

CITY OF MCCOOK

BID SPECIFICATIONS

**ONE (1) NEW 4-WHEEL DRIVE
AIRPORT RESCUE AND FIREFIGHTING
(ARFF) VEHICLE**

MARCH 6, 2023

NOTICE TO BIDDERS

The City of McCook is accepting sealed bids for one (1) new 4-wheel drive Airport Rescue and Firefighting (ARFF) Vehicle. Bids will be accepted by the City Clerk at the McCook City Offices until 2:30 P.M. on March 28, 2023 and then such bids shall be publicly opened and read aloud in the City Council Chambers, McCook Municipal Center. Specifications and instructions to bidders are on file in the office of the City Clerk.

The Council reserves the right to reject any or all bids and to waive any irregularities.

-s- Lea Ann Doak
 City Clerk
 P.O. Box 1059
 505 West "C" Street
 McCook NE 69001-1059

Publish: March 10, 17, and 24, 2023.

INSTRUCTIONS TO BIDDERS

1. Defined Terms.

Terms used in these Instructions to Bidders have the meanings indicated below which are applicable to both the singular and plural thereof.

- 1.1. Bidder - one who submits a Bid directly to the City as distinct from a sub-bidder, who submits a bid to a Bidder.
- 1.2. Issuing Office - the office from which the Bidding Documents are to be issued and where the bidding procedures are to be administered.
- 1.3. Successful Bidder - the lowest, responsible and responsive Bidder to whom the City (on the basis of the City's evaluation as hereinafter provided) makes an award.
- 1.4. Bidding Documents - includes the Advertisement or Invitation to Bid, Instructions to Bidders, and the Bid Form.

2. Qualifications of Bidders.

To demonstrate qualifications to perform the Work, each Bidder must be prepared to submit within five days after Bid opening upon the City's request detailed written evidence such as financial data, previous experience, present commitments and other such data as may be called for.

3. Interpretations and Addenda.

- 3.1. All questions about the meaning or intent of the Bidding Documents are to be directed to Marc Harpham, Fire Chief. Interpretations or clarifications in response to such questions will be issued by Addenda mailed or delivered to all parties recorded by the Clerk as having received the Bidding Documents. Questions received less than ten days prior to the date for opening of Bids may not be answered. Only questions answered by formal written Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.
- 3.2. Addenda may also be issued to modify the Bidding Documents as deemed advisable by the City.

4. Bid Form.

- 4.1. The Bid Form is included with the Bidding Documents.
- 4.2. All blanks on the Bid Form must be completed by printing in black ink or by typewriter.
- 4.3. The Bid shall contain an acknowledgment of receipt of all Addenda (the numbers of which must be filled in on the Bid Form).
- 4.4. The address and telephone number of communications regarding the Bid must be shown.

5. Submission of Bids.

Bids shall be submitted at the time and place indicated in the Advertisement for Bid and shall be enclosed in an opaque sealed envelope, marked with "*BID ON ONE (1) NEW 4-WHEEL DRIVE ARFF VEHICLE*", and name and address of Bidder. If the Bid is sent through the mail or other delivery system the sealed envelope shall be enclosed in a separate envelope with the notation "BID ENCLOSED" on the face of it.

6. Modification and Withdrawal of Bids.

Bids may be modified or withdrawn by an appropriate document fully executed (in the manner that a Bid must be executed) and delivered to the place where Bids are to be submitted any time prior to the opening of Bids.

7. Opening of Bids.

Bids will be opened and (unless obviously non-responsive) read aloud publicly in the City Council Chambers, McCook Municipal Center. An abstract of the amounts of the base Bids and major alternates (if any) will be made available to Bidders after the opening of Bids.

8. Award of Bid.

- 8.1. Owner reserves the right to reject any or all Bids, including without limitation the rights to reject any or all nonconforming, nonresponsive, unbalanced or conditional Bids and to reject the Bid of any Bidder if City believes that it would not be in its best interest to make an award to that Bidder, whether because the Bid is not responsive or the Bidder is unqualified or of doubtful financial ability or fails to meet any other pertinent standard or criteria established by the City. The City also reserves the right to waive all informalities not involving price, time or changes in the Work and to negotiate contract terms with the Successful Bidder. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum. Discrepancies between words and figures will be resolved in favor of the words.
- 8.2. In evaluating Bids, the City will consider the qualifications of Bidders, whether or not the Bids comply with the prescribed requirements, and such alternates, unit prices and other data, as may be requested in the Bid Form or prior to the Notice of Award.
- 8.3. The City may conduct such investigations as the City deems necessary to assist in the evaluation of any Bid and to establish the responsibility, qualifications and financial ability of Bidders.
- 8.4. If the bid is to be awarded, it will be awarded to the Bidder whose evaluation by the City indicates that the award will be in the best interests of the City.

9. Delivery.

- 9.1. The Fire Safety Simulator, shall be F.O.B., McCook, Nebraska, and shall not include any federal excise or state sales tax.
- 9.2. A tax exemption certificate will be furnished by the City of McCook.

**BID SPECIFICATIONS
ONE (1) NEW 4-WHEEL DRIVE
AIRPORT RESCUE AND FIREFIGHTING
(ARFF) VEHICLE**

CHASSIS

- F550 Crew Cab 4 x 4
- 6.7L Diesel
- 10-Speed Automatic Transmission
- Fire Rescue Prep Pkg.
 - 397 Amp Alternator
 - 7000 lbs. Max Front Springs/GAWR rating for configuration selected
 - Operator Commanded Regeneration (OCR)
- Payload plus upgrade package 19,500 GVWR
 - 4.88 Limited-slip rear-axle
- Power windows, locks, and mirrors
- 225/70R19.5 Traction tires x 6
- Engine Block Heater
- Vinyl seats
- Cruise Control
- Trailer Brake Controller
- AM/FM stereo/clock
- Skid plate package transfer case only
- Heating and Air Conditioning
- Cab steps
- Stainless steel Wheel Covers

CHASSIS OPTIONS

- Additional Leaf Springs
 - One additional set of rear leaf springs installed at the rear axle of the truck.
- Custom Console
 - Aluminum tread plate sides with a smooth hinged top.
 - Lid finished with a durable carbon fiber pattern wrap.

- The console designed to accommodate items such as siren controls, radio(s) and other various controls.
- Two cup holders provided at the rear of the console.
- NOTE: The final console layout will be approved by the City of McCook Fire Department
- Rear Receiver
 - Class 5 receiver.
 - 2" receiver tube installed at the rear.
 - Two safety chain attachment points.
 - Rated up to 16,000 lbs. gross trailer weight.
 - 1,600 lbs. tongue weight.
- D Rings
 - One pair of 5" wide D rings welded to the rear receiver.
 - Working load limit of 15,586 lbs. each.
- Master Disconnect Switch
 - Master disconnect wired through the chassis up-fitter Aux 1 switch in cab.
- Radio Installation
 - Radio mounted and wired in center console.
 - Antenna mounted and wired on roof of chassis cab.
- Trailer Plug
 - 12 volt 7 way RV style trailer connector.
- Chassis Data Label
 - Fluid date:
 - Engine oil
 - Engine coolant
 - Chassis Transmission Fluid
 - Pump Transmission Lubrication Fluid
 - Pump Primer Fluid (if applicable)
 - Drive Axle(s) Lubrication Fluid
 - Air Conditioning Refrigerant
 - Air Conditioning Lubrication Oil
 - Power Steering Fluid
 - Transfer Case Fluid (if applicable)
 - Front Tire Cold Pressure
 - Rear Tire Cold Pressure
 - Maximum Tire Speed Rating
- Manufacturer Body and Chassis Label
 - Chassis Data:
 - Chassis Manufacturer
 - Production Number
 - Year Built – Month Manufactured

- Vehicle Identification Number (VIN)
- Manufacturers weight certification:
- Gross Vehicle (or Combination) Weight Rating (GVWR or GCWR)
- Gross Axle Weight Rating, Front
- Gross Axle Weight Rating, Rear
- Warning Labels
 - NFPA 1906 warning labels will be provided and installed in the appropriate locations.
- Air Pack Seat – Officer
 - Tanker 450 SCBA seat with seat “Load and Lock”, 6” for/aft adjust, seat occupancy sensor, riser.
 - These seats are suitable for use in Ford F350, F450, F650, and F750.
- Chassis Cab Paint
 - Complete repainting of chassis cab.
- 12K Winch
 - Warn M12 12V heavyweight winch.
 - Vehicle mount 12,000 pound pull capacity, 125 ft. wire rope, handheld remote.
- Buckstop Bumper with Winch Mount
 - Buckstop replacement front bumper
 - Steel powder coat black
 - Winch mount
 - Grill guard

WET RESCUE

- 12 ft L x 65 in T Wet Rescue Body
 - Overall dimensions: 96” Wide x 150” Long x 65” Tall.
 - Longitudinal main frame: Minimum 5” Extruded aluminum C-channel Walls, Roof, and Floor Frame: Fully welded extruded aluminum rectangle tube.
 - Interior: 1/8” thick aluminum compartment sheeting over rectangle tube frame with Sweep-out floor design.
 - Compartments finished with Zolotone high impact resistant paint Roof, Door headers, front and rear wall of body: Polished aluminum diamond tread plate.
 - Gortite Rollup Doors with Anodized aluminum finish (Non locking unless otherwise specified).
 - Warranty: 10 years

BODY OPTIONS

- Undercoat

- Body undercoated with a rubberized, chemically formulated rust preventative undercoating.
 - Applied prior to installation of the body onto the chassis to avoid spraying the product on fuel lines, cables, or other items that would cause normal maintenance to be hindered.
- Mount Body
 - The body will be set on the chassis and fastened with grade 8 bolts and custom mounts. The aluminum body shall be separated from the steel chassis frame rails by a ¾" rubber separator for flex and to resist galvanic dissolution.
- D.O.T. Lighting, Fuel Fill, and Mud Flaps
 - All LED stop, tail, turn, corner, back-up and DOT lights.
 - A flush mount fuel fill for one tank located on the rear of the body.
 - (1) DEF tank fill port provided if necessary.
 - Rear tire mud flaps.
 - Lighted license plate holder located at the rear of the body.
 - Reflectors installed in accordance with federal motor vehicle safety standards.
- Grab Handles
 - 1 Pair (2) 30" Grab handles.
- Folding Step (5)
 - Folding step.
 - Chrome plated.
 - Zinc die cast.
 - Slip-resistant design that meets NFPA specification.
- Zico Pull Out Steps (6)
 - Heavy duty aluminum alloy and steel pull out and drop down step.
 - Powder coated.
 - 11" wide x 5" deep non-skid stepping surface, 8" drop.
 - Meets NFPA requirements for slip resistance and static load.
- Rescue – Sanded and Brushed Aluminum Finish
 - The Rescue body tubing between and below the roll up doors will be sanded and brushed to a uniform level.
- Turtle Tile for 12 ft Rescue
 - Turtle tile in the base of all compartments.
- Adjustable Polypropylene Shelf (6)

- ½" base and perimeter
- 2 ½" tall sides
- Reflective strip applied facing the exterior

STORAGE

- Nylon Net for Hose Tray or Pre-Connect
 - Nylon net with Velcro strapping for hose tray or pre-connect storage compartment.
- Trunion
 - Underbody long storage Trunion compartment.
 - Rear access storage located between the frame rails of the body.
 - Dimensions: 7 in. tall x 24 in. wide x 84 in. long MAX.
- Trunion Slide Out Tray
 - Trunion compartment polypropylene slide out tray.
 - Includes carry handles on all sides.
 - Tray can be removed from Trunion compartment.
 - Dimensions: 23" W x 82" L.
- Transverse open end coffin box
 - 96"W x 23"D x 10"T open end transverse storage top box.
 - Aluminum treadbrite box.
 - Double paddle latch located on the front of the box.
 - Gas shocks.

SLIDES (2)

- 18"D x 22"W Single Direction
 - Slidemaster SM3-MP steel slide.
 - Single direction.
 - 18"L x 22"W.
 - 600 lb capacity.
 - 100% extension with tray.

WATER TANK

- 300 Gallon Tank
 - 300 gallon custom built polypropylene tank.
 - 3" suction
 - 1.5" fill
 - Sight glass
 - 8" x 8" fill tower
 - 3" overflow
 - ¾" floor, ½" walls, 3/8" baffles

- Booster reel mounts
- Tank bolt down tabs
- Tank lifting lugs
- Color: black
- Lifetime warranty
- 25 Gallon Foam Cell
 - Integrated 25 gallon foam cell.
 - 8" x 8" fill tower with locking lid.

TANK LEVEL GAUGES

- Water Tank Level Gauge – Large
 - Large Fire Research Corp. (FRC) LED water level gauge.
 - Flashing warning when tank level is below 25% .
 - Down chasing LED lights alert when tank is almost empty.
 - Rugged waterproof cast aluminum housing.
- Foam Tank Level Gauge – Large
 - Large Fire Research Corp. (FRC) LED foam level gauge.
 - Flashing warning when tank level is below 25%.
 - Down chasing LED lights alert when tank is almost empty.
 - Rugged waterproof cast aluminum housing.
- Mini Water Tank Level Gauge
 - Fire Research Corp. (FRC) LED water level – mini gauge.
 - Flashing warning when tank level is below 25%.
 - Down chasing LED lights alert when tank is almost empty.
 - Rugged waterproof cast aluminum housing.
 - NOTE: FRC mini gauge (model : WLA205-A00) must be used with a large water gauge. Cannot be used alone.
- Mini Tank Vision Class A Foam Gauge
 - Fire Research Corp. (FRC) LED Class A foam level – mini gauge.
 - Flashing warning when tank level is below 25%.
 - Down chasing LED lights alert when tank is almost empty.
 - Rugged waterproof cast aluminum housing.
 - NOTE: Tank vision Class A foam mini gauge (model: WLA265-A00) can only be used with a large Class A foam gauge. It cannot be used alone.

PUMP

- Dual Control Panel – Kubota
 - Dual control panel Kubota.

PLUMBING

- WB – 24K – HPX200 With Full Panel
 - Module frame support enclosure powder coated black.
 - Hale HPX – 200 pump.
 - Pump Material: Anodized aluminum alloy pump body, bronze impeller
 - Connections: Suction 3" NPT / 4" Victaulic
 - Discharge: 2 ½" NPT
 - Priming: 12V ESP primer
 - Max Flow: 250 GPM @ 50 PSI
 - Max Pressure: 100 GPM @ 150 PSI
 - Engine: Kubota D902 24.8 – HP 4 – cycle diesel engine
 - EPA Tier 4 emissions compliant
 - Electric Start
 - Pump Panel with light
 - Stainless steel manifold with 2" main waterway
 - Plumbed with Akron fire service valves
 - 1" Booster reel line
 - 1" Recirculate / fill line
 - 1 ½" Discharge with cap and chain
 - 2 ½" Tank to pump
 - 2 ½" Suction with plug and chain
- 1 ½" Cross – Lay Discharge
 - 1 ½" full port ball valve
 - 1 ½" swivel in cross – lay
 - 1 ½" supply hose to cross – lay
- 3" Electric Tank to Pump
 - 3" electric tank to pump valve will be installed at the tank suction.
- Master Drain 600 PSI
- Pump Cooler Line
 - Thermal Relief Valve, 3/8" NPT, 140°F, TRV, Brass
- Manifold Drain Valve
- Thermal Relief Valve
 - Thermal Relief Valve, 3/8" NPT, 140°F, TRV, Brass

EMERGENCY LIGHTING AND SIREN

- Rescue Package – Whelen Emergency Lighting

- 8-M6 flashers with chrome bezels. 2 forward facing grill, 2 DS header, 2 PS header, 2 upper rear.
 - 6-1x5 TLIR RED flashers with chrome bezels. 1 DS intersection side, 1 PS intersection side, 1 DS wheel well, 2 lower rear.
 - 1-HHS4206 siren control unit with mic.
 - 1-100 watt speaker.
 - 1-56" Justice series lightbar with Four Corner RED flashers, 6 forward facing RED flashers, 2 center takedowns, 2 Alley, permanent MKEZ7 body mount.
 - Dual M6 tail stack, stop/tail, turn, and reverse.
- Beacon
 - (2) Amber LED beacon flasher.

SCENE LIGHTING

- Surface Mount Scene Light – M6ZC (6)
 - Whelen surface mount Super – LED scene light model: M6ZC.
 - Gradient scene light with white light and clear lens.
 - Chrome trim ring included.
 - Can be mounted vertically or horizontally.
 - Measures 6 ¾" x 4 5/16" (with trim).
 - 2 amps.
- Whelen Pioneer Plus Single Panel (2)
 - Whelen Pioneer Plus LED light head (model PFH1P).
 - Custom side mount pole and bracket.
 - Light head is die-cast aluminum powder – coated housing, available in black or white.
 - 75 watt floodlight, 12 VDC, 6 amps.
 - Light head dimensions: 8" W x 4 ½" T x 3" D.

ELECTRICAL OPTIONS

- 20 Amp Battery Charger
 - Kussmaul 20-Amp charging system with auto-eject.
 - 091-207-12-194b LPC 20 charger.
 - 63-11-3106-BW-XXX Super Auto Eject cover with digital display.
 - Amperage/Voltage.
 - Auto eject color options: YW, RD, BL, WH, GY, BLK.
 - NOTE: LPC 20 charger with super auto eject with black wires red digital display cover is 50-83-1604.
 - 06 is yellow
 - 02 is black
 - 01 is blue
- 12 Volt Busbar

- 4 position 12 volt power and ground connection rated at 20 amps. (Optional hot all of the time or powered through the master switch).
- 120V Receptacle
 - 120V duplex receptacle wired to the shoreline. To receive power when the apparatus is plugged in.
- 12V Power Port
 - 12V power port for small device power in cab.
- Kussmaul USB-C & USB-A Power Port
 - Kussmaul brand dual USB-C & USB-A power port.
 - Installed in console area.
 - 63 watt max output allows charging of two devices at the same time.
 - USB-C 45 watt / USB-A 18 watt max.
 - Can be connected to 12V or 24V switched ignition or directly to battery.
 - Built-In LED Indicator indicates device is powered.
 - Reverse polarity protected.
 - Color: Black.

ELECTRICAL

- Low Voltage Alarm

GRAPHICS PACKAGE

- Lettering and Logo Front Cab Doors and 2 Body Door Lettering / Logo.
- Reflective Stripping.
 - Single color reflective stripping for cab and body.
- Large Rescue Chevron Smooth Stripe.
 - Red and Yellow smooth reflective chevron pattern on rear of body.

ARFF SKID

- Dry Chemical System 500 Pounds
 - 500 cu. ft. Dry chemical tank.
 - Twin Line dual agent electric rewind hose reel.
 - 100 ft. twin line hose.
 - Twin agent discharge nozzle for reel discharge.
 - 2 – 400 cu. ft. HP nitrogen cylinders.
 - 2 High volume regulators.
 - Control panel.
 - 12V quick opening discharge valve.

- Five Day Training
 - 5 days of ARFF Apparatus training at the department location.
- Power – Fill Foam Refill
 - DC powered system components include:
 - Concentrate pump and motor
 - Panel-mount operator control unit
 - Check valves
 - Side mount low-level sensor
 - Panel-mount flush valve
 - Placard and camlock intake connection
 - Stainless steel pick-up wand with 6' suction
- Hydrochem Turret Nozzle
 - Hydro Chem Dual agent nozzle for monitor.
- FAA 414 Testing
 - FAA 414 Testing section 6.3 and 6.4.
- FireFox ARFF Monitor
 - FireFox Style 3463 with UII Control System
 - 12V
 - 2" NPT Inlet
 - 1 ½" NH Outlet
 - 2' Monitor Harness
 - NOTE: CAN Multi-Function proportional joystick (60350012) Provides Stow/Deploy, Oscillation, High/Low flow, and Dry Chemical selection functions in addition to up/down.
- AFFF
 - 5 – Chemguard 6% C601MS AFFF 5-gallon pails.
- 50 Pound Bucket Purple K Dry Chemical
 - 10 – PKW 50 pound pails each.
- Lateral Accelerometer
 - Rollover Warning System.
 - Monitors "G" forces exerted on the vehicle in all three axes (lateral, axial, and vertical).
- Pump Enclosure
 - ARFF pump enclosure.
 - Aluminum square tube frame between the body and cab.
 - Cooling fans.
 - Access panels.

- TIC
 - Thermal Imaging Camera Components with 10.4" Monitor.
 - Connecting camera to DVR & using Video Out Monitor.
 - DVR is responsible for triggering camera views.
 - SV-THERM-362CS 388x284 19mm lens + 10X Optical Zoom.
 - BNC Cable Connecting Camera to Adapter Cable to Plug Into.

FOAM

- ATP Class B Foam System
 - Valve position selector.
 - Valve position table .
 - Instruction plate.
 - Foam concentrate induction rate: 30 GPM maximum.
 - Discharge flow rate: 10 – 1000 GPM maximum.
 - Proportioning ratio: 3% and 6%.

EQUIPMENT STORAGE

- SCBA Cylinder Storage
 - 2 - PLASTIC QUIC-STORAGE RACK with RESTRAINT STRAP.

BID FORM

NOTE: All equipment shall be factory-installed and shall be considered to be under factory warranty.

ONE (1) NEW 4-WHEEL DRIVE
AIRPORT RESCUE AND FIREFIGHTING
(ARFF) VEHICLE

\$ _____

DELIVERY DATE: _____

This Bid Submitted by:

(Company Name)

(Address)

(Signature)

(Title)

CONTACT PERSON: Fire Chief Marc Harpham
at 308/345-5710 or email at firechief@cityofmccook.com

The City of McCook reserves the right to reject any or all bids, to waive any informality in bids, to accept in whole or in part any bid, and to exercise its own judgement as to the best proposal received.