

**CITY OF LIVERMORE**  
**REQUEST FOR BID #4071**  
**FOR: ONE (1) TRUCK MOUNTED JETTER RODDER**  
**GENERAL TERMS & CONDITION**

1. Notice is hereby given that the City of Livermore, Alameda County, California, will receive sealed bids for; **ONE (1) TRUCK MOUNTED JETTER RODDER.**
2. Each bid shall be in accordance with specifications on file in the office of the Purchasing Specialist, City of Livermore, 1052 S. Livermore Ave., Livermore, California 94550, where a copy may be obtained at no charge.
3. **Each Bid shall be sealed and filed with the said Purchasing Specialist at 1052 South Livermore Avenue, Livermore, CA 94550 prior to 3:00 PM, FRIDAY, FEBRUARY 20<sup>TH</sup>, 2009. It is the bidder's responsibility to ensure that bids are received prior to the 3:00 P.M. bid closing time. LATE BIDS WILL NOT BE ACCEPTED!**
4. Each bid must be accompanied by a **complete copy** of these specifications. All blanks in specifications must be filled in or bid will be considered unresponsive. **Please submit a total three (3) sets – one (1) signed original and two (2) copies.**
5. All prices must be typed or written in ink. **Bids written in pencil will not be accepted.** Mistakes may be crossed out and corrections inserted adjacent, but the correction must be initialed in ink by the person signing the bid.
6. Any claim of error by a bidder must be made before the time of the Bid opening, otherwise it shall be deemed waived.
7. The City reserves the right to reject any and all bids on any basis deemed in the best interest of the City. Any changes, omissions, or variations in specifications or conditions of bid may be considered cause of rejection.
8. No bidder may withdraw his or her bid for a period of sixty (60) days after the date set for the opening thereof.
9. The bidder, by submitting their bid, agrees to save, defend, keep, bear harmless, and fully indemnify the said City and any of its officers, officials, agents, employees, or volunteers from all damages, claims for damages, costs, or expenses, whether in law or in equity, that may at any time arise or be set up for an infringement of the patent rights, copyrights, or trade-marks of any person or persons in consequence of the use by said City, or by any of its officers, officials, agents, employees, or volunteers or articles to be supplied under this bid.

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10. **This Bid will be awarded to the contractor whose Bid represents the Best Value to the City of Livermore. Pursuant to Municipal Code Section 2.68.360 (A) (5), the determination of which proposal represents the Best Value shall be based upon but not limited to, the following considerations:**
- a. Cost;**
  - b. The ability, capacity, and skill of the contractor to perform the contract or provide the services or equipment required;**
  - c. The ability of the contractor to provide the services or equipment promptly or within the time specified without delay or interference;**
  - d. The character, integrity, reputation, judgment experience, and efficiency of the contractor;**
  - e. The quality of the contractor's performance on previous contracts with the City.**

**Upon receipt of all bids and determination of the bid which represent the Best Value, the City will enter into negotiations, if required, with the selected bidder regarding the final contract terms and condition, per the Livermore Municipal Code Section 2.68.370.**

11. The unit furnished shall be new and unused and a current production model.
12. The models must comply with the SAE standards and meet all OSHA, State of California and Federal Industrial Safety Orders, and regulations in effect on the date of this invitation for bid.
13. Delivery shall be made to the City of Livermore Fleet Maintenance Division, 3500 Robertson Park Road, Livermore, California, to the attention of Mike Arnerich at 925-960-8031, Tuesday - Friday between the hours of 7AM and 3PM.
14. The City of Livermore will furnish exemption certificates for all federal taxes, if required. California State, Alameda County, and City of Livermore taxes are applicable and shall be shown separately.
15. Before submitting bid, bidders must read the Specifications and complete all required documents.
16. Any questions regarding bidding procedures may be directed to the Purchasing Specialist, Leslie Young at (925) 960-4343. Any questions regarding the scope of the bid may be directed to Mike Arnerich, Public Works Supervisor – Fleet at (925) 960-8031.
17. Bidder's attention is directed to the following Insurance Requirements. It is highly recommended that bidders confer with their respective insurance carriers or brokers to determine in advance of proposal submission the availability of insurance certificated and endorsements as prescribed and provided herein. If an apparent Best Value bidder fails to comply strictly with the insurance requirements, that bidder may be disqualified from award of the bid and or contract.

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**INSURANCE REQUIREMENTS**  
**FOR: ONE (1) TRUCK MOUNTED JETTER RODDER**

1. HOLD HARMLESS AND INDEMNIFICATION

The Contractor shall defend, save, keep, and hold harmless the City, its officers, officials, agents, employees, and volunteers for all damages, costs, or expenses in law or equity that may at any time arise or be set up because of damages to property or personal injury received by reason of or in the course of performing work which may be occasioned by any willful or negligent act or omissions of the Contractor, any of the Contractor's employees, or any subcontractor. The City will not be held liable for any accident, loss, or damage to the work prior to its completion and acceptance.

Approval of the insurance contracts does not relieve the Contractor or subcontractors from liability under this hold harmless and indemnification clause.

2. INSURANCE REQUIREMENTS

Contractor shall procure and maintain for the duration of the contract insurance against claims for injuries to persons or damages to property, which may arise from or in connection with the performance of the work hereunder by the Contractor, his agents, representatives, employees, or subcontractors. The cost of such insurance shall be included in the Contractor's bid.

A. Minimum Scope of Insurance

Coverage shall be at least as broad as:

1. Insurance Services Office form number GL 0002 (Ed. 1/73) covering Comprehensive General Liability and Insurance Services Office form number GL 0404 covering Broad Form Comprehensive General Liability; or Insurance Services Office Commercial General Liability coverage ("occurrence" form CG 0001).
2. Insurance Services Office form number CA 0001 (Ed. 1/78) covering Automobile Liability, code 1 "any auto" and endorsement CA 0025.
3. Workers' Compensation insurance as required by the Labor Code of the State of California and Employers Liability insurance.
4. Fidelity insurance to protect against faithful performance forgery, theft, disappearance or destruction inside and outside coverage.

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B. Minimum Limits of Insurance

Contractor shall maintain limits no less than:

1. General Liability: \$1,000,000 combined single limits per occurrence for bodily injury, personal injury, and property damage. If Commercial General Liability Insurance or other form with a general aggregate limit is used, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit.
2. Automobile Liability: \$1,000,000 combined single limit per accident for bodily injury and property damage.
3. Workers' Compensation and Employers Liability: Workers' Compensation limits as required by the Labor Code of the State of California and Employers Liability limits of \$1,000,000 per accident.
4. Fidelity Insurance: \$50,000 per loss.

C. Deductibles and Self-Insured Retentions

Any deductibles or self-insured retentions must be declared to and approved by the City. At the option of the City, either: the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the City, its officers, officials, agents, employees, and volunteers; or the Contractor shall procure a bond guaranteeing payment of losses and related investigations, claim administration, and defense expenses.

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D. Other Insurance Provisions

The policies are to contain, or be endorsed to contain, the following provisions:

1. General Liability and Automobile Liability Coverages.
  - a. The City, its officers, officials, agents, employees, and volunteers are to be covered as additional insured as respects: liability arising out of activities performed by or on behalf of the Contractor, products and completed operations of the Contractor, premises owned, occupied or used by the Contractor, or automobiles owned, leased, hired, or borrowed by the Contractor. The coverage shall contain no special limitations on the scope of protection afforded to the City, its officers, officials, agents, employees, or volunteers.
  - b. The Contractor's insurance coverage shall be primary insurance as respects the City, its officers, officials, agents, employees, and volunteers. Any insurance or self-insurance maintained by the City, its officers, officials, agents, employees, and volunteers shall be in excess of the Contractor's insurance and shall not contribute with it.
  - c. Any failure to comply with reporting provision of the policies shall not affect coverage provided to the City, its officers, officials, agents, employees, or volunteers.
  - d. The Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.
2. Workers' Compensation and Employers Liability Coverage

The insurer shall agree to waive all rights of subrogation against the City, its officers, officials, agents, employees, and volunteers for losses arising from work performed by the Contractor for the City.

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3. All Coverage

Each insurance policy required by this clause shall be endorsed to state that coverage shall not be suspended, voided, canceled by either party, reduced in coverage or in limits except after thirty (30) days' prior written notice by certified mail, return receipt requested, has been given to the City.

E. Acceptability of Insurers

Insurance is to be placed with insurers with an A.M Best's rating of not less than A:VII.

F. Verification of Coverage

Contractor shall furnish the City with certificates of insurance and with original endorsements effecting coverage required by this clause. The certificates and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf.

All certificates and endorsements are to be received and approved by the City before work commences. The City reserves the right to require complete, certified copies of all required insurance policies, at any time.

G. Subcontractors

Contractor shall include all subcontractors as insured under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverage for subcontractors shall be primary insurance as respects the City, its officers, officials, agents, employees, and volunteers. Any insurance or self-insurance maintained by the City, its officers, officials, agents, employees, and volunteers shall be in excess of the Contractor's insurance and shall not contribute with it.

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**BIDDER SHALL COMPLETE BY CHECKING THE FOLLOWING.**  
**IF NOT COMPLIANT, STATE SPECIFICALLY ITEM BEING OFFERED.**

Bids are requested for one (1), 1000 gallon high pressure sewer jetter with vacuum systems and TV inspection system, mounted on a truck chassis with a 31,000 GVW. The sewer cleaner shall be manufactured in a way that will utilize a water pump and vacuum system driven by the Chassis transmission PTO's. The machine is equipped with a self contained, non-corrosive, non-metallic water tank supply as the water source for the high-pressure pump. The machine is capable of being operated by one man, with all operating controls for high-pressure, hose reel, located at the rear of the machine for operator safety and noise reduction. This machine is to be capable of cleaning, root cutting simultaneously with the TV system operating. The truck shall meet all current requirements of Federal Motor Vehicle Safety Standards and as well as current California State requirements for this type of vehicle, in all respects.

**Bidder complies: Yes**\_\_\_ **No**\_\_\_\_\_

**INTENT:**

It is the intent of this specification to describe the essential minimum requirements for the construction and performance of the vehicle and associated equipment. Unit(s) shall comply with current federal, state, ICC and DOT regulations, standards, and laws relating to commercial vehicles as well as to associated equipment installed or supplied. In addition all components and systems supplied shall comply with all related published standards.

**Bidder complies: Yes**\_\_\_ **No**\_\_\_\_\_

The vehicle shall be supplied with all equipment and accessories indicated as standard equipment in the manufacturer's published literature even if not listed in this specification.

**Bidder complies: Yes**\_\_\_ **No**\_\_\_\_\_

**TESTS:**

A performance test shall be performed at the vendor's location before shipment to ensure compliance with this specification as well as standards related to installed components and their published performance standards. This test shall be performed with Livermore representatives present on their final inspection visit.

**Bidder complies: Yes**\_\_\_ **No**\_\_\_\_\_

In the event the vehicle fails to meet the test requirements on the first trials, second trials may be made at the option of the bidder within 30 days of the date of the first trials.

**Bidder complies: Yes**\_\_\_ **No**\_\_\_\_\_

Such trials shall be final and conclusive. Failure to comply with these requirements a second time shall be cause for rejection.

**Bidder complies: Yes**\_\_\_ **No**\_\_\_\_\_

Permission to keep or store the vehicle in any building owned or occupied by the purchaser during the above period, with the permission of the bidder, shall not constitute acceptance. Insurance covering loss, theft, or liability shall remain the responsibility of the bidder until formal acceptance is completed.

**Bidder complies: Yes**\_\_\_ **No**\_\_\_\_\_

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**ACCEPTANCE:**

Acceptance of the delivered vehicle and equipment will be made at the completion of all required tests and the receipt of all specified equipment. Equipment items not delivered at the time of the tests or construction not in conformance with the contractor's proposal will be cause for the accepting authority to withhold payment for entire vehicle.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

A test equal to the performance test conducted at the vendor's site will be performed within 15 working days after vehicle has been delivered to the City of Livermore.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

Any **equivalent** item or variation in construction, performance, test, or items of equipment between this (purchasers specification and bidder's proposal) shall be detailed and submitted on a separate sheet (s) along with the bidder's proposal in bid sequence, citing page and paragraph number.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

A complete set of contractor's specifications and drawings showing the front, rear, left, right, top view, overall length and all dimensions of the proposed vehicle, must be submitted with the bid for the purpose of comparison.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

The City's specification shall, in all cases, govern the construction of the vehicle, however, if the City's specification does not meet or exceed current FMVSS, then the later shall apply.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**FAILURE TO LIST EXCEPTIONS:**

Failure to list any exception means the bidder is not complying with the specification. Vehicle will be inspected on delivery for compliance with specifications. Deviations will not be tolerated and will be cause for rejection of the vehicle unless there were change orders executed by the Purchasing Assistant or Fleet Supervisor. Liquidated damages in the amount of \$100.00 per calendar day shall be deducted from the final payment until the vehicle is considered acceptable.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

The word "day", as stated in the purchase order, means calendar day including weekends and holidays. Time is of the essence. Should the delivery not be completed on or before the time stipulated, it is mutually agreed and understood by the successful bidder and the City of Livermore that delay would seriously effect the public and the operation of the City of Livermore that a reduction in the unit price of one hundred dollars (\$100) per calendar day per unit. Therefore, the City of Livermore and the successful bidder hereby establish said reduction in the unit price of one hundred dollars (\$100) per calendar day for each and every day of delay of the unit as liquidated damages and not as a penalty or forfeiture for the breach of agreement to complete delivery by the successful bidder on or before the time specified in the purchase order.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

Should the successful bidder be obstructed or delayed in the work required to be done by changes in the work or by any default, act or omission of the City, by strikes, fire, act of God, or by the inability to obtain materials, equipment, or labor due to Federal Government restrictions arising out of the defense or war program, then the successful bidder shall notify the City, in writing, the estimated period of delay.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

Satisfactory delivery means that the vehicle arrives at the place designated by the City and all work has been done to correct deficiencies from specifications or mechanical difficulties.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

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**PROTOTYPE VEHICLE:**

No prototype or experimental vehicle will be accepted. The successful builder must demonstrate that they have produced a minimum of six (6) vehicles of similar design in the last 3 years. These vehicles must be in-service at the time of bid opening. Exception to this requirement will be cause for immediate rejection.

**Bidder complies: Yes** \_\_\_\_\_ **No** \_\_\_\_\_

**FACTORY AUTHORIZED SERVICE FACILITY:**

The bidder must maintain within 150 miles of the City of Livermore, California, a factory authorized service center. This service center shall be trained to perform warranty repairs, service and maintenance of vehicle, including power train, chassis and controls.

**Bidder complies: Yes** \_\_\_\_\_ **No** \_\_\_\_\_

**DELIVERY TERMS:**

The vehicle(s) shall be delivered by the bidder under its own power within 180 calendar days from the date the purchase order is issued with all equipment specified, to the City of Livermore, 3500 Robertson Park Road, Livermore, California.

**Bidder complies: Yes** \_\_\_\_\_ **No** \_\_\_\_\_

Bidder must submit a firm delivery time (number of calendar days from the date of the order to date of delivery) of said vehicle with the bid. Quoting number of days after receipt of all components is unacceptable. A deduction of \$100.00 per day will be made for each day over and above the quoted delivery date. The penalty also will apply if the unit(s) is delivered and rejected, until the unit(s) is returned meeting specification.

**Bidder complies: Yes** \_\_\_\_\_ **No** \_\_\_\_\_

**PREDELIVERY SERVICE:**

After transportation from the factory and immediately prior to delivery, the vehicle shall receive a pre-delivery service. Service shall consist of an engine oil change, fuel filter, air filter, hydraulic filters, if applicable, chassis lubrication, adjustment of the engine to the manufacturer's specifications, and a complete inspection. This shall include all electrical and mechanical devices for proper operation and correction of leaks or obvious problems.

**Bidder complies: Yes** \_\_\_\_\_ **No** \_\_\_\_\_

**FACTORY INSPECTION TRIPS:**

The manufacturer and/or vendor of the unit shall provide, at no cost to the City of Livermore or its representative, two (2) trips to the final stage manufacturer's plant for two (2) representatives of the City. During these trips, the manufacturer and/or vendor shall pay all expenses for transportation, meals and lodging for the City's representatives. The manufacturer and/or vendor shall be responsible for making all travel arrangements and lodging accommodations with approval of the Fleet Supervisor as to dates and times. The intent of these trips is to secure a mutual agreement between the manufacturer and the City of Livermore as to the exact design and detail of the unit being built per the City's specifications.

**Bidder complies: Yes** \_\_\_\_\_ **No** \_\_\_\_\_

The meeting shall be the pre-construction conference at the City of Livermore within 30 days after receipt of purchase order. The City's representatives and the manufacturer's staff will review, in detail, the final assembly plans and specifications for the unit to be built for the City. This trip shall occur just prior to the beginning of production of the City's unit. The second trip will be at the manufacturing facility the inspection of plumbing, wiring, and pre-paint of the entire vehicle. The third trip will be at the manufacturing facility for final inspection of the completed unit prior to delivery.

**Bidder complies: Yes** \_\_\_\_\_ **No** \_\_\_\_\_

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**SPECIAL REQUIREMENTS:**

The overall size and weight of the finished vehicle are critical to the City of Livermore. All compartment sizes, overall length, height, wheel base, turning radius, angle of approach and departure, individual axle loads, and fully loaded weight of the vehicle will be included with the proposed bid.

**Bidder complies: Yes** \_\_\_\_\_ **No** \_\_\_\_\_

Weight distribution shall not load the vehicle in such a manner as to exceed any individual axle rating, spring or spring hanger rating, or tire and wheel rating. Axles are to carry weight distribution as per SAE axle loading.

**Bidder complies: Yes** \_\_\_\_\_ **No** \_\_\_\_\_

Certified weight readings are to be furnished with vehicle as to front and rear loading.

**Bidder complies: Yes** \_\_\_\_\_ **No** \_\_\_\_\_

**APPROVAL DRAWINGS:**

Drawings for approval and blueprints with all details must be furnished within 30 days of the pre-construction conference. The engineering drawing must be drawn to scale and representative of the bid unit after the pre-construction conference clarifications are incorporated. Views of both sides as well as front, back, top, overall length, height, angle of approach/departure, compartment dimensions and wheelbase. Generic drawings are unacceptable. Drawing requirements apply to trailer if included in bid,

**Bidder complies: Yes** \_\_\_\_\_ **No** \_\_\_\_\_

The City of Livermore will make every effort to correct the approval drawings before it is returned. However, if a variation or omission between the approval drawings and the written specification is discovered, the written specification shall prevail.

**Bidder complies: Yes** \_\_\_\_\_ **No** \_\_\_\_\_

**TRAINING:**

Within 15 days after delivery, a factory representative shall be present to familiarize those members designated by the Fleet Supervisor of the City of Livermore with the basic operation of the vehicle and its components.

**Bidder complies: Yes** \_\_\_\_\_ **No** \_\_\_\_\_

A structured eight-hour program covering proper operation and maintenance shall be presented at no cost to the City of Livermore at a location determined by the City of Livermore. In addition to the training, the vendor shall place the unit into service having a qualified operator assist for one 40 hour week in actual work, ensuring the unit(s) function properly and Livermore staff are fully versed in the proper operation and maintenance of the unit. The dates and times shall be continuous at the discretion of the City of Livermore.

**Bidder complies: Yes** \_\_\_\_\_ **No** \_\_\_\_\_

The bidder agrees to provide the method of operation and maintenance instructions (power point) on two (2) CD's. Contents shall be based on daily operating use and maintenance. In addition, all material shall be approved by the City Livermore.

**Bidder complies: Yes** \_\_\_\_\_ **No** \_\_\_\_\_

**GENERAL WARRANTY STATEMENT:**

The contractor guarantees that all articles of equipment, including all parts, comply in all respects or are fully equal to standards called for in bid.

**Bidder complies: Yes** \_\_\_\_\_ **No** \_\_\_\_\_

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**VEHICLE WARRANTY:**

The bidder shall warrant the vehicle and effective materials and workmanship for a period of no less than ONE YEAR from the date of acceptance. The bidder's warranty shall conform to those specified here and accompany the bid proposal.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

This specification shall prevail in any variation between the manufacturer's offered warranty and those required in the specifications, unless an exception has been granted.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

The successful bidder also agrees to assist the City of Livermore in the coordination of warranty claims of the major components, such as engine, transmission, fan, pump, tank, body, etc.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**COMPONENT WARRANTY:**

Tires, batteries, and electrical devices subject to deterioration from normal wear and tear shall be covered by their respective manufacturer's warranty or guarantee.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

Any costs involved, including but not limited to labor for removal or installation, parts components, travel and shipping fees, during the warranty period will be the sole responsibility of the bidder.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

The vehicle dealer and/or manufacturer will assist the purchaser in processing warranty claims through the various component manufacturers.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**ENGINE WARRANTY:**

Chassis and Auxiliary (if applicable) diesel engines shall be covered by the manufacturer's five-year warranty, parts and labor.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**TRANSMISSION WARRANTY:**

Automatic transmission shall be covered by the manufacturer's five-year warranty, parts and labor.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**PUMP WARRANTY:**

Water pump shall be covered by the manufacturer's two-year warranty, parts and labor.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**START OF WARRANTY PERIOD:**

All warranties on parts and equipment used to construct the vehicle to make it whole must start on the day the vehicle is put into service by the City of Livermore. No equipment will be used to construct a vehicle for the City of Livermore where the manufacturer of such parts does not agree to this condition.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

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**WARRANTY RESPONSE:**

The vendor/manufacture shall respond to warranty failures within one (1) business day of notification from agency. Vendor shall respond on site or transport vehicle to their service center at no cost to the City within three (3) business days of initial notification. Repairs must be completed within five (5) business days of notification. Repairs exceeding ten (10) business days may require vendor to supply fully functional loaner unit of similar size and design at no cost to the City of Livermore until warranty failure is corrected. The City will not be charged for transportation, parts, parts shipping, travel, or labor cost during the warranty period.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**WARRANTY REIMBURSEMENT:**

The vendor/manufacture may have the opportunity for the City of Livermore to perform minor warranty repairs (parts and labor reimbursement) in an effort to minimize vehicle downtime. Any warranty repairs performed by the City of Livermore in which Livermore request reimbursement shall be pre-approved by manufacture or its vendor representative prior to performing the repair. The vendor shall provide a warranty authorization number prior to repair(s). The Labor rate shall be based on the manufacture's local service provider's hourly labor rate. Reimbursement claim shall be submitted in writing to vendor within thirty (30) days of repair. Reimbursement payment shall be issued to the City of Livermore within thirty (30) days of receipt of claim. An agreement shall be reached as to the acceptable billable repair time by both parties prior to repair. If an agreement cannot be reached in a timely manner then it is the responsibility of the vendor to correct warranty failures as outlined above.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**PARTS AVAILABILITY:**

It is the vendor's responsibility to have adequate parts inventory to ensure reasonable repair times can be achieved during the warranty period and throughout the ten (10) year service life of the vehicle. Parts for minor repairs shall be shipped within two (2) business days of notification. Parts for all other repairs shall ship within ten (10) business days. If vendor cannot supply parts within fifteen (15) business days then vendor to supply fully functional loaner unit of similar size and design at no cost to the City of Livermore until all correct parts are received.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**EXTENSIONS TO OTHER AGENCIES:**

The prices, terms and conditions of this specification may be extended to other governmental agencies at mutual agreement of both agencies and contractor. All requirements of specifications, purchase orders, invoices and payments with other agencies would be direct with successful bidder. The City of Livermore does not warrant any additional use of the contract by such agencies.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

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**BODY:**

The main bed frame rails shall be constructed from 3/16" custom rolled steel into 10" rails. The front and rear bed end caps shall be 10" and constructed from 3/16 custom rolled steel. The bed shall be bolted to the chassis frame utilizing shear plates. U-bolt systems will not be accepted.

The bed frame supports shall consist of following:

All cross members shall be constructed of 3/16" steel and custom rolled to 6" Qty (6) on each side of frame total 12.

The bed dimensions shall not exceed 144" in length and 98" in width.

All steel decking material shall be 3/16" diamond tread plate steel for operator safety.

**Bidder complies: Yes\_\_\_\_\_ No\_\_\_\_\_**

**TANK:**

The capacity of the tank shall be at least 1000 gallons

Construction shall be black high density polyethylene with ultraviolet inhibitors to prevent undue brittleness when exposed to sunlight and shall be of round design for additional strength. White or clear tanks will not be acceptable due to algae growth from sunlight. Tank shall have sight gauge visible from operator's station. The sight gauge shall be connected to the tank on the top and the bottom of the gauge. Open-ended gauges are not acceptable. Low water alarm to be located at the operator's station

The tank shall be mounted over the rear axle for optimum load distribution.

The tank shall have a minimum five (5) year standard manufacturer's warranty.

A 2 1/2" overhead type tank filling assembly shall be located on the curbside. A positive air gap anti-siphon system shall be incorporated to protect the portable water supply. A 25' x 2 1/2" curb side filler hose with fittings and carrying rack will be included. An open area approximately 24" L x 18" W on the deck next to the hose carrying rack shall be available to mount a water meter.

The tank shall be vented and fitted with a suitable removable port to permit inspection and access into the tank.

The system shall incorporate a suction line and a slope bottom tank to permit utilizing the entire bottom portion of the tank and settling chamber for heavy materials and to eliminate the possibility of these materials reaching the pump. Note:

A final strainer shall be provided in the main water pump feed line. The strainer cap shall be removable by hand. Strainers requiring tools to remove the cap are unacceptable.

The tank shall be mounted in such a manner as to prohibit torsional racking of the frame from transmitting through the tank.

**CITY OF LIVERMORE**  
**REQUEST FOR BID #4071**  
**FOR: ONE (1) TRUCK MOUNTED JETTER RODDER**  
**SPECIFICATIONS**

**TANK CON'T.**

The tie down pipes shall be painted. Nylon tie down straps will not be accepted.

The tank shall have a minimum 2 ½" ball valve for isolating the filter strainer. Gate valves are not acceptable.

The tank shall have an additional 2" minimum ball valve for draining of tank. Gate valves are not acceptable.

Baffle balls to be included in tank.

The fill system shall be equipped with Hydrant filter strainer.

All kanaflex type hose for water fill or vacuum shall be black. *Clear Kanaflex type hose is not acceptable*

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**PUMP:**

The pump shall be Triplex positive displacement, heavy duty, single acting, and triple plunger type. It shall be installed to operate at 50 GPM @ 3000 PSI

The pump shall be powered via the Allison Transmission PTO

The water pump to carry a (2) year manufactures' warranty

The plungers shall be ceramic material.

The valves shall be stacked, pressed in valves will not be accepted.

To prevent friction loss, the water pressure line from water pump to the hose reel shall have no swivels or elbows.

Wash down system to be equipped to Include:

- Hand Gun to operate 500 to 800 psi maximum
- 50 ft hose with Hand Gun equipped with quick connects.
- 10 ft hose with Hand Gun equipped with quick connects.(Rear)

Pump system shall include air purge system that shall allow air purging through the entire water system.

Pump system shall include multi-flow feature at control panel, feature to allow pressure changes with use of needle valve.

Pump system shall include (3) pet cocks for draining the fluid end of pump in winter conditions.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**CITY OF LIVERMORE**  
**REQUEST FOR BID #4071**  
**FOR: ONE (1) TRUCK MOUNTED JETTER RODDER**  
**SPECIFICATIONS**

**DUAL HOSE REEL ASSEMBLY:**

The unit shall be equipped with a jet hose reel having a capacity of 800' of 3/4" hose and a second reel with 800' of 3/4 x 1/2 video/jet hose capacity.

The hose reels shall be constructed of a minimum of 3/8" steel to withstand maximum working pressure without distortion.

The hose reels shall be driven by hydraulic power in both directions. The hydraulic drive shall have sufficient power to retract the hose when fully extended into the sewer with the cleaning nozzle in operation.

Dual hose guides shall be provided to permit proper alignment of the hose on the reel. The guide shall be pinned in place when not in use.

The hose reels articulation shall not require any hose swivels to assist in the movement of the reel. Units requiring additional swivels will not be acceptable. State how many swivels are utilized between main water pump and hose reel water valve

The reels shall be so constructed that there are no elbows or fittings inside the drum to hinder winding and to cause maintenance problems. The hose shall enter the reel through the side flange to permit ease in winding and to minimize the possibility of damage to the hose.

The reels shall be so constructed that there are no elbows or fittings inside the drum to hinder winding and to cause maintenance problems. The hose shall enter the reel through the side flange to permit ease in winding and to minimize the possibility of damage to the hose.

The hose reels shall articulate simultaneously 90 degrees to each side of center. The reel shall articulate on a heavy-duty bearing. The articulating bearing shall have standard manufacturers five year warranty

A 3-way ball valve shall be supplied for alternating water pressure between hose reels.

The hose reel swivels shall be non-greas able

For operator's safety and ease of operation, the hose reel shall be infinitely lockable throughout its travel. Units with reset locking pins will not be accepted.

The reel shall lock in position utilizing a hydraulic self-adjusting lock system. An on/off switch shall be supplied at the operator's station.

The jet hose reel shall be positioned on the left side and the tv/jet/tv hose reel shall be positioned on the right side.

**Bidder complies: Yes\_\_\_\_\_ No\_\_\_\_\_**

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**SPECIFICATIONS**

**HOSE REEL DRIVE SYSTEM:**

The hydraulic power for driving the hose reel shall consist of a hydraulic pump gear direct driven by the engine, a direction and a speed control valve with a built in overload relief and hydraulic hose rated to withstand the maximum system pressure.

The hydraulic pump shall have a minimum capacity of at least 8 GPM @ 2500 RPM.

The steel oil reservoir tank shall have a minimum capacity of at least 6 gallons.

The hydraulic oil filter shall be the spin-on, in-line type.

**Bidder complies: Yes\_\_\_\_\_ No\_\_\_\_\_**

**CONTROL PANEL:**

All gauges, switches, levers, necessary for the operation of the unit, shall be grouped on a control panel at operator station, so the operator may have complete control of the cleaning operation while standing at one location.

The following instruments and controls shall be included in the control panel:

- Water pump/ Hydraulics ignition switch/ With Electric throttle
- Electric Throttle
- Multi Flow Valve
- Oil filled water pressure gauge.
- Lever for controlling the speed and direction of the hose reel when moved from a central position.
- Flow control valve for further control of reel speed for safety of operator.
- Single lever water control valve shall regulate direction of water to hose reels or back to tank utilizing a high pressure valve assembly.
- 12 volt power outlet.
- Single lever for alternating hydraulic control between both hose reels.
- The control panel shall move with the hose reels when it is articulated for safety and ease of operation.
- Safety Lanyard: A safety lanyard shall be utilized when the main water pump is in use. The Lanyard shall attach to the operator and cause the water pump engine to shutdown if the operator leaves the operators station.
- Digital footage counter for TV reel.

- A low water warning light shall be added to control panel.
- (1) one control panel light to be mounted on control panel
- (2) two work lights to be mounted to lower control panel

**Bidder complies: Yes\_\_\_\_\_ No\_\_\_\_\_**

## **TV SYSTEM**

### **TV-JET HOSE:**

The jet hose shall be twin hose design for safety and ease of maintenance.

The hoses shall be bonded together for strength and ease of use.

The TV coax shall be Kevlar reinforced.

The TV cable shall be removable from the video hose for repair or maintenance or replacement.

The jet hose shall incorporate a strain relief system with the jet nozzle

The jet nozzle and strain relief system shall be stainless steel.

600 feet of ¾ x ½ video jet hose shall be installed on the unit and ready for use.

The jet hose system shall utilize a stainless steel nozzle assembly. The nozzle shall utilize ceramic tips and be spaced to provide clearance for the video hose.

The TV jet hose shall be set up with 10' leader hoses (Kevlar) on the water hose.

The video cable shall be removable from jet hose for inspection, repair or replacement.

The hoses shall be ½" x ¾, paired together to allow full flow and pressure for 3000 PSI @ 50 GPM.

**Bidder complies: Yes\_\_\_\_\_ No\_\_\_\_\_**

### **RECORDER SYSTEM:**

The recorder, 7" LCD screen shall be mounted in a weather tight case for safety and security.

The case shall be removable from the camera/video viewer.

The case shall incorporate bulkhead connectors for easy install and removal.

(2) remotes control system shall be provided. The remote system shall allow the operator to record, playback, and burn at the operator's station.

**Bidder complies: Yes\_\_\_\_\_ No\_\_\_\_\_**

### **CAMERA SKATE:**

The camera skates (carrier) shall be as follows:

- (2) each 6"-8" camera carrier made of aluminum and machined from a solid aluminum billet. Carrier utilizing welding for manufacturing will not be accepted

Each skate shall have eight (8) replaceable wheels

- The camera skate shall allow the use of 35mm wheels through 80mm wheels.

- 8" -12" camera carrier made of aluminum
  - Six (6) replaceable wheels
  - The camera skate shall allow the use of 35mm wheels through 80mm wheels.

The camera skate shall incorporate a stainless steel camera carrier for housing the camera and protection while in operation.

**Bidder complies: Yes\_\_\_\_\_ No\_\_\_\_\_**

**CAMERA/TV SYSTEM:**

One (1) camera shall be provided.

The camera system shall be designed for all inspection needs.

The camera system shall operate from 12 VDC system.

The camera system shall have built-in connectors for VCR and other video options.

Stainless steel camera housing.

Built-in solid state 4 LED light source, sealed for life.

Slip ring signal collector assembly, pre-wired for camera and tractor transporter.

The camera shall be enclosed in a high strength, specially machined non-corrosive (Type 304) stainless steel housing. Pot metal or plastic composites that are soft and can be worn by concrete, tile, and cast iron pipe are not acceptable.

The front of the housing shall have a replaceable view port of impact resistant, distortion-free optical glass.

The television camera circuitry shall be 100% solid state.

The television camera shall meet the following electrical specifications:

- Input Voltage of 12V DC.
- Horizontal sweep rate of 525 lines per frame (NTSC Standard)
- Scanning interlace of 2:1
- Image sensor of 1/3" Interline Transfer DDC
- Minimum Luminance of 1 Lux
- Resolution of 512(H) x 492(V) TV Lines

For maximum versatility, the camera shall be usable with either a truck-mounted multi-conductor mainline sewer inspection system or a portable television inspection system.

For ease of field troubleshooting, power to the camera assembly shall be supplied through a multi-conductor TV cable.

The light intensity shall be automatically set

Camera shall be self-righting

**Bidder complies: Yes\_\_\_\_\_ No\_\_\_\_\_**

**COLOR MONITOR MODULE:**

The monitor shall have a 7" LCD screen operating on standard NTSC color.

Digital on screen footage with key board and editing ability.

**Bidder complies: Yes\_\_\_\_\_ No\_\_\_\_\_**

**VIDEO RECORDING:**

Shall be flash drive a 8 gig 4 hrs of recording

(2) each remote control unit shall be supplied with the following functions: record, fast forward, pause, frame advance, slow motion, search stop, and rewind buttons.

A custom carrying case to store recorder and cables when not in use shall be provided.

**Bidder complies: Yes\_\_\_\_\_ No\_\_\_\_\_**

**CABLE CONNECTOR:**

TV cable shall be multi-conductor.

The cable shall have a nylon jacket to provide lubricity and protection from abrasion.

The cable shall be terminated on the reel with a slip ring signal collector assembly.

This assembly shall be maintenance-free and provided continuous video signal as cable is drawn off or returned.

The slip ring housing shall contain a connector for joining to the power control unit.

The connector housing shall permit the camera to be rotated to any position and then set in the desired position by manually screwing the camera on the spring.

The connector shall be designed to take the full cable load tension and continue to power the camera and return video signal when the camera is being pushed and manipulated in the sewer pipeline.

A single interconnect cable shall be provided to transfer all power from camera control unit to TV reel and video signal from camera to control unit.

The cable end connector shall be specifically designed to transfer the cable rigidity and strength to the camera.

**Bidder complies: Yes\_\_\_\_\_ No\_\_\_\_\_**

**SPARE PARTS KIT:**

A spare parts kit shall be provided, including the following:

- (1) Volt Meter
- (1) Silicon 736, 3 oz. Tube, 500D
- (1) Roll of black tape
- (1) Solder gun
- (1) DVD CD
- (2) Spare pig tail
- (4) Screws, 2-56x3/16 PH SS FL

- (2) O-ring set for camera
- (1) Silicon, 1oz.
- (5) Spare bolts and nuts for camera carrier wheels

**Bidder complies: Yes\_\_\_\_\_ No\_\_\_\_\_**

**MANUALS:**

A complete operating manual shall be provided. CD's are acceptable.

**Bidder complies: Yes\_\_\_\_\_ No\_\_\_\_\_**

**WARRANTY:**

Unit shall be warranted against manufacturing defects for not less than twelve (12) months from date of delivery.

**Bidder complies: Yes\_\_\_\_\_ No\_\_\_\_\_**

**COLOR CAMERA:**

Electrical Specifications

Mechanical Specifications

- Operating Temperature: -10 Degrees C to +50 Degrees C
- Vibration: 7G (11 Hz to 200 Hz)
- Shock: 70G

Lens Specifications

- Lens View Angle: 115-Degree Diagonal
- Lens Iris: Fixed
- Lens Focus Range: Adjustable External Twist Focus, ½” to Infinity

Housing Specifications

- Dimensions: 1.5” in diameter x 3.0” long
- Material: Stainless Steel, Type 304
- Seals: “O” Rings, Viton

**Bidder complies: Yes\_\_\_\_\_ No\_\_\_\_\_**

**CAMERA/VIDEO VIEWER:**

The camera system shall incorporate a video viewer. The viewer shall provide sun protection for viewing the LCD screen and the viewer shall have the following features:

- All aluminum construction
- Adjustable for different operator heights

- Provide complete enclosure for security and weather protection.
- Mounted between hose reels for operator viewing.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**PIPING:**

All piping systems subjected to high pressure shall be fabricated of high pressure piping with forged steel fittings. Pump suction lines and low pressure return piping systems may be standard weight pipe with malleable fittings. Heater hoses and vinyl are not acceptable for return hoses. All piping from the water pump to the hose reel shall be replaceable piping. Welded to frame will not be acceptable.

A strainer shall be installed in the suction line to prevent foreign material from damaging the pump, and at a location permitting ease accessibility for cleaning.

The unit design shall incorporate steel tubing running from the water pump area to the hose reel. This design will provide less down time and quicker repairs. Hoses running the total length of the unit are unacceptable.

A relief valve adjustable from 0-3000 PSI shall regulate pressure to the sewer-cleaning nozzle. The valve must be repairable; throw away type sealed units are not acceptable.

The frame to be custom channel 6" Rail 10" front and rear shall be bolted to the chassis frame utilizing shear plates. U-bolt systems will not be accepted.

All decking shall be diamond tread plate steel for operator safety.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**STANDARD ACCESSORIES:**

Steps Shall be provided on curbside of the unit. The steps shall be at least 6" x 4" with diamond tread plate base.

Nozzle storage rack shall be supplied

One ¾ ENZ chisel point nozzle, One ¾ ENZ standard cleaning nozzle, One ¾" ENZ grenade nozzle

- One ¾ skid assembly, 6" long, threaded for hose fittings and nozzle

Leader Hose (steel wire braid) 3/4 x 20' long. Installed ready for use.

(2) Tiger Tail hose protectors.

Wash down system includes:

- 50 ft Handgun gun hose with hand gun on a Hanney retractable reel shall be mounted at passenger side under sub-frame at rear.
- 800 ft 3000 psi sewer hose to be delivered on unit (Jet hose only)
- Handgun relief valve (the relief valve shall be adjustable)
- The hand gun system shall operate at a minimum of 500 psi and a maximum of 800 PSI
- The quick disconnect for the handgun shall be mounted at the hose reel control panel.

(2) two folding or tilting cone rack shall be included.

One (1) 18" x 18" x 60" toolbox shall be installed on unit, the doors shall swing open down

One (1) 14" x 14" x 24" toolbox shall be installed on unit.

One (2) 14" x 14" x 36" toolbox shall be installed on unit.

One (1) 19" x 33" x 40" toolbox shall be installed on unit.

Boxes shall be made of diamond tread plate aluminum and shall lock.

**NOTE: Location of all tool boxes shall be determined at pre-construction meeting.**

The bulk-head rack mounted behind the chassis cab shall incorporate a tool storage rack to hold a standard shovel and broom

A long handle tool storage rack shall be installed on the side of the water tank to allow for 12' long handle tools

Whelen Arrowstick mounted on the rear of the unit. Controls for the arrowstick shall be located in the cab.

Model # [MGM02C0A](#)

(6) LED Whelen TIR6 500 series surface mounted light heads to be installed as follows: (2) each side at front and rear corner of sub-frame and (2) mounted in front cab radiator grille area. (2) LED Whelen beacons model L31HAF to be mounted on chassis cab mirror brackets. All Safety lights shall be controlled by one on/off switch be located in cab.

(5) Flood lights shall be supplied as follows: (2) mounted behind chassis cab on a bulkhead rack (1) located on each side corner at highest point. The flood lights shall be adjustable for positioning down on deck area or street area. (2) towards rear of water tank at highest area The flood lights shall be adjustable for positioning down on hose reel area or street area at rear of unit. (1) flood light mounted on an adjustable bracket or rod to allow the operator to move the floodlight into position under the hose re-wind guides for both reels. The on/off switch for the re-wind guide flood light shall be located at the hose reel operator control console.

**NOTE: Final location of all flood lights will be determined at pre-construction meeting.**

A lateral hose reel shall be installed under the passenger side sub-frame. It shall have a minimum of 150' of ½" hose and be plumbed to the high pressure water pump with on/off valve. The hose reel shall be electrically retracted. (1) ENZ standard nozzle and (1) ENZ Chisel nozzle set for 20gpm @300 psi shall be supplied

A spring retractable air hose reel with 25' of air hose shall be mounted next to the lateral hose reel under the sub-frame. There shall be a standard air quick coupler at the end of the air hose. There shall be an in-line shut-off valve prior to the hose reel. The air system shall be supplied through the chassis air brake system and all safety check valves will be included

5000/10000 surge watt inverter shall be supplied and wired to a retractable reel located on the passenger side under sub-frame next to the air hose reel. Wagan Model # 2012

A Safety Vision color back-up camera model SV-CLCD-70 be installed with 7"LCD color monitor located on dash in chassis cab

A 5 gallon debris containment bucket shall be located under the sub-frame on the driver's side at rear of unit.

**Bidder complies: Yes\_\_\_\_\_ No\_\_\_\_\_**

### **PAINTING:**

Each component shall be painted separately prior to assembly

All hydraulic, water pressure fittings and hoses shall be free of paint and paint over spray.

The entire main sub-frame bed, the hose reel sub-frame and the hose reel support arms shall be coated with Rhino Lining or equivalent, the balance of the equipment will be painted white to match chassis cab.

**Bidder complies: Yes\_\_\_\_\_ No\_\_\_\_\_**

**VACUUM SYSTEM:**

The vacuum pump shall be a minimum 500 CFM, The system shall incorporate a 4" port final muffler, The pump and hydraulic motor shall be mounted for easy access, The hydraulic system shall be installed and limit the blower from over speeding, The filtration system shall utilize a minimum of the following:

Primary moisture trap and float ball, Final filter All trap shall incorporate full opening access doors for cleaning and maintenance

The hydraulic system on off and speed controls shall be mounted on the hose reel control panel.

3 each -3" aluminum vacuum tubes in the following lengths :

4' with male and female cam-lock ends

4' with male and female cam-lock ends

5' with male and female cam-lock ends

7' vacuum hose with male and female ends.

The piping and hose shall have storage racks all pipes and hoses. The rack shall be accessible from ground level.

A pipe storage rack for the tubing and hose shall be permanently installed on the vacuum tank.

**Bidder complies: Yes\_\_\_\_\_ No\_\_\_\_\_**

**CITY OF LIVERMORE**  
**REQUEST FOR BID #4071**  
**FOR: ONE (1) TRUCK MOUNTED JETTER RODDER**  
**SPECIFICATIONS**

**CAB AND CHASSIS:** (Peterbilt 335 or equivalent)

**GENERAL DATA :**

Specify GVWR \_\_\_\_\_  
Specify BBC \_\_\_\_\_  
Specify WB \_\_\_\_\_  
Specify CA \_\_\_\_\_  
Specify OH \_\_\_\_\_

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**AXLES:**

Dana-Spicer or equal set back front axle rated not less than 10,000 pound capacity with an oil-bath type wheel bearing seals.

Specify make \_\_\_\_\_  
Specify model \_\_\_\_\_  
Specify capacity \_\_\_\_\_

Dana-Spicer or equal rear axle rated not less than 20,000 pound capacity. The gear ratio shall give a speed of approximately 62-mph at the maximum governed engine RPM with the transmission in high range.

Specify make \_\_\_\_\_  
Specify model \_\_\_\_\_  
Specify capacity \_\_\_\_\_

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**BRAKES:**

Shall be full air anti-lock braking system, including the following:

1. 17.0 cubic foot air compressor minimum
2. Minimum two (2) air reservoirs
3. Automatic drain valve, BW DV-2 or equal
4. Air dryer shall be Bendix AD-IS with heater
5. Low-pressure buzzer
6. Air pressure gauge (dash mounted)
7. Front axle, "S" cam, 15" x 4" minimum with outboard mounted drums  
Specify size \_\_\_\_\_
8. Rear axle, "S" cam, 16-1/2" x 7", minimum with outboard mounted drums  
Specify size \_\_\_\_\_
9. Park brake, spring applied
10. Automatic slack adjusters

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**CITY OF LIVERMORE**  
**REQUEST FOR BID #4071**  
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**SPECIFICATIONS**

**BUMPER:**

The front bumper shall be factory standard, full width, painted.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**CAB:**

The truck shall be aluminum cab with all standard features, including the following:

- Tilt hood with service access hatches
- Driver seat, Hi back air seat
- Passenger seat Hi-back
- Outside side mirror shall be a Moto Mirror II #2310 with dash mount controls or equal
- Specify mirror model \_\_\_\_\_
  
- Grab handles, left and right side
- Tilt & Telescopic steering wheel
- Dual speed intermittent electric windshield wipers
- Windshield washer
- Heater and defroster
- Left and right sun visors
- Front windshield visor
- Left and right door mounted armrests
- Tinted glass, all windows
- All gauges, including the following:
  - Volt/ammeter
  - Fuel
  - Engine coolant temperature
  - Engine oil pressure
  - Air pressure
  - Pyrometer
  - Tachometer, factory installed
  - Cigarette lighter and ash tray
  - Additional 12v outlet
  - Dual air horns
  - AM/FM radio
  - Dash mounted air cleaner restriction gauge
- Rear window shall be installed
- Factory heat and air conditioning

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**CITY OF LIVERMORE**  
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**SPECIFICATIONS**

**COOLING:**

The cooling system shall be manufacturer's largest capacity for off road application with severe service or heavy-duty off-road mounting system with a coolant recovery system. All radiator and heater hoses for the cooling system shall be Silicone with the appropriate clamps.

**Bidder complies:** Yes \_\_\_\_\_ No \_\_\_\_\_

**DRIVE LINE:**

The drive line tubing shall be of a diameter and wall thickness to withstand the maximum torque being applied with the transmission in the lowest reduction.

Specify make \_\_\_\_\_  
Specify series \_\_\_\_\_

**Bidder complies:** Yes \_\_\_\_\_ No \_\_\_\_\_

**ELECTRICAL:**

The battery(s) shall be heavy-duty maintenance free, 12-volt with a minimum combined CCA of 1400 @ zero degrees. The alternator shall have a minimum 130 amp out-put. All of the standard electrical components shall be installed and protected by circuit breakers.

Specify output at idle \_\_\_\_\_

A master battery disconnect switch to be located on the battery box

**Bidder complies:** Yes \_\_\_\_\_ No \_\_\_\_\_

**POWER TRAIN:**

The engine shall be turbo-charge and air-to-air after cooled premium diesel not less than 260 horsepower, PACCAR PX-6 (Cummins ISC) or equivalent with 620-pound foot torque, 2008 California Air Resources Board certified and equipped with all standard accessories including the following:

1. Idle shutdown enable
2. Engine protection shut down
3. Max speed in high gear
4. Maximum cruise speed
5. Idle shut down timer
6. Dry type air cleaner with frontal intake
7. Exhaust chrome plated single stack right side of cab
8. DPF under cab with exhaust pie guards
9. Frame mounted spin on fuel filter
10. Jacobs engine brake system

**Bidder complies:** Yes \_\_\_\_\_ No \_\_\_\_\_

**CITY OF LIVERMORE**  
**REQUEST FOR BID #4071**  
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**SPECIFICATIONS**

**TRANSMISSION:**

The transmission shall be an Allison automatic 5 speed with provisions for dual PTO. A manufacture transmission cooler shall be installed.

Specify transmission model \_\_\_\_\_

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**EXHAUST:**

The exhaust system shall be a horizontal particulate trap muffler under the right side of the truck and exhaust stack with a curved chrome stack incorporating Riker or equal stack guard to prevent burn injuries to operator on the right side of the truck.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**FRAME:**

The main frame rails shall be 10 5/8 steel with 5/16 rail thickness. The frame shall be no less than 110,000 psi high-tensile alloy steel, full C channel factory reinforced to end of frame and shall meet or exceed all requirements for the GVWR specified.

A tow hook shall be installed on each front frame.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**FUEL TANK:**

The fuel tank shall be aluminum single cylindrical type with a non-slip step, 50-gallon minimum capacity, mounted on the right side of truck.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**KEYS:**

There shall be two (2) keys for every lock and ignition.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**STEERING:**

Manufacturer's recommended power steering for the axle and GVW specified.

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**CITY OF LIVERMORE**  
**REQUEST FOR BID #4071**  
**FOR: ONE (1) TRUCK MOUNTED JETTER RODDER**  
**SPECIFICATIONS**

**FRONT SUSPENSION:**

The front suspension shall be steel leaf with a capacity no less than 10,000 pound and shall be equipped with heavy-duty front shocks.

Specify make of suspension system \_\_\_\_\_  
Specify model of suspension system \_\_\_\_\_  
Specify GVWR of suspension system \_\_\_\_\_

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**REAR AXLE SUSPENSIONS:**

Rear suspension shall be steel leaf with a capacity no less than 30,000-lb. and be equipped with heavy duty shocks

Specify make of suspension system \_\_\_\_\_  
Specify model of suspension system \_\_\_\_\_  
Specify GVWR of suspension system \_\_\_\_\_

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**WHEELS AND TIRES:**

The vehicle shall have six (6) aluminum wheels and six (6) with tires of a size and load range sufficient to meet or exceed the axle rating and GVW specified.

**Front tires**  
Specify tires bid \_\_\_\_\_  
Specify tires size \_\_\_\_\_  
Specify load range \_\_\_\_\_

**Rear Tires**  
Specify tires bid \_\_\_\_\_  
Specify tires size \_\_\_\_\_  
Specify load range \_\_\_\_\_

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**DELIVERY/REGISTRATION:**

**Registration:** Vendor is required to register all required paperwork with the State of California, Department of Motor Vehicles with exempt license plates.

**Delivery:** The vendor shall set the date \_\_\_\_\_the vehicle will be available for the City of Livermore.

City of Livermore  
3500 Robertson Park Road  
Livermore, Ca 94550  
Attention: Mike Arnerich, Public Works Supervisor – Fleet  
925-960-8031

**Bidder complies: Yes**\_\_\_\_ **No**\_\_\_\_\_

**CITY OF LIVERMORE**  
**REQUEST FOR BID #4071**  
**FOR: ONE (1) TRUCK MOUNTED JETTER RODDER**  
**BIDDER'S PROPOSAL**

The undersigned bidder declares that he/she has carefully examined the General Conditions and Specifications and agrees to furnish ONE (1) TRUCK MOUNTED JETTER RODDER to the City of Livermore. The undersigned further declares that this Bid is made according to the provisions and under the terms of the "Notice to Bidders" which document is made a part of this bid.

City of Livermore  
Leslie Young, Purchasing Specialist  
1052 South Livermore Avenue  
Livermore, California 94550

**FOR: ONE (1) TRUCK MOUNTED JETTER RODDER**

Subtotal	\$ _____
Delivery	\$ _____
Rebates – Government price concession?	\$ _____
Misc. (DMV process)	\$ _____
Sales Tax	\$ _____
Tire Tax	\$ _____
TOTAL:	\$ _____

**COOPERATIVE PURCHASING**

Would you be willing to offer the above Vehicle to other Government Agencies at the above price? (Your response to this question will in no way affect the award of this Bid.)

YES \_\_\_\_\_ NO \_\_\_\_\_

**DELIVERY SHALL BE MADE APPROX. \_\_\_\_\_ DAYS AFTER RECEIPT OF ORDER.**

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

**BY:** \_\_\_\_\_  
(PLEASE SIGN) (PRINT NAME & TITLE)

**COMPANY:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_  
\_\_\_\_\_

**PHONE:** \_\_\_\_\_ **FAX:** \_\_\_\_\_ **E-MAIL:** \_\_\_\_\_

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