

**CITY OF LINCOLN  
COUNTY OF LANCASTER**

Vince M. Mejer, CPPO, C.P.M.  
Purchasing Agent

(402) 441-7410 Fax: (402) 441-6513

**QUOTATION REQUEST**

Quote Prices F.O.B. Destination  
Lincoln, Nebraska

Date - 2/20/01  
Order No. - 1101 OQ  
Date Due - 03/06/01

QUOTATIONS MUST BE RECEIVED IN  
THE PURCHASING DIVISION OFFICE BY  
THE DUE DATE SPECIFIED ABOVE

PLEASE MAKE NECESSARY VENDOR  
INFORMATION CORRECTIONS ON THIS FORM:

**VENDOR INFORMATION**

\_\_\_\_\_

**Return Quotation Request To:**

Purchasing Division  
K-Street Complex  
440 S 8th St Ste 200  
Lincoln NE 68508  
Schauer, Larry - Quotes

Buyer

Item Number / Description	Quantity	UM	Unit Price	Total Price
7207340 PUMPS, SUMP, SUBMERSIBLE	1	EA		

Supplier shall furnish a duplex non clog submersible sump pump package, including control panel, controls, hatch assembly, and accessories as per the specifications attached

Mfg \_\_\_\_\_ Model \_\_\_\_\_

**VENDOR MUST COMPLETE THE FOLLOWING**

The undersigned represents and warrants that he/she has full and complete authority to submit this quotation and to enter into a contract upon acceptance by the City/County. The undersigned agrees to comply with all conditions above and on reverse side of this document.

COMPANY NAME \_\_\_\_\_ BY (PRINT NAME) \_\_\_\_\_

ADDRESS \_\_\_\_\_ SIGNATURE \_\_\_\_\_

TELEPHONE \_\_\_\_\_ TITLE \_\_\_\_\_

EMPLOYER FEDERAL ID NO. OR DATE \_\_\_\_\_

SOCIAL SECURITY NUMBER \_\_\_\_\_ DELIVERY SCHEDULE \_\_\_\_\_ DAYS ARO

PURCHASING DIVISION  
CITY OF LINCOLN AND LANCASTER COUNTY, NEBRASKA  
INSTRUCTIONS TO BIDDERS

1. **BIDDING PROCEDURE** - A bid by a corporation must be signed in the name of such organization by a duly authorized official thereof. Any person signing a bid for a firm, corporation, or other organization must show evidence of his authority so to bind such firm, corporation, or organization. Most departments of the City of Lincoln and Lancaster County agencies are exempt from federal excise taxes and state and local sales and use taxes. Kindly bid without taxes. The City/County will be responsible for paying any taxes which may be due.
2. **FAIR EMPLOYMENT PRACTICES** - Each bidder agrees that he/she will not discriminate against any employee or applicant for employment because of age, race, color, religion, ancestry, national origin, disability, sex or marital status, and that he will take affirmative action to assure that applicants are employed and that employees are treated during employment without regard to age, race, color religion, ancestry, national origin, disability, sex or marital status.
3. **DATA PRIVACY** - Bidder agrees to abide by all applicable State and Federal laws and regulations concerning the handling and disclosure of private and confidential information concerning individuals and corporations as to inventions, patents and patent rights. The bidder agrees to hold the City/County harmless from any claims resulting from the bidder's unlawful disclosure or use of private or confidential information.
4. **INDEPENDENT PRICE DETERMINATION** - By signing and submitting this bid, the bidder certifies that: The prices in this bid have been arrived at independently, without consultation, communication or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor.
5. **CLARIFICATION OF SPECIFICATION DOCUMENTS** - Bidders shall promptly notify the Purchasing Agent of any ambiguity, inconsistency or error which they may discover upon examination of the specification documents. Interpretations, corrections and changes made to the specification documents will be made by written addenda. Oral interpretations or changes to the Specification Documents made in any other manner, will not be binding on the City/County; and bidders shall not rely upon such interpretations or changes. No addendum will be issued later than forty-eight (48) hours prior to the date and time for receipt of bids, except: An addendum withdrawing or postponing the invitation to bid.
6. **BRAND NAMES** - If and wherever in the material specifications or proposal form brand names, make, manufacturer, trade name, or vendor catalog number is specified, it is for the purpose of establishing a grade or quality of material only; and the term "or equal" is deemed to follow. It is the bidder's responsibility to identify any alternate items offered in the bid, and prove to the City/County that said item is equal to or better than the product specified. If variations are not stated in the proposal, it will be assumed that the item being bid fully complies with the City/County's specifications.
7. **DEMONSTRATION/SAMPLES** - If requested, the bidders shall, at bidder's expense, demonstrate and/or furnish samples of the exact item(s) proposed within seven (7) calendar days from receipt of such request from the City/County.
8. **DELIVERY** - Each bidder shall state on his proposal form the date upon which he can make delivery of all equipment or merchandise. F.O.B. to the City/County at the location specified by the City/County, with all transportation charges paid.
9. **WARRANTIES, GUARANTEES AND MAINTENANCE** - A copy of the manufacturer's warranties and/or guarantees for the items being bid must accompany your proposal. A copy of your company's maintenance policies and costs must also accompany your proposal. Replacement parts of defective components shall be shipped to the City/County at no cost. If defective parts are required to be returned to the bidder, the shipping costs shall be borne by the bidder.
10. **ACCEPTANCE OF MATERIAL** - The finished materials must be new, the latest make or model, of the best quality, unless otherwise specified, and the highest grade workmanship. The material delivered under this proposal shall remain the property of the bidder until a physical inspection and actual usage of this material and/or service is made, and thereafter is accepted by the City/County. The material delivered must be fully in accord with specification documents. In the event the material and/or services supplied to the City/County is found to be defective or does not conform to specification documents, the City/County reserve the right to cancel the order upon written notice to the bidder and return materials to bidder at the bidder's expense. Successful bidder shall be required to furnish title to the material, free and clear of all liens and encumbrances, issued in the name of the City of Lincoln or Lancaster County, Nebraska, as required by the contract documents or purchase orders. Selling dealer's advertising decals, stickers or other signs shall not be affixed to the equipment; vehicle mud flaps shall be installed blank side out with no advertisements. Manufacturer's standard production forings, stampings, nameplates and logos are acceptable.
11. **BID EVALUATION AND AWARD** - The signed bid shall be considered an offer on the part of the bidder. Such offer shall be deemed accepted upon issuance by the City/County of purchase orders, contract award notifications, or other contract documents appropriate to the work. No bid shall be modified or withdrawn for a period of sixty (60) calendar days after the time and date established for receiving bids, and each bidder so agrees in submitting the bid. In case of a discrepancy between the unit prices and their extensions, the unit price shall govern. The City/County reserve the right to accept or reject any or all bids, or part of bids, to waive irregularities and technicalities, and to request rebids on the material described in the specification documents.
12. **TERMS OF PAYMENT** - Unless other specification provisions state otherwise, payment in full will be made by the City/County within thirty (30) calendar days after all labor has been performed and all equipment or other merchandise has been delivered, and all such labor and equipment and other materials have met all contract specifications.
13. **LAWS** - The Laws of the State of Nebraska shall govern the rights, obligations, and remedies of the Parties under this proposal and any agreement reached as a result of this process.

Specifications  
For  
Duplex Non-Clog Submersible Sump Pump Package

1.0 General

- 1.1 Supplier shall furnish a duplex non-clog submersible sump pump package, including control panel, controls, hatch assembly, and accessories as per the requirements and specifications described herein.
- 1.2 The following accessories shall be included and bid as part of the system package.
  - 1.2.1 Control Floats and Stainless Steel Brackets
  - 1.2.2 Stainless Steel Guide Bar Brackets
  - 1.2.3 Two (2) Discharge Elbows 2 Inch
  - 1.2.4 Two (2) HDL Ball Check Valves
  - 1.2.5 Stainless Steel Lifting Chain
  - 1.2.6 A Minimum of 20 Feet of Power Cable
  - 1.2.7 Aluminum Treadplate Cover
- 1.3 Supplier shall verify sump size, configuration of discharge piping, treadplate cover dimensions, and hatch position.

2.0 Operating Requirements and Conditions

- 2.1 Submersible pumps shall be sized by the manufacturer for a flow rate of 80 GPM @ 38 TDH for operation on 460 volts, 3 phase, 60 hertz service.
- 2.2 Supplied pumps and associated valving shall be suitable to pump municipal wastewater consisting of both organic and inorganic waste, such as grit, fibrous material and debris normally associated with municipal wastewater treatment.

3.0 Equipment and Performance Specifications

- 3.1 (See Attached)
- 3.2 Please note any exceptions to these specifications.

4.0 Miscellaneous

4.1 Warranty

4.1.1 Supplier shall warrant the specified equipment from defects in materials and workmanship for a period of (5) five years prorated from receipt of equipment.

4.2 Operation and Maintenance Information

4.2.1 Three (3) sets of O&M manuals specific to the pump model supplied shall accompany delivery of the equipment.

4.2.2 O&M manual information shall consist of general operating instruction, recommended spare parts, recommended maintenance, trouble shooting guides, and exploded part assembly views specific to the pump model supplied.

4.2.3 Supplier shall supply a manufacturers pump performance curve specific to the pump model supplied.

5.0 Delivery Information and Contact

5.1 Contact Mr. Steve Crisler, telephone number 402-441-7966 or Mr. Steve Schmalken, telephone number 402-441-7029 with any technical questions regarding this request.

5.2 Shipping address is as follows:           City of Lincoln  
Northeast Wastewater Treatment Facility  
7000 North 70th Street  
Lincoln, Ne. 68507

# C-3067

## Performance Specifications

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### REQUIREMENTS

Furnish and install \_\_\_ submersible non-clog wastewater pump(s). Each pump shall be equipped with \_\_\_ HP, submersible electric motor connected for operation on volts, \_\_\_ phase, 60 hertz, \_\_\_ wire service, with \_\_\_ feet of submersible cable (SUBCAB) suitable for submersible pump applications. The power cable shall be sized according to NEC and ICEA standards. The pump shall be supplied with a mating cast iron \_\_\_ inch discharge connection and be capable of delivering \_\_\_ GPM at \_\_\_ TDH. An additional point on the same curve shall be \_\_\_ GPM at \_\_\_ feet total head. Shut off head shall be \_\_\_ feet (minimum). Each pump shall be fitted with \_\_\_ feet of lifting chain or stainless steel cable. The working load of the lifting system shall be 50% greater than the pump unit weight.

### ADAPTABILITY:

The C-3067 model pump replaces the previous C-3041 model pump. More important, the new C-3067 model pump shall replace the C-3065 model pumps sold in the early 1970's by using an adaptor. The C-3067 model pump shall use the existing discharge connection, discharge piping, guide bars, sump, access cover and control panel. **INSTALLATION COSTS SHALL BE VIRTUALLY ELIMINATED.**

### PUMP DESIGN

The pump(s) shall be automatically and firmly connected to the discharge connection, guided by no less than two guide bars extending from the top of the station to the discharge connection. There shall be no need for personnel to enter the wet-well.

### PUMP CONSTRUCTION

Major pump components shall be of grey cast iron, ASTM A-48, Class 35B, with smooth surfaces devoid of blow holes or other irregularities. All exposed nuts or bolts shall be AISI type 304 stainless steel construction. All exterior metal surfaces coming into contact with the pumpage, other than stainless steel or brass, shall be protected by a factory applied spray coating of alkyd primer and a synthetic resin enamel finish.

All O-rings shall be of Nitrile Rubber. The lifting handle shall be galvanized steel. Cast iron impellers shall be sprayed with primer.

### COOLING SYSTEM

Motors are sufficiently cooled by the surrounding environment or pumped media. A water cooling jacket is not required.

### CABLE ENTRY SEAL

The cable entry seal design shall preclude specific torque requirements to insure a watertight and submersible seal. The cable entry shall consist of a single cylindrical elastomer grommet, flanked by washers, all having a close tolerance fit against the cable outside diameter and the entry inside diameter and compressed by the body containing a strain relief function, separate from the function of sealing the cable. The assembly shall provide ease of changing the cable when necessary using the same entry seal. **A JUNCTION BOX SHALL BE COMPLETELY SEALED OFF FROM THE PUMPED MEDIA. Epoxies, silicones, or other secondary sealing systems shall not be considered acceptable.**

### MOTOR

The pump motor shall be induction type with a squirrel cage rotor, shell type design, housed in an air filled, watertight chamber, NEMA B type. The stator windings and stator leads shall be insulated with moisture resistant Class F insulation rated for 155°C (311°F). The stator shall be dipped and baked three times in Class F varnish and shall be heat-shrink fitted into the stator housing. The use of bolts, pins or other fastening devices requiring penetration of the stator housing is not acceptable. The motor shall be designed for continuous duty handling pumped media of 40°C (104°F) and capable of up to 15 evenly spaced starts per hour. The rotor bars and short circuit rings shall be made of cast aluminum. Thermal switches set to open at 125°C (260°F) shall be embedded in the stator lead coils to monitor the temperature of each phase winding. These thermal switches shall be used in conjunction with and supplemental to external motor overload protection and shall be connected to the control panel. The motor and pump shall be designed and assembled by the same manufacturer.

The combined service factor (combined effect of voltage, frequency and specific gravity) shall be a minimum of 1.15. The motor shall have a voltage tolerance of plus or minus 10%. The motor shall be designed for operation up to 40°C (104°F) ambient and with a temperature rise not to exceed 80°C. A performance chart shall be provided showing curves for torque, current, power factor, input/output kW and efficiency. This chart shall also include data on starting and no-load characteristics.

The power cable shall be sized according to the NEC and ICEA standards and shall be of sufficient length to reach the junction box without the need of any splices. The outer jacket of the cable shall be oil resistant chloroprene rubber. The motor and cable shall be capable of continuous



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# C-3067

## Performance Specifications

submergence underwater without loss of watertight integrity to a depth of 65 feet.

The motor horsepower shall be adequate so that the pump is non-overloading throughout the entire pump performance curve from shut-off through run-out.

### BEARINGS

The pump shaft shall rotate on two single row ball bearings. Motor bearings shall be permanently grease lubricated.

### MECHANICAL SEAL

Each pump shall be provided with a tandem mechanical shaft seal system consisting of two totally independent seal assemblies. The seals shall operate in an lubricant reservoir that hydrodynamically lubricates the lapped seal faces at a constant rate. The lower, primary seal shall be **ceramic/ceramic** standard with **tungsten-carbide/tungsten-carbide** as an option. The upper seal shall be **ceramic/carbon**. The seals shall require neither maintenance nor adjustment nor **DEPEND ON DIRECTION OF ROTATION FOR SEALING**.

**Seal lubricant shall be FDA Approved, non-toxic.**

### PUMP SHAFT

Pump and motor shaft shall be the same unit. The pump shaft is an extension of the motor shaft. Couplings shall not be acceptable.

The shaft shall rotate on two permanently lubricated ball bearings. The shaft shall be of ASTM 420 stainless steel.

### IMPELLER

Impellers available for this pump model shall be either single vaned, totally enclosed or multi vaned, vortex type.

### WEAR RINGS

A wear ring system shall be used to provide efficient sealing between the volute and suction inlet for totally enclosed impellers. Each pump shall be furnished with a leaded red brass ring insert that is drive fitted to the volute inlet.

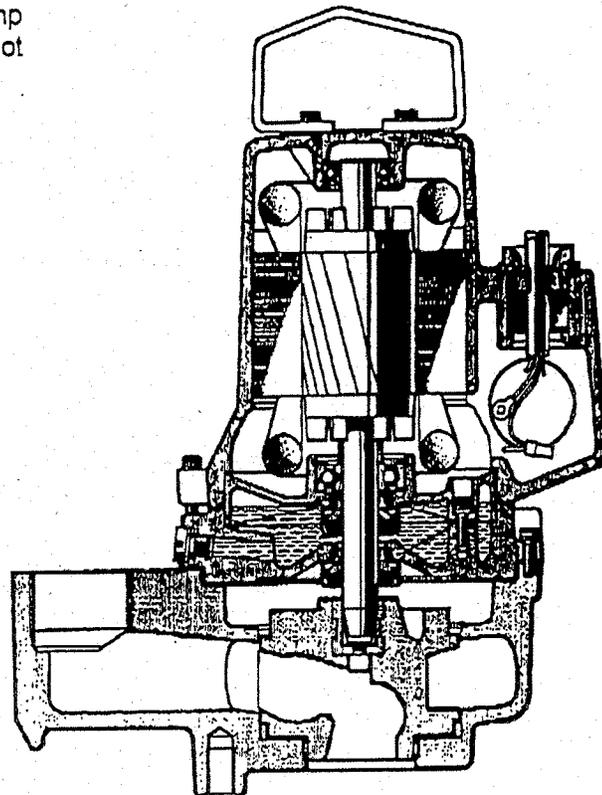
### VOLUTE

Pump volute(s) shall be single-piece grey cast iron, Class 35B, non-concentric design with smooth passages large enough to pass any solids that may enter the impeller. Minimum inlet and discharge size shall be as specified.

### MODIFICATIONS

1. Explosion-proof Pumps (X).
2. Warm Liquid Applications (WL).

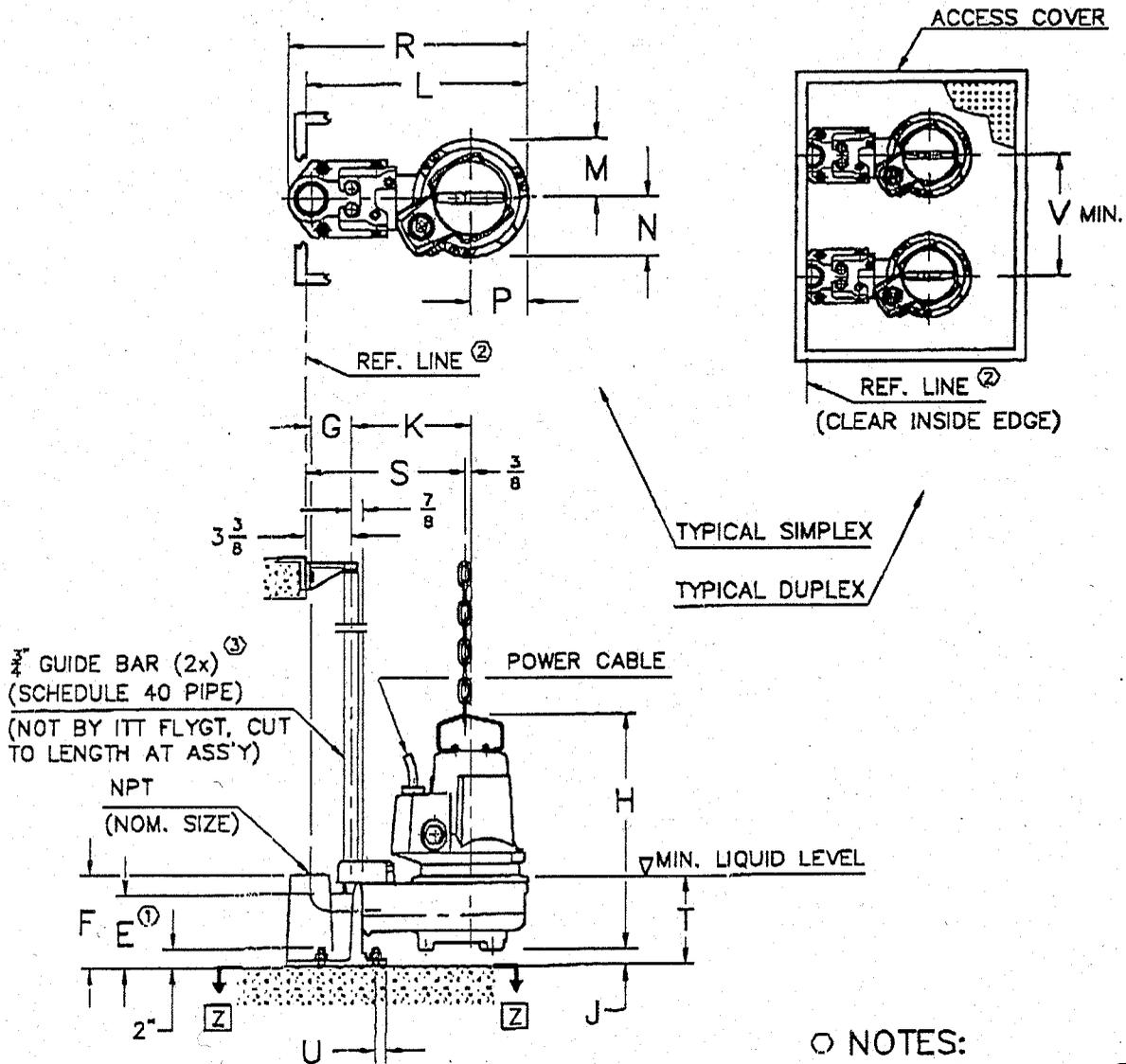
Refer to the General Guide Specifications for additional information.



# CP-3067

## Outline Dimensions

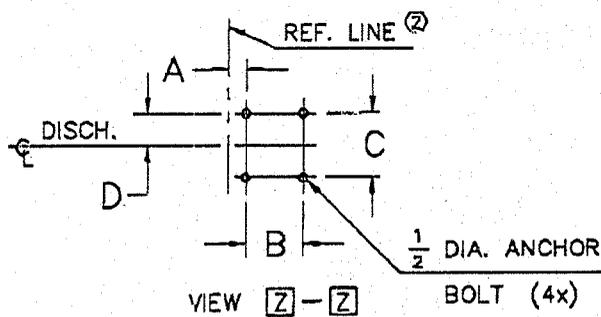
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$\frac{3}{4}$ " GUIDE BAR (2x) <sup>(3)</sup>  
(SCHEDULE 40 PIPE)  
(NOT BY ITT FLYGT, CUT TO LENGTH AT ASS'Y)

TYPICAL SIMPLEX  
TYPICAL DUPLEX

- NOTES:
1. DIM. TO ENDS OF GUIDE BARS.
  2. REPRESENTS CLEAR INSIDE EDGE OF ACCESS FRAME OR OPENING.
  3. SEE STATION DWGS. FOR COMPLETE INSTALLATION DIMENSIONS.
- SIMPLEX 14 68 00 72  
DUPLEX 14 68 00 74



NOM. SIZE	VERSION	WEIGHT (LBS)	
		PUMP	DISCH
2"	HT	90	20

ALL DIMENSIONS IN INCHES

NOM. SIZE	VERSION	DIMENSIONAL CHART																		
		A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V
2"	HT	1 1/2	4	4 1/2	2 1/2	5 1/2	6 1/2	3	17 1/2	1	8 3/4	16 1/2	4 1/2	4 1/2	4 1/2	17 1/2	11 1/2	6	3	15

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### C-3067 265 Impeller

CP/CF	
VANES	PHASE
1	3

