



## INVITATION FOR SEALED BID

**BID 02-715**

**Description: Trailer Mounted Sewer Cleaner**

**Department: Public Works**

**NIGP Commodity Code(s): 670-61-00-000-0**

**Total pages including this page is 18**

**Note: FAXING OF BID WILL NOT BE ACCEPTED**

**Important Instruction – Read Carefully:**

If you have obtained these bid specifications from either of:  
City of Tulsa's Fax-on-Demand (918-596-1171) or  
City of Tulsa's Website : [www.cityoftulsapurchasing.org](http://www.cityoftulsapurchasing.org)

you must notify the buyer **Patricia Cummings** of your intent to bid by e-mail at [pcummings@ci.tulsa.ok.us](mailto:pcummings@ci.tulsa.ok.us) in order to receive addenda. The buyer will always acknowledge your e-mail for your records. All addenda will be posted on fax-on-demand and the website.

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**Pay special attention to those pages with a reference to the following notes:**

**Note #1: Signature of authorized agent required**

**Note #2: Signature of an authorized agent and notarized required**

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**Your bid response should follow the same format listed above plus any additional format requested in the body of the bid invitation.**

**INVITATION FOR SEALED BIDS  
TO  
City of Tulsa**

200 CIVIC CENTER, ROOM 109, TULSA, OKLAHOMA 74103

Bid number and date of bid opening must appear on the lower  
left outside corner of bid envelopes and all related containers.

**DATE OF OPENING: October 31, 2002**

**BID NUMBER: BID 02-715**

**BID MUST BE IN THE CITY CLERK'S OFFICE AT THE ABOVE ADDRESS BY 5:00 P.M. THE DAY  
PRECEDING THE "DATE OF OPENING" SHOWN ABOVE.**

**BIDS WILL BE OPENED AT 8:30 A.M. IN THE CITY COUNCIL ROOM ON THE DAY SPECIFIED UNDER "DATE OF OPENING."**

PUBLISHED IN THE TULSA DAILY COMMERCE AND LEGAL NEWS: October 17, 2002

Bid must be accompanied by bidder's bond, cashier's check or certified check in the amount of: \_\_\_\_\_

PLEASE READ TERMS AND CONDITIONS ON THE NEXT PAGE BEFORE COMPLETING BID DOCUMENTS

\*\*\*\*\*

**THE FOLLOWING SECTION MUST BE COMPLETED BY BIDDER**

\*\*\*\*\*

Delivery will be made in not more than \_\_\_\_\_ days after receipt of order.

Payment terms \_\_\_\_\_% \_\_\_\_\_ days.

City of Tulsa may increase quantity of order at the unit price bid for \_\_\_\_\_ days. (Bidder to Specify Days)  
I have examined the terms and specifications and the instructions to bidders herein and agree, provided I am awarded a contract, to provide the above described items for the sum shown in accordance with the terms and specifications stated herein. All deviations are in writing and attached hereto.

Enclosed is a [  ] BID BOND ; [  ] CASHIER'S CHECK; [  ] Certified Check in the amount of \$ \_\_\_\_\_, which I agree the City of Tulsa may retain as liquidated damages in the event of my failure to comply with the terms of this bid.

**MUST BE SIGNED BY AUTHORIZED AGENT TO BE VALID**

FIRM NAME \_\_\_\_\_ by \_\_\_\_\_

SIGNATURE OF AUTHORIZED AGENT

STREET \_\_\_\_\_ TITLE \_\_\_\_\_

CITY STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_ PHONE NUMBER \_\_\_\_\_ DATE \_\_\_\_\_

## GENERAL TERMS AND CONDITIONS OF SEALED BIDS

THESE ITEMS APPLY TO AND BECOME A PART OF THE BID.

**NO EXCEPTIONS TO THESE TERMS & CONDITIONS WILL BE CONSIDERED.**

1. **BIDS MUST BE SUBMITTED ON THIS FORM ONLY INCLUDING A SIGNATURE OF AN AUTHORIZED AGENT.** Each bid shall be placed in a separate envelope. Be sure envelope is completely and properly identified and sealed, showing the bid number and date in the lower left hand corner. Bids must be time stamped in the office of the City Clerk by 5:00 P.M. on the day before date of opening.
2. No bidder may withdraw his proposal for a period of thirty (30) days after the date and hour set for the opening of bids.
3. All prices shall be quoted F.O.B. Tulsa, Oklahoma, and delivery to City of Tulsa location shall be without additional charge.
4. The bidder shall attach the manufacturer's name of the equipment or material to be furnished, type, model numbers, manufacturer's descriptive bulletins and specifications. All guarantees and warranties should be clearly stated. This data shall be in sufficient detail to describe accurately the equipment or material to be furnished. Manufacturer's specifications, in respect to the successful bidder, shall be considered as part of his contract with the City of Tulsa.
5. The bidder shall show in the proposal both the unit prices and total amount, where required, of each item listed. In the event of error or discrepancy in the mathematics, the unit prices shall prevail.
6. Any exceptions or deviations from written specifications shall be shown in writing and attached to the bid form.
7. Each bidder agrees to comply with the terms of Title 5, Chapter 1, of Tulsa, Oklahoma Charter and revised ordinances relating to equal employment opportunity.
8. **THE ENCLOSED FORMS REGARDING NON-COLLUSION AND FINANCIAL INTEREST MUST BE SIGNED, NOTARIZED, AND RETURNED WITH THE BID.**
9. The City of Tulsa reserves the right to reject any and all bids, to waive any technicalities in the bidding, and to award each item to different bidders or all items to a single bidder.
10. All bids must be accompanied by bidders bond, cash, certified or cashier's check in the amount shown on the face of the bid form. This amount shall be retained by the City of Tulsa as liquidated damages in the event the successful bidder (or bidders) fails to execute a contract, if required. The bidder agrees that said amount is presumed to be the damages sustained by the City due to the impracticability and extreme difficulty in fixing the actual damages. The office of the City Clerk will return the bid deposits to the unsuccessful bidders, after a contract has been awarded or all bids have been rejected.
11. In the event cash discounts are offered by the bidder, the discount date shall begin with the date of invoice, the date of receipt of all material covered by the purchase order, or the date of receipt by the City of Tulsa of the original copy of the purchase order with properly executed Affidavit of Claimant, whichever is the later date.
12. Direct purchase of certain items of equipment or material by the City of Tulsa are exempt from Federal Excise Tax and Oklahoma Sales Tax. In such cases the bidder shall quote prices which do not include Federal Excise Tax and Oklahoma Sales Tax. The City of Tulsa will furnish executed exemption certificates upon presentation by the bidder at the time of purchase.
13. Bid must show number of days required for delivery under normal conditions. Failure to state delivery time obligates bidder to complete delivery in fourteen (14) calendar days. Unrealistically short or long delivery promises may cause bid to be disregarded. Contractor must keep Purchasing Department advised at all times of status of order. Default in promised delivery or failure to meet specifications authorizes the Purchasing Agent to purchase supplies elsewhere and charge full increase of cost and handling to defaulting contractor. Consistent failure to meet delivery promises without valid reason may cause removal from bid list.
14. Bidder agrees to defend and save City of Tulsa from and against all demands, claims, suits, costs, expenses, damages and judgments based upon infringement of any patent relating to goods specified in this order or the ordinary use or operation of such goods by City or use or operation of such goods in accordance with bidders direction.
15. If the bid requires a written contract, the successful bidder shall execute a written contract with the City of Tulsa and return the required bonds and insurance certificates within ten (10) days after submission of contracts to said bidder by the City.

**INTEREST AFFIDAVIT**

STATE OF \_\_\_\_\_ }  
  } ss  
COUNTY OF \_\_\_\_\_ }

\_\_\_\_\_, of lawful age, being first duly sworn, states that s(he) is the agent authorized by the bidder to submit the attached bid. Affiant further states that no officer or employee of the City of Tulsa either directly or indirectly, owns a twenty-five percent (25%) interest in the bidder's business or such a percentage which constitutes a controlling interest. Affiant further states that the following officers and/or employees of the City of Tulsa have some direct or indirect interest in the bidder's business:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

By \_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Title)

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_

NOTARY PUBLIC SIGNATURE

My Commission Expires:  
\_\_\_\_\_

**The Interest Affidavit must be completed, signed by an authorized agent, and notarized.**

# BIDDER AFFIDAVIT - TITLE 74 O.S. (1974 SUPP.) 85.22-85.25

STATE OF \_\_\_\_\_ COUNTY OF \_\_\_\_\_

\_\_\_\_\_, of lawful age, being first duly sworn on oath says  
**Authorized Agent**

1. (s)he is the duly authorized agent of \_\_\_\_\_, the bidder submitting the competitive bid which is attached to this statement, for the purpose of certifying the facts pertaining to the existence of collusion among bidders and between bidders and municipal officials or employees, as well as facts pertaining to the giving or offering of things of value to government personnel in return for special consideration in the letting of any contract pursuant to the bid to which this statement is attached.
2. (s)he is fully aware of the facts and circumstances surrounding the making of the bid to which this statement is attached and has been personally and directly involved in the proceedings leading to the submission of such bid; and
3. neither the bidder nor anyone subject to the bidder's direction or control has been a party;
  - a. to any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding,
  - b. to any collusion with any municipal official or employee as to quantity, quality or price in the prospective contract, or as to any other terms of such prospective contract, nor
  - c. in any discussions between bidders and any municipal official concerning exchange of money or other thing of value for special consideration in the letting of a contract.

\_\_\_\_\_  
SIGNATURE OF AUTHORIZED AGENT

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
MY COMMISSION EXPIRES

**The Bidder Affidavit must be completed, signed by an authorized agent, and notarized.**

# CONTRACTOR/BIDDER INFORMATION SHEET

To be completed by all Bidders  
For Contracts with the City of Tulsa  
(Please print or type)

Project No. or Description \_\_\_\_\_  
\_\_\_\_\_

Full Name of Bidder \_\_\_\_\_

Legal Identity  
(Corporation, Partnership,  
Individual, etc.) \_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_

Telephone No. \_\_\_\_\_

FAX No. \_\_\_\_\_

Taxpayer Identification Number \_\_\_\_\_

Contact Person \_\_\_\_\_

Phone No. \_\_\_\_\_

Fax No. \_\_\_\_\_

E-mail address \_\_\_\_\_

Webpage Address \_\_\_\_\_

# Price Sheet Summary

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Vendor Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

**You will be able to obtain a copy of the Bid Summary on the City of Tulsa's Purchase-Net Fax-on-Demand and Website shortly after bid opening.**

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## **BID 02-715 Trailer Mounted Sewer Cleaner Public Works Department**

One (1) Trailer Mounted Sewer Cleaner with Equipment and Attachments as listed in specifications on pages 13-16.

*See Pages 13-18 for complete list of technical specifications*

**TOTAL BID, INCLUDING ALL ACCESSORIES:**

**\$ \_\_\_\_\_**

Manufacturer: \_\_\_\_\_ Model \_\_\_\_\_

*Attach any descriptive literature available on this product*

**BID 02-715**  
**Trailer Mounted Sewer Cleaner**  
**PUBLIC WORKS DEPARTMENT**

**INTENT:**

THE INTENT OF THESE SPECIFICATIONS IS TO SECURE, ON A COMPETITIVE BASIS, A SOURCE TO SUPPLY A **TRAILER MOUNTED SEWER CLEANER** FOR THE CITY OF TULSA'S SOUTHSIDE WASTEWATER TREATMENT PLANT.

**PRICING:**

PRICES BID SHALL BE FIRM AND INCLUDE ANY APPLICABLE FREIGHT CHARGES.

**BIDDER'S AFFIDAVIT:**

EACH BIDDER SHALL ACCOMPANY THEIR BID WITH A FULLY EXECUTED AND NOTARIZED COPY OF THE ATTACHED **NON-COLLUSION AFFIDAVIT** AND THE **INTEREST AFFIDAVIT**. FAILURE TO DO SO MAY BE CAUSE FOR REJECTION OF THE BID.

**METHODS OF SAMPLING, INSPECTIONS & TESTS:**

1. AFTER BID RESULTS ARE TABULATED, THE CITY OF TULSA PURCHASING DIVISION RESERVES THE RIGHT TO REQUIRE SAMPLES OF SELECTED EQUIPMENT AND/OR PRODUCTS FOR INSPECTION AND EVALUATION.
2. UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR PURCHASE ORDER, THE SUPPLIER SHALL BE RESPONSIBLE FOR THE PERFORMANCE OF ALL INSPECTION AND TEST REQUIREMENTS NECESSARY TO INSURE COMPLIANCE WITH REQUIREMENTS FOR THIS SPECIFICATION. THIS DOES NOT PRECLUDE SUBSEQUENT INSPECTION AND TESTIMONY BY THE CITY OF TULSA TO FURTHER DETERMINE CONFORMANCE WITH SPECIFICATION REQUIREMENTS OF QUALITY STANDARDS OF WORKMANSHIP, MATERIAL AND CONSTRUCTION TECHNIQUES.

**ADDENDA AND INTERPRETATIONS:**

IF IT BECOMES NECESSARY TO REVISE ANY PART OF THIS BID, A WRITTEN ADDENDUM WILL BE PROVIDED TO ALL THE BIDDERS. THE CITY OF TULSA IS NOT BOUND BY ANY ORAL REPRESENTATION, CLARIFICATIONS OR CHANGES MADE IN THE WRITTEN SPECIFICATIONS BY CITY OF TULSA EMPLOYEES UNLESS SUCH CLARIFICATION OR CHANGE IS PROVIDED TO BIDDERS IN WRITTEN ADDENDUM FORM FROM THE PURCHASING DIVISION.

**ALTERING BIDS:**

BIDS CANNOT BE ALTERED OR AMENDED AFTER SUBMISSION DEADLINE. ANY INTERLINEATION, ALTERATION, OR ERASURE MADE BEFORE OPENING TIME AND DATE MUST BE INITIALED BY THE SIGNER OF THE BID, GUARANTEEING AUTHENTICITY. BIDS MUST BE SUBMITTED IN INK OR TYPEWRITTEN, PENCILING WILL NOT BE ACCEPTED.

**TESTS:**

THE CITY RESERVES THE RIGHT TO SUBJECT ALL PRODUCTS OFFERED, PRIOR TO AWARD OF BID, TO WHATEVER PHYSICAL AND OR CHEMICAL TESTS ARE DEEMED NECESSARY TO SATISFY THE PURPOSE FOR WHICH THEY ARE REQUIRED. IF ADDITIONAL SAMPLES ARE REQUIRED TO COMPLETE SUCH TESTS, THEY SHALL BE SUPPLIED BY THE BIDDER AT NO ADDITIONAL COST.

**DESCRIPTIVE LITERATURE:**

EACH BIDDER IS REQUIRED TO FURNISH WITH THEIR BID, CATALOG CUTS AND/OR DESCRIPTIVE LITERATURE, PROPERLY LABELED WITH THE BID NUMBER AND BIDDER'S NAME, WITH FULL ILLUSTRATIONS AND DETAILED SPECIFICATIONS FOR EACH ITEM OFFERED AS EQUAL TO THE BRAND NAME SPECIFIED. IN ADDITION, **ALL DIFFERENCES IN SPECIFICATIONS FROM THE SPECIFICATIONS STATED HEREIN MUST BE SO MARKED.** DESCRIPTIVE LITERATURE IS REQUIRED TO ESTABLISH, FOR THE PURPOSE OF BID EVALUATION AND AWARD, DETAILS OF THE PRODUCT(S) THE BIDDER PROPOSES TO FURNISH AS TO DESIGN, MATERIALS, METHOD OF MANUFACTURE, CONSTRUCTION, ASSEMBLY OR OPERATION, AS APPROPRIATE. **FAILURE TO SUBMIT THE DESCRIPTIVE LITERATURE MAY BE CAUSE FOR REJECTION OF YOUR BID.**

**AMERICANS WITH DISABILITIES ACT:**

THE CONTRACTOR SHALL TAKE THE NECESSARY ACTIONS TO ENSURE ITS FACILITIES AND EQUIPMENT ARE IN COMPLIANCE WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT. IT IS UNDERSTOOD THAT THE PROGRAM OF THE CONTRACTOR IS NOT A PROGRAM OR ACTIVITY OF THE CITY OF TULSA. THE CONTRACTOR AGREES THAT ITS PROGRAM OR ACTIVITY WILL COMPLY WITH THE REQUIREMENTS OF THE ADA. ANY COSTS OF SUCH COMPLIANCE WILL BE THE RESPONSIBILITY OF CONTRACTOR. UNDER NO CIRCUMSTANCES WILL CONTRACTOR CONDUCT ANY ACTIVITY WHICH IT DEEMS TO NOT BE IN COMPLIANCE WITH THE ADA.

**AWARD OF BID:**

**THIS BID SHALL BE AWARDED TO THE VENDOR WHO MEETS THE CITY'S MINIMUM SPECIFICATIONS AND OFFERS THE LOWEST TOTAL COST TO THE CITY OF TULSA.** FURTHER, THE BID SHALL BE AWARDED TO THE FIRM WHOSE PROPOSAL IS RESPONSIVE TO THE BID AND IS MOST ADVANTAGEOUS TO THE CITY, CONSIDERING THE FACTORS IDENTIFIED IN THE BID AND SECTION 406E OF TITLE 6, THE PURCHASING ORDINANCE SET FORTH BELOW:

E. AWARD OF CONTRACT.

1. AUTHORITY OF MAYOR. THE MAYOR SHALL HAVE THE AUTHORITY TO AWARD CONTRACTS WITHIN THE PURVIEW OF THIS CHAPTER.

2. LOWEST SECURE BIDDER. CONTRACTS SHALL BE AWARDED TO THE LOWEST SECURE BIDDER MEETING SPECIFICATIONS. IN DETERMINING "LOWEST SECURE BIDDER", IN ADDITION TO PRICE, THE FOLLOWING FACTORS SHALL BE CONSIDERED:

A. THE ABILITY, CAPACITY AND SKILL OF THE BIDDER TO PERFORM THE CONTRACT OR PROVIDE THE SERVICE REQUIRED;

B. WHETHER THE BIDDER CAN PERFORM THE CONTRACT OR PROVIDE THE SERVICE PROMPTLY OR WITHIN THE TIME SPECIFIED, WITHOUT DELAY OR INTERFERENCE;

C. THE CHARACTER, INTEGRITY, REPUTATION, JUDGMENT, EXPERIENCE AND EFFICIENCY OF THE BIDDER;

D. THE QUALITY OF PERFORMANCE OF PREVIOUS CONTRACTS OR SERVICES;

E. THE PREVIOUS AND EXISTING COMPLIANCE BY THE BIDDER WITH LAWS AND ORDINANCES RELATING TO THE CONTRACT OR SERVICE;

F. THE SUFFICIENCY OF THE FINANCIAL RESOURCES AND ABILITY OF THE BIDDER TO PERFORM THE CONTRACT OR PROVIDE THE SERVICE;

G. THE QUALITY, AVAILABILITY AND ADAPTABILITY OF THE SUPPLIES OR CONTRACTUAL SERVICES TO THE PARTICULAR USE REQUIRED;

H. THE ABILITY OF THE BIDDER TO PROVIDE FUTURE MAINTENANCE AND SERVICE FOR THE USE OF THE SUBJECT OF THE CONTRACT, AND;

I. WHERE AN EARLIER DELIVERY DATE WOULD BE OF GREAT BENEFIT TO THE REQUISITIONING AGENCY, THE DATE AND TERMS OF DELIVERY MAY BE CONSIDERED IN THE BID AWARD, AND;

J. THE NUMBER AND SCOPE OF CONDITIONS ATTACHED TO THE BID.

K. IF A POINT SYSTEM HAS BEEN UTILIZED IN THE BID SPECIFICATIONS, THE NUMBER OF POINTS EARNED BY THE BIDDER.

**BID DOCUMENTS:**

BIDDER SHALL RETURN ALL BID DOCUMENTS INTACT EXACTLY AS FURNISHED IN ITS ORIGINAL FORM. ALL BID DOCUMENTS REQUIRING SIGNATURE MUST BE SIGNED BY AN AUTHORIZED AGENT OF THE COMPANY BIDDING. PRINTING YOUR NAME IN LIEU OF SIGNATURE WILL NOT BE ALLOWED. **VENDOR MUST RETURN ORIGINAL BID DOCUMENT AS SPECIFIED, CLEARLY MARKED "ORIGINAL" ALONG WITH TWO (2) COPIES. FAILURE TO COMPLY MAY RESULT IN REJECTION OF YOUR BID.**

**LIENS:**

THE VENDOR(S) AGREE(S) TO INDEMNIFY AND HOLD THE CITY HARMLESS FROM ALL CLAIMS, DEMANDS, CAUSES OF ACTION OR SUITS OF WHATEVER NATURE ARISING OUT OF THE SERVICES, LABOR AND MATERIALS FURNISHED BY THE VENDOR(S) OR ITS SUBCONTRACTORS UNDER THE SCOPE OF THIS PROPOSAL AND FROM ALL LABORERS', MATERIALMENS' AND MECHANICS' LIENS UPON THE REAL PROPERTY UPON WHICH THE WORK IS LOCATED OR ANY PROPERTY OF THE CITY OF TULSA.

**QUIET ENJOYMENT:**

VENDOR(S) WARRANT(S) AND REPRESENT(S) THAT THE EQUIPMENT AND SOFTWARE ARE THE SOLE AND EXCLUSIVE PROPERTY OF VENDOR(S) AND ARE NOT SUBJECT TO ANY LIEN, CLAIM OR ENCUMBRANCE INCONSISTENT WITH ANY OF THE CITY'S RIGHTS UNDER THIS AGREEMENT. ALSO, THAT THE CITY IS ENTITLED TO, AND SHALL BE ABLE TO ENJOY QUIET POSSESSION AND USE OF THE EQUIPMENT AND SOFTWARE WITHOUT INTERRUPTION BY VENDOR(S) OR ANY PERSON'S CLAIM UNDER OR THROUGH VENDOR(S) OR BY RIGHT OF PARAMOUNT TITLE.

# TECHNICAL SPECIFICATIONS

Bidder shall complete every space in Section 2 (bidder's proposal column). The bidder shall give a complete description of item being bid, such as sizes, capacities, dimensions, etc.

Section 1

Section 2

Item

Specifications (minimum)

Bidder's Proposal

**A. GENERAL:** **It is the intent of these specifications to describe the minimum requirements for a new, current model year high pressure water jet designed for the removal of sand, dirt, grease, detergents, and other materials normally found in storm, drain, and sanitary pipes. The machine described will be designed to deliver high performance capabilities and provide maximum operator safety and convenience. All parts not specifically mentioned which are required for a complete unit shall conform in design, strength, quality of material, and workmanship to the highest standards of engineering practice.**

B. WATER TANK: Shall be minimum 300-gallon capacity.

The tank shall be constructed of 3/8 inch polyethylene.

Polyethylene material shall be U.V. stabilized for protection against damaging ultraviolet rays.

Tank system to be baffled to minimize water movement.

The tank will be vented and have a tank top porthole to permit inspection and cleaning of the tank.

FILL SYSTEM: An overhead type tank filling assembly with a 2-1/2 inch fire hydrant fitting shall be located on the curbside.

A positive air gap anti-siphon system shall be incorporated to protect the potable water system.

A in-line strainer will also be supplied to filter water supply.

Section 1

Section 2

Item

Specifications (minimum)

Bidder's Proposal

FILL SYSTEM:  
(Continued)

A water level sight gauge shall be provided and the machine will have a quick dumping valve so that the system may be drained by gravity.

\_\_\_\_\_

The fill pipe shall be made of 2 inch galvanized metal or high pressure PVC.

\_\_\_\_\_

WATER PUMP:

Pump shall be positive displacement, heavy duty, single acting triplex type having a capacity of at least 15 GPM at 4000 PSI.

\_\_\_\_\_

The high pressure pump and hose will be protected from freezing with an air purge valve.

\_\_\_\_\_

The water pump shall be equipped with drain valves for protection during freezing conditions.

\_\_\_\_\_

A repairable full flow regulator shall be capable of bypassing 15GPM at 4000 PSI.

\_\_\_\_\_

SAFETY HOSE REEL AND CONTROLS:

The hose reel will be designed to withstand maximum working pressure without distortion.

\_\_\_\_\_

Capacity of hose reel shall be a minimum of 750 feet of ½ inch high pressure sewer hose.

\_\_\_\_\_

Reel flanges shall be designed to prevent hose damage from contact during all normal working conditions.

\_\_\_\_\_

The reel shall be driven with hydraulic power in both directions, either with or without the water pump in operation. The hydraulic drive shall have sufficient power to retract the hose when fully extended with the cleaning nozzle



Section 1

Section 2

Item

Specifications (minimum)

Bidder's Proposal

PIPING:

All piping systems subjected to high pressure shall be fabricated of extra strong, class 80 pipe with forged steel fittings.

\_\_\_\_\_

A strainer with 40 mesh screen shall be installed in the suction line at a location accessible for cleaning.

\_\_\_\_\_

All piping shall be installed to drain by gravity through suitable openings equipped with plugs, drain cocks, or ball valves.

\_\_\_\_\_

Water delivery to hose reel shall pass through a 90-degree swivel rotary coupling.

\_\_\_\_\_

ENGINE:

The engine shall be a 4-cylinder, 70 horsepower, gasoline powered, water cooled with industrial type governor, air cleaner and muffler.

\_\_\_\_\_

The required engine accessories shall be furnished, including, but not limited to:

- 12 volt ignition system with alternator and battery.
- starter with key lock starting switch.
- replaceable spin-on type oil filter.
- positive crankcase ventilation system.
- amp meter
- oil pressure gauge
- water temperature gauge
- tachometer
- hour meter
- Murphy switches

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

The engine shall be equipped with an over-center type clutch power take-off to permit operating the engine and hose reel without operating the water pump.

\_\_\_\_\_

Section 1

Section 2

Item

Specifications (minimum)

Bidder's Proposal

ENGINE:  
(Continued)

Power band belt, from engine sheave to pump sheave, is adjustable by movement of water pump.

\_\_\_\_\_

The engine fuel tank will have a capacity of 15 gallons.

\_\_\_\_\_

STEEL SHROUD  
AND ACCESS  
DOORS:

The shroud design of the trailer jet shall allow for ease of maintenance.

\_\_\_\_\_

The water pump and engine will be fully enclosed.

\_\_\_\_\_

The shroud shall be constructed of 14 gauge steel.

\_\_\_\_\_

The shroud shall include full hinged access doors which are locking and keyed alike. These doors allow for protection of interior components from weather and vandalism.

\_\_\_\_\_

TRAILER:

The frame shall be heavy gauge steel.

\_\_\_\_\_

The unit will be equipped with a spring style axle, 6,000 LB capacity.

\_\_\_\_\_

The unit will be equipped with 8-ply tires.

\_\_\_\_\_

Trailer unit will be equipped with heavy-duty fenders, pintle hitch (eye), and electric brakes with breakaway switch.

\_\_\_\_\_

The unit will be equipped with complete ICC light group, reflectors, and license plate holder.

\_\_\_\_\_

The unit shall have safety chains, per City standard 000085, installed in event of hitch failure.

\_\_\_\_\_

A lockable toolbox shall be mounted to the trailer frame.

\_\_\_\_\_

Section 1

Section 2

Item	Specifications (minimum)	Bidder's Proposal
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PAINTING:	Paint to be manufacturer's standard.	_____
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ACCESSORIES:	Accessories to be included with machine:	
	<ul style="list-style-type: none"> <li>• 25 feet fill hose</li> </ul>	_____
	<ul style="list-style-type: none"> <li>• finned style nozzle extension</li> </ul>	_____
	<ul style="list-style-type: none"> <li>• 1/2 inch penetrating nozzle</li> </ul>	_____
	<ul style="list-style-type: none"> <li>• 1/2 inch flushing nozzle</li> </ul>	_____
	<ul style="list-style-type: none"> <li>• hose guide</li> </ul>	_____
	<ul style="list-style-type: none"> <li>• wash down gun w/ 150 feet of 3/8 inch hose in 25 feet lengths. Hose shall have quick connect couplers.</li> </ul>	_____
	<ul style="list-style-type: none"> <li>• 2 copies of all manuals</li> </ul>	_____

TRAINING:	Vendor will provide four hours of training at buyer's site upon delivery of the equipment.	_____
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**THE BIDDER SHALL DELIVER EQUIPMENT FULLY ASSEMBLED AND OPERATIONAL WITH ALL FLUIDS SUCH AS OIL, ANTI-FREEZE, FUEL AND ESSENTIALS SUCH AS BATTERIES, FENDERS, AND WHEELS, INSTALLED UPON DELIVERY. NO CRATED OR NON-OPERATIONAL EQUIPMENT REQUIRING ASSEMBLY OR ADJUSTMENTS OF ANY KIND SHALL BE ACCEPTED. BIDDER WILL BE REQUIRED TO OPERATE THE EQUIPMENT AND DEMONSTRATE ALL FEATURES AND OPERATIONAL MODES TO CITY OF TULSA PERSONNEL. BIDDERS SHALL SUPPLY ADDRESSES AND TELEPHONE NUMBERS OF THE LOCAL QUALIFIED DEALER THAT WILL PERFORM WARRANTY AND SERVICE. THOSE DEALERS SHALL BE CONTACTED FOR VERIFICATION PRIOR TO AWARDING THE BID. FAILURE TO COMPLY WILL AFFECT THE AWARD OF BID.**