Fabricated discharge head and flanged column.
- ◆ Flanged bowl construction.
- ◆ 416SS shafting.
- ◆ Alloy construction with external flush of critical wear areas available for corrosive/abrasive services.
- ◆ Built-in alignment and simple piping for less costly installation and ease of maintenance/reduced downtime.

Services

- ◆ Cooling Water
- ◆ Seawater and River Water Intake
- ◆ Industrial Process Pumps
- ◆ Utility Circulating Water
- ◆ Condenser Circulating Water Pumps
- ◆ Ash Sluice

OUTLINE DRAWING

CUSTOMER CITY OF HOUSTON
 P.O. NO. _____
 ITEM NO. 001
 (Base Offer)
 NO. OF UNITS 1
 PUMP SIZE 11ALC NO. OF STGS. 3
 GPM 285.0 GPM T.D.H. 152.0 FT
 LIQUID Utility Water
 SP.GR. 1.000 TEMP. 80.0 DEG F VISC. 1.0000 CP
 COL SIZE 6.00 IN SHAFT 1.0000 IN DIA.
 CPLG. TYPE TYPE AS ADJUSTABLE SPACER
 COUPLING GUARD YES NO
 DRIVER MFG. CUSTOMER'S CHOICE
 HP 20.0 HP RPM 1800 VSS VHS
 PH. _____ CYCLES _____ VOLTS 230/480
 ENCLOSURE TEFC FRAME 256VP
 WEIGHT:
 PUMP 1250 LB
 DRIVER 287 LB
 SUBBASE LB
 TOTAL 1537 LB



NO.	NOTES
1	T.P.L. (TOTAL PUMP LENGTH) IS THE DISTANCE TO LOWEST PROJECTION ON PUMP ± 1.0
2	TOLERANCE ON ALL DIMENSIONS IS ± .12 OR ± .12 PER 5 FT WHICHEVER IS GREATER. TOLERANCE ON ALL PIPING DIMENSIONS IS AS FOLLOWS: DISCH. NOZZLE FLANGE IS ± .25 AUXILIARY CONNECTIONS ARE ± 1.0 HT - DISTANCE OF DRIVER FACE TO TOP OF HEADSHAFT. ALL DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE STATED. DRAWING IS NOT TO SCALE. RECOMMENDED DIAMETER RANGE TO CLEAR PUMP, DRAIN AND COLUMN ASSEMBLY IS XXX MIN. / XXX MAX. A - 1/2" N.P.S. - MOTOR BASE DRAIN CONN. B - 1/2" NPT - GAUGE CONN. (PLUGGED) DRIVER MAY BE ROTATED AT 90° INTERVALS ABOUT VERTICAL CENTERLINE. FOR DETAILS REFER TO DRIVER DIMENSION DRAWING. BEFORE STARTING PUMP, IMPELLER MUST BE LIFTED M.A.W.P DISCH. HEAD, DISCH. SIDE = 111.4 PSI G
3	
4	
5	
6	
7	
8	
9	
10	
11	THIS PUMP ASSEMBLY HAS BEEN DESIGNED SO THAT ITS NATURAL FREQUENCY RESPONSES AVOID THE SPECIFIC OPERATING SPEED (OR SPEEDS) BY AN ADEQUATE SAFETY MARGIN. THE DESIGN HAS ASSUMED THE FOUNDATION TO BE RIGID.

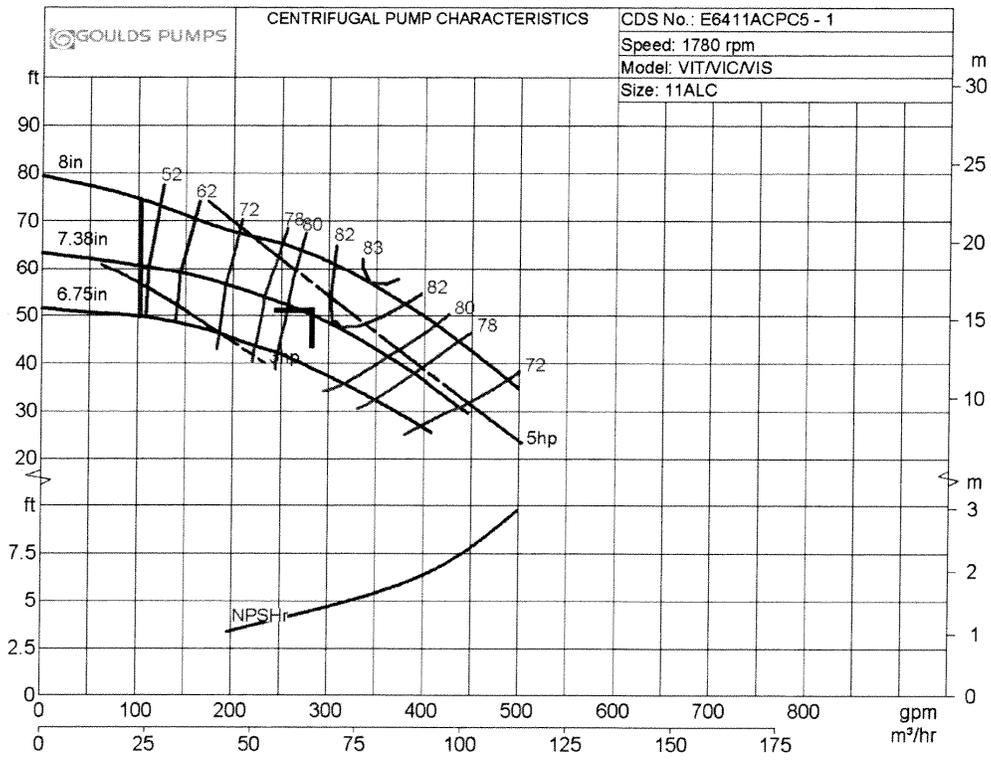
DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED	
CERTIFIED BY	DATE 07/08/2011
TITLE OUTLINE MODEL VIT-FF	
DRAWN BY	DATE
6 x 11ALC 3 STAGES	
GOULDS PUMPS S.O. NUMBER	
ITT Engineered for life	

Model: VIT-FF (1 piece head)	Size: 11ALC	60Hz	RPM: 1770	Stages: 3
-------------------------------------	--------------------	-------------	------------------	------------------

Job/Inq.No. : email of 5/26/2011
 Purchaser : CITY OF HOUSTON
 End User : CITY OF HOUSTON
 Item/Equip.No. : 001 (Base Offer)
 Service : Utility Water
 Order No. :
 Issued by : Thomas Marelli
 Quotation No. : HOTM11-05-26 04
 Date : 07/08/2011
 Certified By :
 Rev. : 0

Operating Conditions		Pump Performance	
Liquid:	Utility Water	Published Efficiency:	81.4 %
Temp.:	80.0 deg F	Rated Pump Efficiency:	77.4 %
S.G./Visc.:	1.000/1.000 cp	Rated Total Power:	14.2 hp
Flow:	285.0 gpm	Non-Overloading Power:	15.8 hp
TDH:	152.0 ft	Imp. Dia. First 1 Stg(s):	7.4688 in
NPSHa:	46.0 ft	NPSHr:	4.5 ft
Solid size:		Shut off Head:	194.2 ft
% Susp. Solids (by wtg):		Vapor Press:	
Max. Solids Size:	0.5000 in		

Notes: 1. Power and efficiency Losses are not reflected on the curve below.
 2. Elevated temperature effects on performance are not included.



Model: VIT-FF (1 piece head)	Size: 11ALC	60Hz	RPM: 1770	Stages: 3
-------------------------------------	--------------------	-------------	------------------	------------------

Job/Inq.No. : email of 5/26/2011
 Purchaser : CITY OF HOUSTON
 End User : CITY OF HOUSTON
 Item/Equip.No. : 001 (Base Offer)
 Service : Utility Water
 Order No. :
 Issued by : Thomas Marelli
 Quotation No. : HOTM11-05-26 04
 Setting :
 Certified By :
 Rev. : 0
 Date : 07/08/2011

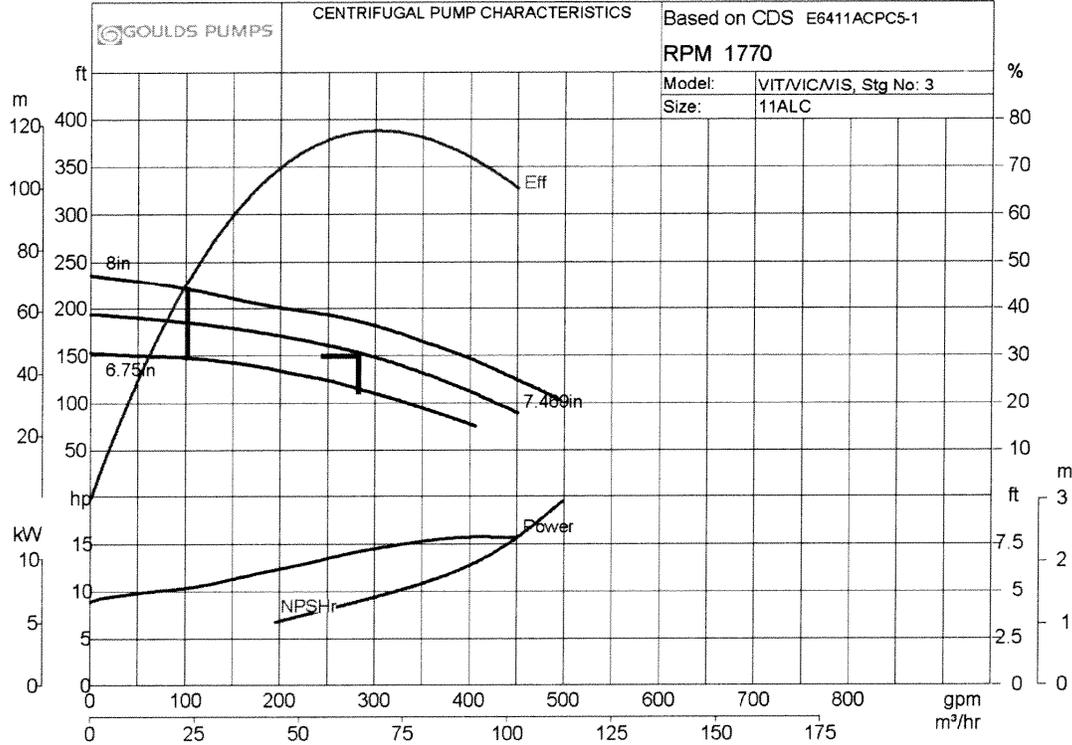
Operating Conditions

Liquid: Utility Water
 Temp.: 80.0 deg F
 S.G./Visc.: 1.000/1.000 cp
 Flow: 285.0 gpm
 TDH: 152.0 ft
 NPSHa: 46.0 ft
 Solid size:
 % Susp. Solids (by wtg):
 Max. Solids Size: 0.5000 in

Pump Performance

Published Efficiency: 81.4 %
 Rated Pump Efficiency: 77.4 %
 Rated Total Power: 14.2 hp
 Non-Overloading Power: 15.8 hp
 Imp. Dia. First 1 Stg(s): 7.4688 in
 NPSHr: 4.5 ft
 Shut off Head: 194.2 ft
 Vapor Press:
 Specific Speed 1st stg: 1,582 gpm(US) ft
 Specific Speed Adl stg: 1,582 gpm(US) ft
 Min. Hydraulic Flow: 102.4 gpm
 Min. Thermal Flow: N/A
 Imp. Dia. Adl Stg(s): 7.4688 in

Notes: 1. Elevated temperature effects on performance are not included.

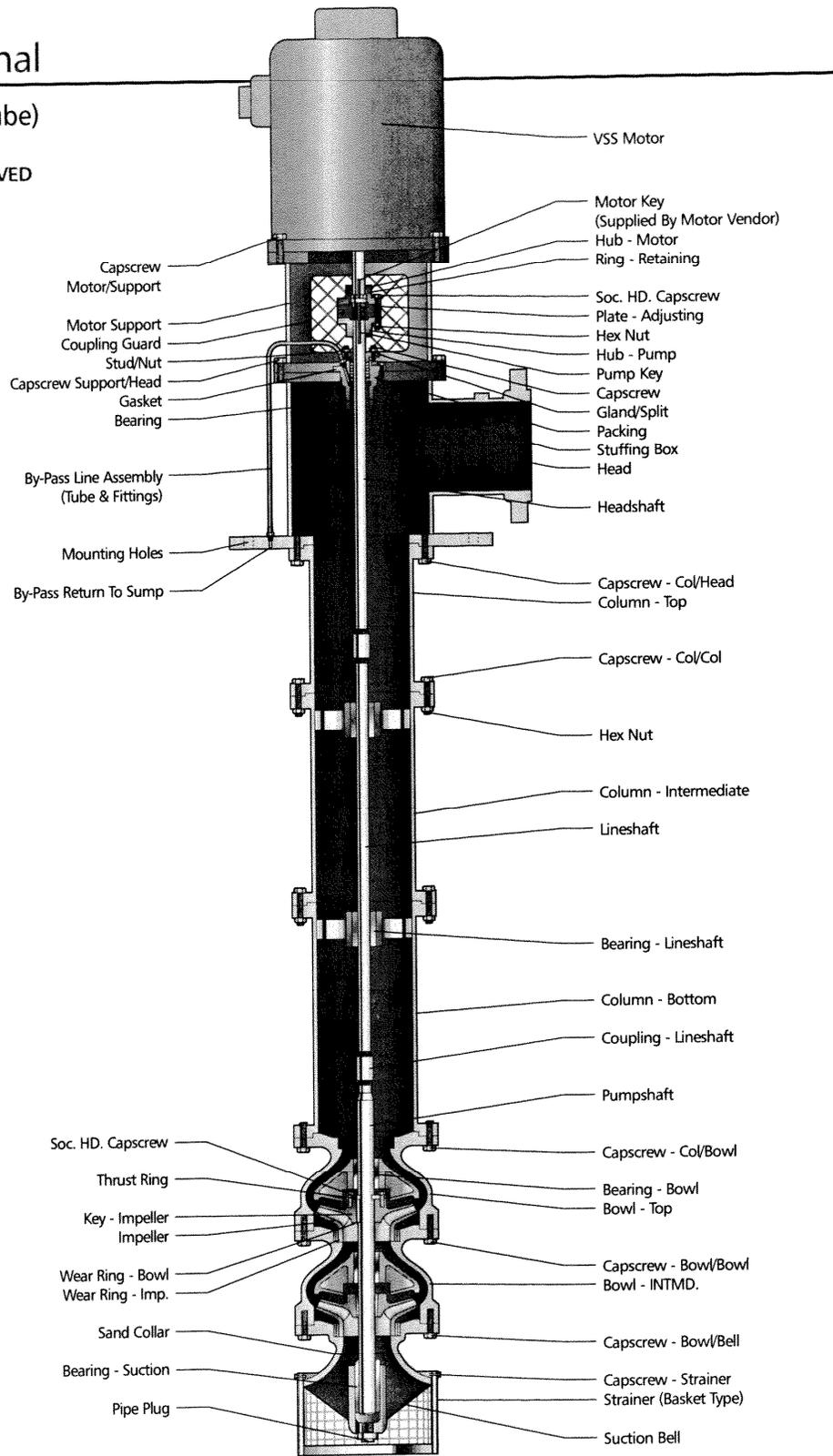


Cross Sectional

VIT-FF (Product Lube)

TYPICAL MARKETS SERVED

- ◆ Power Generation
- ◆ Mining
- ◆ Municipal
- ◆ General Industry
- ◆ Chemical

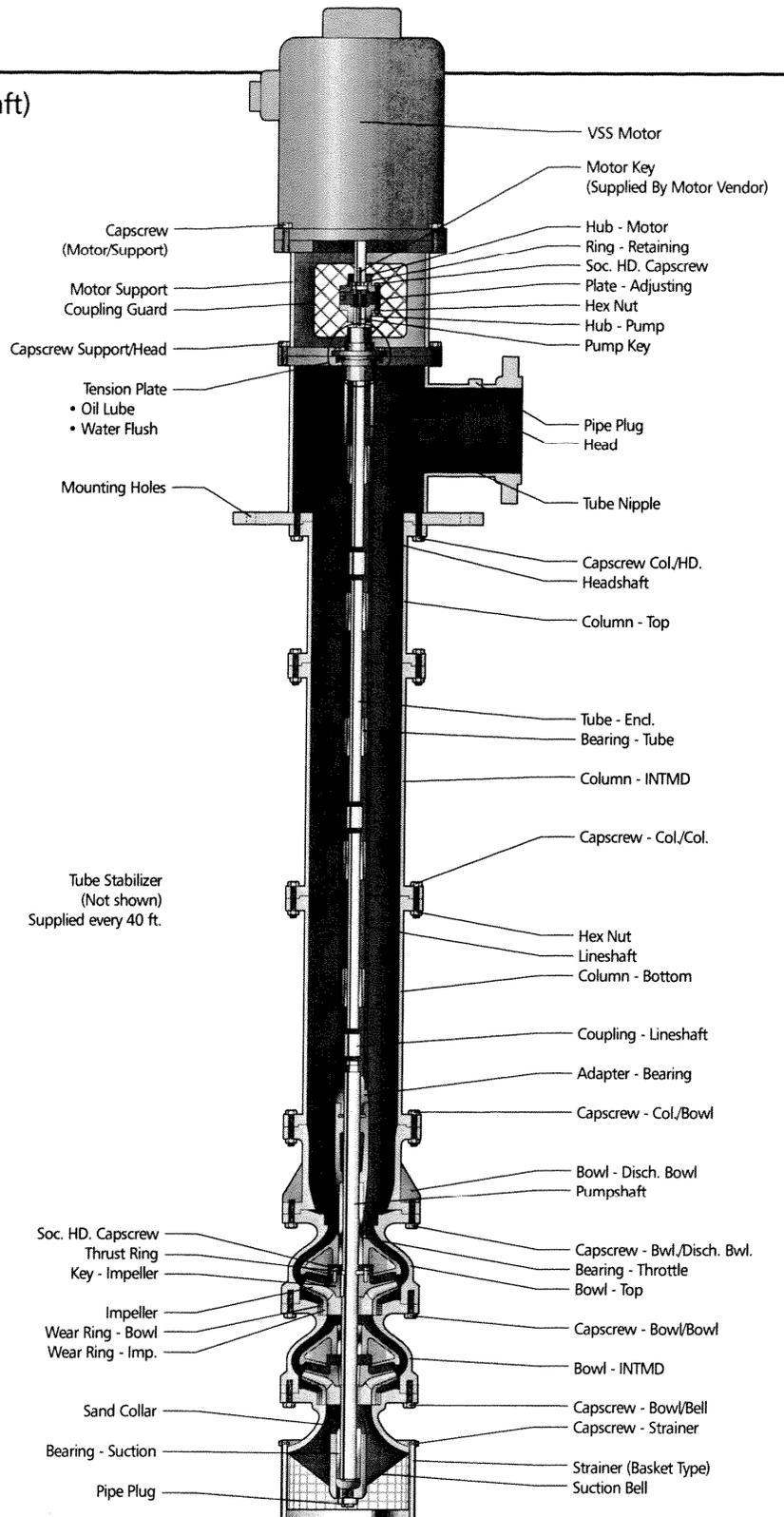


Cross Sectional

VIT-FF (Enclosed Lineshaft)

TYPICAL MARKETS SERVED

- ◆ Mining
- ◆ Municipal
- ◆ Power Generation
- ◆ General Industry
- ◆ Chemical



Pump Bowl Assembly

The bowl assembly is the heart of the vertical turbine pump. The impeller and diffuser type casing are designed to deliver the head and capacity that your system requires in the most efficient way possible. The fact that the vertical turbine pump can be multi-staged allows maximum flexibility both in the initial pump selection and in the event that future system modifications require a change in the pump rating. Submerged impellers allow pump to be started without priming.

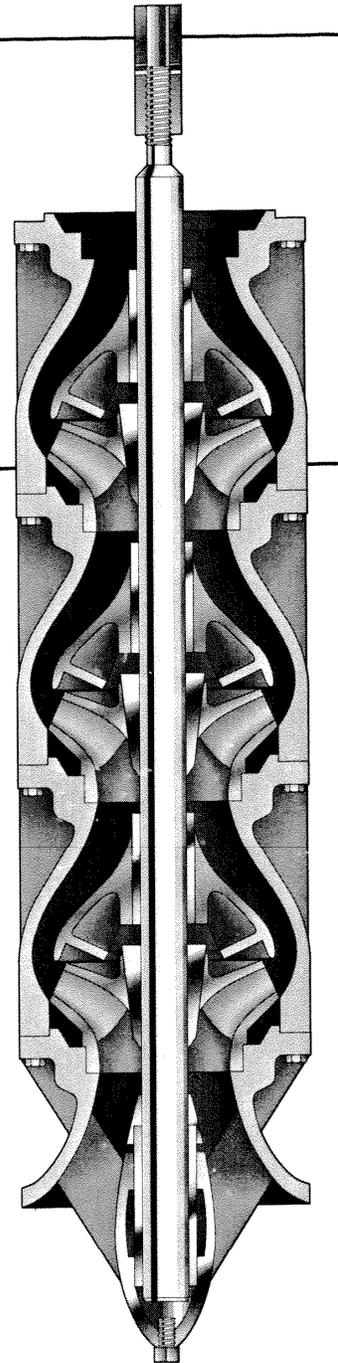
A variety of material options allows the selection of a pump best suited for even the most severe services. The many bowl assembly options available assure that the vertical turbine pump satisfies the users' needs for safe, efficient, reliable and maintenance-free operation.

Standard Design Features

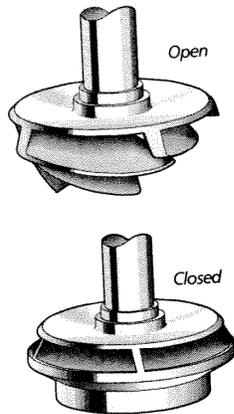
- ◆ **Suction Bell** - Allows smooth entry of liquid into impeller eye, minimizes vortex formation.
- ◆ **Suction Bell Bearing** - Provided for shaft stability.
- ◆ **Sand Collar** - Prevents solids from entering suction bearing.
- ◆ **Impeller** - Semi-open or enclosed for appropriate service.
- ◆ **Taper Lock** - Alloy steel for fastening impellers on 17" and smaller sizes.
- ◆ **Keyed** - Impeller fastened onto the shaft by keyed split ring.
- ◆ **Pump Shaft** - Heavy duty 416SS standard, available in 316SS, 17-4 PH, Monel and other alloys for strength and corrosion resistance.
- ◆ **Diffuser Bowl** - Available in variety of cast materials. Glass lined cast iron standard through 18" sizes.
- ◆ **Stages** - Flanged and bolted together for ease of maintenance.
- ◆ **Sleeve Type Bearing** - Provided at each stage to assure stable operation away from critical speed.
- ◆ **Flanged Bowls** - Registered fits assure positive alignment, ease of maintenance.

In addition to standard features and options shown here, other features are available.

- ◆ Hydraulic balancing of impellers to reduce axial downthrust and achieve longer thrust bearing life.
- ◆ Independent flushing of bowl bearings and wear rings for abrasive services.
- ◆ Hard facing of shaft journals and bearings to protect against abrasion and increase interval between maintenance periods.
- ◆ Interior coating on bowls for improved efficiency.
- ◆ Dynamic balancing of impellers.
- ◆ Strainers to prevent foreign objects from entering the pump.

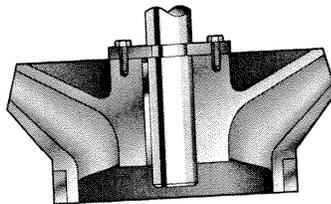


Pump Bowl Assembly Options



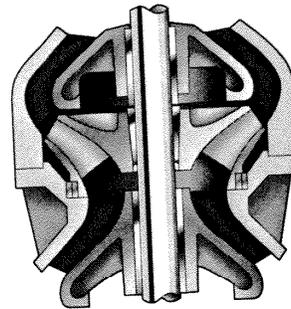
CHOICE OF SEMI-OPEN OR ENCLOSED IMPELLERS

Available in alloy construction for a wide range of corrosive/abrasive services.



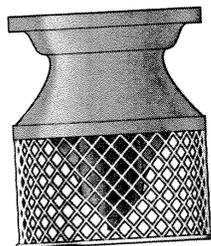
KEYED IMPELLERS

Keyed Impellers are standard on 18" and larger sizes; furnished on all pumps for temperatures above 180° F (82° C) and on cryogenic services. Regardless of size, keyed impellers provide ease of maintenance and positive locking under fluctuating load and temperature conditions.



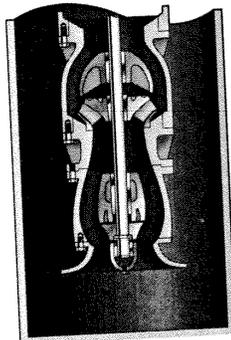
DUAL WEAR RINGS

Available for enclosed impellers and bowls; permits re-establishing initial running clearances and efficiency at lower cost. Hard facing of wear rings can be flushed when solids are present in pumpage.



STRAINERS

Basket or cone strainers are available to provide protection from large solids.



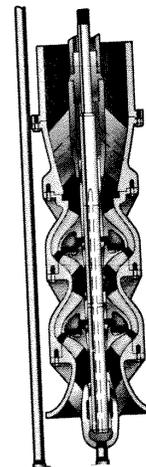
LOW NPSH FIRST STAGE X IMPELLERS

For low NPSH_A applications. Both large eye and mixed flow first stages available; minimizes pump length.



HARDFACING

Hardfacing the surface of bearing and shaft to protect against wear from abrasives in the bearing area.



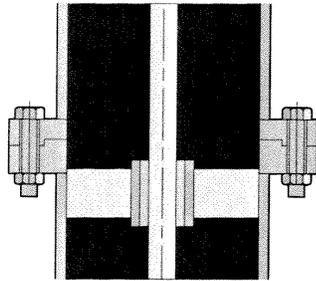
RIFLE DRILLING DISCHARGE BOWL

Rifle drilling of bowl shafts available for bearing protection on abrasive services.

Discharge bowl included with enclosed lineshaft construction.

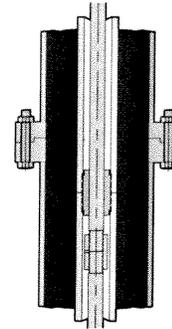
Flanged Column

Column sections are provided with flanged ends incorporating registered fits for ease of alignment during assembly. Facilitates disassembly where corrosion is a problem. Our standard bearing retainers are welded into the column section.



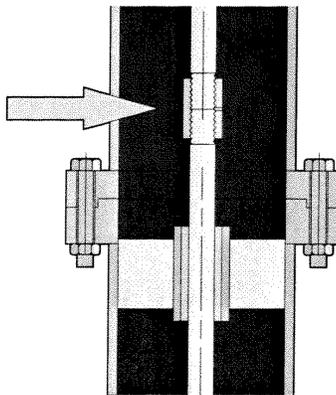
OPEN LINESHAFT BEARING

Flanged column / product lubricated lineshaft is recommended for ease of maintenance or whenever a special bearing material is required. Keyed lineshaft coupling available in all sizes for ease of maintenance. Various bearing materials available. Renewable shaft sleeve or hard facing of shaft available for longer life.



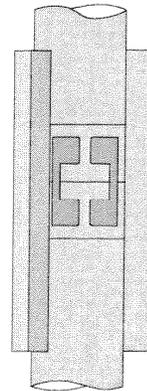
ENCLOSED LINESHAFT

The lineshaft is protected by water flushing the enclosing tube bearing on corrosive / abrasive services. Oil lubricated lineshaft available on long settings. Alignment is attained by register fit between the flange faces.



THREADED LINESHAFT COUPLING

Threaded lineshaft coupling is commonly used for lower horsepower pumps. It is less expensive.

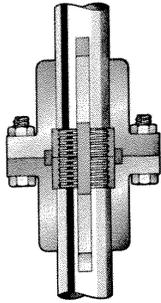


KEYED LINESHAFT

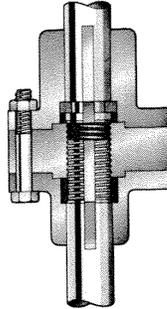
Keyed lineshaft coupling is recommended for motors larger than 500 HP. It provides ease of maintenance.

Goolds Vertical Turbine Pumps

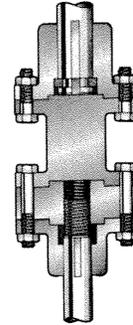
Coupling Arrangements



RIGID FLANGED COUPLING (Type AR)
To couple pump to vertical hollow shaft driver. Impeller adjustment is performed on adjusting nut located on top of motor.



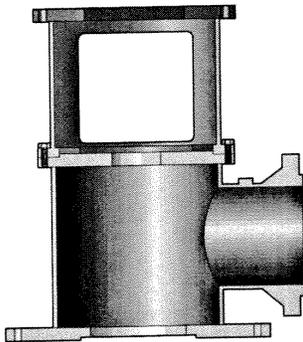
ADJUSTABLE COUPLING (Type A)
For vertical solid shaft driver. Impeller adjustment made by using adjustable plate in the coupling.



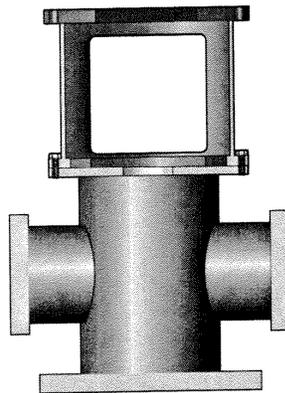
ADJUSTABLE SPACER COUPLING (Type AS)
Same function as type A coupling with addition of spacer. Spacer may be removed for mechanical seal maintenance without disturbing driver.

Discharge Heads

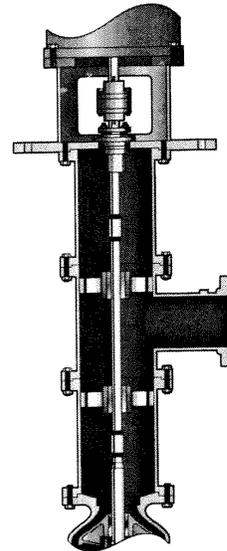
The discharge head functions to change the direction of flow from vertical to horizontal and to couple the pump to the system piping in addition to supporting and aligning the driver. Discharge head accommodates all modes of drivers including hollow shaft and solid shaft motors, right angle gears, vertical steam turbines, etc. Optional sub-base can be supplied. Goolds offers three basic types for maximum flexibility.



FABRICATED DISCHARGE HEAD
For pressures exceeding cast head limitations or services that require alloy construction such as high or low temperature or corrosive services. Segmented elbow available for efficiency improvement. Large hand holes for easy access. Base flange can be machined to match ANSI tank flange. Bearing at base of discharge head for better shaft support.

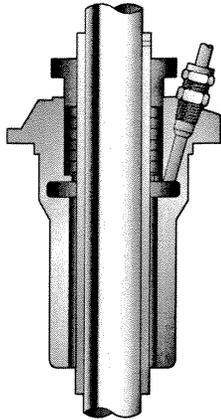


VIC-T
VIC-T can also be supplied as a VIC-L with the pump suction in the can.



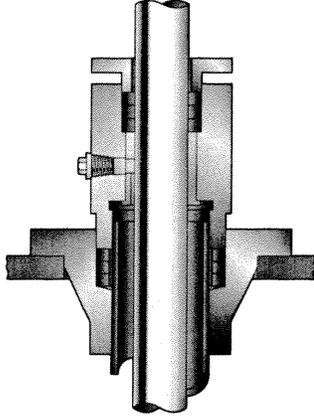
BELOW GROUND DISCHARGE HEAD
Use whenever VIT pump is required to adapt to an underground discharge system.

Sealing Flexibility



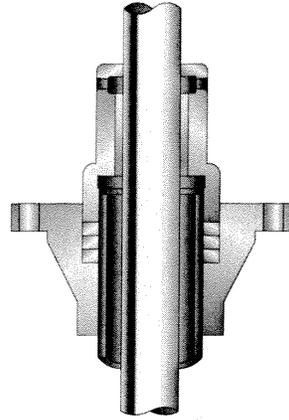
**PACKED BOX WITH SLEEVE
OPEN LINESHAFT**

Whenever packing lubrication leakage can be tolerated and the discharge pressure does not exceed 150 psi, a packed box may be used. Optional headshaft sleeve available to protect shaft.



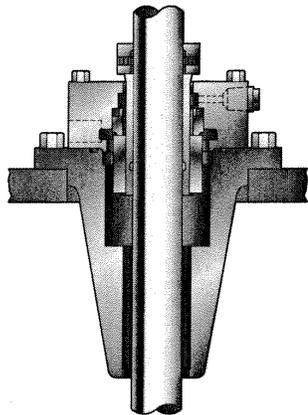
**WATER FLUSH ENCLOSED
LINESHAFT**

Water flush tube connection is supplied when pressurized water is introduced into the enclosing tube for bearing protection on abrasive services.



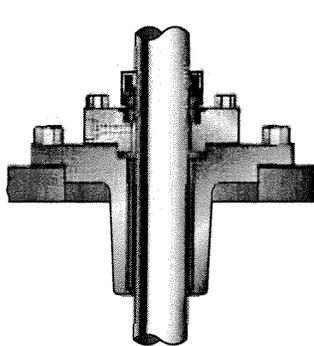
**OIL LUBRICATED ENCLOSED
LINESHAFT**

Oil lubricated option is recommended when water elevation would cause the upper lineshaft bearings to run without lubrication during start-up. Oil is fed through tapped opening and allowed to gravitate down enclosing tube lubricating bearings.



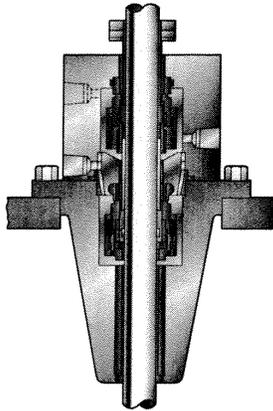
SINGLE SEAL

Most popular method — used for low to medium pressures. Cartridge style for ease of installation and maintenance.



OUTSIDE MOUNTED SEALS

Provides a method of no-leak sealing for low pressure and water application.



DUAL SEALS

Two seals mounted in-line. Chamber between seals can be filled with a buffer liquid and may be fitted with a pressure sensitive annunciating device for safety.

Make: MOYNO 2000
Model: 1G065G1 CDQX3AAA **Or City Approved Equal**

3.1 Summary of requirement:

3.1.1 The Contractor shall be required to provide submersible pump(s), non-potable water, MOYNO 2000, Model No. 1G065G1 – CDQX3AAA, or City approved equal for the Upper Brays Wastewater Treatment Plant, Facility No. 286, located at 13525 W. Houston Center Blvd.

3.2 Operating and Performance Requirements:

3.2.1 The pump shall provide 65 GPM per 100 RPM.

3.2.2 The pump elements (rotor and stator) shall be rated at 87 PSI on water.

3.2.3 The pump shaft shall be constructed of 8620 carbon steel.

3.2.4 The pump shall function at 278 RPM.

3.2.5 The pump shall provide a service factor at 1.15.

3.2.6 The pump enclosure shall be TEFC.

3.2.7 The pump shall provide 10 HP, 60 Hertz, 3 Phase and 230/460 Volt.

3.2.8 The pump shall function as severe duty - 89.5 efficiency.

3.2.9 The pump shall be capable of B3 mounting.

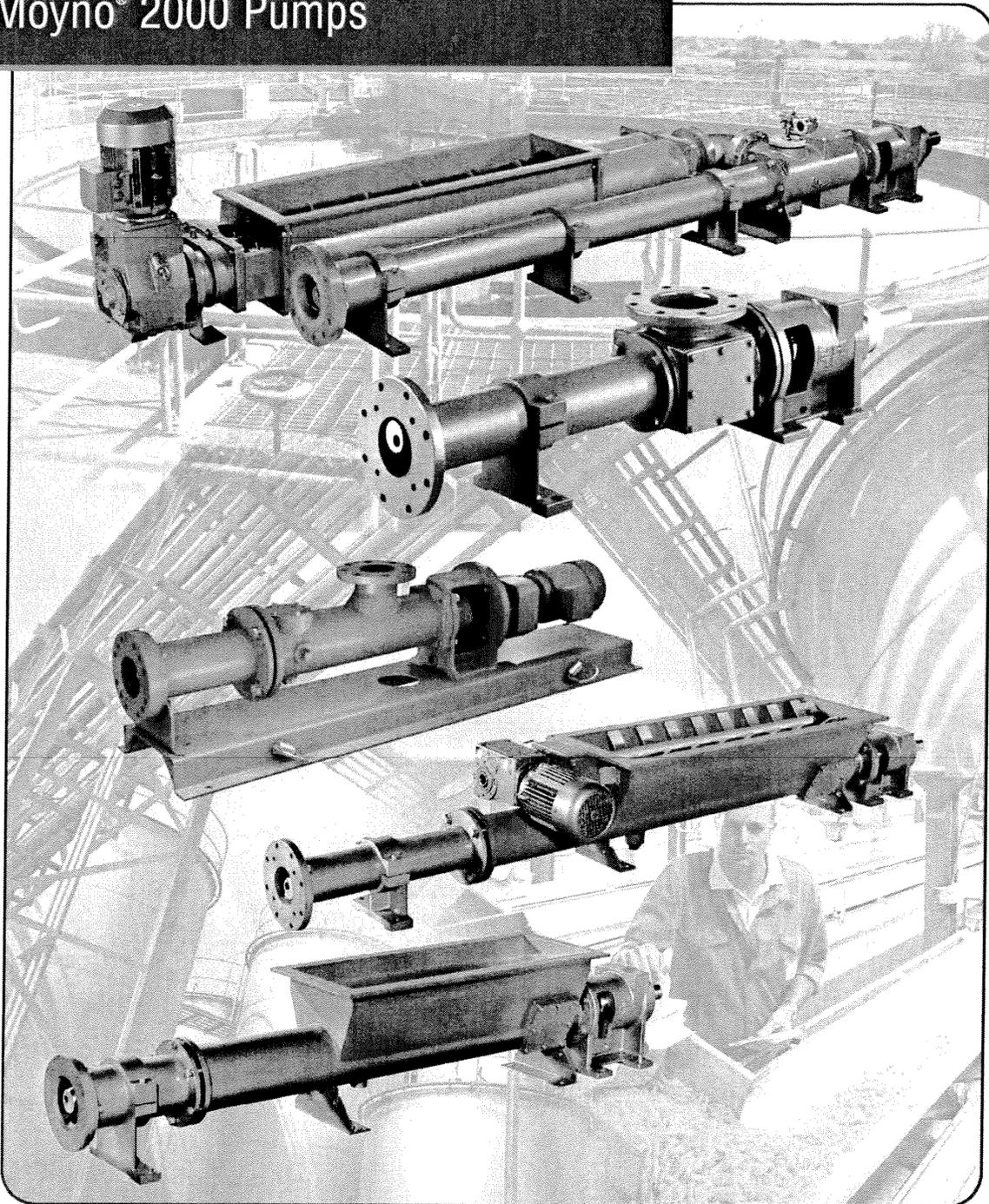
3.2.10 The pump shall function with 6.26:1 gear ratio.

(As per the specifications provided on the cut sheet drawings, Page Nos. 25 through 30 of 39)



Always the Right Solution™

Moyno® 2000 Pumps

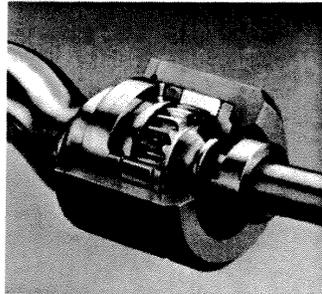
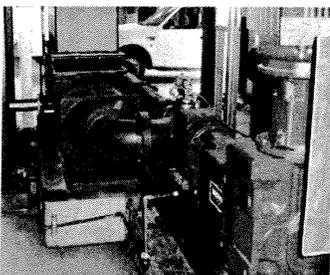


MOYNO 2000, Model No. 1G065G1 – CDQX3AAA, submersible non-potable water pump

Moyno® 2000 Pumps Offer Superior Pumping Performance

Moyno® 2000 pumps set the standard in positive displacement pumping applications. The proprietary Moyno 2000 gear-type universal joint design effectively handles radial and thrust loads for maximum performance and long life. These rugged pumps are able to handle abrasive materials in excess of 80% solids and offer a performance range to 4,500 GPM with pressure to 1,500 PSI.

By incorporating advanced technology, superior design and proprietary manufacturing processes, Moyno 2000 pumps offer the best value, and the most effective pumping solutions for the most extensive range of applications to satisfy all of your pumping needs.



Features & Benefits

Moyno 2000 Pumps offer maximum performance, value and application versatility with minimum maintenance.

- Sealed gear-type universal joint drive train effectively handles radial and thrust loads in the most demanding applications
- Low total cost of ownership
- Superior abrasion resistance
- Pump municipal sludge in excess of 50% solids further distances with higher volumetric efficiencies than any other progressing cavity pump
- Standard flange and close-coupled models available
- Open inlet configurations in 1-, 1.5- and 2-meter lengths to align with standard feed areas from centrifuges
- Independently driven bridge breakers for high viscosity, solids-laden fluids to eliminate product bridging

Typical Applications

Municipal Wastewater Treatment

- Municipal sludge
- Lime slurry dosing
- Filter press & incinerator feeds
- Raw sewage transfer

Paper

- Adhesives
- Coatings
- Latex
- Starch

Oil and Gas

- Crude oil transfer
- Treater battery system
- Oil/water separation

Food

- Ground meat emulsions
- Sauces and juices
- Grape must
- By-products and wastes

Chemical

- Caustics
- Detergents
- Paint
- Solvents

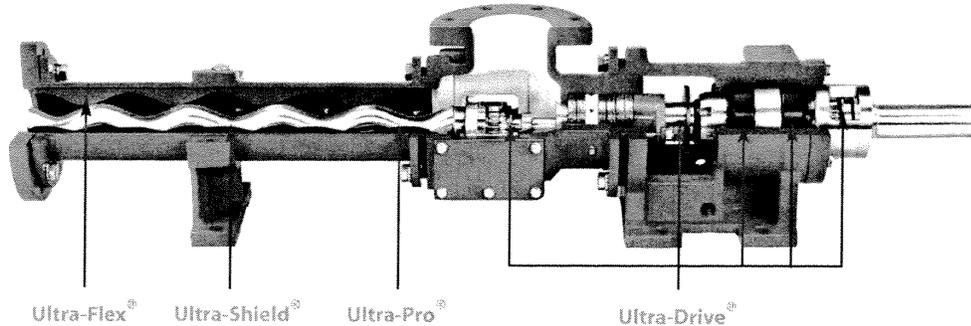
Building Materials

- Gypsum
- Plaster
- Resins

General

- Clay slurries
- Deicing fluids
- Hazardous waste
- Industrial sludges

Ultra-Technologies Provide Greater Customer Value



Moyno is able to deliver superior performance and greater overall customer value because of its proprietary Ultra-Technologies.

Proprietary **Ultra-Shield**® rotor coatings assure peak performance and excellent wear resistance under highly abrasive and/or corrosive service conditions.

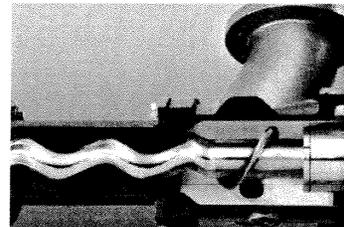
Ultra-Pro® rotor/stator configuration options allow end users to optimize their Moyno pump flow rate and pressure capability to match application requirements.

Proprietary **Ultra-Drive**® gear joint drive train configuration is designed to handle the high thrust and radial forces of even the most

demanding applications. The hollow shaft design provides the shortest progressing cavity pump footprint and extends bearing and seal life.

The extensive range of Moyno **Ultra-Flex**® stator elastomers offer application versatility to handle specific fluid conditions for peak operating efficiency, longer life and less maintenance.

Ultra-Serv® service programs provide comprehensive applications engineering support, expert pump repair services and quick parts shipments for trouble-free pump performance and reduced downtime.

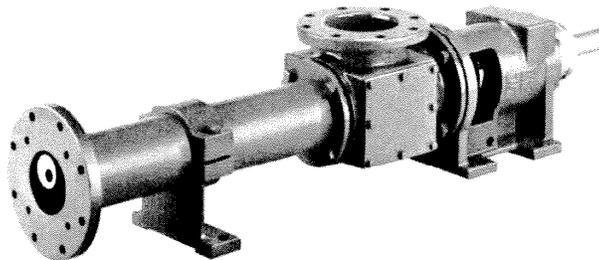


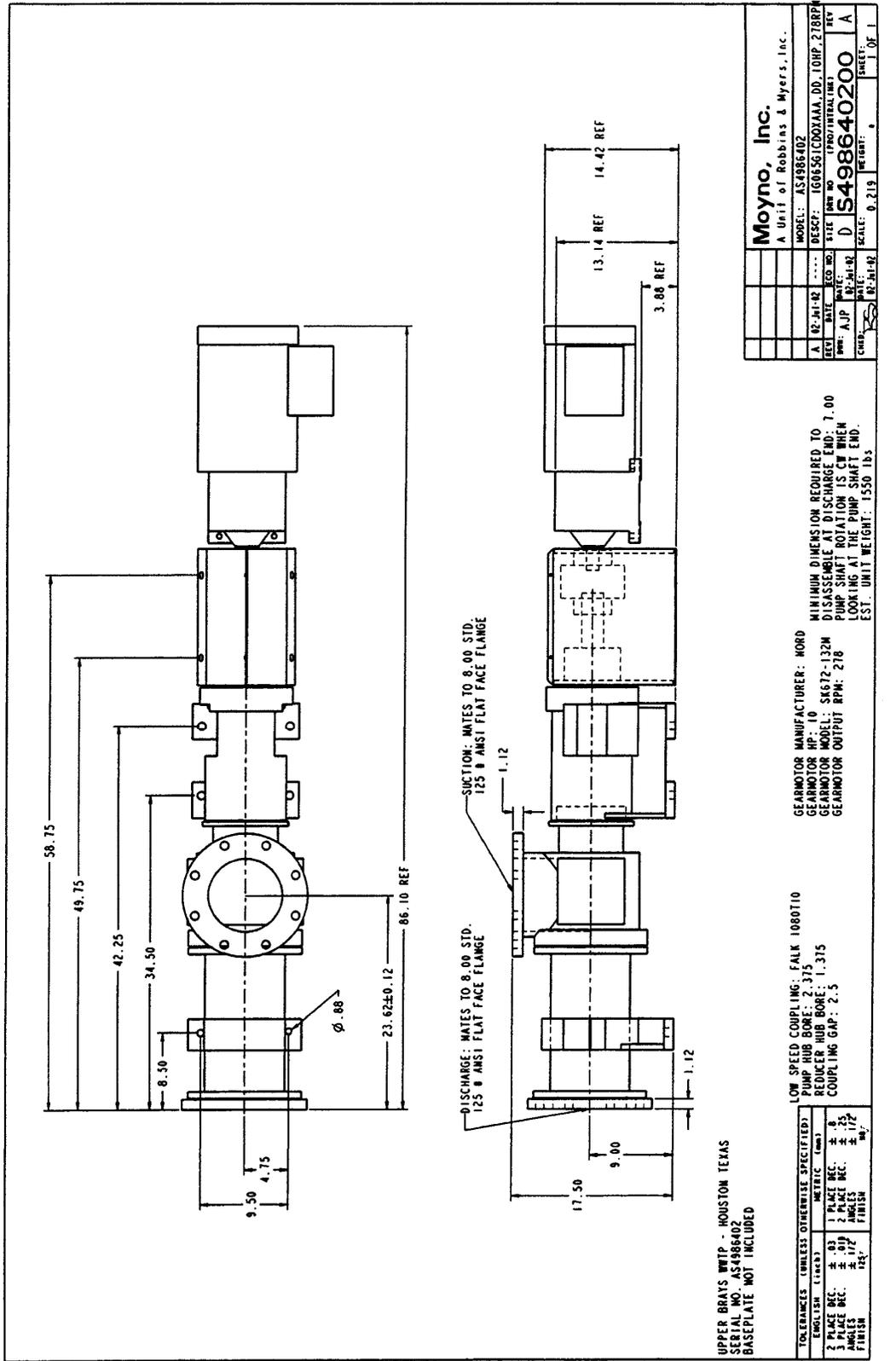
Ultra-Feed® auger provides superior feed and flow efficiency.

Moyno® 2000 G1 Pumps

The Moyno® 2000 G1 Pump is a versatile, high-performance pump designed to handle a wide range of applications from shear-sensitive chemicals to difficult-to-process slurries and sludges.

The Moyno 2000 G1 features the highly acclaimed crowned gear universal joint drive train configuration to provide exceptional torque and thrust control. Patented joint seals effectively protect the gear joints from pumpage contamination.





UPPER BRAYS UNIT - HOUSTON TEXAS
 SERIAL NO. AS4986402
 BASEPLATE NOT INCLUDED

TOLERANCES (UNLESS OTHERWISE SPECIFIED)	FINISH
± .03	METRIC (mm)
± .003	FACE DEC.
± .001	FACE DEC.
± .125	ANGLES
± .125	FINISH

LOW SPEED COUPLING: FALK 1060710
 PUMP HUB BORE: 2.375
 REDUCER HUB BORE: 1.375
 COUPLING GAP: 2.5

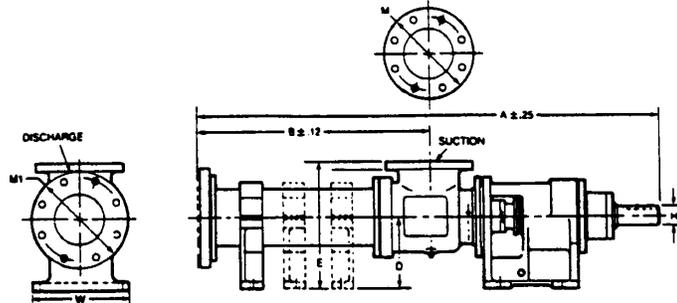
GEARMOTOR MANUFACTURER: NORD
 GEARMOTOR HP: 10
 GEARMOTOR MODEL: SK672-132M
 GEARMOTOR OUTPUT RPM: 278

MINIMUM DIMENSION REQUIRED TO
 DISASSEMBLE AT DISCHARGE END
 PUMP SHAFT ROTATION IS COUNTER
 LOOKING AT THE PUMP SHAFT END.
 EST. UNIT WEIGHT: 1550 LBS.

REV	DATE	BY	CHKD	SCALE	WEIGHT	SHEET
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3	12-11-82					
4	12-11-82					
5	12-11-82					
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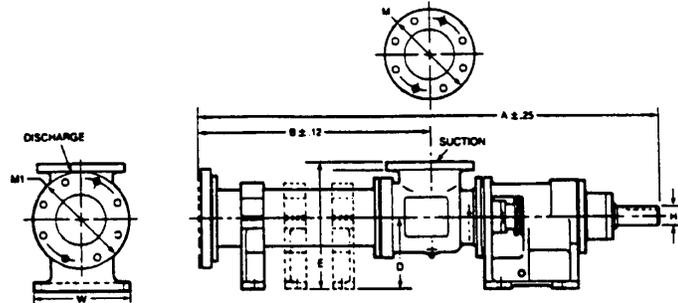
Moyno, Inc.
 A Unit of Robbins & Myers, Inc.
 MODEL: AS4986402
 DESC: 1G065G1CDQX3AAA, DD, 10HP, 278RPM
 SIZE (HW X D) (PROF/INITIALS)
 DATE: 12-11-82
 SCALE: 1:1
 WEIGHT: 9.219
 SHEET: 1 OF 1

MOYNO 2000, Model No. 1G065G1 – CDQX3AAA, submersible non-potable water pump



MODEL NO.	STANDARD PUMP DIMENSIONS						SUCTION FLANGE DATA		DISCHARGE FLANGE DATA		APPROX. WEIGHT LBS.
	A	B	D	E	H	W	SIZE	M	SIZE	M1	
4E008	63.50	37.62	6.00	11.50	1.88	8.00	4	9.00	4	10.00	375
6E008	79.50	53.62	6.00	11.50	1.88	8.00	4	9.00	4	10.00	425
1E012	42.00	16.12	6.00	11.50	1.88	8.00	4	9.00	4	9.00	300
2E012	53.12	27.25	6.00	11.50	1.88	8.00	4	9.00	4	9.00	325
4E012	75.62	49.75	6.00	11.50	1.88	8.00	4	9.00	4	10.00	380
1E022	43.31	17.19	6.00	12.50	1.88	8.00	6	11.00	6	11.00	330
2E022	56.19	30.06	6.00	12.50	1.88	8.00	6	11.00	6	11.00	370
4E022	82.94	56.81	6.00	12.50	1.88	8.00	6	11.00	6	11.00	500
1E036	46.09	19.50	6.00	13.00	1.88	8.00	6	11.00	6	11.00	400
2E036	60.59	34.00	6.00	13.00	1.88	8.00	6	11.00	6	11.00	465
1E050	51.53	24.93	6.00	13.00	1.88	8.00	6	11.00	6	11.00	490
2E050	71.34	44.74	6.00	13.00	1.88	8.00	6	11.00	6	11.00	515
6F012	102.38	72.50	7.00	13.50	2.12	10.00	6	11.00	4	10.75	605
4F022	86.69	56.81	7.00	13.50	2.12	10.00	6	11.00	6	12.50	675
6F022	112.19	82.31	7.00	13.50	2.12	10.00	6	11.00	6	12.50	735
2F036	63.12	34.12	7.00	14.00	2.12	10.00	6	11.00	6	11.00	560
4F036	92.12	63.12	7.00	14.00	2.12	10.00	6	11.00	6	11.00	760
2F050	73.75	44.75	7.00	14.00	2.12	10.00	6	11.00	6	11.00	610
4F050	113.50	84.50	7.00	14.00	2.12	10.00	6	11.00	6	11.00	835
1F065	54.11	23.62	7.00	15.50	2.12	10.00	8	13.50	8	13.50	580
2F065	71.98	41.49	7.00	15.50	2.12	10.00	8	13.50	8	13.50	700
1F090	60.71	30.21	7.00	15.50	2.12	10.00	8	13.50	8	13.50	620
2F090	85.21	54.71	7.00	15.50	2.12	10.00	8	13.50	8	13.50	785
6G022	116.88	84.75	9.00	16.00	2.38	11.50	6	11.00	6	14.00	915
4G036	97.06	64.94	9.00	16.00	2.38	11.50	6	11.00	6	12.50	920
6G036	125.81	93.69	9.00	16.00	2.38	11.50	6	11.00	6	12.50	1160
4G050	118.44	86.31	9.00	16.00	2.38	11.50	6	11.00	6	12.50	1020
6G050	158.19	126.06	9.00	16.00	2.38	11.50	6	11.00	6	12.50	1305
2G065	74.75	41.62	9.00	17.50	2.38	11.50	8	13.50	8	13.50	882
4G065	110.50	77.38	9.00	17.50	2.38	11.50	8	13.50	8	13.50	1210
2G090	87.88	54.75	9.00	17.50	2.38	11.50	8	13.50	8	13.50	960
4G090	136.88	103.75	9.00	17.50	2.38	11.50	8	13.50	8	13.50	1270
1G115	62.25	29.12	9.00	17.50	2.38	11.50	8	13.50	8	13.50	825
2G115	85.62	52.49	9.00	17.50	2.38	11.50	8	13.50	8	13.50	1005

NOTE: All dimensions are in inches.



MODEL NO.	STANDARD PUMP DIMENSIONS						SUCTION FLANGE DATA		DISCHARGE FLANGE DATA		APPROX. WEIGHT LBS.
	A	B	D	E	H	W	SIZE	M	SIZE	M1	
6H036	131.00	95.38	11.00	19.50	2.88	15.00	8	13.50	6	14.00	1290
6H050	163.38	127.75	11.00	19.50	2.88	15.00	8	13.50	6	14.00	1425
4H065	115.12	79.50	11.00	19.50	2.88	15.00	8	13.50	8	15.00	1390
6H065	150.62	115.00	11.00	19.50	2.88	15.00	8	13.50	8	15.00	1805
4H090	141.50	105.88	11.00	19.50	2.88	15.00	8	13.50	8	15.00	1585
2H115	89.88	54.25	11.00	19.50	2.88	15.00	8	13.50	8	13.50	1185
4H115	136.62	101.00	11.00	19.50	2.88	15.00	8	13.50	8	13.50	1660
1H175	71.33	33.74	11.00	21.50	2.88	15.00	10	16.00	10	16.00	1175
2H175	97.96	60.37	11.00	21.50	2.88	15.00	10	16.00	10	16.00	1460
6J065	155.94	116.16	11.00	19.50	3.38	15.00	8	13.50	8	16.50	2070
6J090	195.25	155.38	11.00	19.50	3.38	15.00	8	13.50	8	15.00	2305
4J115	141.88	102.00	11.00	19.50	3.38	15.00	8	13.50	8	15.00	1985
6J115	188.62	148.75	11.00	19.50	3.38	15.00	8	13.50	8	15.00	2420
2J175	101.38	60.50	11.00	21.50	3.38	15.00	10	16.00	10	16.00	1840
4J175	154.62	113.75	11.00	21.50	3.38	15.00	10	16.00	10	16.00	2560
1J220	77.75	36.87	11.00	21.50	3.38	15.00	10	16.00	10	16.00	1450
2J220	107.50	66.62	11.00	21.50	3.38	15.00	10	16.00	10	16.00	1850
1J345	94.25	53.37	11.00	21.50	3.38	15.00	10	16.00	10	16.00	1835
2J345	140.21	99.33	11.00	21.50	3.38	15.00	10	16.00	10	16.00	2395
6K115	202.06	152.25	13.00	23.50	3.88	17.00	10	16.00	8	16.50	3170
4K175	167.19	117.38	13.00	23.50	3.88	17.00	10	16.00	10	17.50	3300
6K175	220.19	170.38	13.00	23.50	3.88	17.00	10	16.00	10	17.50	3965
2K345	152.19	102.38	13.00	23.50	3.88	17.00	10	16.00	10	16.00	3090
3K345	198.31	148.50	13.00	23.50	3.88	17.00	10	16.00	10	16.00	3655
4K345	245.06	195.25	13.00	23.50	3.88	17.00	10	16.00	10	17.50	4220
1K620	140.19	90.38	13.00	23.50	3.88	17.00	10	16.00	10	16.00	2850
2K620	220.81	171.00	13.00	23.50	3.88	17.00	10	16.00	10	17.50	3740
1K800	131.62	80.75	13.00	23.50	3.88	17.00	12	19.00	14	21.00	3120
2K800	190.44	139.62	13.00	23.50	3.88	17.00	12	19.00	14	21.00	4165

NOTE: All dimensions are in inches.

GENERAL TERMS AND CONDITIONS

1.0 COMPETITIVE BIDDING:

- 1.1 It is the intent of the City of Houston to solicit the lowest and best responsible bid or price under competitive conditions. All materials and/or equipment shall be new unless stated otherwise. Prospective bidders are advised that the specifications within this bid invitation are not to be considered restricted to any referenced manufacturer.

2.0 AWARD:

- 2.1 The City reserves the right to consider and make awards of bids on articles of similar nature that will in all respects serve the purpose for which the purchase is being made. The City reserves the right to be the sole judge as to whether such articles will serve the purpose.
- 2.2 Unless otherwise specified, the City reserves the right to accept or reject in whole or in part any bid submitted or to waive any informalities that are in the best interests of the City.

3.0 CONDITIONS PART OF BID:

- 3.1 In the event of any conflict, the terms and provisions incorporated in the bid specifications shall control over the terms and provisions of the General Terms & Conditions for any or all purposes. Otherwise, all the terms and provisions appearing within the General Terms & Conditions shall be given full effect and shall be construed in harmony to the maximum extent by the parties hereto.
- 3.2 The failure of the City to insist, in any one or more instances, upon performance of any of the terms, covenants or conditions of this Contract, General Terms & Conditions or Specifications shall not be construed as a waiver or relinquishment of the future performance of such term, covenant or condition by the City, but the obligation of the Contractor/Supplier with respect to such future performance shall continue in full force and effect.

4.0 SILENCE OF SPECIFICATIONS:

- 4.1 The apparent silence of these specifications as to any detail or the apparent omission from them of a detailed description concerning any point shall be regarded as meaning that only the best commercial practice shall prevail and only materials and workmanship of first quality are acceptable. All interpretations of these specifications shall be made upon the basis of this statement.

5.0 SPECIFIED EQUIPMENT, OR EQUIVALENT:

- 5.1 Wherever in the specifications any materials or processes are indicated or specified by patent or proprietary name and/or by name of manufacturer, such specifications shall be deemed to be used for the purpose of facilitating descriptions of the performance, materials and/or processes desired and shall be deemed to be followed by the words, "or equivalent", if not so stated in the specifications herein.
- 5.2 The burden of proof shall rest with the bidder, in the course of a technical evaluation, to prove that the proposed item(s) are equivalent to the performance, materials, processes, or articles specified. DETERMINATION AS TO WHETHER THE ITEM (S) BID IS (ARE) EQUIVALENT TO THOSE SPECIFIED SHALL REST SOLELY WITH THE CITY PURCHASING AGENT AND THE RECEIVING DEPARTMENT.

6.0 BRAND NAME OR TRADE NAME:

- 6.1 Any manufacturer's names, trade names, brand names, or catalog numbers used in the specifications are for the purpose of describing and establishing the general quality level, design and performance desired. Such references are not intended to limit or restrict bidding by other Contractors/Suppliers, but are intended to approximate the quality design or performance that is desired. Any bid that proposes like quality, design or performance, will be considered. Equivalent products will be considered, provided a complete description and product literature is provided. Unless a specific exception is made, the assumption will be that the item bid is exactly as specified on the Invitation to Bid.

7.0 PATENTS:

- 7.1 The Contractor/Supplier agrees to indemnify and save harmless the city, its agents, employees, officers, and legal representatives from all suits and actions of every nature and description brought against them or any of them, for or on account of the use of patented appliances, products or processes, and it shall pay all royalties and charges which are legal and equitable. Evidence of such payment or satisfaction shall be submitted, upon request of the City Purchasing Agent, as a necessary requirement in connection with the final estimate for payment in which such patented appliance, products or processes are used.

8.0 TERMINATION OF AGREEMENT:

- 8.1 By the City for Convenience:

8.1.1 The City Purchasing Agent may terminate this Contract at any time upon 30-calendar days notice in writing to the Contractor/Supplier. Upon receipt of such notice, The Contractor/Supplier shall, unless the notice directs otherwise, discontinue all services in connection with the performance of the contract and shall proceed to cancel promptly all existing orders and contracts insofar as such orders and contracts are chargeable to this Contract. As soon as practicable after the receipt of notice of termination, the Contractor/Supplier shall submit a statement to the appropriate department(s) showing in detail the services performed or items delivered under this Contract to date of termination. The City agrees to compensate the Contractor/Supplier for that portion of the prescribed charges for which the services were actually performed or items delivered under this contract and not previously paid.

- 8.2 By the City for Default by the Contractor/Supplier:

8.2.1 In the event that the materials and/or services furnished by the Contractor/Supplier do not conform to the standard set forth herein, or if the deliveries and servicing of this contract do not conform to the requirements detailed herein, the City through a written notice from the City Purchasing Agent to the Contractor/Supplier describing such default may as its options:

- (1) Terminate the contract for default and the City shall have no further obligation under the Contract.
- (2) Allow the Contractor/Supplier to cure default within a reasonable time as specified in the notice. The City, at its sole option, may extend the proposed date of termination to a later date. If prior to the proposed date of termination, The Contractor/Supplier cures such default to the City's satisfaction, then the proposed termination shall be ineffective. If The Contractor/Supplier fails to cure such default prior to the propose date of termination, then the City may terminate its performance under this contract as of such date and have no further obligation under the contract.

8.2.2 In the event of failure to deliver any or all of the items or to perform required services, the City may cover its loss by reasonably procuring from another source the items not delivered or the services not performed. The Contractor/Supplier shall be responsible for and shall

pay to the City immediately upon demand the difference in price between that offered by the Contractor/Supplier and that which the City was forced to pay for covering The Contractor/Supplier's failure to deliver or perform services.

8.3 By the Contractor/Supplier for Default by City:

8.3.1 Default by the City shall occur if the City fails to perform or observe the terms and conditions of this Contract required to be performed or observed by the City, and the Contractor/Supplier gives notice in writing to the City within 30 calendar days of the act or omission claimed by the Contractor/Supplier to constitute default on the part of the City.

8.3.2 Upon receipt of such notice in writing from the Contractor/Supplier, however, the City shall have 30 calendar days to cure such default. The Contractor/Supplier, at its sole option, may extend the proposed date of termination to a later date.

8.3.3 If City cures such default prior to the proposed date of termination, the proposed termination shall be ineffective. If the City fails to cure such default prior to the propose date of termination, then the Contractor/Supplier may terminate its performance under this contract as of such date

9.0 SUCCESSORS & ASSIGNS:

9.1 The Contractor/Supplier may not assign this contract or dispose of substantially all of its assets without the written consent of the City Purchasing Agent. The Contractor/Supplier's failure to obtain such consent shall be an event of default, authorizing the City Purchasing Agent to terminate this contract according to its terms.

10. RELEASE:

10.1 THE CONTRACTOR/SUPPLIER AGREES TO AND SHALL RELEASE THE CITY, ITS AGENTS, EMPLOYEES, OFFICERS, AND LEGAL REPRESENTATIVES (COLLECTIVELY THE "CITY") FROM ALL LIABILITY FOR INJURY, DEATH, DAMAGE, OR LOSS TO PERSONS OR PROPERTY SUSTAINED IN CONNECTION WITH OR INCIDENTAL TO PERFORMANCE UNDER THIS AGREEMENT, EVEN IF THE INJURY, DEATH, DAMAGE, OR LOSS IS CAUSED BY THE CITY'S SOLE OR CONCURRENT NEGLIGENCE AND/OR THE CITY'S STRICT PRODUCTS LIABILITY OR STRICT STATUTORY LIABILITY.

11.0 INDEMNIFICATION:

11.1 THE CONTRACTOR/SUPPLIER AGREES TO AND SHALL DEFEND, INDEMNIFY, AND HOLD THE CITY, ITS AGENTS, EMPLOYEES, OFFICERS, AND LEGAL REPRESENTATIVES (COLLECTIVELY THE "CITY") HARMLESS FOR ALL CLAIMS, CAUSES OF ACTION, LIABILITIES, FINES, AND EXPENSES (INCLUDING, WITHOUT LIMITATION, ATTORNEYS' FEES, COURT COSTS, AND ALL OTHER DEFENSE COSTS AND INTEREST) FOR INJURY, DEATH, DAMAGE, OR LOSS TO PERSONS OR PROPERTY SUSTAINED IN CONNECTION WITH OR INCIDENTAL TO PERFORMANCE UNDER THIS AGREEMENT INCLUDING, WITHOUT LIMITATION, THOSE CAUSED BY:

(1) THE CONTRACTOR/SUPPLIER'S AND/OR ITS AGENTS', EMPLOYEES', OFFICERS', DIRECTORS', CONTRACTORS', OR SUBCONTRACTORS' (COLLECTIVELY IN NUMBERED PARAGRAPHS 1-3, "THE CONTRACTOR/SUPPLIER") ACTUAL OR ALLEGED NEGLIGENCE OR INTENTIONAL ACTS OR OMISSIONS;

(2) THE CITY'S AND THE CONTRACTOR/SUPPLIER'S ACTUAL OR ALLEGED CONCURRENT NEGLIGENCE, WHETHER THE CONTRACTOR/SUPPLIER IS IMMUNE FROM LIABILITY OR NOT; AND

(3) **THE CITY'S AND THE CONTRACTOR/SUPPLIER'S ACTUAL OR ALLEGED STRICT PRODUCTS LIABILITY OR STRICT STATUTORY LIABILITY, WHETHER THE CONTRACTOR/SUPPLIER IS IMMUNE FROM LIABILITY OR NOT.**

11.2 THE CONTRACTOR/SUPPLIER SHALL DEFEND, INDEMNIFY, AND HOLD THE CITY HARMLESS DURING THE TERM OF THIS AGREEMENT AND FOR FOUR YEARS AFTER THE AGREEMENT TERMINATES. THE CONTRACTOR/SUPPLIER'S INDEMNIFICATION IS LIMITED TO \$500,000 PER OCCURRENCE. THE CONTRACTOR/SUPPLIER SHALL NOT INDEMNIFY THE CITY FOR THE CITY'S SOLE NEGLIGENCE.

11.3 INDEMNIFICATION PROCEDURES:

11.3.1 Notice of Claims. If the City or The Contractor/Supplier receives notice of any claim or circumstances which could give rise to an indemnified loss, the receiving party shall give written notice to the other party within 10 days. The notice must include the following:

- (a) a description of the indemnification event in reasonable detail,
- (b) the basis on which indemnification may be due, and
- (c) the anticipated amount of the indemnified loss.

11.3.2 This notice does not stop or prevent the City from later asserting a different basis for indemnification or a different amount of indemnified loss than that indicated in the initial notice. If the City does not provide this notice within the 10 day period, it does not waive any right to indemnification except to the extent that The Contractor/Supplier is prejudiced, suffers loss, or incurs expense because of the delay.

11.3.3 Defense of Claims.

- (a) **Assumption of Defense.** The Contractor/Supplier may assume the defense of the claim at its own expense with counsel chosen by it that is reasonably satisfactory to the City. The Contractor/Supplier shall then control the defense and any negotiations to settle the claim. Within 10 days after receiving written notice of the indemnification request, The Contractor/Supplier must advise the City as to whether or not it will defend the claim. If The Contractor/Supplier does not assume the defense, the City shall assume and control the defense, and all defense expenses constitute an indemnification loss.
- (b) **Continued Participation.** If The Contractor/Supplier elects to defend the claim, the City may retain separate counsel to participate in (but not control) the defense and to participate in (but not control) any settlement negotiations. The Contractor/Supplier may settle the claim without the consent or agreement of the City, unless it (i) would result in injunctive relief or other equitable remedies or otherwise require the City to comply with restrictions or limitations that adversely affect the City, (ii) would require the City to pay amounts that Contractor does not fund in full, (iii) would not result in the City's full and complete release from all liability to the plaintiffs or claimants who are parties to or otherwise bound by the settlement.

12.0 INSURANCE: (See City of Houston's website for sample certificate)

12.1 The Contractor/Supplier shall have insurance coverage as follows:

- Commercial General Liability shall be \$500,000 per occurrence; \$1,000,000 aggregate, per 12-month policy period.
- Automobile Liability Insurance for autos furnished or used in the course of performance of

this Contract. Including Owned, Non-owned, and Hired Auto coverage. (Any Auto coverage may be substituted for Owned, Non-owned and Hired Auto coverage.) If no autos are owned by The Contractor/Supplier, coverage may be limited to Non-owned and Hired Autos. If Owned Auto coverage cannot be purchased by The Contractor/Supplier, Scheduled Auto coverage may be substituted for Owned Auto coverage. EACH AUTO USED IN PERFORMANCE OF THIS CONTRACT MUST BE COVERED IN THE LIMITS SPECIFIED. \$1,000,000 - Combined Single Limit per occurrence; \$1,000,000 aggregate, per 12-month policy period.

- **Worker's Compensation** including Broad Form All States endorsement shall be in statutory amount.
- **Employer's Liability:** Bodily Injury/Accident \$100,000; Bodily Injury/Disease \$100,000 (per employee); Bodily Injury/Disease \$100,000 (policy limit).

12.2 The issuer of any policy (1) shall have a Certificate of Authority to transact insurance business in Texas or (2) shall be an eligible non-admitted insurer in Texas, and shall have a Best's rating of at least B+, and a Best's Financial Size Category of Class VI or better, according to the most current edition of Best's Key Rating Guide.

12.3 All insurance policies required by this Contract shall require on their face that 1) the City of Houston is named as an additional insured; 2) the insurance carrier waives any rights of subrogation against the City; and 3) it shall give thirty (30) days written notice to the City before any policy required by this Contract is cancelled. Within such thirty (30) day period, The Contractor/Supplier covenants that it will provide other suitable policies in lieu of those about to be cancelled so as to maintain in effect the coverage required under the provisions hereof. Failure or refusal of the Contractor/Supplier to obtain and keep in force the above-required insurance coverage shall authorize the City, at its option, to terminate this Contract at once.

12.4 **REQUIREMENTS FOR CERTIFICATE OF INSURANCE:**

12.4.1 Certificate must not be more than 30 days old.

12.4.2 Name and Address of Producer writing coverage.

12.4.3 Name of each insurance company providing coverage (as listed or on company's Certificate of Authority on file with the Texas Department of Insurance, or in Best's Key Rating Guide.)

12.4.4 Name and address of insured (as shown on policy).

12.4.5 Letter in the column must reference the insurer of the policy being described.

12.4.6 Must be a policy number; no binders will be accepted.

12.4.7 Date policy became effective.

12.4.8 Expiration date must be at least **60** days from date of delivery of certificate.

12.4.9 Name and file number of project (Bid Name and Bid Number).

12.4.10 Name of project manager (Buyer).

12.4.11 Signature or facsimile signature of authorized representative of Producer (blue ink preferred).

12.5 **Prior to award and/or starting work, The Contractor/Supplier must present a Certificate of Insurance evidencing the insurance coverage specified above. This is a mandatory requirement.**

Forward to Buyer at: City of Houston/Administration & Regulatory Affairs Department
Strategic Purchasing Division
P.O. Box 1562
Houston, Texas 77251-1562

INSURANCE IS NOT REQUIRED IF ITEM IS DROP-SHIPPED BY MANUFACTURER OR IS DELIVERED BY COMMON CARRIER.

13.0 MINORITY AND WOMEN BUSINESS ENTERPRISES:

- 13.1 These provisions apply to goal-oriented contracts. A goal oriented contract means any contract awarded for the supply of goods or non-professional services of approximately \$100,000.00 for which competitive bids are required by law and which the City Purchasing Agent has determined to have City of Houston Certified MWBE subcontracting potential.
- 13.2 The Contractor/Supplier agrees to comply with the City's Minority and Women Business Enterprise programs as set out in Chapter 15, Article V of the City of Houston Code of Ordinances insofar as such programs apply to this Contract. The Contractor/Supplier further agrees that it will make good faith efforts to award subcontracts or supply agreements in at least 3% of the value of this Contract to Minority and Women-owned Business Enterprises certified by the City's Affirmative Action Division. In addition, The Contractor/Supplier acknowledges that it has reviewed the requirements for good faith efforts that are on file with the City's Affirmative Action Division, is familiar with such requirements, and will comply with them.
- 13.3 The Contractor/Supplier shall require written subcontracts with all MWBE subcontractors and suppliers, which must contain the terms, set out in the documents attached herein. If The Contractor/Supplier is an individual person (as distinguished from a corporation, partnership, or other legal entity), and the amount of the subcontract is \$50,000 or less, then the subcontract must also be signed by the attorneys of the respective parties.
- 13.4 Refer to the "City of Houston Goal-Oriented Minority and Women Business Enterprises Contract Provisions" attachment, which is incorporated in the specifications herein by this reference for all purposes, for more detailed information on this requirement.

The above-mentioned goal will apply to ***Bid Item Nos. 1, 2 & 3.***

14.0 REJECTIONS:

- 14.1 Articles not in accordance with samples and specifications must be removed by the Contractor/Supplier and at its expense. All disputes concerning quality of supplies delivered under this offer will be determined by the City Purchasing Agent or designated representative.
- 14.2 All articles enumerated in the offer shall be subject to inspection on delivery by an officer designated for the purpose and if found inferior to the quality called for, or not equal in value to the Department's samples, or deficient in weight, measurements, workmanship or otherwise, this fact shall be certified to the City Purchasing Agent who shall have the right to reject the whole or any part of the same.

15.0 INVOICING:

- 15.1 In order to expedite payments all invoices must be submitted in triplicate, itemized as to quantity, part and/or model number, description in the same order and form as in the City of Houston Purchase Order. Variations will only delay payment. In addition, invoices must show the name of the Department, Division or Section to which the merchandise was delivered, and the City of Houston Purchase Order Number.
- 15.2 All delivery tickets must have a description of the item delivered.
- 15.3 Mail invoices to the Accounts Payable Section of the Department and to the address, as noted on individual purchase orders.
- 15.4 Delivery tickets and packing slips will contain the same information as the invoice.
- 15.5 All packing slips and delivery tickets must be signed by the receiving employee with their City Employee Number and must be signed by The Contractor/Supplier's Representative.

16.0 TAXES:

16.1 The City is exempt from the Federal Excise and Transportation Tax, and the limited Sales and Use Tax. Unless the Bid Form or Specifications specifically indicate otherwise, the bid price must be net exclusive of above-mentioned taxes. A Contractor/Supplier desiring refunds of, or exemptions from, taxes paid on merchandise accepted by the City, must submit the proper forms, and the City Purchasing Agent, if satisfied as to the facts, may approve or issue the necessary certificates.

17.0 PAYMENT:

17.1 Payment is due thirty (30) days after the City has approved the invoice or after the City has accepted the equipment and all required documents, whichever occurs later. Invoices received that do not agree with the provisions set forth herein shall be returned for correction and will result in payment being delayed.

17.2 PAYMENT OF SUBCONTRACTORS:

17.2.1 The Contractor/Supplier shall make time payments to all persons and entities supplying labor, materials or equipment for the performance of this Contract. The Contractor/Supplier agrees to protect, defend, and indemnify the City from any claims or liability arising out of The Contractor/Supplier's failure to make such payments. (Disputes relating to payment of MWBE subcontractors shall be submitted to arbitration in the same manner as any other disputes under the MWBE subcontract. Failure of the Contractor/ Supplier to comply with the decisions of the arbitrator may be deemed, at the sole discretion of the City, a material breach leading to termination of this Contract.)

18.0 INSPECTIONS AND AUDITS:

18.1 The City reserves all rights to review all payments made to The Contractor/Suppliers by auditing at a later date. Subject to such audit, any overpayments may be recovered from the Contractor/Supplier.

18.2 City representatives may have the right to perform, or have performed, (1) audits of The Contractor/Supplier's books and records, and (2) inspections of all places where work is undertaken in connection with this Agreement. The Contractor/Supplier shall keep its books and records available for this purpose for at least four years after this Agreement terminates. This provision does not affect the applicable statute of limitations.

18.3 City representatives have the right to examine the books of all subcontractors and/or suppliers supplying goods and/or services under the contract insofar as those books and records relate to performance under the prime contract.

19.0 CITY OF HOUSTON FAIR CAMPAIGN ORDINANCE:

19.1 The City of Houston Fair Campaign Ordinance makes it unlawful for a Contractor/Supplier to offer any contribution to a candidate for City elective office (including elected officers and officers-elect). All respondents to this invitation to bid must comply with Houston Code of Ordinances Chapter 18 as amended relating to the contribution and solicitation of funds for election campaigns. Provisions of this ordinance are provided in part in the paragraphs that follow. Complete copies may be obtained from the office of the City Secretary.

19.2 Candidates for city office may neither solicit nor receive contributions except during a period commencing 270 calendar days prior to an election date for which a person is a candidate for such office and ending 90 calendar days after the election date, including run off elections if such candidate is on the ballot.

19.3 Further, it shall be unlawful either for any person who submits a bid or proposal to contribute or offer any contribution to a candidate or for any candidate to solicit or accept any contribution from

such person for a period commencing at the time of posting of the City Council Meeting Agenda including an item for the award of the Contract and ending upon the 30th day after the award of the Contract by City Council.

19.4 For the purposes of this Ordinance, a **Contract** is defined as each Contract having a value in excess of \$30,000 that is let by the City for professional services, personal services, or other goods or services of any other nature whether the Contract is awarded on a negotiated basis, request for proposal basis, competitive proposal basis or formal sealed competitive bids. The term **Contractor/Supplier** includes proprietors of proprietorships, partners having an equity interest of 10% or more of partnerships, (including limited liability partnerships and companies), all officers and directors of corporations (including limited liability corporations), and all holders of 10% or more of the outstanding shares of corporations.

19.5 **A STATEMENT DISCLOSING THE NAMES AND BUSINESS ADDRESSES EACH OF THOSE PERSONS WILL BE REQUIRED TO BE SUBMITTED WITH EACH BID OR PROPOSAL FOR A CITY CONTRACT.** Completion of the attached form entitled "**Contractor Submission List**" will satisfy this requirement. Failure to provide this information may be just cause for rejection of your bid or proposal.

20.0 CITY OF HOUSTON CONTRACTOR/SUPPLIER OWNERSHIP DISCLOSURE ORDINANCE:

20.1 City Council requires knowledge of the identities of the owners of entities seeking to contract with the City in order to review their indebtedness to the City and other qualifying governmental entities prior to entering into contracts. Therefore, all respondents to this invitation to bid must comply with Houston Code of Ordinances Chapter 15, as amended (Sections 15-122 through 15-126) relating to the disclosure of owners of entities bidding on, proposing for or receiving City contracts. Provisions of this ordinance are provided in part in the paragraphs that follow. Complete copies may be obtained from the office of the City Secretary.

20.2 Contracting entity means a sole proprietorship, corporation, non-profit corporation, partnership, joint venture, limited liability company, or other entity that seeks to enter into a contract requiring approval by the Council but excluding governmental entities.

20.3 A contracting entity must submit at the time of its bid or proposal, an affidavit listing the full names and the business and residence addresses of all persons owning 5% or more of a contracting entity or, where a contracting entity is a non-profit corporation, the full names and the business and residence addresses of all officers of the non-profit corporation.

20.4 Completion of the "**Affidavit of Ownership or Control**", included herein, and submitted with the Official Bid or Proposal Form will satisfy this requirement. Failure to provide this information with your bid or proposal may be just cause for rejection of your bid or proposal.

21.0 CHANGE ORDERS:

21.1 At any time during the Agreement Term, the City Purchasing Agent, or designated representative, may issue a change order to increase or decrease the scope of services, or change plans and specifications, as may be necessary to accomplish the general purposes of this Agreement. The Contractor/Supplier shall furnish the services or deliverables in the change order in accordance with the requirements of this Agreement plus any special provisions, specifications, or special instructions issued to execute the additional work.

21.2 The Contractor/Supplier shall not make any changes to the specifications or drawings contained herein without written authorization from the City Purchasing Agent or designated representative. The City may refuse to accept all or part of the work performed or equipment/supplies delivered if changes are made to the specifications or drawings without the written authorization of the City Purchasing Agent or designated representative. The City shall not be responsible for costs

incurred by the Contractor/Supplier on unauthorized change orders.

- 21.3 Documentation acceptable to the City Purchasing Agent as evidence of the Contractor/Supplier's change(s) shall reference the City's bid specification by section(s) and page number(s). A letter with supporting documentation of the requested change(s) shall be submitted to the City Purchasing Agent, and the City Purchasing Agent must approve any requested changes PRIOR TO ANY CHANGES BEING PERFORMED. The face of the envelope containing this letter shall clearly state, "CHANGE ORDER REQUEST" and THE NUMBER OF THE BID INVITATION AND THE NUMBER(S) OF THE PURCHASE ORDER(S) referenced. Failure to provide clear and concise evidence as stated above and in the format requested will result in denial until The Contractor/Supplier complies with these provisions. Documentation shall be mailed to:

City Purchasing Agent
City of Houston, Administration & Regulatory Affairs Department
Strategic Purchasing Division
P. O. Box 1562
Houston, TX 77251-1562

- 21.4 The City Purchasing Agent, or designated representative, may issue change orders, subject to the following limitations:

21.4.1 City Council expressly authorizes the City Purchasing Agent to approve change orders of **\$50,000** or less. A change order of more than **\$50,000** over the approved contract amount must be approved by City Council.

21.4.2 The total of all change orders issued under this section may not increase the Original Agreement amount by more than 25%.

21.4.3 For any items described in a change order that the Contractor/Supplier is otherwise required to provide under the Original Agreement, the City shall not pay additional money to the Contractor/Supplier.

22.0 INTERLOCAL AGREEMENTS:

Under the same terms and conditions hereunder, the Contract may be expanded to other government entities through inter-local agreements between the City of Houston and the respective government entity that encompass all or part of the products/services provided under this contract. Separate contracts will be drawn to reflect the needs of each participating entity.