

MCCORMICK COUNTY EMERGENCY SERVICES



Request for Sealed Bid

Bidder Information:

McCormick County Emergency Service is accepting sealed bids to manufacture a new Ambulance. Bids will be accepted on 09/12/2024 at 10.00am at the McCormick County Administration Offices. Sealed bids shall be submitted to:

David Leathers, Finance Director
610 S. Mine Street
McCormick, SC 29835

Questions concerning the specifications on the construction shall be directed to:

Jason Brown, Director
(864)852-2811
Or
Stephen Kitchens
(803)215-9568
McCormick County Emergency Services
608 South Mine St
McCormick, SC 29835

EMERGENCY MEDICAL CARE VEHICLE – TYPE 1

Section 1: Scope, Purpose, and Classification

- 1.1 Scope: These specifications cover the manufacture of a commercially produced, surface medical care vehicle, hereinafter referred to as an ambulance or vehicle. A vehicle in compliance with these specifications shall be defined as a standard ambulance. These vehicles shall be in accordance with the Ambulance Design Criteria of the National Highway Traffic Administration, U.S. Department of Transportation. These bid specifications are based on the Federal Ambulance Specification KKK-A-1822F or the latest revision.
- 1.2 Purpose: The purpose of this document is to provide minimum specifications and test parameters for the manufacture of an emergency medical care vehicle that meets the needs and desires of McCormick County Emergency Services. It establishes essential criteria for the design, performance, equipment and appearance of the vehicle. The object is to provide a vehicle that is in accordance with nationally recognized guidelines.
- 1.3 Classifications: These specifications call for the following type of vehicle. It is in accordance with KKK-A-1822F.

Type 1 - Integral Cab Chassis with modular ambulance body.
Two rear wheel driven (4x2)
Configuration A (ALS) – Elevating cot and squad bench (3.1.5.1)

- 1.4 General: These are engineer, design, construct and deliver type specifications and it is, not the intention of McCormick County Emergency Services to write out vendors of similar or equal equipment of the types specified. It should be noted, however, that these specifications are written around specific needs of McCormick County Emergency Services. With the intent to standardize certain components, therefore, in numerous places we have named specific brands of components. This has been done to establish a certain standard of quality. Other brands will only be accepted providing the bidder provides documentation in the bid that the particular brand offered meets or exceeds the quality of the actual brand called for in these specifications.
- 1.5 Materials: The emergency medical care vehicle, chassis, ambulance body, equipment, devices, medical accessories and electronic equipment to be delivered under this contract shall be standard commercial products, which meet or exceed the requirements of these specifications. The ambulance shall comply with all Federal Motor Vehicle Safety Standards (FMVSS), the Federal regulations applicable or specified for the year of manufacture. The chassis, components and optional items shall be as represented in the manufacturer's current technical data. Materials used in the construction shall be new and not less than the quality conforming to current engineering and manufacturing practices. Materials shall be free of defects and suitable for service intended.
- 1.6 Manufacturing Ability: It is the intent of these specifications that the manufacturer of these vehicles have the ability to manufacture a complete ambulance within their plant facility, except for the chassis.
- 1.7 Reference: As further evidence of manufacturers' ability to perform, the contractor shall submit a list of ten (10) customers with type 1 constructions. The references shall also include name of service, address, contact person and phone number.
- 1.8 Exceptions to Specifications: Any exceptions to these specifications indicated must be clearly pointed out. Otherwise, it will be considered that items offered are in strict compliance with these specifications and the successful bidder will be held responsible for delivering a vehicle meeting these specifications. Any exceptions must reference by paragraph number and line and be explained in detail on a separate sheet marked "Exceptions/Clarifications".
- 1.9 Warranty: The successful bidder shall provide manufacturer's warranty coverage for the ambulance conversion, which coverage shall, at a minimum include:
- (A) A Limited Warranty shall be provided on the ambulance construction. The manufacturer shall warrant to the original retail purchaser that, for a period of thirty six (36) months or one hundred thousand (100,000) miles from the point of delivery, whichever occurs first, the ambulance construction shall be free of substantial defects in materials and workmanship, which are attributable to Warrantor's construction work and which arise during the course of normal use and service. There must be a copy of the Warranty statement included with the bid documents.
- (B) There shall be a ten (10)-year/100,000 minimum mile warranty on the ambulance electrical wiring system effective starting the date McCormick County Emergency Services accepts delivery of the completed vehicle. It is the intent of this requirement that items not manufactured or installed by the ambulance manufacturer shall be excluded. There must be a copy of the Warranty statement included as part of the bid documents.

(C) There shall be a FIVE (5) year unlimited mileage paint warranty covering the ambulance construction and any painting done to the chassis. There must be a copy of the Warranty statement included with the bid.

(D) Warranty on the chassis portion of the completed ambulance shall be the responsibility of the chassis manufacturer. The terms of such warranty are set forth in the Warranty literature included in the owner's manual. The successful manufacturer's sole responsibility with regard to the chassis shall be to provide reasonable assistance to the purchaser in obtaining warranty from the chassis manufacturer or its authorized service center.

- 1.10 Delivery: The construction process must be completed within 120 days after ford chassis is received by awarded bidder. The delivery schedules that are submitted by the Bidder and agreed upon by McCormick County Emergency Services shall automatically become binding upon signing of the Contract by the successful bidder. Final payment to be made 30 days after final acceptance.
- 1.11 All bids shall be valid for 120 days from date submitted.
- 1.12 All bids shall include truck drawings.
- 1.13 All bidders shall meet **Ford Qualified Vehicle Modifier (QVM)** requirements.
- 1.14 Awarded bidder must provide a minimum of 3 customer inspections. Including a chassis inspection, and mid-build inspection, and a final inspection at manufacturing facility.

Section 2: TECHNICAL REQUIREMENTS – CHASSIS

Minimum technical specifications for the purchase of an Ambulance Module mounted on a 2024/2025 FORD F-550 SUPER DUTY, SUPER CAB, DRW, DIESEL with Ambulance Prep Package chassis with D. Vehicle must comply with Federal and State laws and regulations and all safety regulations as applicable on date of delivery concerning automotive equipment and conditions and will be complete with standard equipment and all extra equipment as specified.

2.1 **Manufacturer and Model Year:**

The chassis requirement for these specifications is a 2024/2025 model.

2024 Model	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
2025 Model	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
Did your bid comply?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No

2.2 **Model Type:**

The model type required is a the model type required is a 2024/2025 FORD F-550(4X2) SUPER DUTY, SUPER CAB, DRW, DIESEL, Dual Fuel tanks, XLT package.

Does your bid comply? Yes No

2.3 **Trim Level:**

Trim level shall be "XLT" Equipment Package. **Rubber floor covering in place of carpet.**

Does your bid comply? _____ Yes _____ No

2.4 **Ambulance Prep Package:**

The chassis shall be equipped with the ambulance builder's prep package, light and convenience group and handling package.

Does your bid comply? _____ Yes _____ No

2.5 **GVWR:**

The gross vehicle weight rating shall be 15,000 lb. minimum.

Does your bid comply? _____ Yes _____ No

2.6 **Axles and Suspension:**

The chassis provided shall be a 189" wheel base, heavy-duty front and rear springs with front stabilizer bar. Shock absorbers shall be heavy-duty. Rear axle is limited slip. Rear wheels to be dual. Appropriate size Liquid Spring system shall be installed to allow rear of unit to lower for stretcher loading.

Does your bid comply? _____ Yes _____ No

2.7 **Electrical:**

The vehicle shall be supplied with appropriate number of batteries. They shall be standard OEM Heavy Duty Batteries with appropriate CCA.

Does your bid comply? _____ Yes _____ No

2.8 **Electrical Generating System:**

The ambulance shall be equipped with OEM dual alternators with a minimum of 350amp output with internal voltage regulators.

Does your bid comply? _____ Yes _____ No

2.9 **Engine:**

Engine size shall be a 6.7L Power Stroke Diesel V-8 engine with heavy-duty engine oil cooler.

Does your bid comply? _____ Yes _____ No

2.10 **Engine Block Heater/Battery Charger/Shore Line:**

The chassis shall have an OEM engine block heater.

- (A) The block heater shall be wired to the 110 V Shoreline.
- (B) The ambulance shall be equipped with battery charger also connected to the shore line
- (C) The truck shall also include an inverter.

Does your bid comply? _____Yes _____ No

2.10 Engine High-Idle Speed Control, Automatic:

The vehicle shall be equipped with an OEM Auxiliary High Idle System.

Does your bid comply? _____Yes _____ No

2.11 Fuel Tank:

The vehicle shall be equipped with dual fuel tanks with a minimum of 66 gallon capacity.

Does your bid comply? _____Yes _____ No

2.13 Tires and Rims:

The vehicle shall be equipped with seven (7) LT225/75Rx19.5G Radial black sidewall tires. The OEM manufacturer's standard steel vented rims will be provided. The four (4) exposed wheels shall be covered with stainless steel wheel covers with valve stem extension. Spare tire, wheel and tire changing tools will also be provided as a loose accessory.

Does your bid comply? _____Yes _____ No

2.14 Transmission:

The vehicle to be supplied with a TorqShift 10-speed SelectShift automatic with overdrive/tow haul and heavy-duty transmission oil cooler. There is to be installed a DRIVE SHAFT GUARD on the drive line.

Does your bid comply? _____Yes _____ No

2.15 Air Conditioning and Heater:

The vehicle shall be equipped with factory air conditioning with heavy-duty cooling package and heavy-duty radiator. The heater shall be the manufacturer's standard with cut-off valves accessible. The system shall include climate control with vacuum operation valves.

Does your bid comply? _____Yes _____ No

2.16 Hoses:

All radiator and heater hoses to be high quality, same as OEM throughout vehicle (**NO EXCEPTIONS**).

Does your bid comply? _____Yes _____ No

2.17 Auxiliary Heater-A/C Connector Package:

The chassis shall be equipped with auxiliary Heater-A/C connector package included with the Ambulance Prep package.

Does your bid comply? _____Yes _____ No

2.18 **Glass:**

The chassis shall be equipped with the chassis manufacturer's standard tinted glass supplied as part of their Air Conditioning Cooling Package. The glass provided shall meet all the requirements of KKK-A1822D and those of the Federal Motor Vehicle Safety Standards.

Does your bid comply? Yes No

2.19 **Horns:**

The OEM manufacturer's dual electric horns shall be provided.

Does your bid comply? Yes No

2.20 **Mirrors:**

The vehicle's exterior mirrors shall be ford heavy duty power mirrors.

Does your bid comply? Yes No

2.21 **Radio:**

The chassis manufacturer's standard AM/FM/CD Stereo shall be included with a built-in clock.

Does your bid comply? Yes No

2.22 **Seats:**

The Chassis shall be equipped with dual captain's chairs with lap and shoulder belts and fold up armrests for driver and passenger.

Does your bid comply? Yes No

2.23 **Speed Control and Steering Wheel:**

Cruise speed control and tilt steering to be supplied.

Does your bid comply? Yes No

2.24 **Deluxe Package:**

Chassis shall include power door locks and power windows, interval select windshield wipers and black front bumpers. A "power unlock" switch shall be installed in the front grill..

Does your bid comply? Yes No

2.25 **Running Boards:**

Provide and install Two (2) new flared .125 aluminum running boards with grip strut inserts.

Does your bid comply? Yes No

2.26 **Wheel liners:**

Install stainless steel wheel covers with valve stem extensions.

Does your bid comply? _____ Yes _____ No

2.27 Spot Light:

Vehicle shall have a hand held spot light mounted in the cab of truck.

Does your bid comply? _____ Yes _____ No

Section 3: EXTERIOR BODY TRIM (NOTE: ALL HARDWARE SHALL BE BLACK.)

3.1 Fuel Fill:

Cast Product Fuel Fill, as well as DEF Fluid fill plates shall be installed. Below each shall be full height DTP spill plates.

Does your bid comply? _____ Yes _____ No

3.2 Diamond Plate:

Ambulance body must have all new exterior diamond plate. Use STAINLESS STEEL screws and loc-tite for attaching all diamond plate to the vehicle. Install as follows; 1 new rear kick plate, 4 corner guards and 2 splash guards. Note: Rear kick plate shall be attached using "rivnuts", no exception, this will be checked prior the acceptance.

Does your bid comply? _____ Yes _____ No

3.3 Rear Step and Bumper:

New rear bumper assembly includes; bumper tips and flip up grip strut step. Attach new bumper frame securely to chassis frame using 3 bolts minimum each side. Rear grip strut step shall include a new hinge. In addition, there shall be installed two (2) new Rubber Dock bumper, One (1) per bumper tip. There shall be two tow installed in rear bumper area.

Does your bid comply? _____ Yes _____ No

3.4 Grille Guard:

Full front black grill guard with 12,000 pound Warn Winch

Does your bid comply? _____ Yes _____ No

Section 4: MODULE EXTERIOR PAINT FINISH AND LETTERING

4.1 Preparation:

Paint shall be PPG and performed by a certified PPG facility. **Paint shall be warranted for (5) FIVE Years / Unlimited Miles.**

Does your bid comply? _____ Yes _____ No

4.5 Paint, Stripe and Graphics Package:

Base "BLACK" paint shall match the FORD chassis. Paint is Black over FORD Race Red. Stripes, lettering and decals to be white and black with pin striping. This section will require "McCormick County" on the sides of the box placed in a straight line.

Does your bid comply? Yes No

Section 5: Exterior Compartments:

5.1 Finish interior of exterior compartments with industry standard product.

Does your bid comply? Yes No

Section 6: ELECTRICAL SYSTEM

6.1 Switch Panel:

Install Front and rear switch panels. Panels shall include switches, Amp Meter, door and battery indicators.

Does your bid comply? Yes No

6.2 Power Panel:

Electrical system to meet KKK-1822-F. Check for 100% complete operation.

Does your bid comply? Yes No

6.3 Wiring Installation:

All new power wiring provided shall be copper and conform to all the SAE J1292 requirements and shall have GXL or SXL high temperature thermoplastic or better insulation rated to 125 degrees centigrade and conforming to SAE J1127 and J1128. Three new ground straps shall be installed.

Does your bid comply? Yes No

6.4 Wiring Labeling:

All wiring shall be permanently color-coded and function coded for easy troubleshooting.

Does your bid comply? Yes No

6.5 Wiring Loom:

The engine wiring shall be routed in conduit or high temperature looms with a rating of 300 degrees Fahrenheit. All added wiring shall be in protective loom, located in accessible, enclosed and protected locations, and kept at least six (6) inches away from the exhaust system components. Wiring and components shall not terminate in the oxygen storage compartment

except for the compartment light and door switch plunger. Wiring necessarily passing through an oxygen compartment shall be routed in metal conduit.

All conduits, looms and wiring shall be secured to the body or frame with insulated metal straps in order to prevent sagging and movement which results in chafing, pinching, snagging, or any other damage. All apertures on the vehicle shall be properly grommeted for pass thru wiring and conform to SAE 1292 and sealed with silicone weatherproof adhesive.

Does your bid comply? Yes No

6.6 Cab Wiring:

Install power distribution harness and battery cables. All wiring shall be warranted for 10 Years or 100,000 Miles.

Does your bid comply? Yes No

6.7 Tail Lights:

Install Whelen 600 series LED brake/tail, turn and reverse and LED ICC and Marker lights. Add load equalizers for LED turn signals. The 600 series taillights shall be mounted in black bezels.

Does your bid comply? Yes No

6.8 Module Warning Lights:

All Whelen LED lights are to be installed. All lenses shall be clear when in the off position. When activated the lights shall follow the pattern described below:

- (7) Front Upper Module – 900 Series - RED / CLEAR / RED / CLEAR / RED / CLEAR / RED
- (2) Right Upper Module – 900 Series – RED / RED
- (2) Left Upper Module – 900 Series – RED / RED
- (3) Rear Upper Module – 900 Series – RED / AMBER / RED
- (2) Rear Midline Module – 900 Series – RED / RED

Does your bid comply? Yes No

6.9 Intersection Lights:

Provide and install Whelen 700 Series LED intersection light with black flange.

Does your bid comply? Yes No

6.10 Grille Lights:

Provide and install two (2) new Whelen 700 Series RED LED lights with black bezels on OEM grille.

Does your bid comply? Yes No

6.11 Speakers/Siren:

A Whelen 295HFSC9 Dual Tone siren. Two (2) siren Speakers, 100 watt each, recessed into the front bumper. The siren shall have the hands free function wired to the horn button on the steering wheel. In addition, there shall also be a Federal EQ2B siren installed with additional speakers to operate independently of primary siren. Shall also be two (2) Stutter Tone(fire truck) air horns installed on drivers/passenger front fenders with an auxiliary switch on console to operate air horns. Rumlbers shall also be installed in appropriate locations.

Does your bid comply? _____Yes _____ No

6.12 Scene / Load Lights:

Add (8) Six Whelen 90COENZR-24 DIODE Scene Lights with black bezels. Passenger, driver, and rear lights will be wired to turn on when truck is placed in reverse. In addition 2 light shall be installed in the front of the box on the left and right sides forward facing.

Does your bid comply? _____Yes _____ No

6.13 Cab Console:

Install low profile, all aluminum covered floor-mounted console to house switch panel, siren and gauges. The console face also will provide areas for drink holders, 4 Glove Boxes, and radio head installation. Console shall be Scorpion Lined. Design to be worked out with McCormick County Emergency Services.

Does your bid comply? _____Yes _____ No

6.14 Door Switches:

All compartment shall have power locks that are connected to the chassis unlock switch in front grille or bumper.

Does your bid comply? _____Yes _____ No

6.15 Dome Lights:

Whelen LED lights. Minimum of Eight (8).

(a) Dome light configuration shall include a "time out timer" mounted on the inside wall of the patient compartment.

Does your bid comply? _____Yes _____ No

6.16 Back-up Alarms/Back-up Camera:

Install back-up alarm with minimum 97 dB. Install a reverse camera with monitor mounted in cab as not to obstruct view of windows or mirrors. In addition a camera shall be mounted in patient compartment above the rear doors.

Does your bid comply? Yes No

6.17 Wiring Diagram:

A wiring Diagram shall be issued to McCormick County Emergency Services upon delivery of Vehicle.

Does your bid comply? Yes No

6.18 Shoreline

Shall be equipped with a Kussmaul auto eject plug with appropriate rated amperage.

6.19 Computer Mount

NO COMPUTER MOUNT IN CAB.

Does your bid comply? Yes No

Section 7: EXTERIOR COMPARTMENTS

7.1 Weather-stripping:

All exterior rubber door weather-stripping shall have new, original or equivalent seal. This includes all Entry Doors.

Does your bid comply? Yes No

7.2 Compartment and Patient Door:

All door hardware is to be black.

Does your bid comply? Yes No

7.3 Compartment Floor Treatment:

All compartment floors will be covered or treated with industry standard.

Does your bid comply? Yes No

7.4 Rear Bumper:

Rear Bumper includes new Two (2) Bumper rubber stops, Rear Kick Plate, Flip Up “GRIP STRUT” Center Step, plus tow Inlets.

Does your bid comply? Yes No

Section 8: PATIENT COMPARTMENT CABINETRY AND FIXTURE:

8.1 **Floor Covering:** 8.1 (A) Lon-floor cover shall be installed. Color shall be gray. Floor shall be rolled up at least 3 inches on each side.

8.1 (B) **Upholstery:** All upholstery in module is to be Ash Grey in color.

Does your bid comply? Yes No

8.2 **Attendant Seat:**

High Back Attendant (captain’s chair) Seat shall be provided. Said seat will have the Child Safety Seat feature. Color shall match the other interior of the patient care box.

Does your bid comply? Yes No

8.3 **Solid Surface Counter Tops:**

There shall be installed solid surface counter tops on both the Action Area and Telemetry Area. No Exception. The Telemetry area shall be suitable height and width to accommodate Lifepack 15 Cardiac Monitors. Also placed in the telemetry area shall be an 110V receptacle for charging the monitor. This receptacle shall be wired to the shoreline, as well as, the inverter. Counter tops to be grey in color. Storage cabinet design and placement to be worked out between McCormick County Emergency Services and winning bidder.

Does your bid comply? Yes No

8.4 **Stretcher Mounting**

Stretcher mount shall be Stryker Performance LOAD with inductive charging.

Does your bid comply? Yes No

Section 9: HEATING AND AIR CONDITIONING

9.1 Heat/Cool Unit:

Install a rear HVAC system with all hoses, valves, dryer, and fittings. Also appropriate condenser for module.

Does your bid comply? Yes No

9.2 Heat/Cool Testing:

System shall be extensively tested for peak performance and readings shall be provided to customer.

Does your bid comply? Yes No

9.3 Temperate controlled storage:

3 climate controlled drug cabinets. MK DUAL TEMP SALINE DEPTH. Cabinet shall be added to the interior of the patient care area of truck.

Does your bid comply? Yes No

Section 10: OXYGEN AND VACUUM SYSTEMS

10.1 Oxygen System:

Perform leak test. Repair any leaks noted and re-test and tag system with certification.

Does your bid comply? Yes No

10.2 Suction System:

Test vacuum lines, outlets for proper operation and repair or replace as necessary.

Does your bid comply? Yes No