

SUBMIT BIDS TO:	CITY OF TUSCALOOSA P.O. BOX 2089 TUSCALOOSA, AL 35403	PURCHASING OFFICE 2201 UNIV. BLVD. TUSCALOOSA, AL 35401	INVITATION TO BID CITY OF TUSCALOOSA										
BID TITLE CCTV SEWER INSPECTION VEHICLE		BID NO. 27011-030316-1											
PAGE 1 OF 15 PAGES	BIDS WILL BE OPENED AT 2:00 PM ON MARCH 3, 2016 IN THE OFFICE OF THE PURCHASING AGENT, 2201 UNIVERSITY BLVD. TUSCALOOSA, AL 35401 AND MAY NOT BE WITHDRAWN FOR THIRTY (30) DAYS AFTER SUCH DATE & TIME.		ISSUE DATE 02/10/2016										
 <p style="text-align: center;">MAYOR WALTER MADDOX</p> <p style="text-align: center;">COUNCIL MEMBERS</p> <table border="0" style="width: 100%;"> <tr> <td>PHYLLIS W. ODOM</td> <td>MATTHEW CALDERONE</td> </tr> <tr> <td>HARRISON TAYLOR</td> <td>KIP TYNER</td> </tr> <tr> <td>CYNTHIA LEE ALMOND</td> <td>EDDIE PUGH</td> </tr> <tr> <td>SONYA McKINSTRY</td> <td></td> </tr> </table> <table border="0" style="width: 100%;"> <tr> <td>CITY CLERK (ACTING) DEBRA K. CLEMENTS</td> <td>PURCHASING AGENT DAVID COGGINS</td> </tr> </table>		PHYLLIS W. ODOM	MATTHEW CALDERONE	HARRISON TAYLOR	KIP TYNER	CYNTHIA LEE ALMOND	EDDIE PUGH	SONYA McKINSTRY		CITY CLERK (ACTING) DEBRA K. CLEMENTS	PURCHASING AGENT DAVID COGGINS	Vendor Information (SECTION TO BE COMPLETED BY VENDOR) <hr/> Company Name (Please Print) <hr/> Phone Number Fax Number <hr/> Email Address	
PHYLLIS W. ODOM	MATTHEW CALDERONE												
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GENERAL CONDITIONS OF INVITATIONS TO BID

1. **PREPARATION OF BIDS**
Bids will be prepared in accordance with the following:
 - (a) Our enclosed Bid Proposal Form is to be used in submitting your bid.
 - (b) All information required by the Bid form shall be furnished. The bidder shall print or type his name and manually sign the schedule and each continuation sheet on which any entry is made.
 - (c) Unit prices shall be shown and where there is an error in extension of price, the unit price shall govern.
 - (d) Proposed delivery time must be shown and shall include Sundays and holidays.
 - (e) Bidder will not include federal taxes nor State of Alabama sales, excise, and use taxes in bid prices as the City is exempt from payment of such taxes. An exemption certificate will be signed where applicable upon request.
 - (f) Bidders shall thoroughly examine the drawings, specifications, schedule, instructions and all other contract documents.
 - (g) Bidders shall make all investigations necessary to thoroughly inform themselves regarding plant and facilities for delivery of material and equipment as required by the bid conditions. No plea of ignorance by the bidder of conditions that exist or that may hereafter exist as a result of failure or omission on the part of the bidder to make the necessary examinations and investigations, or failure to fulfill in every detail the requirements of the contract documents, will be accepted as a basis for varying the requirements of the City or the compensation to the vendor.
 - (h) Bidders are advised that all City Contracts are subject to all legal requirements provided for in the Purchasing ordinance and/or State and Federal Statutes.

2. **DESCRIPTION OF SUPPLIES**
 - (a) Any manufacturer's names, trade names, brand name, or catalog numbers used in specifications are for the purpose of describing and establishing general quality levels. SUCH REFERENCES ARE NOT INTENDED TO BE RESTRICTIVE. Bids will be considered for any brand which meets the quality of the specifications listed for any items.
 - (b) Bidders are required to state exactly what they intend to furnish, otherwise they shall be required to furnish the items as specified.
 - (c) Bidders will submit, with their proposal, data necessary to evaluate and determine the quality of the item(s) they are bidding.

3. **SUBMISSION OF BIDS**
 - (a) Bids and changes thereto shall be enclosed in sealed envelopes addressed to David Coggins, Purchasing Agent, 2201 University Blvd., Tuscaloosa, Alabama. The name and address of the bidder, the date and hour of the bid opening and the material or service bid on shall be placed on the outside of the envelope.
 - (b) Bids must be submitted on the forms furnished. Telegraphic bids will not be considered.

4. **REJECTION OF BIDS**
 - (a) The City may reject a bid if:
 1. The bidder misstates or conceals any material fact in the bid, or if,
 2. The bid does not strictly conform to the law or requirement of bid, or if,
 3. The bid is conditional, except that the bidder may qualify his bid for acceptance by the City on an "all or none" basis, or a "low item" basis. An "all or none" basis bid must include all items upon which bids are invited.
 - (b) The City may, however, reject all bids whenever it is deemed in the best interest of the City. The City may also waive any minor informalities or irregularities in any bid.

5. **WITHDRAWAL OF BIDS**
 - (a) Bids may not be withdrawn after the time set for the bid opening for a period of time as specified.
 - (b) Bids may be withdrawn prior to the time set for the bid opening.

6. LATE BIDS OR MODIFICATIONS

- (a) Bids and modifications received after the time set for the bid opening will not be considered.
- (b) Modifications in writing received prior to the time set for the bid opening will be accepted.

7. CLARIFICATIONS OR OBJECTION TO BID SPECIFICATIONS

If any person contemplating submitting a bid for this contract is in doubt as to the true meaning of the specifications or other bid documents of any part thereof, he may submit to the Purchasing Agent on or before five (5) days prior to scheduled opening a request for clarification. All such requests for information shall be made in writing and the person submitting the request will be responsible for its prompt delivery. Any objection to the specifications and requirements as set forth in this bid must be filed in writing with the Purchasing Agent on or before five (5) days prior to scheduled opening.

8. DISCOUNTS

- (a) Bidders may offer a cash discount for prompt payment; however, such discounts shall NOT be considered in determining the lowest net cost for bid evaluation purposes. Bidders are encouraged to reflect cash discounts in the unit prices quoted.
- (b) In connection with any discount offered, time will be computed from the date of receipt of supplies or services or from the date a correct invoice is received, whichever is the later date. Payment is deemed to be made on the date of mailing of the check.

9. SAMPLES

Samples, when required, must be submitted within the time specified at no expense to the City of Tuscaloosa. If not destroyed or used up during testing, samples will be returned upon request at the bidder's expense, unless stated otherwise in Special Conditions or Specifications. Each individual sample must be labeled with bidder's name and manufacturer's brand name and number.

10. AWARD OF CONTRACT

- (a) The contract will be awarded to the lowest responsible bidder based upon the following factors: quality; conformity with specifications; purpose for which required; terms of delivery; transportation charges; dates of delivery.
- (b) The city reserves the right to accept and award item by item, and/or by group, or in the aggregate, unless the bidder qualifies his bid by specified limitations. Re Par.4(a)3.
- (c) If two or more bids received are for the same total amount or unit price, quality and service being equal, the contract shall be awarded to a local bidder.
- (d) Prices quoted must be FOB Tuscaloosa with all transportation charges prepaid unless otherwise specified in the Invitation to Bid.
- (e) A written award of acceptance (Purchase Order), mailed or otherwise furnished to the successful bidder shall result in a binding contract.

11. DELIVERY

- (a) Deliveries are to be FOB Destination unless otherwise specified in the Invitation to Bids.
- (b) Deliveries are to be made during regular business hours.

12. CONDITION OF MATERIALS AND PACKAGING

All items furnished must be new and free from defects. No others will be accepted under the terms and intent of this bid. All containers shall be new and suitable for storage or shipment, and price bid shall include standard commercial packaging.

13. CLAIMS

Successful bidder(s) will be responsible for making any and all claims against carriers for missing or damaged items.

14. LOCAL, STATE, AND FEDERAL COMPLIANCE REQUIREMENTS

Bidders shall comply with all local, state, and federal directives, orders and laws as applicable to this bid and subsequent contract(s).

15. PROVISION FOR OTHER AGENCIES

Unless otherwise stipulated by the bidder, the bidder agrees when submitting his bid to make available to all City agencies, departments, and in-city municipalities the bid prices he submits, in accordance with the bid terms and conditions, should any said department, agency, or municipality wish to buy under this proposal.

16. COLLUSION

The bidder, by affixing his signature to this proposal, agrees to the following: "Bidder certifies that his bid is made without previous understanding, agreement, or connection with any person, firm, or corporation making a bid for the same items and is in all respects fair, without outside control, collusion, fraud, or otherwise illegal action".

17. VARIANCE IN CONDITIONS

Any and all special conditions and specifications attached hereto which varies from General Conditions shall have precedence.

18. MINORITY / DISADVANTAGED BUSINESS ENTERPRISE PROGRAM

The City of Tuscaloosa has voluntarily adopted a Minority / Disadvantaged Business Enterprise ("MBE/DBE/WBE") Program called Tuscaloosa Builds, which is designed to encourage the participation and development of minority and disadvantaged business enterprises and to promote equal business opportunities to the fullest extent allowed by state and federal law. To learn more about this program, visit <http://www.tuscaloosarecovery.com/blog/category/tuscaloosa-builds/>.

** PRELIMINARY BID TAB WILL BE POSTED ON THE CITY'S WEBSITE ONCE AVAILABLE.

SPECIAL CONDITIONS

The General Conditions of Invitations to Bid and any Special Conditions stated shall be considered as part of the specifications of the bid.

Reference to brand names and numbers is descriptive, but not restrictive, unless otherwise specified. Bids on equivalent items meeting the standards of quality thereby indicated will be considered, providing the bid clearly describes the article offered and indicates how it differs from the referenced brands. Descriptive literature and manufacturer's specifications plus any supplemental information necessary for comparison purposes must be submitted with the bid or the bid on that item will be rejected. Reference to literature submitted with a previous bid or on file with the Division of Purchasing will not satisfy this requirement.

The burden is on the bidder to demonstrate that the item bid is equivalent to the item specified in the ITB. Any exceptions taken to any item(s) must be fully explained in written detail on bidders' letterhead and attached to the bid when submitted.

Awards shall be made or contracts entered into with the lowest responsible bidder(s) meeting all specifications and terms and conditions established by the Division of Purchasing. The Division of Purchasing reserves the right to determine the lowest responsible bidder on the basis of an individual item or group of items. Delivery dates may be a factor in awards. Local Bidder Preference will be used in bid evaluation in accordance with State of Alabama Bid Law Section 41-16-50(a).

The issuance of a City of Tuscaloosa Purchase Order or Purchasing Card is required to constitute a contract between the vendor and the City of Tuscaloosa, which shall bind the vendor to furnish and deliver the commodities and/or services ordered at the prices, terms, and conditions quoted.

Title fee and any factory incentives or rebates shall be reflected in the total price.

Questions concerning the bid process should be directed to David Coggins at (205) 248-5186 or dcoggins@tuscaloosa.com (e-mail is preferred). Questions concerning Specifications should be directed to Jimmy Sexton at (205) 248-5875.

Any addendums issued for this bid will be posted on the City Of Tuscaloosa website at <http://www.tuscaloosa.com/e-services/bids>. It is the responsibility of the bidder to check this page for any addendums before submitting their bid.

Vendor to submit the following:

- Signed Special Conditions page
- Any necessary descriptive literature and/or specifications information as outlined above and/or elsewhere in this document
- Completed and signed Specifications pages
- Completed and signed Bidder's Response Form

NOTE: Sheet(s) submitted without Company Name & Signature WILL NOT be considered for bid award.

Bid submissions shall be submitted in a sealed envelope and addressed to: David Coggins, Purchasing Agent, 2201 University Blvd., Tuscaloosa, Alabama. The name and address of the bidder, the date and hour of the bid opening and the Bid Title shall be placed on the outside of the envelope.

VENDOR MUST SUBMIT AN ORIGINAL BID AND ONE COMPLETE COPY OR THE BID MAY BE REJECTED.

MINIMUM SPECIFICATIONS FOR CCTV SEWER INSPECTION VEHICLE

It is the intent of these specifications to describe a CCTV Sewer Inspection Vehicle as needed by the City Of Tuscaloosa. All components listed herein are necessary to be properly installed and operational in accordance with these specifications. It shall be the winning bidder's responsibility to supply a properly installed system in a ready-to-operate condition to be delivered to the City of Tuscaloosa's Wastewater Treatment Plant.

The CCTV system shall be capable of televising the inspection of 6" through 24" pipes and sewer lines. The system shall be used for the inspection of underground service connections from a single access point and to evaluate the existing condition of sewer pipes and lateral pipes within the City of Tuscaloosa. Each camera, camera transporter, and external light head to be supplied per these specifications must be labeled and listed as being manufactured ISO9001 verified. The ISO9001 certification signifies a global benchmark in customer satisfaction, product quality, and leads to significant reduction in defect levels.

Bids submitted that do not meet all of these minimum specifications, or equal to, are subject to bid rejection. Bidders stating equal to must provide documentation to support their statement. Fill in all blanks with: a "**YES**" if meeting or exceeding the numbered specification(s) or a "**NO**" if exception(s) is taken to the numbered item. A checkmark will not suffice. This form must be correctly completed and returned in order to constitute a valid bid. Failure to do this will subject your bid to rejection. **ALL NO ANSWERS MUST BE FULLY EXPLAINED ON BIDDER'S LETTERHEAD.**

TRUCK SPECIFICATIONS

- _____ 1. Year & Model – New and unused 2016 year model F-450 (or equal) standard cab truck with a 16' cargo box converted to an inspection box as described in sections to follow.
- _____ 2. Wheel Base – 200.8" (120" CA)
- _____ 3. Engine – 6.7 liter diesel engine.
- _____ 4. Transmission – Automatic transmission.
- _____ 5. Chassis – Dual rear wheels, 4x2 with a base curb weight of 7,850 lbs.
- _____ 6. Steering – Power.
- _____ 7. Tires –P225/70R/19.5 radials, mud and snow tires on rear.
- _____ 8. Spare Tire & Wheel – Same as on vehicle.
- _____ 9. GVWR – 16,000 lbs.
- _____ 10. Strobe Light – 22-watt strobe mounted on front roof with on/off switch in cab.
- _____ 11. Heater & Defroster – To be included.
- _____ 12. Mirrors -- Two outside telescoping trailer tow mirrors. Shall be power mirrors.
- _____ 13. Features -- Power door locks with keyless entry remote, power windows.
- _____ 14. Air Conditioning – Factory installed in cab.

- _____ 15. LED Arrow Board – Directional LED arrow board on rear of vehicle with driver accessible controls.
- _____ 16. Floodlights – Two (2) adjustable floodlights at rear of vehicle, mounted inside of rear doors.
- _____ 17. Glass – Tinted windshield.
- _____ 18. Radio – AM/FM.
- _____ 19. Seats – Standard driver’s and passenger’s seats with seatbelt and sun visor.
- _____ 20. Cab Light – 12-volt light in cab area.
- _____ 21. Backup Camera – Backup camera with LCD monitor.
- _____ 22. Color – White.
- _____ 23. Windshield Wipers – Intermittent.
- _____ 24. Backup Alarm – To be included.
- _____ 25. Equipment -- All standard and safety equipment to be included, including all other group standard equipment.
- _____ 26. Literature – All literature to be enclosed in truck upon delivery.

CONVERTED INSPECTION BOX SPECIFICATIONS

- _____ 1. Dimensions – 16’ x 6’6” inside dimensions.
- _____ 2. Walls – 3/8” FRP sidewall construction.
- _____ 3. Front – 12” Aluminum front radius.
- _____ 4. Corners – 5” extruded aluminum vertical corners.
- _____ 5. Cross-Members – 3” formed channel cross-members on 16” centers.
- _____ 6. Roof Boxes -- At 24” on centers.
- _____ 7. Body – Low profile with wheel wells, and air fairing to match chassis.
- _____ 8. Side Door – 36” x 72” side entry door with locking mechanical latch.
- _____ 9. Rear Doors – Dual rear swing doors with deadbolt locking latch and inside release.
- _____ 10. Rear Bumper – Rear grated aluminum step bumper with sliding drawer storage.
- _____ 11. Clearance Lights – Recessed LED clearance lights.
- _____ 12. Roof – Aluminum roof.
- _____ 13. Flooring – Lonseal Lonplate flooring.

INSPECTION BOX CONTROL ROOM INTERIOR SPECIFICATIONS

- _____ 1. Air Conditioning – 13,500 BTU Air Conditioner, roof mounted, with 5,600 BTU heat strip.
- _____ 2. Walls & Ceiling – Walls and ceiling to be covered with studio gray colored indoor/outdoor or automotive carpet.
- _____ 3. Flooring – Lonseal Lonplate flooring.
- _____ 4. Door – Pass through door with one window located at center of door. Door must latch from both inside and outside. Door must be a minimum of 76” tall to allow passage without bumping head.
- _____ 5. Window – Sliding window with screen on partition wall above studio desk next to pass through door.
- _____ 6. Control Console – Control console with rack mount for electronic equipment.
- _____ 7. Counter Tops – Laminate hard surface counter tops in studio with two grommet holes to accommodate cables from monitors.
- _____ 8. Controller Housing – Located in desk top.
- _____ 9. Lights – Two (2) 110-volt indirect fluorescent light fixtures.
- _____ 10. Outlets – Five (5) 110VAC outlets with GFI protection on work area circuit.
- _____ 11. Fire Extinguishers – Fire extinguisher with bracket, 10 BC rating.
- _____ 12. Chair – Operator’s chair, with swivel and casters.
- _____ 13. Courtesy Lights – Two (2) 12-volt courtesy lights.

INSPECTION BOX EQUIPMENT ROOM INTERIOR SPECIFICATIONS

- _____ 1. Walls & Ceiling – Walls and ceiling to be FRP covered, white in color.
- _____ 2. Flooring – Lonseal Lonplate flooring.
- _____ 3. Roof – Insulated tapered roof.
- _____ 4. Outlet – Electrical outlet with dual receptacles.
- _____ 5. Mounting Bracket -- Downhole Pole Mounting Bracket Assembly
- _____ 6. Lights – Two (2) 110-volt indirect fluorescent light fixtures.
- _____ 7. Workbench – Workbench with hard maple wood butcher block counter top.
- _____ 8. Battery – 12-volt battery mounted on OEM chassis rail.
- _____ 9. Wash Down System – 20-gallon wash down system.
- _____ 10. Water Hose – Retractable water hose reel with 25’ water hose and nozzle.

- _____ 11. Breaker Box – Climate controlled breaker box / electronic storage area with locking positive latches.
- _____ 12. Courtesy Lights – Four (4) 12 VDC LED courtesy lights; two (2) in the center line of work area and two (2) under each of the overhead cabinets.
- _____ 13. Exterior Receptacle – Exterior shore power plug/receptacle, 30-amp with 30-foot extension cord.
- _____ 14. Storage – Sliding drawer storage.
- _____ 15. Restroom – Restroom facility with flushable RV style toilet.
- _____ 16. Steps – Rear steps.
- _____ 17. Monitor – 15” LCD flat screen color industrial TV monitor with built-in speakers. Mounting bracket to be included.
- _____ 18. Cable Assembly – From video monitor to monitor in control room.

INSPECTION BOX POWER PACKAGE SPECIFICATIONS

- _____ 1. Generator – 8,000 KW 120-volt, 60 Hz commercial grade generator, diesel powered with electric start.
- _____ 2. Generator Start Cable – Generator remote start/stop cable assembly to be included.
- _____ 3. Generator Storage – Generator storage with a lockable external access door on passenger side of truck.
- _____ 4. Receptacle – Commercial power supply receptacle with 25’ cord and plug.
- _____ 5. Electric Supply Center – To include circuit breaker box, commercial power and generator power connectors.
- _____ 6. Power Switch – Automatic power transfer switch.

SYSTEM ENGINEERING PANEL & POWER DISTRIBUTION SYSTEM SPECIFICATIONS

- _____ 1. Voltage Readout, Power Supply.
- _____ 2. Hertz Readout, Power Supply for 60 Hz.
- _____ 3. Generator Hour Readout.
- _____ 4. Remote Generator Start/Stop Control Switch.

COLOR TV POWER CONTROL UNIT – MULTI CONDUCTOR RACK MOUNT SPECIFICATIONS

- _____ 1. TV Camera Remote Optical Focus Control.
- _____ 2. TV Camera Automatic Iris Remote Control.
- _____ 3. TV Camera Light Head Intensity Control w/Meter.
- _____ 4. Camera Test Cable Assembly.

_____ 5. Inclinometer Card

PIPELINE DATA COLLECTION & REAL TIME VIDEO CAPTURE SYSTEM SPECIFICATIONS

_____ 1. Genuine Intel Pentium IV 2.53 GHZ CPU.

_____ 2. 256 MB of DDR SDRAM DIMM, 266MHz

_____ 3. PCI Video Capture Board with MPEG1 Video Capture & Hardware Compression.

_____ 4. 64 MB On Board Video Graphics Controller.

_____ 5. 120 GB, 7,200 RPM EIDE Hard Drive.

_____ 6. 120 GB, 7,200 RPM EIDE A/V Removable Hard Drive.

_____ 7. ATX-PFC 300 Watt Power Supply.

_____ 8. Double Data Titler.

_____ 9. 3 1/2" 1.44 MB High Density FDD (Floppy Disk Drive).

_____ 10. Industrial Hardened Case with Air Filtering and Vibration Dampening Hard Drive Mounts.

_____ 11. Peripheral Cards Support Bar, 19" Rack.

_____ 12. 101 Key Enhanced Heavy Duty Keyboard.

_____ 13. Optical PS/2 Mouse.

_____ 14. 15" Viewsonic VT550 Monitor.

_____ 15. Desktop Color Ink Jet Printer, 600x300 dpi, 512K.

_____ 16. Windows 10 or Windows 2000 Professional Operating System.

_____ 17. Inspection Software with Editing Capabilities (Only IT PIPE Software) – Must be compatible with Lucy.

_____ 18. User Guide – Both Hard Copy and CD.

_____ 19. Quick Reference Card with Menu Shortcuts.

_____ 20. Inclinometer Module.

_____ 21. DVD Burner.

_____ 22. Lateral Launch Capabilities – Must be included with controller.

POWER SUPPLY CONTROLLER SPECIFICATIONS

- _____ 1. Power supply controller shall be rack mount design with remote control station and keyboard handling camera power and controls, tractor power and controls, text generation, diagnostics, and cable winch controls. Camera systems that require more than one mounted component will be deemed unacceptable.
- _____ 2. Remote control station shall have a minimum 6” diagonal, full-color adaptive touch screen for selecting options and controlling system functions.
- _____ 3. Remote control station shall give a diagnostic readout of component pressure and issue an audible warning when pressure is low.
- _____ 4. Remote control station shall display the current draw of both the light heads and each motor in the tractor by view of a bar graph representing percentage.
- _____ 5. Remote control station shall allow for adjustment of brightness/intensity of both auxiliary light rings and camera lights, as well as be able to switch off individual light banks on the auxiliary light head.
- _____ 6. Power supply controller shall have a graphic-oriented display generator to allow the operator to type on-screen text, display distance counter, camera inclination, and display date and time.
- _____ 7. On-screen text shall have a minimum of 16 lines of text with a minimum of 53 characters per line.
- _____ 8. The controller shall be capable of accepting inputs for a minimum of two (2) distance counters, and be switchable between meters and feet.
- _____ 9. The controller shall be able to delete all text from the screen with the press of a single key.
- _____ 10. Power supply controller shall allow for a minimum of 10 color variations of overlay text to contrast on different backgrounds.
- _____ 11. On-screen text generator shall have a header field that will continuously display text at the desired location.
- _____ 12. Power supply controller shall allow the user to position each system field anywhere on the visible screen to prevent obstruction of view.
- _____ 13. Power supply controller shall automatically identify which camera, tractor, and cable winch is connected to the system.
- _____ 14. Power supply controller shall have a minimum of one (1) composite video output, one (1) S-Video output, and one (1) composite video input.
- _____ 15. Power supply controller shall be able to operate push cameras, small and large tractors, and lateral launch systems should an upgrade be desired in the future.

COMBINATION TV TRANSMISSION & TOW CABLE ASSEMBLY SPECIFICATIONS

- _____ 1. 1000’ Kevlar reinforced single cable.
- _____ 2. Cable strain relief.

PAN, TILT, AND ZOOM CAMERA SYSTEM SPECIFICATIONS

- _____ 1. Solid State color sewer TV camera with a pan & rotate camera head.
- _____ 2. 40:1 zoom ratio, 10x optical zoom, 4x digital zoom.
- _____ 3. 4x light integration.
- _____ 4. Camera controller.
- _____ 5. Camera lighting system.
- _____ 6. Camera transportation and storage case.

POWERED CABLE WINCH SPECIFICATIONS

- _____ 1. Cable winch shall be stationary mounted and hold 1000 linear feet of camera cable.
- _____ 2. Cable winch shall operate with a 48-volt DC power source.
- _____ 3. Cable winch shall have an automatic level wind guide.
- _____ 4. Cable winch shall be fitted with a timing belt drive that requires no greasing of any drive component. Cable winches that require greasing of bearings or chains will be deemed unacceptable.
- _____ 5. Cable winch shall have a cable equalization amplifier for video picture processing.
- _____ 6. Cable winch shall have an electromagnetic clutch to engage and disengage the cable winch.
- _____ 7. Cable winch's clutch shall be electronically switchable on and off using a push button switch with an LED status indicator light.
- _____ 8. There shall be a cable distance measuring device built into the boom and integrated pulley.
- _____ 9. Cable winch shall have an integrated traction regulating device that ensures optimum performance of the tractor in all operating conditions. This system assists in paying out cable dependent on tractor speed.
- _____ 10. Cable winch shall have an integrated lowering winch to lift, lower, and position the tractor from the truck into manholes.
- _____ 11. Cable winch's integrated lowering winch shall be capable of lifting a minimum of 175 lbs.
- _____ 12. Cable winch shall be equipped with an emergency brake that will lock the reel if power is lost to the system in order to prevent uncontrollable unreeling of camera cable. Emergency brake shall be equipped with a manual override and hand crank.
- _____ 13. Cable winch shall have a remote control pendant with the following controls: tractor direction and speed; tractor stop; control cable winch; operate lowering winch; switch between internal and external controls; turn winch on and off; and retract lateral launch cable if attached.
- _____ 14. Cable winch shall have an emergency stop button on both the drum and the pendant controller to remove all power to the downhole equipment.

- _____ 15. Cable winch shall have a minimum of three (3) status indicators, power and circuit breaker states.
- _____ 16. Cable winch shall have a button used to reset the distance counter to zero position.
- _____ 17. Cable winch shall have a foldable boom that will lock into position at various angles.
- _____ 18. Cable winch's foldable boom shall be able to support a minimum of 175 lbs.
- _____ 19. Cable winch shall have a 12 VDC work light mounted on the boom to illuminate in a downward angle.
- _____ 20. Cable winch shall have a removable drip tray that will catch and retain water and debris from the main cable drum.
- _____ 21. Camera cable shall be a maximum of 0.375" diameter with a 2000 lb. rating and be Kevlar fiber armored.

ELECTRIC MOTOR DRIVE TELEVISION CABLE REEL SPECIFICATIONS

- _____ 1. Power level wind & multi-ratio manual transmission.
- _____ 2. Footage meter with local counter and remote electronic counter.
- _____ 3. Transmission control at viewing station.
- _____ 4. Local reel mount electrical & mechanical control.
- _____ 5. Sealed continuous contact collector assembly.
- _____ 6. Controller cable reel/power winch motor.

SELF-PROPELLED STEERABLE CAMERA TRANSPORTER (WHEEL DRIVEN) SPECIFICATIONS

- _____ 1. Steerable unit designed to turn 360 degrees within its own radius.
- _____ 2. Wheels set to inspect 6", 8", 10", 12", 15", 18", and 24" pipe.
- _____ 3. Two-speed transmission with manual shifter on camera carrier.
- _____ 4. Unit shall have forward, free wheel and powered reverse capabilities.
- _____ 5. All-wheel drive transporter assembly to include motor and enclosed drive train.
- _____ 6. Transporter controller with automatic safety off.
- _____ 7. Joystick control for full proportional steering of transporter.
- _____ 8. Transporter control unit.
- _____ 9. Shall be capable of accepting lateral launch system.
- _____ 10. Automatic tilt compensation.
- _____ 11. Remote elevators.

_____ 12. Inclinometer.

_____ 13. Location transmitter.

_____ 14. Capable of inspecting 6” re-lined pipe.

CABLE MANHOLE GUIDE SYSTEM SPECIFICATIONS

_____ 1. TV invert pulley assembly.

_____ 2. Twelve (12) quick coupling extension poles.

_____ 3. Manhole adaptor hook.

_____ 4. Manhole top roller assembly.

CABLE PROTECTION SPECIFICATIONS

_____ 1. Downhole roller to protect cable at the invert.

_____ 2. Top manhole roller to protect cable in event of remote inspection.

_____ 3. Reel offset roller for remote inspection.

TV INSPECTION ACCESSORIES PACKAGE SPECIFICATIONS

_____ 1. TV maintenance tool kit.

_____ 2. Manuals for TV operation, instruction, and maintenance.

_____ 3. Spare parts manual.

_____ 4. Training DVD for TV system operating procedures.

_____ 5. Training DVD for system troubleshooting procedures.

_____ 6. Training DVD for TV cable repair procedures.

_____ 7. Demo Kit.

MISCELLANEOUS SPECIFICATIONS

_____ 1. Loaner equipment shall be available to the City Of Tuscaloosa on a regular basis.

_____ 2. Unit shall have a warranty against manufacturing defects for not less than twelve (12) months.

_____ 3. Bidder shall have been manufacturing and/or distributing proposed equipment for not less than two (2) years.

_____ 4. After delivery, a qualified technician shall provide complete training to City Of Tuscaloosa personnel at the City’s Wastewater Treatment Plant. Training shall include safety, operation, maintenance, and service.

- _____ 5. Successful bidder shall provide on-site follow-up training two (2) times for a minimum of six (6) hours each; dates are to be determined by the City Of Tuscaloosa.
- _____ 6. Sewer TV inspection components shall be delivered in first class operating condition.
- _____ 7. Acceptance shall be subject to the inspection and approval of City Of Tuscaloosa personnel.
- _____ 8. A tool and spare parts kit shall be provided. This kit shall include any necessary tools for minor adjustments and repairs in a tool box. Kit shall include test meter, soldering iron, solder, wrenches, screwdrivers, Allen wrenches, and other frequently used parts and tools.

ADDITIVE ALTERNATE NO. 1 – ADDITIONAL TRACTOR

- _____ 1. Tractor shall be able to operate in a minimum 4” diameter pipeline with enough clearance to negotiate offsets and debris.
- _____ 2. Tractor shall be no longer than 14” in length. Any tractors longer than 14” shall be deemed unacceptable.
- _____ 3. Tractor shall have anti-tilt compensation (ATC) that will automatically steer the tractor so that it does not ride up on the pipe wall and capsize.
- _____ 4. Tractor shall include wheel sets for 4”, 6”, and 8” diameter pipe.
- _____ 5. Tools and spare parts kit shall be provided for maintenance of tractor.

ADDITIVE ALTERNATE NO. 2 – LATERAL LAUNCH SYSTEM

- _____ 1. Lateral launch system shall be designed to launch from 6” through 18” diameter sewer lines into a 4” or larger lateral.
- _____ 2. Lateral launch system shall be designed to insert a sewer jetting hose in the launcher apparatus and launch the jetting hose into lateral for flushing sand, grit, and cutting roots.
- _____ 3. Lateral launch system shall be able to be supplemented with various wheel sets, a positioner height extension, auxiliary camera, and auxiliary LED lighting to launch in larger diameter pipelines.
- _____ 4. Lateral launch system shall be able to accept a flusher kit to position a water jet hose and clean lateral pipelines.
- _____ 5. Lateral launch attachment shall attach to the mainline crawler chassis for operation in lateral launch applications. The process to remove or install the lateral launch attachment shall take no longer than 15 minutes.
- _____ 6. When installed on a mainline crawler, the lateral launch attachment shall be able to operate in a minimum 6” diameter pipeline with enough clearance to negotiate offsets and debris.
- _____ 7. Lateral launch system shall be able to accept auto-up-righting straight view, pan & tilt, or steerable pan & tilt cameras for launch into laterals.
- _____ 8. When installed on a mainline crawler, the lateral system shall be no longer than 39” in length with a folding joint for ease of insertion. Any lateral system longer than 39” or without a folding joint shall be deemed unacceptable.
- _____ 9. Tools and spare parts kit shall be provided for maintenance of tractor.

CCTV SEWER INSPECTION VEHICLE

Company _____

BID NO. 27011-030316-1

Signature _____

BIDDER'S RESPONSE FORM

MESSAGE TO BIDDERS: Please review your bid documents for accuracy, completeness, required documentation, and necessary signatures before submitting. Please label the outer mailing/shipping package with the bid information as directed.

CCTV SEWER INSPECTION VEHICLE

BID PRICE: _____

MAKE/MODEL: _____

DELIVERY TIME: _____

ADDITIVE ALTERNATE NO. 1 – ADDITIONAL TRACTOR

BID PRICE: _____

ADDITIVE ALTERNATE NO. 2 – LATERAL LAUNCH SYSTEM

BID PRICE: _____

COMPANY NAME: _____

CONTACT PERSON: _____

COMPLETE MAILING ADDRESS: _____

AUTHORIZED SIGNATURE: _____

PRINTED NAME: _____

TELEPHONE NUMBER: _____ FAX NUMBER: _____

E-MAIL ADDRESS: _____

COPIES SUBMITTED:

_____ **VENDOR MUST SUBMIT AN ORIGINAL BID AND ONE COMPLETE COPY OR THE BID MAY BE REJECTED.**

NOTE: BY SIGNING THIS CONTRACT, THE CONTRACTING PARTIES AFFIRM, FOR THE DURATION OF THE AGREEMENT, THAT THEY WILL NOT VIOLATE FEDERAL IMMIGRATION LAW OR KNOWINGLY EMPLOY, HIRE FOR EMPLOYMENT, OR CONTINUE TO EMPLOY AN UNAUTHORIZED ALIEN WITHIN THE STATE OF ALABAMA. FURTHERMORE, A CONTRACTING PARTY FOUND TO BE IN VIOLATION OF THIS PROVISION SHALL BE DEEMED IN BREACH OF THE AGREEMENT AND SHALL BE RESPONSIBLE FOR ALL DAMAGES RESULTING THEREFROM.

FAILURE TO COMPLETE ALL OF THE ABOVE WITH AN AUTHORIZED SIGNATURE MAY SUBJECT BID TO REJECTION.

NON-BIDDERS RESPONSE FORM

For purposes of maintaining accurate bidder's list and facilitating your firm's response to our invitation for bid, the City of Tuscaloosa is interested in ascertaining reasons for prospective bidders' failure to respond to invitations for bids. If your firm is not responding to this bid, please indicate the reason(s) by checking any appropriate item(s) below and returning this form to Mr. David Coggins, Purchasing Agent, 2201 University Blvd., Tuscaloosa, Alabama 35401. Failure to either submit a bid proposal or return this form may result in removal of your firm's name from our bidder's lists. Thank you for your cooperation.

We are not responding to this invitation for bid for the following reason(s):

___ Items or materials request not manufactured by us or not available to our company.

___ Our items or materials do not meet specifications.

___ Specifications not clearly understood or applicable (too vague, too rigid, etc.)

___ Quantities requested are too small.

___ Insufficient time allowed for preparation of bid.

___ Incorrect address used. Correct mailing address is:

___ Our branch/division handles this type of bid. Correct name and mailing address is:

___ Other reason(s): _____

Company Name: _____

Address: _____

City/State/Zip: _____

Signature: _____