

CITY OF CORALVILLE

1512 7th Street, Coralville, IA 52241 319-248-1740

STATE BELOW THE PRICE AND DELIVERY FOR ITEMS DESCRIBED HEREIN, BASED ON THE SPECIFICATIONS, TERMS AND CONDITIONS CONTAINED HEREIN.

SUBMIT BID TO THE CITY CLERK AT THE ADDRESS BELOW, BY THE TIME AND DATE SPECIFIED, IN A SEALED ENVELOPE CLEARLY MARKED WITH BID#, AS NOTED BELOW.

NO FAXED BIDS ACCEPTED.

REQUEST FOR BID – THIS IS NOT AN ORDER

DATE : Jan 10, 2019
BID#: **19-103, Purchase One (1) 44' AERIAL BUCKET TRUCK BODY**
BID OPENING: **2:00 PM, January 31, 2019**
Lobby Conference Room, City Hall, 1512 7th St, Coralville, IA
DELIVERY ON OR BEFORE: 300 days after award of bid.
F.O.B.: City of Coralville, Streets Department
750 Camp Cardinal Blvd, Coralville, IA 52241

COST SUMMARY:

1. YEAR/MAKE/MODEL: _____

2. COST:

EACH

TOTAL

1) Purchase and Install: One (1) 44' Aerial Bucket Truck Body \$ _____ \$ _____

3. DELIVERY: If awarded the contract of the above bid, we agree to deliver equipment on or before _____,
if formal order to proceed is received by _____.

Name of Firm: _____

Address: _____

Name & Title of Representative: _____

Signature of Representative: _____

E-Mail Address: _____ Web Site Address: www. _____

Date Signed: _____ Date Bid Expires: _____ Phone No. _____ Fax No. _____

Streets Superintendent:
Eric Fisher
efisher@coralville.org
319.248.1740

Submit Bid to: City of Coralville
Attn: City Clerk
Bid # : 19-103
1512 7th St.,
Coralville, IA 52241

Section I. SPECIFIC CONDITIONS AND INSTRUCTIONS TO THIS PROPOSAL
BID #19-103, PURCHASE ONE (1) 44' AERIAL BUCKET TRUCK BODY

A. Scope of Contract:

The City of Coralville intends to purchase ONE (1) NEW AND UNUSED CURRENT MODEL YEAR 44' AERIAL BUCKET TRUCK BODY to be used by the Streets Division per the terms and conditions and minimum specifications described herein. 44' AERIAL BUCKET TRUCK BODY shall be completely installed and made fully operational on a 2019 Ford F550 cab/chassis supplied by the City of Coralville. All transportation, installation and delivery charges shall be included in the bid price. The SPECIFIC CONDITIONS AND INSTRUCTIONS FOR THIS BID in Section I and the DETAILED SPECIFICATIONS in Section II.

The City reserves the right to consider not only the bid price but also the ability of the vendor to provide service and parts for the vehicle(s)/equipment.

B. Delivery:

1. The Vendor shall coordinate delivery with the Streets Superintendent.
2. Delivery of the new vehicle(s)/equipment is required on or before December 20, 2019 unless another date is mutually agreed upon. Vehicle(s)/equipment shall be completely operational and ready for service when delivered to the City of Coralville Streets Division.
3. At the time of delivery, vendor shall certify that the vehicle(s)/equipment meet all applicable State and Federal Motor Safety Vehicle and OSHA Safety Standards.

C. Bidding Requirements:

1. If any bidder is in doubt as to the intent or meaning of any part of this Request for Bid, the vendor must e-mail the City Representative listed on page three (3) no later than **January 24, 2019, 3:00 p.m. (local time)**. All questions must be in written form to receive a response.
2. Bidders are not required to bid on all options for their bid to be considered.
3. No bid security will be required.
4. **The following items must be included in the bidder's submitted bid.** The City reserves the right to reject any bid that does not contain the following items:
 - a. Completed and signed COST SUMMARY, Page 1.
 - b. Completed DETAILED SPECIFICATIONS, Sec. II.
 - c. Manufacturer's catalogs, specifications sheets, or other literature, giving full detailed information on vehicle(s)/equipment bid. The vehicle(s)/equipment shall be identified in the catalog, specification sheets, or literature by model and number.
 - d. Manufacturer's warranty literature (engine and power train as well as entire vehicle).
5. The bidder is responsible for all costs related to preparation of this bid.
6. Bidders are required to meet all qualifications and specifications in order to be considered for award.

7. The submission of this bid implies the vendor's acceptance of the terms and conditions of this bid, unless otherwise stated.
8. All costs for manufacturing, shipping and delivery shall be included in the vendor's bid price. Any costs associated with the manufacturing and delivery of the vehicle(s)/equipment not included in the vendor's submitted pricing will be the responsibility of the vendor.
9. The awarded vendor shall provide all necessary labor, materials, equipment, and travel to supply and deliver the vehicle(s)/equipment.
10. All shipments shall be FOB destination (Coralville Street Department, 750 Camp Cardinal Blvd, Coralville, IA 52241)
11. The City is not responsible for delays occasioned by the U.S. Postal Service, the internal mail delivery system of the City, or any other means of delivery employed by the bidder. Similarly, the City is not responsible for, and will not open any bid responses which are received later the date and time stated on page 1.

D. Contract Award:

1. The vendor's submitted bid must be complete to be considered for award.
2. Award of this contract will be made to the lowest responsive, responsible bidder whose bid, conforming to the solicitation, will be the most advantageous to the City of Coralville. Past performance of the bidder and completeness of the bid will be considered for award.
3. The City reserves the right to qualify, accept, or reject any or all vendors as deemed to be in the best interest of the City. The City of Coralville reserves the right to accept or reject any or all bids and to waive irregularities or technicalities in any bids when in the best interest of the City. The City of Coralville reserves the right to accept or reject any exception taken by the vendor to the terms and conditions of the Request for Bid.
4. It is the intent of the City to make an award, in the form of a Purchase Order, within fourteen (14) working days of the bid opening date.
5. Award, if made, will be in accordance with the terms and conditions herein.
6. Consideration may be given to delivery date, anticipated parts and service, analysis and comparison of vehicle(s)/equipment specifications details, and past experience of the City with similar or related vehicle(s)/equipment.
7. Awarded vendor shall provide training for the operation and maintenance of the unit and all equipment contained on the unit.
8. Awarded vendor will be given the City's contract compliance document to complete and return within thirty (30) calendar days of contract award, if the contract award meets or exceeds \$25,000.

QUESTIONS: **Detailed Specifications and Equipment Purchasing**
Eric Fisher
Streets & Solid Waste Superintendent
750 Camp Cardinal Blvd
P.O. Box 5127
Coralville, IA 52241
efisher@coralville.org
(319) 248-1740

SECTION II. DETAILED SPECIFICATIONS
BID #19-103, PURCHASE ONE (1) 44' AERIAL BUCKET TRUCK BODY

Bidder shall complete every item in these specifications with a check mark to indicate if the item **MEETS**, **EXCEEDS**, or **DOES NOT MEET** specification. Also include a description under COMMENTS to indicate any deviation from the specifications OR where additional information is requested.

Bidder shall state any or all exceptions to these specifications. Failure to state exceptions shall indicate compliance with all specifications. Failure to state exceptions when they exist shall result in disqualification of the bid.

Minimum Specification	Meets	Does Not Meet	Exceeds	Comments
1. General Specifications				
44' telescopic articulating aerial device with an insulating lower arm, insulating telescopic upper boom and a dielectrically tested insulating control handle, with upper control isolation system at the boom tip, for installation behind chassis cab, built in accordance to these standard specifications and to include the following features:				
Working height – 49'				
Maximum reach to edge of platform: 30'				
2. Lift				
<u>Extension Boom:</u> The inner boom shall be made from 5" x 7" fiberglass tubing. The inner wear pads must be of threaded adjustable UHMW polyethylene. A hydraulic cylinder shall accomplish the telescopic action of the extension boom. The use of chains or cables to extend is not acceptable. A polyethylene sleeve shall be placed over the basket end of the extension cylinder to increase the distance of dielectric integrity. The polyethylene sleeve shall be certified for 50KV.				
<u>Articulating Arm:</u> The Articulating arm shall be made from 6" x 6" square high strength steel tubing. The articulating arm movement shall be from 0° to +80° from horizontal. The articulating arm shall be compensating in design to maintain constant main boom angle during the elevation of the articulating arm.				
<u>Pedestal:</u> The pedestal shall be a structural box shape and include the hydraulic reservoir, electrical and hydraulic components. An adequate opening shall be provided by a door or cover to allow access to the internal components. A hydraulic reservoir fill indicator shall be clearly visible and labeled to indicate the condition of the oil level. The pedestal shall be machined flat for installation of the shear ball rotation bearing. The pedestal structure must be of a single piece design and bolted directly to the lift subframe. Risers and spacers are not acceptable.				
<u>Boom Support:</u> A boom support shall be provided to support the aerial lift booms in the transport position. An over-center clamping device, shall secure the booms to the support for road transport.				

Minimum Specification	Meets	Does Not Meet	Exceeds	Comments
<p><u>Turntable:</u> The turntable shall be constructed of high strength structural plate. The turntable shall be designed to resist all torque loads. All pivot points for the booms and cylinders shall be line bored to allow for proper alignment. A 17" diameter shearball rotation bearing is required. Bearing races shall be heat-treated and sealed to prevent entry of dirt and moisture and be equipped with readily accessible pressure (zerk) lubrication fittings. The rotation shall be driven by a worm gear, reduction gearbox. A means of adjustment shall be included to provide for proper gear backlash. The rotation system will be self-locking in the event of hydraulic failure. The input shaft shall be machined with an extended hexagon design to allow for manual rotation. Rotation will be continuous.</p>				
<p><u>Continuous Rotation:</u> The rotation shall be continuous in either direction. A rotation manifold shall provide 10 individual ports; 4 for hydraulic and 6 for pneumatic flow. Each port shall be separated by o'rings. The inner core of the manifold should be attached to the turntable and allow for maintenance of all hoses without removing guards for service or inspection. The outer case should be attached securely to the pedestal to prevent rotation.</p>				
3. Hydraulics & Controls				
<p>The hydraulic system shall be designed as an open center hydraulic system. All hydraulic components including the 10-gallon hydraulic reservoir shall be housed with-in the aerial lift pedestal. The reservoir must be equipped with a drain plug, filler cap, air filter vent, sight level gauge, baffle system and shut-off valve at the outlet. A 10-micron return filter shall be installed as close to the reservoir as possible and must be accessible for maintenance. A pressure relief valve must be built into the system to prevent overload. The pressure relief must be set at 2250 P.S.I.</p>				
<p>Aerial device shall be equipped with basket and turntable mounted control stations. Individual control levers at both the upper control station and the lower control station shall automatically return to neutral position when released.</p>				
<p>The turntable mounted lower control valve overrides the upper control valve. It shall be capable of maintaining override of the upper control valve while unattended.</p>				
<p>Vane or gear type hydraulic pump installed in conjunction with power takeoff. Pump shall produce 5 GPM or more.</p>				
<p>The hydraulic system will also include a 12-volt D.C. emergency backup system. The D.C. motor and pump delivers 1.4 GPM or more.</p>				
<p>All hydraulic hoses shall be placed within a cable track located inside of the main boom. Hoses shall be protected against abrasion, twisting, and normal wear.</p>				
<p>Hydraulic hoses shall have a 4 to 1 safety factor from operating to burst pressure.</p>				

	Minimum Specification	Meets	Does Not Meet	Exceeds	Comments
	<p><u>Hydraulic Cylinders:</u> The main boom double action lift cylinder shall have a minimum 3-1/2" bore. The extension boom double action cylinder shall have a minimum 2" bore. The articulating arm double action cylinder shall have a minimum 4-1/2" bore. Holding valves shall be attached to each cylinder to prevent boom creep and to lock the cylinders in the event of line failure. Hydraulic cylinders shall have welded and threaded end caps for maximum safety. Piston shaft shall be highly polished chrome finish.</p>				
4. Basket					
	<p><u>Bottom mounted basket:</u> The basket shall be 24" X 30" X 42" square molded fiberglass. Entry is gained by an inner/outer molded step. The basket shall be completely enclosed and shall not have any holes for drainage or otherwise. The basket shall be automatically leveled as the main boom raises. The hydraulic basket leveling shall incorporate two enclosed loop, leveling cylinders, and appropriate valving. A control valve to stow/trim the basket shall be located at the upper controls and is optional at the lower override controls. The basket stow requires simultaneous activation with the locking valve to prevent inadvertent movement. A hydraulic basket rotator shall rotate the basket 180° about the end of the boom from curbside to streetside. A control valve located at the upper controls shall control the rotation.</p>				
	Basket shall have a weight rating of 350lbs or more				
	A basket cover shall be provided that completely covers the top molded lip of a standard 24" X 30" X 42" basket. The cover must be of a good quality vinyl material and shall include an elastic cord or band to keep the cover secured to the basket. A strap with latching hook shall be permanently attached to the cover to allow for securing to the boom tip, preventing accidental loss.				
5. Vertical Outriggers and Subframe					
	(4) Hydraulic activated outriggers shall be attached to the frame of the chassis. 2 shall be located between the cab and the body. 2 shall be located between the body and the tailshelf. A subframe attached to the frame of the truck shall secure the outriggers and the aerial lift to form one integral mount. The outriggers shall have a minimum vertical travel clearance of 18". The outrigger legs shall consist of inner and outer telescoping structural tubing. Adjustable, polyethylene wear pads, to prevent wear and vibration during road transport shall center the inner and outer tubes.				
	(4) 24x24x2" HDPE outrigger pads with rope style handle shall be provided. Each pad shall have a separate aluminum pad holder mounted under the body next to each outrigger.				

	Minimum Specification	Meets	Does Not Meet	Exceeds	Comments
	The hydraulic cylinders shall be double action heavy duty welded with threaded end caps for maximum safety. The piston is to be made of aluminum with square bi-directional seals made of polyurethane material and a highly polished chrome finish shaft. Holding valves shall be attached to each cylinder to prevent creep and to lock cylinders in case of line failure.				
	A manual diverter valve directs flow from the lift to the outriggers. Controls for each cylinder will be supplied and mounted at the rear of the chassis so the outrigger legs can be seen when in use.				
6. Miscellaneous					
	All boom pivot points shall be constructed of high alloy steel (130,000 PSI yield strength minimum). All pins shall require a Nitrotech furnace treatment. The pin results in a hardness range of Rc 64 to 71 with a finish of 40-min. All pivot points shall be equipped with replaceable fiberglass reinforced teflon bearings. No lubrication shall be required.				
	<u>Manuals</u> : Two (2) Operator's and two (2) Maintenance/Parts manuals				
	<u>Paint</u> : Painted white with a powder coat paint process which provides a finish-painted surface that is highly resistant to chipping, scratching, abrasion and corrosion. Paint is electrostatically applied to the <i>inside</i> as well as outside of fabricated parts then high temperature cured prior to assembly ensuring maximum coverage and protection.				
	Structural warranty all of the following applicable major components is to be warranted for so long as the initial purchaser owns the product: Booms, boom articulation links, hydraulic cylinder structures, outrigger weldments, pedestals, sub- bases and turntables.				

Body and Accessories					
1. General Requirements					
	Brand FX 84" CA fiberglass body number BFXB84LS, or equivalent.				
	Designed for dual rear wheels.				
	Overall width 94".				
	Floor width 54".				
	Pack depth 20".				
	Pack height 42".				
	Mounting height 25".				
	Steel Treadplate bed floor.				
	3/16" smooth aluminum header panel.				
	Exterior finish standard bright white gel coat.				
	Bright white compartment interior.				
	(1) aluminum gas fill cup.				
	Rotary latches stainless steel.				

	Minimum Specification	Meets	Does Not Meet	Exceeds	Comments
	Type 304 stainless steel hardware.				
	Type 304 stainless steel door hinges.				
	Vinyl covered stainless steel cable door stops.				
	Non-skid compartment tops.				
	Clear vinyl rock guards.				
	Automotive grade bubble gaskets.				
	One piece molded doors with automotive finish both sides.				
	Recessed door jambs.				
	Flow through ventilation system.				
	Light adaptor for specified chassis.				
	LED lighting package (stop/tail/turn, marker and reverse lights).				
	Full width 30" Steel tail shelf with curbside walkup stairs, stainless steel extruded grip step design.				
	Flexible rubber stainless steel extruded grip step mounted below rear side walkup. Full width of walkup.				
	Aluminum pool style grab handle mounted next to stairs.				
	Stainless steel grab handle installed on box next to stairs.				
	Mud flaps behind rear wheels.				
	Extend frame to rear for hitch.				
	Splash guards for rear wheels.				
	Recess mount rear vision OEM camera into tailshelf and integrate with OEM in dash LCD.				
	Tailboard channels installed at rear of bed made to accept standard 2x4 lumber.				
	Commercial grade spray-on bed liner, or equivalent. Applied to bed floor, bed floor side lips, and entire tailshelf.				
2. Streetside Compartments					
	Aluminum tool basket 126" Lx 18"W x 8" D mounted on top of saddle pack curbside.				
	Front, second, and rear vertical compartments shall have 2 full width adjustable divider shelves.				
	Third horizontal compartment shall have 1 full width adjustable divider shelf.				
3. Curbside Compartments					
	Front and second vertical compartments shall have 2 full width adjustable divider shelves.				
	Third horizontal compartment shall have 1 full width adjustable divider shelf.				
	(28) Dividers for shelves				
	Rear vertical compartment shall have 5 locking swivel hooks. Hooks shall be placed with 1 on each sidewall and 3 on the back wall within the compartment. All hooks shall be mounted 6" -8" from top of compartment interior.				
4. Hitch					
	2" Class V receiver hitch with 16,000lb rating or greater. Hitch shall be frame mounted flush with tailshelf.				
	(2) Safety chain d-rings and (1) breakaway eyebolt.				
	Combination RV style 7 blade and 4 pin flat trailer connector wired to intergrated oem brake controller.				

	Minimum Specification	Meets	Does Not Meet	Exceeds	Comments
5.	Lights				
	(1) 48" Ecco ED3315A, class 1 amber LED directional bar with left, right, center out, wig wag and alternating quad flash patterns. Light bar shall be recessed into the rear tailshelf and wired to in cab controller.				
	Ecco Safety Director controller shall be mounted close to upfitter switches with easy access and shall feature an led display that mimics the selected pattern.				
	(4) Ecco 3510 amber LED strobe lights 2 mounted in front grill , 2 on rear of tail shelf wired to upfitter switch.				
	(2) Ecco 7660 amber LED strobe lights installed on pedestals one per side at front of body. Final installed height to be above cab roofline. Must turn on with front and rear strobes.				
	LED compartment lights in all compartments wired to upfitter switch in the cab.				
	All body marker, tail, stop and turn lights shall be LED.				

6.	Electrical Connections (all connections must meet this standard)				
	All lighting used shall be, at a minimum, a two (2) wire light grounded through a wired connection to the battery system.				
	Wiring shall be run in loom where exposed, and have grommets or other edge protection where wires pass through metal.				
	Exterior exposed wire connectors shall be positive locking, and environmentally sealed to withstand elements such as temperature extremes, moisture and automotive fluids.				
	All wire ends not placed into connectors shall be sealed with a heat shrink end cap.				
	Wires without a terminating connector or sealed end cap shall not be allowed.				
	All holes made in the body shall be caulked with silicon (no exception).				
	Corrosion preventative compound shall be applied to non-waterproof electrical connectors located outside of the cab or body. All non-waterproof connections shall require this compound in the plug to prevent corrosion and for easy separation of the plug.				
	Any lights containing non-waterproof sockets in a weather-exposed area shall have corrosion preventative compound added to the socket terminal area.				
	Rubber coated metal clamps shall be used to support wire harnessing and battery cables routed along the chassis frame rails.				
	Heat shields shall be used to protect harnessing in areas where high temperatures exist. Harnessing passing near the engine exhaust shall be protected by a heat shield.				

	Minimum Specification	Meets	Does Not Meet	Exceeds	Comments
	For ease of identification, battery cables shall be color coded. All positive battery cables shall be red in color or wrapped in red loom the entire length of the cable. All negative battery cables shall be black in color.				
	Wire connections shall be made using crimp style heat shrink butt splice connectors or soldered connection covered with heat shrink. If crimp style connector is used, crimping tool Westward 13H876 or equivalent must be used to prevent piercing heat shrink. Solder sleeve butt splice type connectors shall not be allowed.				
7. Miscellaneous					
	Include 8 hours of mechanic and operator training as requested by the City. This program will include ANSI and OSHA requirements related to the proper use and operation of this unit.				
	Supply copy of manufacturer's warranty with bid.				

Description	Firm Fixed Price
Price for one (1) 44' Aerial Bucket Truck Body per the specifications	\$

Aerial Manufacturer _____ Model _____

Estimated Delivery Time Upon Receipt of Purchase Order _____ Calender Days

Dealer Name _____

NOTE: The Bid MUST be submitted by a licensed dealer.

Dealer Representative Signature _____ Date _____

DELIVERY ADDRESS	BILLING ADDRESS
Eric Fisher City of Coralville 750 Camp Cardinal Blvd Coralville, IA 52241	Eric Fisher City of Coralville P.O. Box 5127 Coralville, IA 52241