

# Anderson County Government

## Request for Bids

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<http://andersontn.org/purchasing>

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**Bid No.: 4911**

**Date Issued: September 18, 2018**

**Bids will be received until  
2:30 p.m. Eastern Time on October 16, 2018**

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Sealed bids are subject to the **General Terms and Conditions** of this bid, and any other data attached or incorporated by reference. Bids will be received in the Anderson County Purchasing Office until the date and time specified above, and at that time publicly opened and read aloud.

ANDERSON COUNTY RESERVES THE RIGHT TO WAIVE ANY INFORMALITIES  
IN OR TO REJECT ANY OR ALL PROPOSALS AND TO ACCEPT THE PROPOSAL DEEMED  
FAVORABLE AND IN THE BEST INTEREST OF ANDERSON COUNTY.



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Natalie Erb, Director of Finance

BID DESCRIPTION
<p>Bid for Type II Ambulance for EMS.</p> <p><b>Vendors are to submit one (1) original and two (2) exact copies of their response.</b></p> <p><i>Contact Purchasing in writing with any questions. Refer to General Terms and Conditions Section 1.2.</i></p>

# ***Anderson County EMS***

***Clinton, TN***

## ***AMBULANCE SPECIFICATION***

**EMERGENCY MEDICAL VEHICLE  
TRANSIT MID HIGH ROOF (4X2) TYPE II SRW**

**TYPE II**

**DESIGNED TO MEET OR EXCEED THE LATEST REVISION OF  
KKK-A-1822-F**



## Bid #4911 – Type II Ambulance

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**Anderson County seeks bids for one (1) Type II Ambulance. Anderson County reserves the right to reject any and all bids and may award based upon most compliant bidder to this specification. Not subjected to lowest cost bidder. Bidder may not take exception out of convenience.**

The following questions shall be completed by the bidder with the understanding that false or misleading information will be grounds for rejection of your bid.

Project completion date shall be \_\_\_\_\_ working days from clean order.

Has the bidder taken any exceptions to the specifications? YES \_\_\_\_ NO \_\_\_\_

Are all deviations from specifications explained as required? YES \_\_\_\_ NO \_\_\_\_

Vendor Name: \_\_\_\_\_

Manufacturer: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip Code: \_\_\_\_\_

Signature Authorized Representative: \_\_\_\_\_

Print Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_ Telephone Number: \_\_\_\_\_

Price for 1 Type II Ambulance: \_\_\_\_\_

## **1. GENERAL**

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### **1.01 Scope**

The ambulance specification documented here establishes requirements for a new automotive emergency medical services (EMS) ground vehicle used for out-of-hospital medical care and patient transport. The term *new* as applied in this standard is intended to refer to the original construction of an ambulance using all new materials and parts. Bidders shall not propose ambulances that are refurbished or remounted.

### **1.02 Purpose**

The purpose of this document is to specify the purchaser's requirements, performance parameters, and essential criteria for the design of this ambulance. This document shall layout exacting details and shall have accompanied drawings to clearly and accurately specify the ambulance.

### **1.03 Application**

This specification shall apply to vehicles intended for primary use of emergency operations, but will be used in both emergency and non-emergency operations.

### **1.04 Equivalency**

This specification is intended to provide the bidder the guidelines and parameters of the ambulance to be purchased. Many of the components specified here can be procured from common vendors. In those instances, the model or brand specified shall be used. The bidder is encouraged to propose a like model for those items in this specification which they cannot comply to. Alternative construction and design methods detailed by the bidder shall not be cause for automatic rejection. The specification for this ambulance has a desired level of quality and workmanship. In instances where exceptions and clarifications are necessary, detailed descriptions and photographs may be used.

### **1.05 Exceptions**

Each section requiring a response shall be marked by the bidder to acknowledge acceptance and compliance to the specification. Should the bidder choose not to comply with the specified requirements, the bidder shall disclose to the purchaser what they are offering in comparison. Exceptions to the proposal shall be documented in a centralized location in this bid proposal. The exceptions section of the proposal shall include the section heading, the page number and a detailed description of what shall be proposed by the bidder. Bidders taking 'total exception' shall not be allowed and will be considered unresponsive as this disregards the purchaser's request of a comparable product. Exceptions with descriptions claiming they meet or exceed the specification with no backing documentation will be considered non-responsive and subject to disqualification.

### **1.06 Drawings**

The ambulance proposal shall include computer aided design (CAD) drawings for the model specified here. Two dimensions (2D) sales drawings shall be acceptable for this proposal. The bidder shall not accept standard model or generic drawings as these are not an accurate depiction of the vehicle specified. Drawings provided "upon request" shall not be permitted by the purchaser.

Upon acceptance of the proposal and finalization of the order, the bidder shall have three dimensions (3D) models to complete the ambulance. These 3D models shall be available to view at the purchasers request during the build process. To maintain a level of quality and craftsmanship, the entire ambulance shall be modeled with 3D CAD software before any fabrication begins. Manufacturers utilizing a different engineering method shall document this in the exceptions section of this document.

**1.07 Referenced Publications**

This specification specifically sites documents or portions of documents listed below. It is the bidder's responsibility to ensure the ambulance proposed meets the requirements set forth in these documents.

**1.08 Responsibility of the Purchaser**

It shall be the responsibility of the purchaser to consider the amount of equipment and personnel that will be carried on the ambulance and to specify a minimum usable payload that will accommodate this weight once the ambulance is placed in service if this weight exceeds standard regulations. It shall be the responsibility of the purchaser to specify any details of the ambulance that would exceed the minimum specifications of those standards. After acceptance of the ambulance, the purchaser shall be responsible for ongoing training of personnel to develop and maintain proficiency regarding the proper and safe use of the ambulance and its associated equipment.

**1.09 Responsibility of the Contractor**

The bidder shall provide a detailed description of the ambulance with the proposal along with a list of equipment to be furnished. Documentation of all testing data detailed in this specification shall be included in the bid proposal. Failure to comply with this requirement is considered to be non-responsive and will be subject to rejection for this cause.

The bidder's detailed description shall include exceptions and clarifications clearly defining each section of the proposal that are not fully compliant with the requirements of detailed specification defined here.

Responsibility for the ambulance and customer supplied equipment shall remain with the contractor until they are accepted by the purchaser.

**1.10 Manufacturing Capability**

The ambulance manufacturers shall use a continuous flow production system to assemble their models of ambulances. The advantage of this continuous flow system is the entire assembly of the vehicle is broken down into logical assembly phases to which resources are attributed and properly trained. A description of the manufacturer production system shall be included.

The manufacturer supplier base shall be horizontally integrated. Therefore, the manufacturer shall have a light supplier base able to supply the manufacturer with a vast array of components. The advantage of horizontally integrated suppliers is being able to meet production demands during peak periods without the need to hire untrained personnel.

The ambulance manufacturer is to have documented consistent experience with building in accordance with these specifications and construction products. At least 80% or greater of all ambulances built in a year are to be of aluminum and/or fiberglass interior. This is to ensure that accuracy, consistency and experience with building an ambulance with both exterior and interior aluminum and/or fiberglass construction design is in place and routine.

The ambulance manufacturer is to have routinely built at least 400 or more ambulances of varying models, but of this type construction, each year for the last five (5) years consecutively. The manufacturer shall also provide a list of like models to the purchaser upon request.

**1.11 Schedule**

The manufacturer shall be able to schedule the ambulance into its production cycle to give an accurate deadline of completion from the time of the signed accepted order. The bidder shall include the proposed lead time for the completion unit and other important milestones in a Gantt chart.

The manufacturer shall not be held liable for changes arising from its failure to make or delay in making delivery because of fire, flood, strike, riot, chassis shortage, accidents, acts of force majeure, or any circumstances beyond the bidding manufacturer's control.

Manufacturer shall be responsible for delivery of ambulance upon completion to Anderson County, TN.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**1.12 Quality Processes**

A manufacturer's internal quality process system shall be in place. This quality processed system shall conform to ISO-9001 specifications. To ensure the quality system is continually maintained the manufacturer shall be audited by an independent agency. Documentation on this internal quality process system shall be provided.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**1.13 Ambulance Components**

All components shall be installed in accordance with the applicable manufacturer's installation instructions. The emergency medical care vehicles, including chassis, equipment, devices, medical accessories, and electronic equipment shall be standard commercial products, tested and certified to meet or exceed the requirements of this standard. Vehicles shall be free from defects that may impair their serviceability or detract from appearance. All bodies, systems, equipment, and interfaces with the chassis shall be done in accordance with OEM best practices.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**1.14 Warranty**

The manufacturer shall include documentation of all warranties pertaining to the new ambulance. Each warranty shall be specifically detailed and shall describe what exactly is covered under the specified warranty. Warranties must be described and detailed in exact times (e.g years, months, days).

- Module Structure: \_\_\_\_\_
- Paint: \_\_\_\_\_
- Electrical: \_\_\_\_\_
- Materials and Workmanship: \_\_\_\_\_
- OEM Materials: \_\_\_\_\_

A written statement of each of the manufacturer's warranties shall be provided with this bid proposal.

**Does your bid comply with the specification as written?** Y\_\_\_\_ N\_\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_\_ N\_\_\_\_

#### **1.15 Documentation**

All documentation delivered with the ambulance shall either be printed format, electronic format, audiovisual format or any combination of these forms of media. The documentation shall be provided in a centralized manual, binder or CD. All documentation shall be clearly labeled and shall be easy for the purchaser to review as necessary.

The ambulance manufacturer shall deliver with the ambulance at least one (1) copy of the following documents:

1. The manufacturer's record of ambulance construction details, including the following information:
  - a. Owner's name and address
  - b. Ambulance manufacturer, model, and serial number
  - c. Chassis make, model, and VIN
  - d. GAWR of front and rear axles and GVWR
  - e. Front tire size and total rated capacity in pounds (kilograms)
  - f. Rear tire size and total rated capacity in pounds (kilograms)
  - g. Engine make, model, serial number, rated horsepower and torque
  - h. Type of fuel and fuel tank capacity
  - i. Electrical system voltage and alternator output in amps
  - j. Battery make, model, and capacity in cold cranking amps (CCA)
  - k. Chassis transmission make, model, and serial number
  - l. Ratios of all driving axles
  - m. Maximum governed road speed
  - n. Paint manufacturer and paint number(s)
  - o. Company name and signature of responsible company representative
  - p. Documents from a certified scale showing curb weight on the front axle and rear axle(s) (done after construction is completed, and without personnel and equipment)
2. Certification of compliance of the optical warning system
3. Siren manufacturer's certification of the siren
4. Written load analysis and results of the electrical system performance tests
5. Certification of slip resistance of all exterior stepping, standing, and walking surfaces

**Does your bid comply with the specification as written?** Y\_\_\_\_ N\_\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_\_ N\_\_\_\_

#### **1.16 Operations and Service Documentation**



The manufacturer shall deliver with the ambulance at least one (1) set of complete owner/operator manuals. These manuals shall also include service documentation covering the completed ambulance as delivered and accepted.

The owner/operator manual shall include the inspection, service, and operations of the ambulance of all major components thereof. The documentation listed here shall be for each ambulance delivered and shall contain the following information:

1. Manufacturer's name and address
2. Country of manufacture
3. Source for service and technical information
4. Parts replacement information
5. Descriptions, specifications, and ratings of the chassis
6. Wiring diagrams for low voltage and line voltage ambulance-specific systems to include the following information:
  - a. Pictorial representations of circuit logic for all electrical components and wiring
  - b. Circuit identification
  - c. Connector pin identification
  - d. Zone location of electrical components
  - e. Safety interlocks
  - f. Alternator-battery power distribution circuits
  - g. Input/output assignment sheets or equivalent circuit logic implemented in multiplexing systems
7. Lubrication charts
8. Operating instructions for the chassis, any major components
9. Instructions regarding the frequency and procedure for recommended maintenance
10. Overall ambulance operating instructions
11. Safety considerations
12. Limitations of use
13. Inspection procedures
14. Recommended service procedures
15. Troubleshooting guide
16. Ambulance body, chassis, and other component manufacturer's warranties
17. Special data required by this standard
18. Material safety data sheet (MSDS) for any fluid that is specified for use on the ambulance

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

#### **1.17 Certification and Payload Signage**

The complete ambulance shall have a certification and payload label. This label shall be mounted on the body (module) interior in a conspicuous location. The completed ambulance shall have a payload calculation form.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

#### **1.18 Dimension Labeling**

The completed ambulance manufacturer shall provide a high-visibility label showing the dimensions of the ambulance and the GVWR of the competed vehicle. This label shall be located in a location easily found by the driver.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**1.19 Component Protection**

All manufacturer or supplier supplied hose lines, air system tubing and electrical harnesses shall be mechanically attached to the frame or body structure of the ambulance. All exposed tubing, electrical wiring and hoses shall be contained in a loom or an insulated covering on both the exterior and interior of the ambulance. Where hoses and electrical wiring looms are passing through metal edges; a protective grommet shall be installed in the hole to prevent premature wear on the loom or hose. Exposed wires and hoses shall not be permitted as this poses a potential hazard and could cause premature failure of critical components on the completed ambulance.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**1.20 Personnel Protection**

Protection in the form of guards and shields shall be provided on the completed ambulance to prevent injury of personnel by temperature sensitive, moving, or rotating parts during non-maintenance operations. Access to these areas shall be restricted yet still accessible for qualified technicians to perform maintenance when necessary.

Electrical insulation or isolation shall be provided on all electrical components to prevent electrical shock from onboard electrical systems. Electrical systems and wiring shall be properly secured in the electrical control panel to prevent accidental entry or storage in these areas.

The completed ambulance shall be free of sharp edges and protrusions that could injure during routine maintenance or while the vehicle is in motion.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**1.21 Liability**

The bidding manufacturer shall furnish a Certificate of Insurance showing an aggregate of liability insurance which shall not be less than ten million dollars (\$10,000,000.00). This general liability Certificate of Insurance shall be provided by the manufacturer's insurer. Failure to provide a Certification of Insurance shall be considered non-responsive and cause for rejection of the proposal.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**1.22 Service Parts and Warranty Capability**

Bidders authorizing local service centers will be cause for a lower level of consideration by Purchaser. It is preferred that the bidder provide this service direct for consistent and quick repairs as not to be farmed out. Details of service capability will be provided with proposal, to include if the bidder is providing this service direct or indirect. This will include:

1. Facility Name, Address, Phone Number, & Primary Contact
2. Size of Facility
3. Number of employees and certifications/training credentials
4. On Site Field Service Capabilities
5. Photos of actual facilities
6. 24/7/365 Emergency Service Hotline

It is a high priority to the purchaser to be able to maintain our fleet and minimize critical failure issues and have access to quick repairs. To assist in prompt repairs to our fleet successful vendor must meet the following service and maintenance requirements. Greater consideration will be given bidder that has a comprehensive ambulance module repair facility to administer warranty repair and stock in house parts. Bidder must offer this direct service within their coverage area.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

Bidder must be recognized as the authorized provider of ambulances and service for the purchaser's state.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**24/7 FIELD SERVICE TECHNICIANS - EMERGENCY SERVICE:** Purchaser prefers that the vendor have on site mobile service vehicle fleet with factory trained EVT technicians. Fully stocked with common service items as necessary available 24 hours a day 7 days a week. All module repairs must be performed via a factory trained technician. Vendor shall include pictures of their service fleet vehicles, facility & comply with the form below.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**Bidders must list their service facility profile and credentials to the purchaser below**

Factory Authorized Facility Name: \_\_\_\_\_

Full Time Service Manager Name: \_\_\_\_\_

Full Time Parts Manager Name: \_\_\_\_\_

Daytime Phone Number: \_\_\_\_\_

24 hr Emergency Service Number: \_\_\_\_\_

24 hr Monitored Email Link: \_\_\_\_\_

# Factory Authorized Mobile Service Techs: \_\_\_\_\_

**Does your bid comply with the specification as written?** Y\_\_\_\_ N\_\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_\_ N\_\_\_\_

## **2 TEST AND CERTIFICATION**

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### **2.01 Testing Capabilities**

The ambulance manufacturer shall be equipped to do a majority of the ambulance testing at their facility. All pull tests, load tests, lighting level tests and noise level tests shall be done at the manufacturer's facility. The manufacturer shall have a full range of testing equipment proven by an independent engineering agency.

In-house testing facilities are preferred by this purchaser as this gives the manufacturer flexibility to perform tests on various designs and iterations on a continual basis. All testing shall be audited and documented by an engineer, which will all be accredited under the board of engineering and technology of their respective state or province.

If the Ambulance manufacturer does not have its own testing facility on-site, a detailed description of how continual testing is provided shall be detailed in the bid proposal.

**Does your bid comply with the specification as written?** Y\_\_\_\_ N\_\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_\_ N\_\_\_\_

### **2.02 Testing Requirements**

The bidding manufacturer shall be capable of passing testing certifications for North America. All testing performed shall meet or exceed the highest requirement set forth in any of the North American standards listed here. The manufacturer shall be able to provide testing or certification results for the following requirements.

Copies of testing documentation and certification for the Ambulance Manufacturers Division of the National Truck Equipment Association (**AMD**) requirements shall be provided with this proposal:

Copies of different vehicle certifications for the following vehicle specifications shall be provided with this proposal:

- **KKK:** Federal Specification for the Star of Life Ambulance (KKK-A-1822)
- **FMVSS:** US Federal Motor Vehicle Safety Standards and Regulations
- **DOT:** US Department of Transportation

Any manufacturer who exceeds these specifications is welcomed to provide data. However, it needs to be useful in the application of the purchaser to be considered a plus.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

### 2.03 Additional Testing Requirements

In addition to the above mentioned testing requirements in section 2.02, the following tests shall be conducted on the specific model, passed and documented.

#### 2.03.1 Additional AMD Testing Requirements

- **AMD 004: Cot Retention Pull Test**

Above and beyond the minimum required 2200 lbs., the bidding manufacturer must have completed a cot retention pull test to meet or exceed 10 times the weight of the cot plus the cot hardware and the weight of a male patient in the 90th percentile per the current NIHS / CCHS data. The minimum requirement may vary, depending on the specific cot (Ferno or Stryker) and cot hardware. Results for both brands must be provided.

- **AMD 006: Sound Level Test**

Above and beyond the minimum requirement of 80 decibels or less as tested in the patient compartment, the bidding manufacturer must also perform a sound level test in the front cab, with windows opened 6 inches and reach a minimum requirement of 89 decibels or less. Another sound level test in the front cab must be done with windows closed while reaching a minimum of 84 decibels or less.

- **AMD 008: Patient compartment Grab Rail Test**

Above and beyond the minimum requirement of a 300 lbs pull test on the overhead ceiling grab rail, the bidding manufacturer must perform pull tests **on each grab handle** inside the patient compartment. All grab handles and overhead grab rails will be pull tested to 500 lbs., however it is important to mention that deformation may occur at 500 lbs.

- **AMD 012: Interior Climate Control Test**

Heating

Minimum Requirement: From 32°F to 68°F in 30 minutes or less

Above and beyond the minimum requirement, the bidding manufacturer must show that the test began at 1°F and reach 68°F in 30 minutes or less.

Air Conditioning

Minimum Requirement: From 95°F to 78°F in 30 minutes or less

Above and beyond the minimum requirement, the bidding manufacturer must perform the exact same test and reach 78°F in 20 minutes or less.

- **AMD 013: Weight Distribution**

Above and beyond the minimum requirement of having 20% or more GVWR on the front axle, the bidding manufacturer will need to meet or exceed a minimum of 30% GVWR on the front axle. This added front axle weight distribution is a critical safety aspect in terms of added traction, braking capacity and increased handling capabilities.

### 2.03.2 Additional Testing Requirements

- **Safety Net and Safety Net Anchor Points Pull Tests**

The bidding manufacturer will need to meet or exceed a pull test on the safety net of 3000 lbs. The bidding manufacturer will also need to meet or exceed a pull test of the safety net anchor points of 6000 lbs., with each anchor point being subject to an equal amount of force.

**Test Scope – Anchor Points**

Attach a force application device to each fastener and applied the required load in a plane parallel to the fastener. Repeat the test procedure while applying the load perpendicular to the initial plane. Examine and record the results.

**Test Scope – Safety Net**

Apply a force in a forward direction at the center of the net using a suitable solid block to distribute the load. Examine and record the results.

- **Street side Cabinetry Pull Test**

The bidding manufacturer will need to meet or exceed a pull test on the street side medical cabinetry equivalent to 25 times the weight of the cabinet and action wall assembly or, in the case the cabinets are individual components of the wall assembly, the sum of every individual cabinet plus the cabinet shelves and action wall, in both lateral and longitudinal axis', with the force equally dispersed on the surface of the cabinet. The pull test shall be conducted on a final assembled cabinet installed in a similar module.

**Test Scope – Street Side Cabinetry Pull Test**

Apply the required force to the component using a force application device such that the force is spread equally over the fasteners. Apply the force in a lateral direction. Observe and record the results. Repeat the test procedure by applying the force in a longitudinal direction. Observe and record the results.

- **Equipment Restraint Devices Pull Tests**

The bidding manufacturer will need to meet or exceed a pull test on any and all equipment restraining device, such as fasteners, O2 brackets or belts. The pull test will be a minimum of 10 times the weight of the restraint device and the restrained equipment.

**Test Scope – Equipment Restraint Devices**

Document and calculate the weight of the equipment and the equipment restraint to be pull tested. Apply the calculated force on each different installation in a parallel and perpendicular plane to the initial plane of the fasteners.

Does your bid comply with the specification as written?

Y\_\_\_\_ N\_\_\_\_

Does your proposal include an exception to this requirement?

Y\_\_\_\_ N\_\_\_\_

#### **2.04 Certification Documents**

Certification letters submitted for the ambulance model, components, and equipment being certified shall contain the following information on contractor's letterhead stationery in electronic format (pdf files):

1. To whom certifying
2. Date
3. Units or items
4. Contractor and address
5. Date product tested
6. Model number and specification data
7. Applicable specification references and test requirement
8. Summary of the test report
9. A certifying statement with official signature by a recognized and certified engineer

The testing documentation for each certification shall include the following supportive verification data and information on letterhead stationery in electronic format (pdf files):

1. For whom tested
2. Report date
3. Name of sample product or device
4. Contractor's address
5. Serial and model number(s)
6. Specification referral and amendment number(s), and test requirement(s)
7. Test facilities used and location
8. Test equipment used
9. Test procedure
10. Test results
11. Verifying test data
12. Photographs
13. Test conclusion(s)
14. Witness(es)
15. Authorized signature

Certification documentation shall be delivered with the ambulance, including results of the certification tests. Each model the manufacturer offers shall be tested and certified. The purchaser will not accept testing certification on the largest model size as a "blanket certification" for all models without detailed justification and/or calculation. A testing equivalency can only be used if a signed & approved letter is provided, explaining the build philosophy and testing requirements proving the test equivalency.

**Does your bid comply with the specification as written?**

Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?**

Y\_\_\_ N\_\_\_

### **3. CHASSIS**

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#### **3.01 Model**

Ford Transit Van T250 with Mid-Height Roof, 148" Wheelbase (Code R2C)

#### **3.02 GVWR**

9000 lbs (Code 20B)

#### **3.03 Paint**

OEM Oxford White (Code YZ)

#### **3.04 Interior Color**

Pewter Cloth (Code CK)

#### **3.05 Seating**

Pewter 2-way manual driver and passenger, with side airbags (Code 21L)

#### **3.06 Equipment packages**

Preferred Equipment Package (Code 101A)

XL Trim (INCL)

Exterior Upgrade Package (Code 18D)

Ambulance Cargo Van Prep Package (Code 47B)

Auxiliary Heater A/C Prep Package without Rear Controls (Code 62C)

Modified Vehicle Wiring System Package (Code 53K)

#### **3.07 Mirrors**

OEM Power Short Arm Mirrors (Code 541)

#### **3.08 Radio**

AM/FM Stereo with audio input jack in OEM dash location (Code 58U)

#### **3.09 Engine**

3.7L Ti-VCT V6 Gasoline Engine (Code 99M)

#### **3.10 Transmission**

6-Speed Automatic Overdrive with SelectShift (320 H.P., 400 FT LB Torque) (Code 446)

#### **3.11 Alternator**

Single Heavy Duty 220-amp (Code 63C)

#### **3.12 Batteries**

Dual Heavy Duty Batteries (Code 63E)

#### **3.13 Tires**

235/65R16 BSW all season SRW (Code TC8)

Full size spare tire/wheel mounted underneath the vehicle

#### **3.14 Wheels**

16" Steel wheels with full silver wheel covers (Code 64H)

#### **3.15 Brakes**

Four-wheel disc with anti-lock (STD)



**3.16 Axle**

Axle Limited-Slip Ratio 3:73 (Code X7L)

**3.17 Suspension**

Front- Independent McPherson Strut w/Stabilizer Bar (STD)

Rear- Leaf Springs w/heavy-duty gas shock absorbers (STD)

**3.18 Steering**

Power Rack and Pinion with tilt and telescopic column (STD)

**3.19 Cab Flooring**

OEM black vinyl mat (STD)

**3.20 Emissions**

50 state emissions (Code 425)

**3.21 Fuel Tank**

26 US Gallons, midship, capless fuel fill (STD)

**3.22 Additional Options/Features**

Air Conditioning-Front only (Code 57B)

Cruise Control (Code 60C)

Rear Vinyl Floor Covering Delete (Code 16C)

(2) Additional, (4) Total Keys (Code 86F)

Front License Plate Bracket (Code 153)

Engine Block Heater (Code 41H)

Daytime Running Lamps (Code 942)

Power Equipment Group, Door Locks and Windows, w/Remote Keyless Entry (STD)

**Does your bid comply with the specification as written?**

Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?**

Y\_\_\_ N\_\_\_

**4. VEHICLE FEATURES**

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**4.01 Aerodynamic light integration**

Aerodynamic light fixtures shall be added to the ambulance. There shall be a front cab riser and a low profile rear spoiler. They need to be designed according to the chassis' lines to maximize drag reduction and enhance appearance. They shall reduce the drag caused by disrupting the air flow around the vehicle created by the addition of front and/or rear light bars.

They shall be made of fiberglass thick enough to prevent buffeting. A layer of gel cot is applied to give the smooth finish. Foam insulation, where applicable, prevents wind noise and reduces heat transfer with the exterior.

The cab riser shall also incorporate emergency lighting integrated behind Lexan lenses to maximize the aerodynamic efficiency. These lenses need to be replaceable and fixed using tools and adhesive required to install and remove automotive windshield. The lights shall be

interchangeable from the inside, without the need to remove any lens. The headliner shall be modified to provide access for changing lights. Isolated color matching hatches have to be installed in three (3) locations to access the left, center and right lights.

The rear spoiler shall also incorporate rear lights which can be interchanged from the outside of the ambulance.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**4.02 High Idle Device**

A high idle or throttle to engine speed auxiliary control device (high idle switch or throttle) shall be installed to allow an increase in the engine speed when the ambulance is parked. The high idle shall be automatically engaged when the ambulance parking brake is engaged with the transmission in park. The high idle shall deactivate when the vehicle's parking brake is removed or the brake is applied.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**4.03 Running Boards**

Running boards shall be installed on both sides of the vehicle. The driver's side shall be just below the driver's entry door and the passenger side shall be full length from the cab entry door to below the curbside sliding entry door. They shall be constructed of a sure grip material no less than 7" wide with machine punched holes to facilitate water and debris runoff. Aluminum mud flaps and brackets shall be added for reinforcement and prevent road debris intrusion.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**4.04 Front Bumper**

The chassis manufacturers OEM front bumper shall be furnished at the front of the chassis.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**4.05 Rear Step Bumper**

An OEM rear step bumper with fixed stepping surface shall be installed on the rear of the vehicle. The structure is to be bolted to the chassis for easy replacement and adjustment.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**5. DRIVERS' COMPARTMENT**

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**5.01 Reading Lamp**

There shall be a gooseneck reading lamp installed in the front console.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**5.02 Hand spotlight**

The ambulance shall have a 400,000 CP hand spotlight in the front cabin. It shall be secured to the floor or wall with a thermoformed bracket.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**5.03 Back-up camera**

The ambulance shall have a back-up camera with a minimum 5" display in the driver's compartment. It shall have a night vision mode to allow for clear viewing at night. It shall automatically switch the display when the vehicle is put in reverse.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**5.02 Radio**

The radio shall be relocated below the emergency equipment panel. It shall be fully integrated in the OEM console.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**6. BODY FEATURES**

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**6.01 Curb Side Configuration**

There shall be a sliding door on the curb side of the ambulance. This door shall allow for entering and exiting the patient compartment. It shall also provide access to the ALS compartment and the stair chair, stored flat just above floor level, under the ALS compartment.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**6.02 Rear Configuration**

There shall be two (2) pivoting doors on the rear side of the ambulance. These doors shall allow for entering and exiting the patient compartment. The left door shall provide access to the backboard storage compartment, located horizontally behind the medical cabinet. The right door shall provide access to the oxygen cylinder compartment, upright.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**6.03 Insulation**

The patient compartment shall be insulated with a vermin and mildew proof reflective faced insulation with a hard compressed fiberglass back. This insulation shall be used in all areas, including the sidewalls, doors and roof. Reflective faced compressed fiberglass insulation is recommended due to its nature not to settle over time and the ability to block outside noise. Other insulating methods may be documented and submitted. In accordance to the KKK-A-1822 Federal Ambulance Specifications and the forthcoming edition of NPFA 1917 Standard for Automotive Ambulance requirements, all insulations shall be non-settling type, vermin-proof, mildew-proof, fire retardant, non-toxic, and non-hygroscopic.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**6.04 Body Structural Enhancements**

Due to the lightweight construction of the OEM Transit body, the ambulance manufacturer shall enhance the structure of the body. A rigid, steel substructure shall be welded to the OEM body on the streetside wall, curbside wall, and roof to strengthen the structure, enhance the safety of occupants, and provide mounting points for the pull-tested aluminum cabinet structure. The ambulance manufacturer must include documentation with the bid response detailing the materials and methods used to enhance the structure of the OEM body. All modifications shall be permitted by Ford QVM Guidelines.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**7. PATIENT COMPARTMENT**

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**7.01 Construction General Guidelines**

The interior of the ambulance shall be constructed in such a way that is free of sharp edges. All interior surfaces shall be easy to clean, impervious to soap, water, body fluids, disinfectants and shall be mildew resistant. Wall surfaces shall be a CNC cut fiberglass or aluminum matching the interior color of the module. Wood, or other laminated materials do not meet these specifications and shall not be utilized.

Trim pieces adjoining multiple wall surfaces are not preferred by the purchaser as this adds another crevice to keep clean and could become an unnecessary source of penetration for debris or liquids to enter. Trim molding can also contain sharp edges on the corners and could be a potential hazard.

All components installed in the ceiling shall be mounted as flush as possible and shall not protrude any further than ½" from the ceiling, except for the grab rails. Surface mounted components on the wall shall comply with head protection requirements and shall incorporate a protective shield or covering.

All upholstered seating surfaces shall be thermoformed and shall have no exposed stitching. Head pads and vinyl trim areas which are not seating areas shall be customized with vinyl wrapped polyurethane foam with a hard surface backing material.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

#### **7.02 Floor**

The floor shall be constructed of 5/8" marine grade 7-ply plywood and shall extend the length and width of the patient compartment. Where additional sections of plywood are needed, the sections shall utilize lap joint construction to maintain a continuous lay of the floor and eliminate the possibility of gaps or cracking. It shall be bonded to the aluminum panel and screwed only where there are beams or plates. Screws only through the aluminum skin will not be tolerated as the present a potential injury risk and add close to no value to the floor integrity. Holes in the floor for patient handling options shall be CNC pre-cut to ensure maximum precision.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

#### **7.03 Floor Covering**

Lonseal Lonplate II Gunmetal flooring shall be installed in the completed ambulance. The non-slip floor covering shall be rolled at least 3" up both sides of the patient compartment. This floor shall be rolled on the coved floor extrusion and shall be adhered at every point of the floor cove giving a tight secure fit that will not bubble or prematurely tear. The floor shall be a one (1) seamless piece and shall be able to be cleaned without having to purchase special or potentially harmful cleaning agents. This roll up floor shall cover the entire length and width of the compartment's working area. Areas in the floor where the sidewalls and floor meet shall be sealed to prevent any blood borne pathogens from entering.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

#### **7.04 Cabinet Construction**

All cabinet structure, cabinet doors, shelves and openings described here shall be manufactured in fiberglass or aluminum. Over time, wood products tend to warp, distort and shrink, creating potential for premature structural wear. The purchaser prefers fiberglass and aluminum construction for its resiliency to harsh environments and cleaners as well as its lightweight size and overall strength.

The overall cabinet structure shall consist of interlocking extrusions. Extruded framework shall provide the structural integrity of the cabinets as well as creating the individual cabinet sections. These extrusions shall be custom fit and CNC cut to form the particular cabinet configuration. All cabinet extrusions shall incorporate a rounded edge to give an aesthetically pleasing appearance as well as providing a smooth, safe surface for the crew member. Mitered box framed cabinetry will not be accepted as a mitered corner produces sharp edges and potential gaps. Each interlocking extrusion joint shall be attached by two (2) hex machine bolt into the extrusion via a tap and die holes. These fasteners shall lock the cabinet frame structure into place and shall prevent the cabinet sections from twisting. Cabinet



inserts shall be placed on the lip of the extrusion and shall be fixed with an adhesive as well as mechanically fastened into position. **This structure alone shall resist to the pull test, the structural integrity of the cabinetry is not reliant on the interior storage cavity.**

Unless specified for a particular purpose, all interior cabinets shall be constructed of preformed fiberglass inserts. Cabinets designed for a particular purpose may be constructed of formed aluminum depending on the application.

All cabinets shall be easy to clean, impervious to soap, water, body fluids, and disinfectants and shall be mildew resistant.

Cabinets with sliding windows shall have a transparent window and window track felt installed in the dedicated channels of the cabinet extrusion. The cabinet windows shall be made of 3/16" Lexan and include integrated Inventory Control devices.

Laminated, or Formica-covered cabinetry is not desired due to the material's propensity to delaminate, crack, or chip. All aluminum cabinetry parts shall be powder-coated to provide a durable, smooth, easy to decontaminate surface.

The purchaser will not accept prototype built models or untested construction methods used only to satisfy the detailed description of this specification. Alternative construction methods shall be detailed in the exceptions section of this bid proposal. Photographs of this construction method shall be provided to allow for adequate comparison. Testing documents of the exact layout shall be provided.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

#### **7.05 Street Side Cabinetry**

The street side interior layout shall consist of the following cabinetry:

There shall be two (2) equal sized cabinets located at the ceiling level of the streetside wall, one (1) forward above the action area, and one (1) rearward just inside the rear doors. Cabinet dimensions shall be 42"L x 10"H x 7.50"D.

There shall be two (2) equal sized cabinets located just inside the rear doors at the mid and lower-levels of the streetside wall. The cabinet dimensions shall be 42"L x 16.25"H x 9.50"D, one above the other, towards the aft section of the medical cabinet. Each cabinet shall include one (1) adjustable shelf.

There shall be one (1) storage cabinet at the center of the streetside wall at mid-height with dimensions of 25"L x 16.5"H x 11.25"D. This cabinet shall include the 110VAC and 12VDC outlets specified in sections 10.02 and 10.03 of these specifications. This cabinet shall be able to be modified to include a cardiac monitor tray if desired.

There shall be one (1) storage cabinet at the center of the streetside wall at lower-height with dimensions of 25"L x 17"H x 9.25"D. This cabinet shall be directly below the previously specified cabinet and include one (1) adjustable shelf.



There shall be one (1) storage cabinet at the forward end of the streetside wall directly below the action area counter top. The cabinet shall have dimensions of 42"L x10"H x 7.50"D.

There shall be a removable maintenance panel located below the previously specified cabinet to access the area behind the streetside cabinetry wall. This area will house the main electrical system of the unit, as well as the suction pump, 110VAC breakers, and communication radio installation area. A separate, small sliding access door shall be integrated into the removable panel to provide quick access to the 110VAC breakers in the event service is required.

There shall be a horizontal compartment for storage of backboards integrated into the streetside cabinet wall. The compartment shall be accessed from the rear doors and have dimensions of 4.25"W x 18.8"H x 69"D.

The main action area shall include the rear console, the oxygen outlets, the suction outlets, the inverter control panel if equipped, the clock if equipped, the reading light, electrical outlets and other optional items.

The exact cabinetry layout shall match the drawings specified in this bid proposal.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**7.06 ALS Cabinet**

The ALS cabinet, located on the right side of the front bulkhead wall shall be accessible from either the curbside entry door or the patient compartment. The cabinet shall have overall storage dimensions of 24.5"W x 46"H x 12.75"D and be divided with a fixed aluminum shelf in equal upper and lower storage sections. Each storage section shall have an adjustable aluminum shelf installed and removable retaining straps.

The ALS cabinet shall be made of smooth powder coated aluminum for strength and durability to match the other cabinetry in the patient compartment.

ALS cabinet layout and dimensions shall match the drawings included in this bid proposal.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**7.07 Stair Chair Storage Cabinet**

The stair chair storage cabinet shall be accessible from the curbside entry door location and be positioned at floor level just below the ALS cabinet. The cabinet shall accommodate all currently-available makes and models of stair chairs and have dimensions of 22"W x 10.75"H x 35"D.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**7.08 Bulkhead with Sliding Window**

The ambulance shall be equipped with an aluminium bulkhead wall partition. It shall be positioned between the driver and the patient's compartment, towards the front, allowing enough space to recline the front seats. A sliding window shall be installed above the rear attendant seat, between the ALS compartment and the medical cabinet.

Does your bid comply with the specification as written?

Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement?

Y\_\_\_ N\_\_\_

**7.09 Squad Bench**

A squad bench capable of seating two (2) attendants and a cardiac monitor shall be located on the curbside of the vehicle. To maintain structural integrity and maximize weight and storage, the squad bench shall be made of .090 aluminum pieces welded together. The belts will be located on a main frame with reinforcement plates strong enough to resist to required pull tests. The squad bench shall be attached to the side wall structure as well as to the roll up floor extrusion and to the floor.

Access to the storage area under the squad bench shall be via a positive closing latching system on the squad bench lid and face. When the latch is released, the bench shall automatically raise open via the compressed gas struts attached to the squad bench lid and to the bottom of the squad bench storage area. The bottom of the storage area shall be covered with a single piece of covering matching the patient compartment.

Two (2) sets of 6-point safety restraints shall be located on the back of the squad bench permanently bolted through ½" plates that were welded into the added wall support structure. Holes shall be tapped to allow for seat belt removable after the squad bench is installed in the vehicle.

A full-length seamless thermoformed seat cushion with matching full-length seamless thermoformed backrest and full-length seamless thermoformed headrest cushions shall be fixed on the wall for the dual-seating positions. The color of these cushions and backrests shall match the interior vinyl cushions.

The purchaser will not accept prototype built models or untested construction methods used only to satisfy the detailed description of this specification. Alternative construction methods shall be detailed in the exceptions section of this bid proposal. Photographs of this construction method shall be provided to allow for adequate comparison. Testing documents of the exact squad bench shall be provided.

Does your bid comply with the specification as written?

Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement?

Y\_\_\_ N\_\_\_

**7.10 Waste Disposal**

A hands-free kick out style waste disposal shall be installed in the squad bench area. This type of system shall allow the attendant to quickly discard any biologic waste via a tip out door with his or her foot to avoid unnecessary contamination from their hands.

Does your bid comply with the specification as written?

Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement?

Y\_\_\_ N\_\_\_



**7.11 Attendant's Head Seat**

An EVS brand automotive-style thermoformed seamless attendant's seat shall be installed at the head of the cot. The attendant's seat shall have a three-point seatbelt. The seat base shall be able to flip up. The seat shall meet and exceed all testing requirements.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**7.12 Overhead Grab Rail**

One (1) 60" overhead Yellow grab rail shall be mounted in the patient compartment ceiling. The grab rail shall be securely fastened to the roof structure in the patient compartment ceiling at each mounting location. The grab rail shall be at least 1" in diameter.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**7.13 Additional Handrails**

Two (2) additional 12" Yellow handrails shall be mounted in the patient compartment, one (1) right of rear access door and one (1) right of side access door. These additional grab handles shall be positioned in a location that is easy for the attendant to grip when entering the vehicle.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**7.14 IV Holder**

Two (2) recessed mounted IV hangers specifically designed for holding IV containers shall be installed, including hook and loop straps to adequately secure an IV bag/bottle. The IV holder shall recess into the ceiling creating minimal protrusion into the patient compartment when not in use.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**7.15 Rear Radio Speakers**

A pair of rear radio speakers shall be installed in an upper portion of the patient compartment in an area not interfering with patient care. The speakers shall be controlled by a rheostat volume control on the action area wall.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**7.16 Patient Cot Retention**

The patient compartment shall be equipped with a side-mounted Stryker Performance Load #6392 cot fastener with inductive charging. The cot mount shall be securely bolted through

tapped ½" 6061-T6 aluminum reinforcement plates meeting Stryker installation specifications. The mount shall be positioned toward the streetside cabinetry to maximize the floor space available between the cot and the face of the squad bench.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

#### **7.17 Safety Net**

A woven nylon seatbelt style safety net shall be installed towards the front of the squad bench area to serve as an additional safety barrier. The net shall be secured to the ceiling, the floor and the curbside wall of the module. Each attachment point shall be bolted to a reinforcement structure strong enough to meet required testing. The net shall be interwoven and designed to decrease the force of an object when the vehicle comes to an abrupt halt.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

#### **7.18 Refrigerated Storage Cabinet**

The patient compartment shall be equipped with a refrigerated storage cabinet for drug storage. The cabinet shall be crash-stable and wired to operate with the vehicle's 12VDC power when the engine is running, or through the shoreline charging circuit when the vehicle is not running. This wiring method must be used to prevent battery drain. Please indicate in your bid response the size, style, and location of the refrigerated cabinet being proposed.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

### **8. HVAC**

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#### **8.01 General**

The patient compartment HVAC system shall be controlled by the driver or the patient compartment attendant via the multiplex touch pad located in the front console or the rear switch panel.

The patient compartment temperature shall be monitored by a thermostat incorporated in the multiplexing electrical system. Additional to the three (3) preprogrammed speeds, an automatic mode shall be able to decide between heating, cooling and fan speed in function of the set temperature versus the patient compartment temperature.

In order to achieve maximum efficiency and optimization of this system, the fans' speed shall be optimized via Pulse Width Modulation (PWM) to allow the heating and cooling system to run at its most effective speed.

Adequate room for hose connections and hose lines shall be provided when installing HVAC components. The hoses shall be protected and insulated to optimize performance and longevity. They shall also be clamped every 18" and routed without sharp bends and kinks.

The combination Heating/Air Conditioning unit shall be installed above the ALS cabinet area at ceiling level. The output shall be directed above the headliner through an air diffusion duct to five (5) directional air vents equally spaced above the squad bench area to maximize heating and cooling air output in the patient compartment.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

#### **8.02 Ventilation**

ONE (1) exhaust fan shall be installed. The fan shall allow adequate air exchange within cab and patient compartment while parked or in motion. The exhaust fan shall be controlled by the multiplexing electrical system and shall operate on 3 speeds (Low, Medium and High). The exhaust vents shall exit from the street side of the vehicle.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

### **9. BATTERY SYSTEM, MULTIPLEX AND WIRING**

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#### **9.01 Overview**

A 12VDC electrical system shall be added in junction with the OEM system. They shall be isolated from each other, yet they still exchange data. This is achieved by using a multiplex system in combination with a CAN BUS connectivity between the two (2) systems. It reduces the number of wires in the harness, thus reduces the number of components and connections. Using programmable solid-state devices allows for easy diagnostics, troubleshooting and customizing of the vehicle without needing to add relays or modify the wiring system, even at a later stage while the vehicle is in the field. Printed circuit board or, so called "hardwired" electrical systems shall not be acceptable.

The ambulance manufacturer shall have significant experience in installing multiplex and electrical systems. The purchaser is not interested in prototypical or logical systems that are untested or unproven by the ambulance manufacturer. The multiplex system specified here shall be fully developed, tested, in service for at least 10 years and shall be installed on at least 1000 units. Documentation of electrical systems installed and in-service shall be provided at the purchaser's request.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

#### **9.02 Electronic Controller Units (ECU)**

Multiplexing electrical system shall consist of solid-state electronic controller units mounted in the electrical control panel. Electronic controller units shall act as the central communications system for the entire electrical system. These electrical controller units shall command all electrical components installed by the ambulance manufacturer in the cab and in the patient compartment. Each electronic controller unit shall be self-diagnostic with easy-to-read LED. Printed schematics of all components and wiring shall be provided with the completed ambulance.

All Electronic controller units shall be sealed in a weatherproof exterior casing. The ECUs main control panel shall be coated in weather resistant from the factory. All electronic controller units shall be installed in electrical control panel compartment for centralized location.

Electronic controller units shall be programmed using already established automotive communication language. Electronic controller units shall be programmed to communicate and receive signals in the SAE J1939 protocol via the CAN BUS connection. This type of system is preferred to allow for future expansion and. No auxiliary printed circuit boards, circuit breakers or relays shall be needed in future expansion or to assist in the functionality of standard electrical components.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

#### **9.03 Serviceability**

The ambulance multiplexing electrical system shall be designed to be maintained and serviced easily. In the unlikely event of an electrical problem, the ambulance's electrical system shall be able to be connected remotely to the Internet and shall be able to be diagnosed or reprogrammed by a service technician at the ambulance manufacturer's main facility. This multiplex electrical system shall be proven to be virtually maintenance free. A failure (warranty) rate of less than 1% is required because this agency wishes to purchase an ambulance with the utmost reliability in service. Documentation of warranty claims relating to the electrical system shall be provided to the purchaser upon request.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

#### **9.04 Wiring**

All wiring for the electrical systems shall be stranded copper or copper alloy conductors of a gauge rated to carry 125 percent of the maximum current for which the circuit is protected. Voltage drops in all wiring from the power source to the component shall not exceed 10 percent. All circuits shall be wired in conformance with SAE J1292, *Automobile, Truck, Truck-Tractor, Trailer, and Motor Coach Wiring*. None of the ambulances electrical wiring and components shall terminate or originate in the oxygen storage compartment except for the oxygen flow control solenoid, compartment light, and switch plunger or trigger device.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

#### **9.05 Wiring Harness**

The ambulance wiring harnesses shall be a continuous run to each electrical component. The ambulance wiring shall contain no splices in the main wiring harness. The terminals on connectors of each end shall be machined crimped. Hand crimped electrical connectors are not permitted by the purchaser as they have been proven to be prone to premature failure and/or irregularities.

All ambulance wiring harnesses shall be enclosed in a plastic loom. This loom shall run from the electronic controller units to each specified electrical component. Instances where

conduit must travel through a tube structure, a rubber grommet shall be placed in the hole to prevent premature wear of the plastic loom and/or wiring. All wiring harnesses shall be secured to the roof and walls tube structures with insulated clamping fasteners.

The overall covering of jacketed cables shall be moisture resistant and have a minimum continuous temperature rating of 194°F (90°C), except for cable installations where the wiring may be exposed to higher temperatures. All wiring connections and terminations shall use a method that provides a positive standard connection. Wiring connections and terminations shall be installed in accordance with the device manufacturer's instructions. Wire nut, insulation displacement, and insulation piercing connections shall not be used.

All connections to the electrical components shall include a minimum 6 in. service loop of. All wiring connections shall utilize easy plug in style connectors.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

#### **9.06 Wiring Identification**

All wiring shall be identified f every 6" at a minimum. The wiring identification code shall indicate the position on the electronic controller unit for easy maintenance and diagnosis. Wiring identification shall be clearly visible and shall be printed on the insulated wire. No stickers will be allowed.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

#### **9.07 Circuit Protection**

Circuits shall be provided with properly rated low voltage overcurrent protective devices. Such devices shall be readily accessible and protected against heat in excess of the overcurrent device's design range, mechanical damage, and water spray. Circuit protection shall be accomplished by utilizing fuses, circuit breakers, fusible links, or solid state equivalent devices.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

#### **9.08 Wiring Schematics**

The complete set of wiring schematics shall clearly identify all wiring locations, routing, and component connection. A sample document shall be available to the purchaser on request to examine the quality of the electrical schematic. All instances of wiring not conforming to the standards established in this document shall be documented at the time of the proposal. Failure to comply with this requirement shall be cause for rejection of the proposal.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

#### **9.09 Electric Panel**



The electrical panel shall be located underneath the front passenger seat. It shall include in addition to the ECUs all block fuses and other electronic devices. All components shall be centralized in that location for ease of maintenance and diagnosis.

For future upgradability, one (1) extra 15 amp 12VDC circuit breaker shall be provided. It shall be wired and shall be ready for a future programmable function with the multiplexing electrical system.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**9.10 Grounding**

Dedicated grounding locations for all appliances, circuits, etc. shall be supplied. Appliance mounting screws/hardware shall not be used for grounding purposes, nor shall the body of the ambulance be used as a ground location. Star washers or unapproved, untested grounding methods shall not be used.

OEM grounds shall not be used as grounding location for the conversion circuits.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**9.11 Switching Requirements**

Switches, relays, terminals, and connectors shall have a direct current (dc) rating of 125 percent of maximum current for which the circuit is protected.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**9.12 Voltage Alarm**

The multiplex system shall incorporate an audible voltage warning when the system voltage of any battery bank drops below 11.5VDC.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**9.13 Load Management**

The multiplexing electrical system shall be programmed to automatically shed electrical load should the electrical output rating of the installed alternator drop below a programmed voltage level. Electrical components shall shed in order of priority. External load management systems or load management systems not programmable shall not be considered as the purchaser requires this electrical system to be flexible and customizable.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_



#### **9.14 Batteries**

There shall be two (2) OEM batteries. These batteries shall be linked together via an OEM controlled relay.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

### **10. 110VAC & 12VDC ELECTRICAL SYSTEMS AND INVERTER**

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#### **10.01 Overview**

The completed ambulance shall be equipped with two (2) forms of internal power sources: 110VAC and 12VDC. These internal power sources shall allow attendants in the ambulance to plug in additional accessories or to charge battery powered devices when needed.

All wiring shall be rated to handle the load of the electrical component specified. The 110VAC and 12VDC wiring and associated equipment shall be tested by the ambulance manufacturer prior to delivery. The testing criteria shall include polarity and load demand of all receptacles to verify that all wiring connections have been properly made.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

#### **10.02 12VDC Outlets**

All 12VDC power point outlets specified here shall be properly tested and shall be protected with a Schottky-style diode to isolate the medical equipment batteries from other loads. The diode shall be located in the electrical panel and shall be wired to the conversion batteries. It shall be designed to handle voltage of at least 48VDC. All wiring to the 12VDC outlets shall be clearly labeled and shall be one (1) continuous run from the diode to the outlet.

The ambulance shall be equipped with at least four (4) 12VDC "power point" style outlets. These outlets shall be breaker protected. They shall be energized when the module master switch is activated.

One (1) shall be installed on the street side of the vehicle in the cardiac monitor cabinet.

One (1) shall be installed on the curb side wall of the vehicle.

One (1) shall be installed in the ALS cabinet.

One (1) shall be installed on the cab emergency control console.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

#### **10.03 110VAC Outlets**

110VAC outlets shall be energized from the shoreline and/or from the inverter if equipped. All 110VAC outlets shall be UL certified, Nema 5-15, clearly identified on the unit, rated to 60Hz and have a pilot light when powered. A 110VAC GFCI shall be installed beyond the shoreline and shall disable all 110VAC outlets when tripped. The GFCI shall be located in

the streetside lower cabinet below the action area with a dedicated access door for ease of consulting and/or resetting if needed.

The ambulance shall be equipped with at least four (4) 110VAC 60Hz outlets. They shall be energized when the module master switch is activated or the shoreline plugged.

One (1) shall be installed on the street side of the vehicle in the first action area wall.

One (1) shall be installed on the street side of the vehicle in the cardiac monitor cabinet.

One (1) shall be installed on the curb side wall of the vehicle.

One (1) shall be installed in the ALS cabinet.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

#### **10.04 Auto Eject Shoreline**

A 20amp shoreline shall be installed on the driver's side of the vehicle. The shoreline shall be a Kussmaul Auto Eject with sealed casing and LED indicator light. When the shoreline is plugged into an exterior source, all 110VAC 60Hz outlets shall be energized. The shoreline shall be recessed into the vehicle and shall include a weather proof low profile cover.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

#### **10.05 1000W Xantrex Inverter**

A Xantrex Freedom HW power inverter rated for 1000 watts shall be installed in the patient compartment, behind the driver seat. The inverter shall be powered via a control panel in the rear attendant console. When this inverter is activated, all 110VAC outlets shall be energized.

An inverter integrated battery charger shall be provided for maintaining batteries in a fully charged condition when the shoreline is plugged.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

### **11. CONSOLES**

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#### **11.01 General**

Controls and switches that are expected to be operated by the belted attendant while the ambulance is in motion shall be visible and within reach. Switches shall be located in such a position that the driver does not have to unbuckle to activate or read the control switches while the ambulance is in motion.

Switches, indicators, and control devices shall be perceptively and permanently identified with universal automotive graphics or at least 12 point letters for the noun or function, and 8 point letters for the remainder of the legend.

For ease of identification, the controls and switches shall be contrasting colors etched or engraved in plastic or metal, or printed and laminated in see through plastic, and logically

grouped according to function. The switches shall have a different feel from the OEM switches. All switches and controls detailed here shall be properly LED illuminated for night driving.

Every switch shall incorporate a confirmation LED connected to the device or circuit that is activated. Confirmation lights wired directly to the switch shall not be tolerated as it doesn't confirm that the output activated, only that the switch is activated.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

#### **11.02 Front Console**

The completed ambulance shall have a vacuum-formed ABS, ergonomically-designed emergency control console integrated in the OEM dashboard. It shall include all controls and switches to operate all necessary emergency or mission critical functions such as:

1. Master switch (lockable)
2. Primary/Secondary emergency lighting
3. Side scene and rear load lights
4. Alarm cutoff for patient indicator and back up alarm
5. Wig Wag grill-mounted lights
6. Optional lighting activation (lightbars, additional warning lights, etc.)
7. Rear heat and AC controls with digital interior temperature display
8. Patient compartment lighting
9. Patient compartment exhaust
10. Door open indicator
11. Digital Ammeter/Volt Meter Display

The detail above describes the minimum features the front display shall activate. All switches shall be wired to a multiplex node located in the front console. Wiring directly to the electrical panel will not be tolerated as it adds unnecessary wires and connections. The master switch shall be lockable in the "ON" position to ensure that the power shall not be inadvertently cut.

Switch panels or displays requiring the operator to move their line of sight up or down is not permitted as this movement is not a natural line of sight movement for the driver and will take his or her focus off of the road.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

#### **11.03 Front Console Indicator Lights**

The front console shall integrate the following indicators:

1. **Patient Status Indicator Lights (intercodes):** the Red/Amber/Green patient indicator lights shall be integrated on the front Heads Up Console. An audible alarm shall sound when any state is activated from the patient compartment. The alarm shall be cancelled by the Alarm Cancel / Mute switch.
2. **Door Ajar Indicator:** This shall illuminate when an entry door is opened. An audible alarm shall sound when this indicator light is flashing.

**3. Battery Indicator Light:** This light shall illuminate when the conversion battery bank is operational.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

#### **11.04 Rear Console**

The completed ambulance shall have a rear action area console. It shall include all controls and switches to operate all necessary emergency or mission critical functions such as:

1. Rear heat and AC controls with digital interior temperature display
2. Patient compartment lights, streetside
3. Patient compartment lights, curbside
4. Action area reading light
5. Suction pump
6. Patient compartment exhaust
7. Patient status indicator (red, yellow, green)

Switches shall be easily cleaned and sanitized.

The detail above describes the minimum features the rear console shall activate. All switches shall be wired to a multiplex node located in the rear console. Wiring directly to the electrical panel will not be tolerated as it adds unnecessary wires.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

#### **11.05 Heat/AC Controls**

The rear HVAC system shall be able to be controlled from the action area and the cab via a touch pad. It shall integrate functions to raise and lower the patient compartment temperature and to control the fan speed. Speed available shall be off, 1, 2, 3 and automatic mode. There shall be a digital display for the patient compartment temperature, the set temperature, the fan speed, as well as the ambient temperature information. Two (2) or more auxiliary buttons shall be available for future expansion if needed. These touch pads, at least one (1) in the front console and one (1) in the rear console, shall be part of the multiplex system and also act as nodes.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

#### **11.06 Hour Meter**

A digital engine hour meter shall be integrated in the front console.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

## **12. EMERGENCY AND TASK LIGHTING**

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### **12.01 General**

Each ambulance shall have a system of optical warning devices as specified in this section. The visual warning system on the ambulance shall have two (2) distinct programmed sequences during emergency operation. These shall be defined in this specification as Primary and Secondary. The Primary mode shall signal to drivers and pedestrians that the ambulance is responding to an emergency and is calling for the right-of-way. The Secondary mode shall indicate that the ambulance is stopped and is blocking the right-of-way.

The bidder shall comply where specific vendor and model numbers are described as these lights are purchased from a common vendor and can be purchased by all manufacturers.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

### **12.02 Flash Rate**

Flash patterns shall be easily programmable through the multiplexing electrical system for all emergency lighting. External flasher units are not preferred, nor lights programmed with a specific flash pattern.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

### **12.03 Front Plane Lights - Cab Riser**

Minimum nine (9) LED lights, including two (2) Whelen 400 series LED lights and seven (7) Whelen 500 series LED lights, shall be installed in the aerodynamic cab riser. The lighting shall include a mix of seven (7) red and two (2) clear LED lights. These lights shall flash in an alternating pattern where each red side flashes together first followed by the clear light.

These lights shall flash in a pattern programmed by the multiplexing electrical system.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

### **12.04 Wig Wags**

There shall be two (2) clear Whelen LINZ6 series LED lights installed in the lower portion of the chassis grille to act as Wig Wag emergency lights. These lights shall flash in a pattern programmed by the multiplexing electrical system.

Under no circumstances shall the OEM high beam lights be modified or utilized as Wig Wag emergency lights.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**12.05 Grille Lights**

Two (2) red Whelen LINZ6 Series LED lights with clear lenses shall be installed in the front grille. These lights shall flash in a pattern programmed by the multiplexing electrical system.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**12.06 Front Intersection Lights (107)**

Two (2) Whelen 700 Series LED red lights with clear lenses shall be installed on the fenders of the chassis. These lights shall be located in a forward position to provide adequate visibility at an intersection.

These lights shall flash in a pattern programmed by the multiplexing electrical system.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**12.07 Side Plane Warning Lights (738)**

Four (4) Whelen 600 Series LED red warning lights with clear lenses shall be installed on the side plane of the ambulance, two (2) on each side towards the corners.

These lights shall flash in a pattern programmed by the multiplexing electrical system.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**12.08 Rear Plane Warning Lights**

Two (2) Whelen 500 Series LED red warning lights with clear lenses shall be installed on the low-profile aerodynamic rear spoiler, towards each corner. One (1) Whelen 500 Series LED amber warning light with clear lens shall be installed centered between the two (2) red lights.

These lights shall flash in a pattern programmed by the multiplexing electrical system.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**12.09 Scene Lighting**

Four Whelen 600 Series LED scene lights shall be installed on the side planes of the ambulance, inboard of the red emergency lights. The scene lights shall project at a downward angle to allow for adequate lighting of the area surrounding the sides of the ambulance.

They shall be controlled independently for each side by a switch in the front console. The curbside scene lights shall also be activated when the side entry door is opened.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_





**12.10 Load Lights (745)**

Two (2) Whelen Perimeter Enhancement Series LED load lights shall be installed on the aerodynamic rear spoiler, between the red and amber warning lights. The load lights shall project at a downward angle to allow for adequate lighting of the area surrounding the rear of the ambulance.

They shall be controlled by a switch in the front console. The lights shall also be activated when the rear entry door is opened.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**12.11 Center High-Mounted Stop Lamp**

A Whelen #PSR00XRR Red LED Strip-Lite shall be installed on the low-profile aerodynamic rear spoiler to serve as a 3<sup>rd</sup> brake lamp. The light shall be wired to the OEM rear brake lights in accordance with Ford QVM Guidelines.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**12.12 Patient Compartment Illumination (815)**

Seven (7) Whelen #80C0EHCR round LED dome lights shall be installed in the ceiling of the patient compartment. The LED lights shall be controlled via switches on the rear control panel. Four (4) LED lights of the patient compartment shall be illuminated when the patient compartment entry doors are opened.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**12.13 Patient Compartment Timer**

An automatic digital timer shall be integrated into the rear console. Four (4) LED lights of the patient compartment shall be illuminated when the timer is activated. This timer shall be triggered with five (5) minutes increment and display the time remaining.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

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**13. AUDIBLE WARNING DEVICES**

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**13.01 Siren/PA System**

Siren-PA System to be Whelen 295HFS or equivalent with: radio, PA, Manual, Wail, Yelp, Air Horn and Piercer tone.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**13.02 Speakers**

Two (2) Whelen 100-watt siren speakers shall be integrated into the front bumper of the chassis. They shall be securely mounted in an engineered support to fit without modifying the chassis. This housing shall be designed not to restrict airflow or to reduce the effectiveness of the siren speaker.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**13.03 Backup Alarm**

A 97 db. backup alarm shall be provided. It shall be activated when the vehicle is put in reverse. The cancel switch in the cab-mounted emergency control console shall mute the alarm when pressed after the alarm is activated. However, an automatic function shall reactivate the alarm after 15 seconds of down time. The backup alarm shall be located under the rear of the ambulance.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**14. OXYGEN AND SUCTION**

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**14.01 General**

The completed ambulance shall have a piped medical oxygen system capable of storing and supplying a minimum of 3,000 liters of medical oxygen. The main oxygen supply shall be from a compressed gas cylinder that the purchaser will provide and install at the time the vehicle is placed in service. Low pressure, electrically conductive hose and fittings approved for medical oxygen only shall be used. All oxygen piping shall be concealed, loomed and not exposed. Where oxygen lines may travel through a hole, a grommet shall be used to prevent premature wear of the oxygen line. All oxygen tubing shall be secured yet shall be still accessible for maintenance. Oxygen shall be piped to self-sealing oxygen outlets. The system shall be tested prior to delivery and the results of the test shall be provided with the end user documentation.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

**Does your proposal include an exception to this requirement?** Y\_\_\_ N\_\_\_

**14.02 Oxygen Outlets, Quick Connect, Three (3)**

Three (3) Quick Connect surface mounted oxygen outlets shall be installed in the completed ambulance. Two (2) shall be installed on the medical center wall in the main action area and one (1) shall be located on the curbside wall towards the forward end of the squad bench. These outlets shall be tested prior to delivery of the ambulance.

Exact location of the oxygen outlets shall be located on the provided drawings.

**Does your bid comply with the specification as written?** Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**14.03 Oxygen Tank Storage**

The oxygen tank shall be stored in an inside an aluminum cabinet next to the right rear entry door. The cylinder shall be able to be accessed and removed from the outside of the patient compartment. The regulator shall be accessible by a Lexan window form the curb side seating position without opening the main cabinet door.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**14.04 Oxygen Tank Bracket**

A universal oxygen cylinder bracket shall be installed in the oxygen compartment to accommodate either an "M" or "K" size of oxygen cylinder. This bracket shall be securely fastened to reinforcement mounting plates.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**14.05 Suction**

One (1) RICO RS4 electrically-controlled suction system shall be installed in the patient compartment. The outlet shall be on the action area wall with the control in the rear switch panel. The Thomas brand suction pump shall be located behind the street side cabinetry and be easily accessible for maintenance. It shall be securely mounted with rubber pads to eliminate any unnecessary noise. A vacuum indicator gauge ranging from 0 to 760 mm Hg shall be provided.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**15. VARIOUS**

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**15.01 Signs and Instructions**

All required signs, instruction plates, and labels related to the electrical system shall be permanently attached and easy to read. All signage and labeling shall be resistant to fluids, extreme temperatures (-30°F (-25°C) and 176°F (80°C)), and ultra violet radiation. These labels shall meet the UL 969, *Standard for Marking and Labeling Systems*. All exterior labels relating to safety or critical operational instructions shall be reflective or illuminated.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**15.02 Delivery.**

Bidders shall be responsible for delivery to Anderson County, TN

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**15.03 Fog Lights**

Bidders shall install led lightbar version fog lights on chassis front bumper area.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**15.04 Ford FIN GPC discount per State of TN.**

Discount shall be applied by bidder.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**15.05 All warning light lenses shall be clear.**

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**15.06 Tire chains to be installed on Ford chassis.**

On Spot or equal tire chains to be installed.

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

**15.04 References for this specific design ambulance – no exceptions**

CUSTOMER	CONTACT	STATE	MANF	TITLE	#

Does your bid comply with the specification as written? Y\_\_\_ N\_\_\_

Does your proposal include an exception to this requirement? Y\_\_\_ N\_\_\_

Additional warranty or logistical services that the bidder might provide above and beyond the requirements of this specification may be listed below.

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**16. OPTIONS** Purpose of this section is to list out additional options that may or may not be included in the bid approval. It is not a bid requirement to respond or provide information on these options. Anderson County reserves the right to add these items individually or reject them individually.

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**16.01 Lifepak 15 Cardiac Monitor Mount**

Technimount system Bracket Pro Serie 35 complete assembly support includes standard anodized surface base, support device section, hardware and instruction (part number 210-00-PC15).

**16.02 Brush Guard**

GoRhino brush guard, black in color.

**16.03 Stryker Powerload**

Purchase and installation of the Stryker Power Load cot fastening system.

**16.04 Stryker Stair Chair**

Stryker Stair Chair Pro Model #6252 with IV pole clip, foot support and vinyl head support.

**16.05 Ferno PowerTraxx EZ Glide**

Ferno PowerTraxx EZ Glide with one additional battery, battery charger, rear lifting handles, headrest and IV pole.

**16.06 Stryker Power Cot**

Stryker Power Pro XT Model # 6506 with XPS, including Backrest Storage Pouch, Head End Storage Flat, Dual Wheel Locks, 3 stage IV Pole, Equipment Hook, Head End O2 Holder, G Rated Bolster Mattress, knee gatch and the Stryker Smart Power System.

**16.07 Bariatric Cot**

MX-PRO Bariatric Transport Ambulance Cot (model #6083) with IV pole, dual wheel lock, rigid head and foot end push/pull handles, X-frame guards, side lift handles and non-pocketed head end storage.

**16.08 Bariatric Ambulance Lift**

Not a ramp style, powered lift system that stows under rear of ambulance.

**16.09 USB charging outlets in cab and module – Two (2) each**

Exact location to be determined at pre-construction

**16.10 Custom graphics, striping, lettering**

Bidder to provide graphics package per state of Tennessee requirements. Bidders are encouraged to contact purchasing with specific questions regarding layout to match existing fleet.

**16.11 Pre and Post build Site Visit**

Provide travel, lodging and meals for two Anderson County employees for a pre-build and post-build site visit at location of ambulance build facility.

**16.12 Post build Site Visit**

Provide travel, lodging and meals for two Anderson County employees for a post-build site visit at location of ambulance build facility.

**16.13 360-degree Birds Eye Cameras**

Provide and install 360-degree surround view camera system to replace backup camera system. Must have video monitor installed in cab, in easy view area of driver.

**16.14 Cradlepoint**

COR IBR900 router with WiFi and all antennas and cables. Unit to be installed by bidder.

**16.15 360-degree Exterior Remote Control Spot Light**

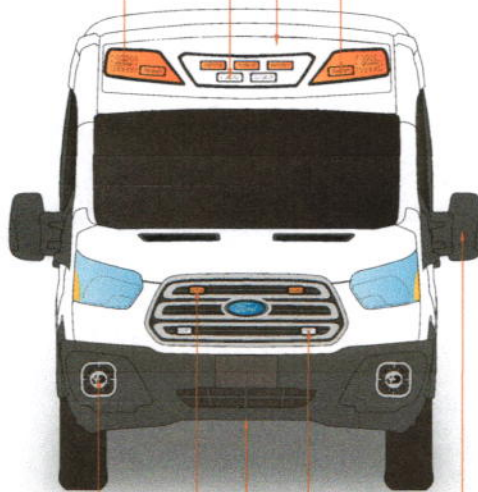
Exterior LED spot light with interior wired remote control, capable of rotating side to side and upwards and downwards.

STANDARD UTB24  
WHITE LED EMERGENCY LIGHTS (2)  
WHELEN 500 SERIES

STANDARD UTB24  
RED LED EMERGENCY LIGHTS (2)  
WHELEN 480 SERIES

STANDARD UTB24  
AERODYNAMIC CAB RISER

STANDARD UTB24  
RED LED EMERGENCY LIGHTS (5)  
WHELEN 500 SERIES



STANDARD A6B11  
100W SIREN SPEAKERS (2)  
INTEGRATED IN FRONT BUMPER

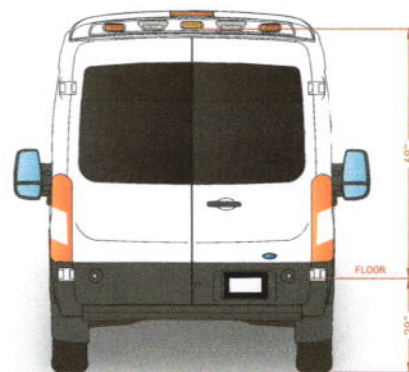
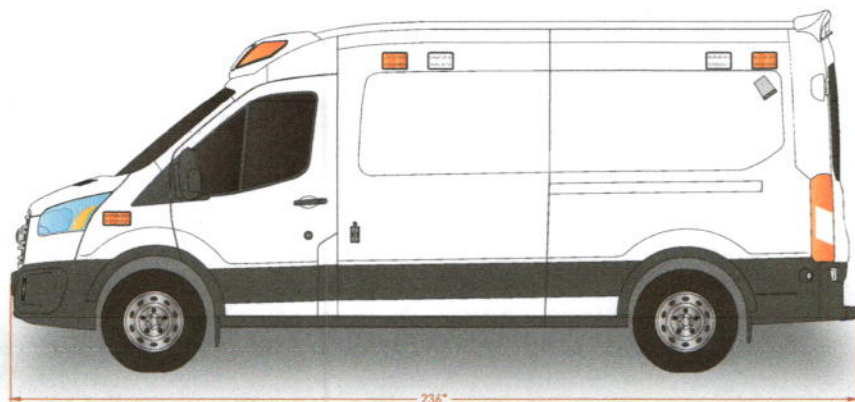
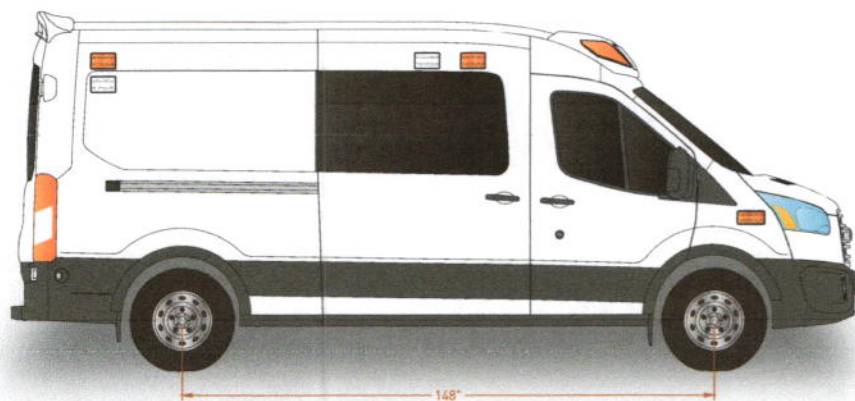
STANDARD UT42S  
RED LED EMERGENCY LIGHTS (2)  
WHELEN LINZA SERIES

STANDARD EF811  
OEM EXTERIOR MIRRORS (2)

OPTION UT42A  
WHITE LED WIP-WASH LIGHTS (2)  
WHELEN LINZA SERIES

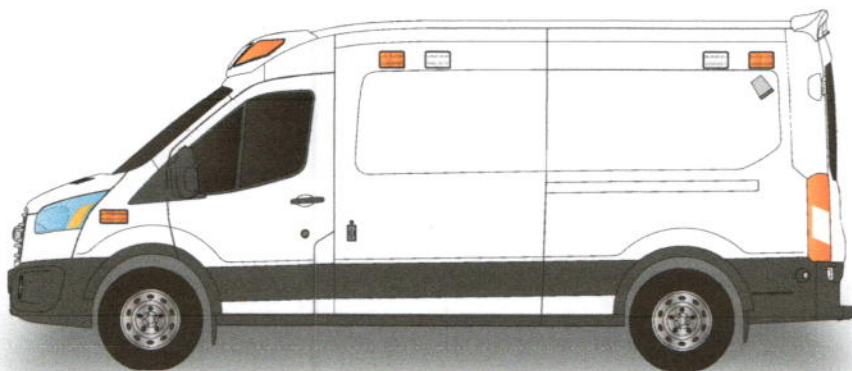
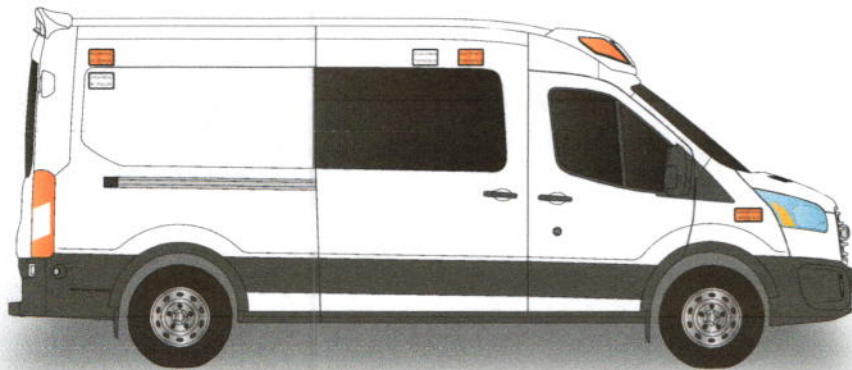
STANDARD EPE14  
UNDERCOATING PROTECTION UNDER THE VEHICLE

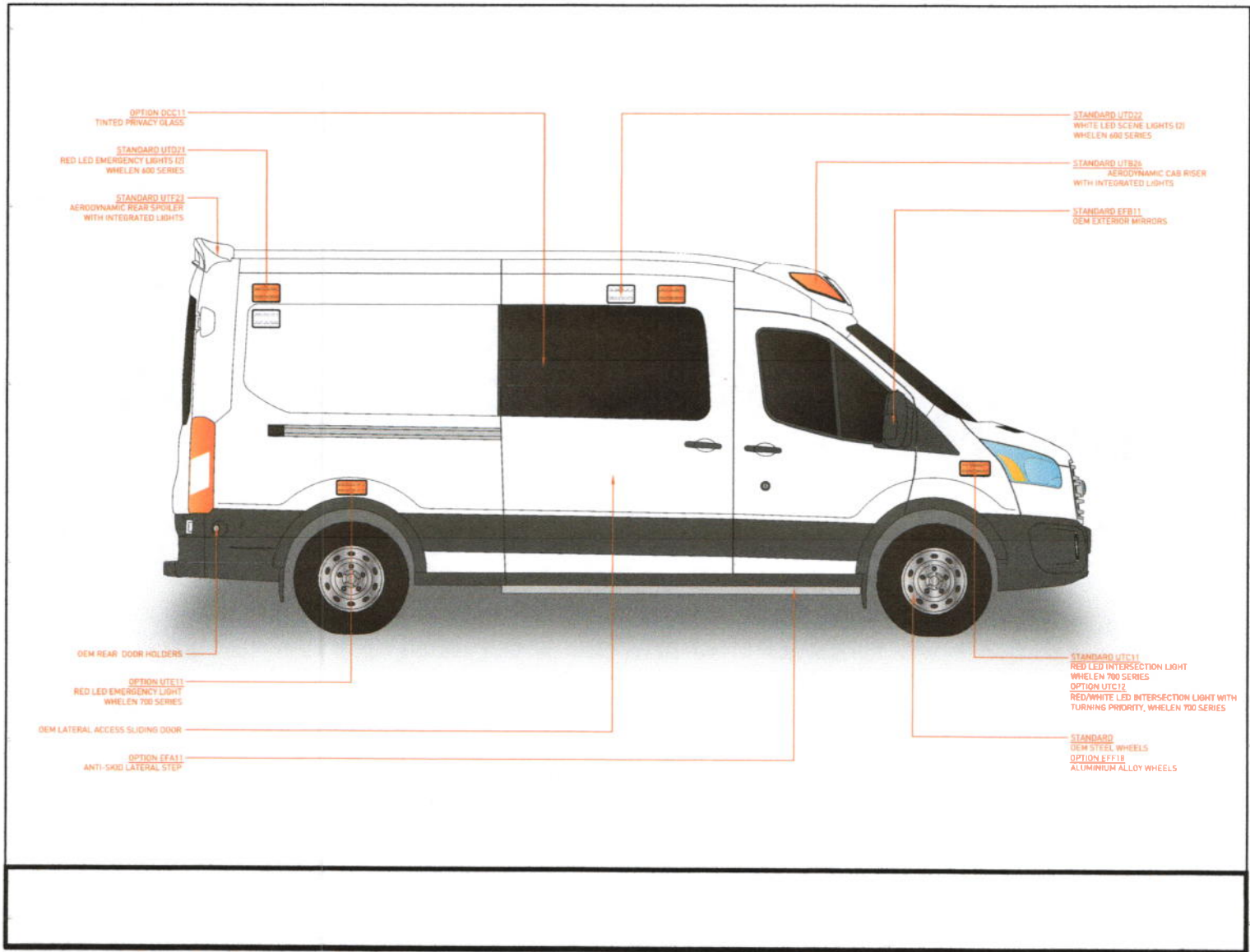


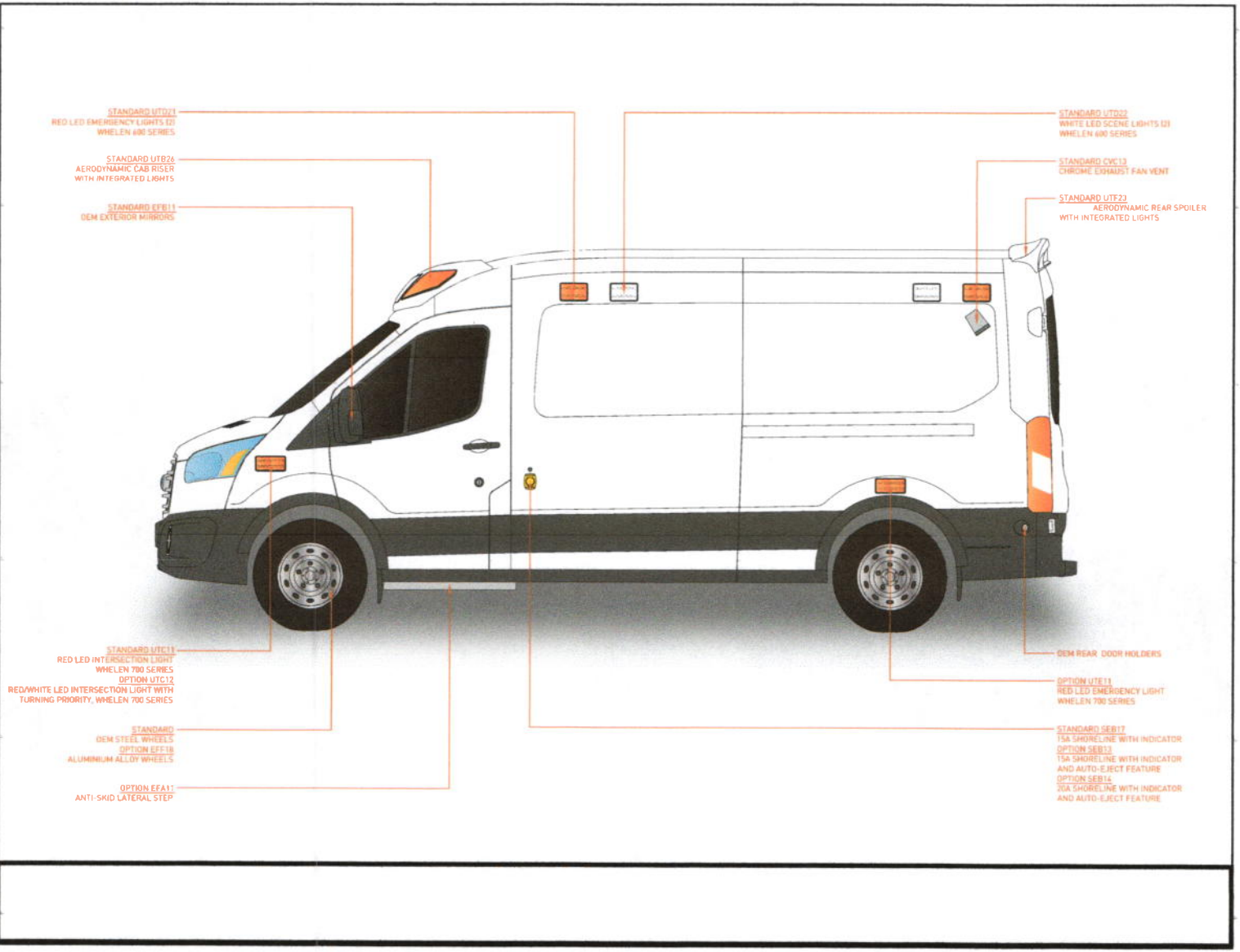


**NOTE**

THE TOTAL HEIGHT OF THE VEHICLE AND THE LOADING HEIGHT CAN BE DIFFERENT ACCORDING TO CHASSIS AND SUSPENSIONS







STANDARD UTF21  
RED LED EMERGENCY LIGHTS 121  
WHELEN 400 SERIES

STANDARD UTF26  
AERODYNAMIC CAB RISER  
WITH INTEGRATED LIGHTS

STANDARD XF811  
OEM EXTERIOR MIRRORS

STANDARD UTF22  
WHITE LED SCENE LIGHTS 121  
WHELEN 400 SERIES

STANDARD CVC13  
CHROME EXHAUST FAN VENT

STANDARD UTF23  
AERODYNAMIC REAR SPOILER  
WITH INTEGRATED LIGHTS

STANDARD UTC11  
RED LED INTERSECTION LIGHT  
WHELEN 700 SERIES

OPTION UTC12  
RED/WHITE LED INTERSECTION LIGHT WITH  
TURNING PRIORITY, WHELEN 700 SERIES

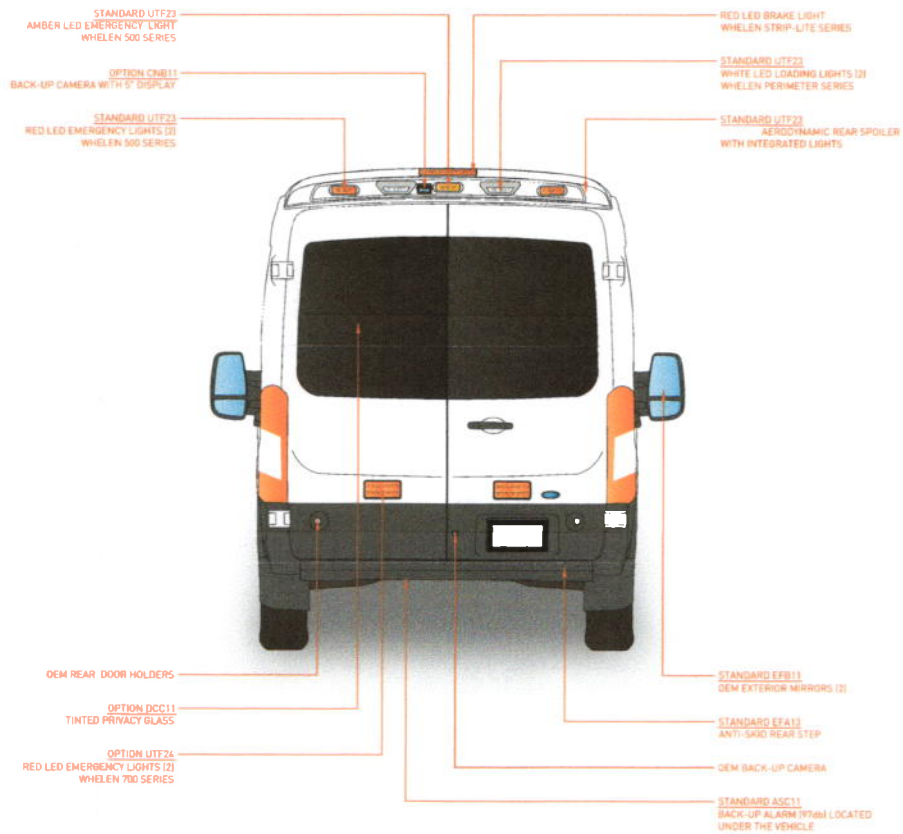
STANDARD  
OEM STEEL WHEELS  
OPTION EFF18  
ALUMINUM ALLOY WHEELS

OPTION EFA11  
ANTI-SKID LATERAL STEP

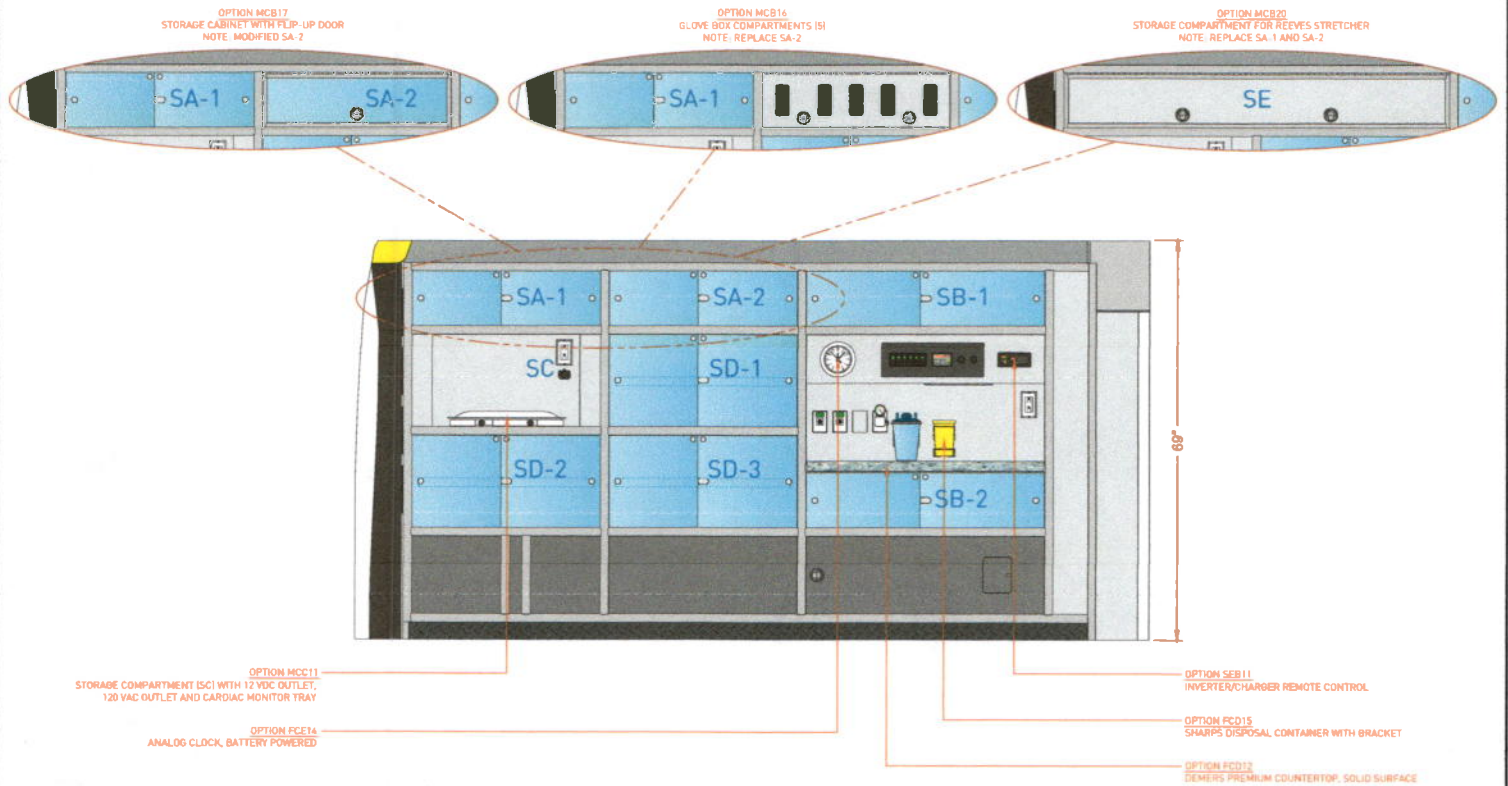
DEM REAR DOOR HOLDERS

OPTION UTF11  
RED LED EMERGENCY LIGHT  
WHELEN 700 SERIES

STANDARD SEBIT  
TSA SHORELINE WITH INDICATOR  
OPTION SEB13  
TSA SHORELINE WITH INDICATOR  
AND AUTO-EJECT FEATURE  
OPTION SEB14  
TSA SHORELINE WITH INDICATOR  
AND AUTO-EJECT FEATURE

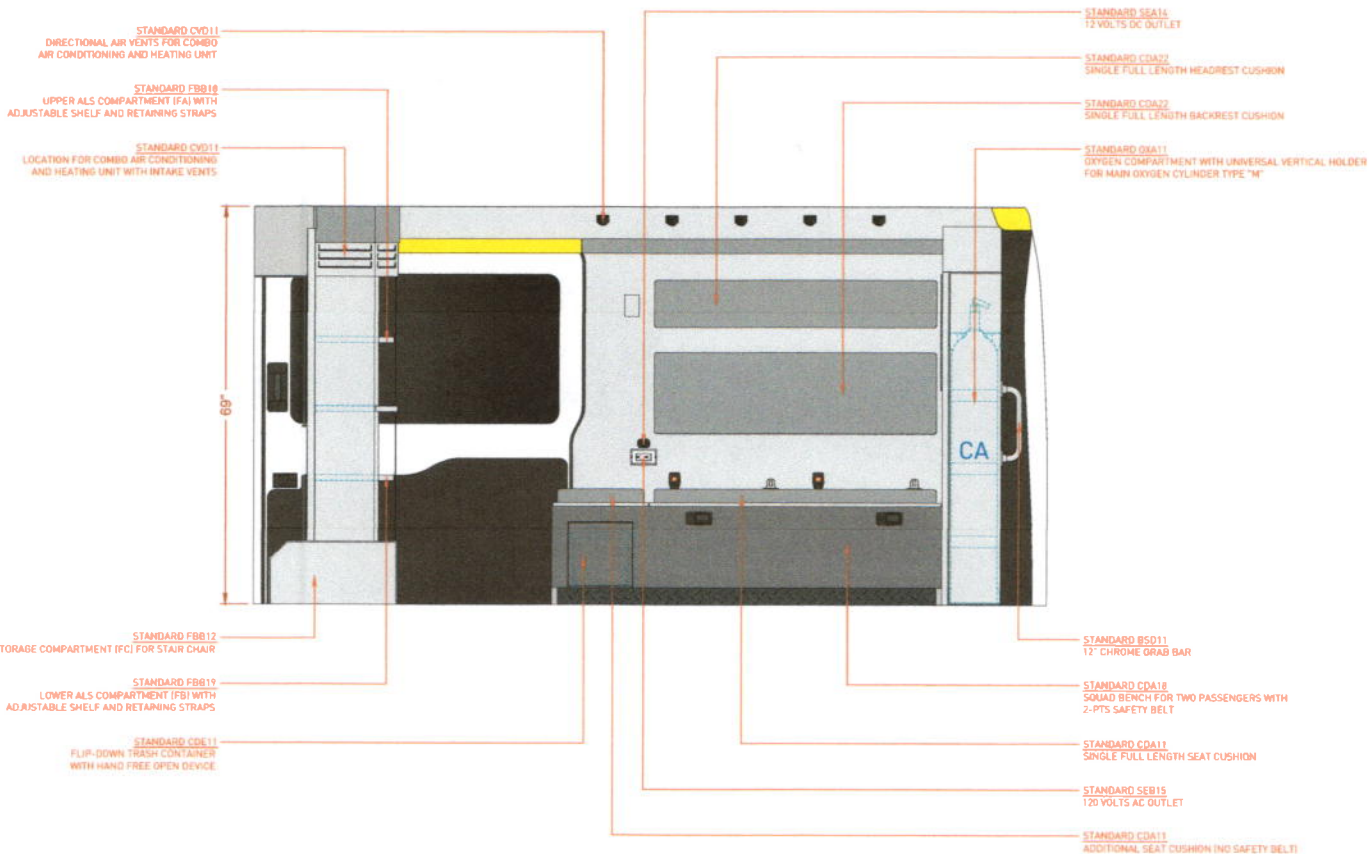






COMPARTMENT	DIMENSIONS L x H x D
MEDICAL CABINET SA	33.00" x 10.00" x 7.50"
MEDICAL CABINET SB	42.00" x 10.00" x 7.50"
STORAGE COMP. SC	33.25" x 16.75" x 11.25"
MEDICAL CABINET SD	33.00" x 16.25" x 9.50"
REEVES COMPARTMENT SE	67.00" x 10.00" x 7.50"

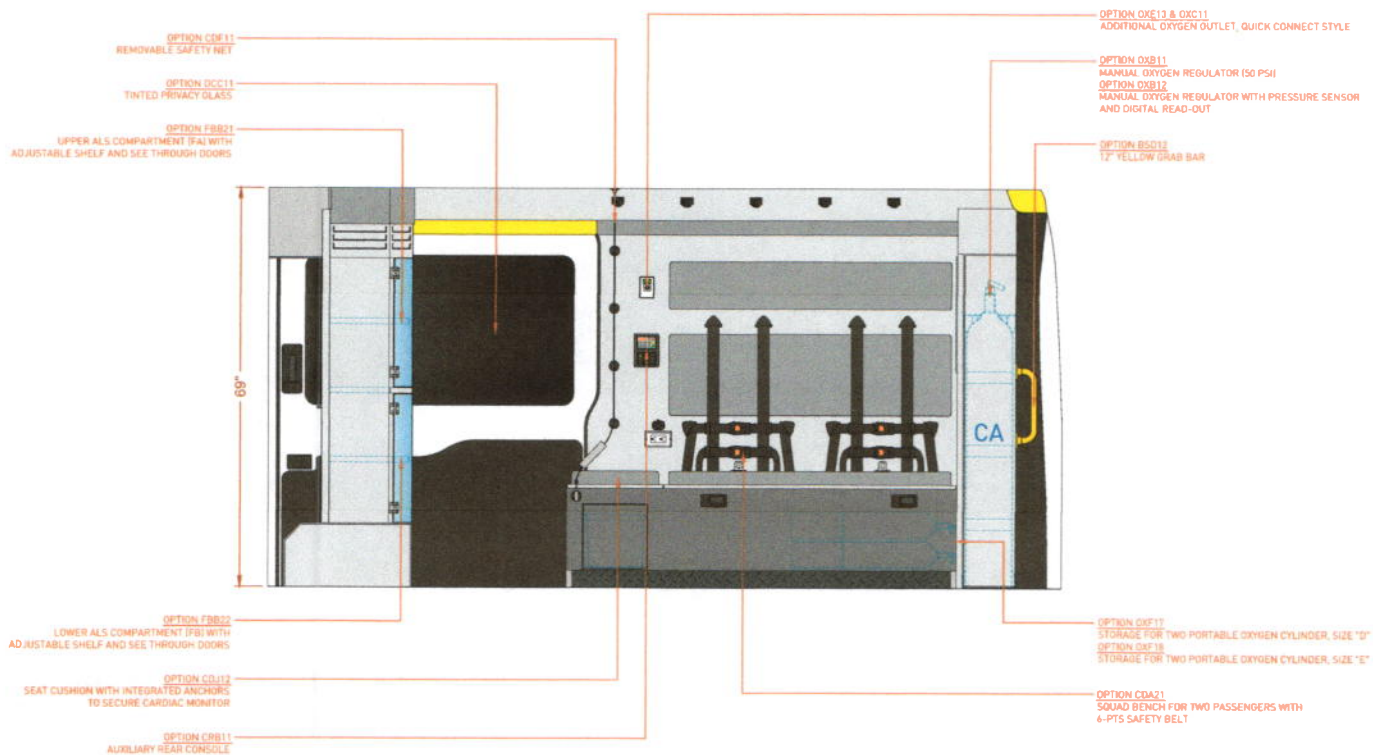




COMPARTMENT	DIMENSIONS L x H x D
OXYGEN COMPARTMENT CA	10.00" x 63.25" x 10.00"







COMPARTMENT	DIMENSIONS L x H x D
OXYGEN COMPARTMENT -CA-	10.00" x 63.25" x 10.00"

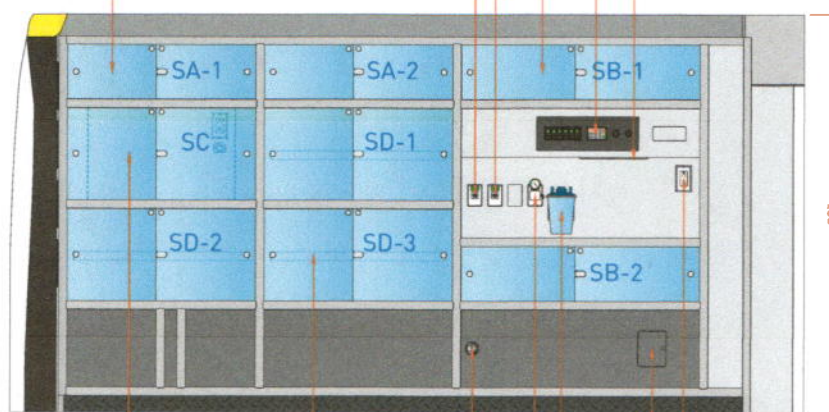
STANDARD OXE11 & OXC11  
TWO OXYGEN OUTLETS, QUICK CONNECT STYLE

STANDARD MCA15 & MCB11  
MEDICAL CABINET (SA) WITH CLEAR  
POLYCARBONATE SLIDING WINDOWS

STANDARD MCA15 & MCB11  
MEDICAL CABINET (SB) WITH CLEAR  
POLYCARBONATE SLIDING WINDOWS

STANDARD CRA11  
REAR CONSOLE WITH 12 VOLTS DC OUTLET

STANDARD MCA15  
WHITE LED READING LAMP



STANDARD MCA15 & MCB11  
STORAGE COMPARTMENT (SC) WITH CLEAR POLYCARBONATE  
SLIDING WINDOWS, 12 VDC OUTLET AND 120 VAC OUTLET

STANDARD MCA15 & MCB11  
MEDICAL CABINET (SD) WITH CLEAR POLYCARBONATE  
SLIDING WINDOWS AND ADJUSTABLE SHELF

STANDARD SEB15  
120 VOLTS AC OUTLET

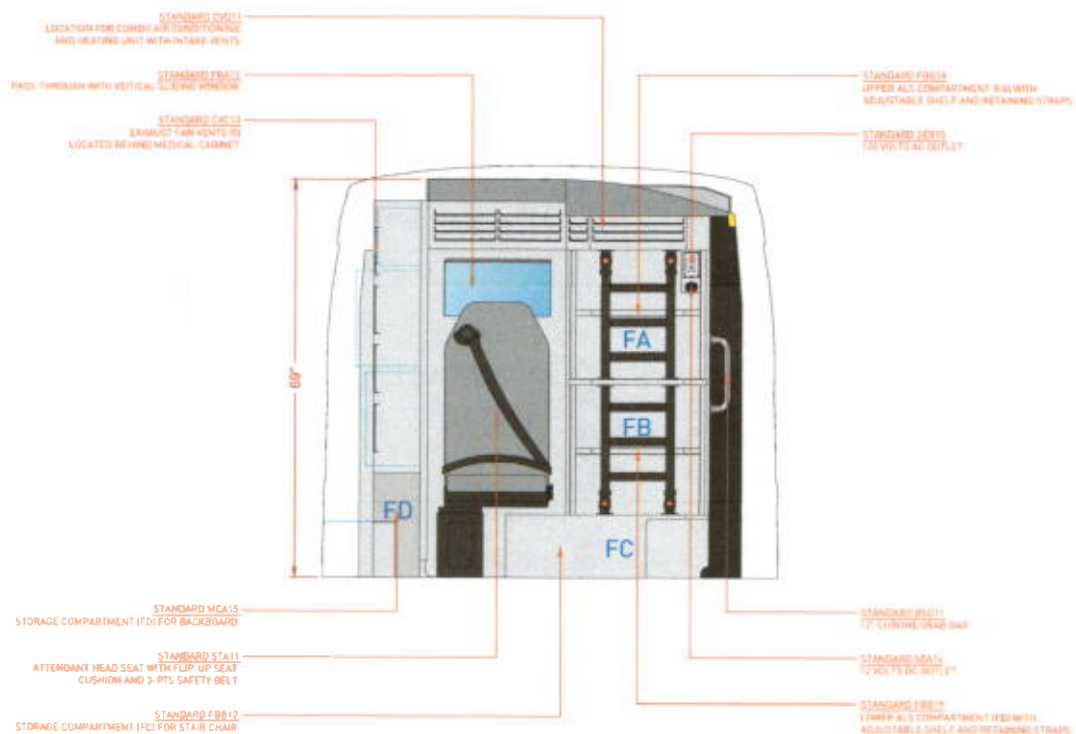
STANDARD MCA15  
ACCESS SLIDING DOOR FOR ELECTRICAL BREAKERS

STANDARD SUD11  
SUCTION OUTLET, QUICK CONNECT STYLE

STANDARD SUD11  
SUCTION DISPOSABLE CANISTER

STANDARD MCA15  
MAINTENANCE ACCESS FOR ELECTRICAL PANEL,  
VACUUM PUMP, ELECTRICAL BREAKERS & FUSES,  
COMMUNICATION RADIO AND MORE

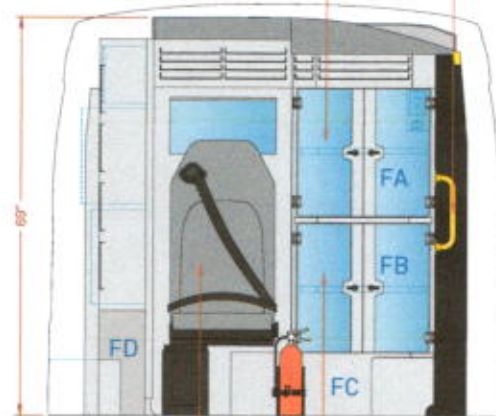
COMPARTMENT	DIMENSIONS L x H x D
MEDICAL CABINET SA	33.00" x 10.00" x 7.50"
MEDICAL CABINET SB	42.00" x 10.00" x 7.50"
STORAGE COMP. SC	33.25" x 16.75" x 11.25"
MEDICAL CABINET SD	33.00" x 16.25" x 9.50"



COMPARTMENT	DIMENSIONS L x H x D
ALS COMPARTMENT FA	24.50" x 22.50" x 12.75"
ALS COMPARTMENT FB	24.50" x 23.00" x 12.75"
STAIR CHAIR COMP. FC	35.00" x 10.75" x 22.00"
BACKBOARD COMP. FD	8.00" x 18.50" x 69.00"

OPTION FB01  
UPPER ALS COMPARTMENT (FB) WITH  
ADJUSTABLE SHELF AND SEE THROUGH DOORS

OPTION B5D12  
12" YELLOW GRAB BAR

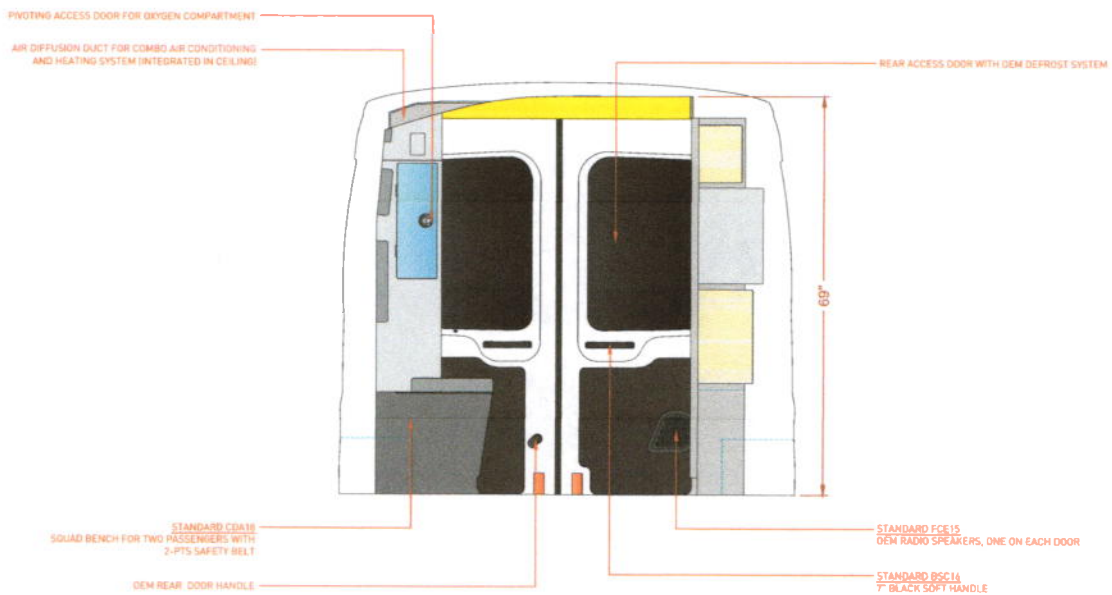


OPTION ST012  
ATTENDANT HEAD SEAT WITH FLIP-UP SEAT CLEARENCE  
3-PTS SAFETY BELT AND CHILD SAFETY DEVICE

OPTION FB022  
LOWER ALS COMPARTMENT (FB) WITH  
ADJUSTABLE SHELF AND SEE THROUGH DOORS

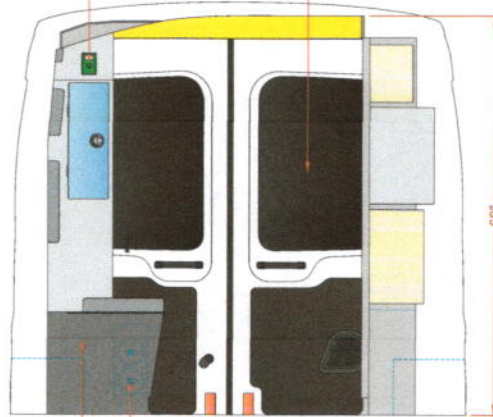
OPTION FC012  
FIRE EXTINGUISHER ABC (5lbs)

COMPARTMENT	DIMENSIONS L x H x D
ALS COMPARTMENT FA	24.50" x 22.50" x 12.75"
ALS COMPARTMENT FB	24.50" x 23.00" x 12.75"
STAIR CHAIR COMP. FC	35.00" x 10.75" x 22.00"
BACKBOARD COMP. FD	8.00" x 18.50" x 69.00"



OPTION OXB13  
ELECTRONIC CONTROL VALVE WITH MANUAL BY-PASS

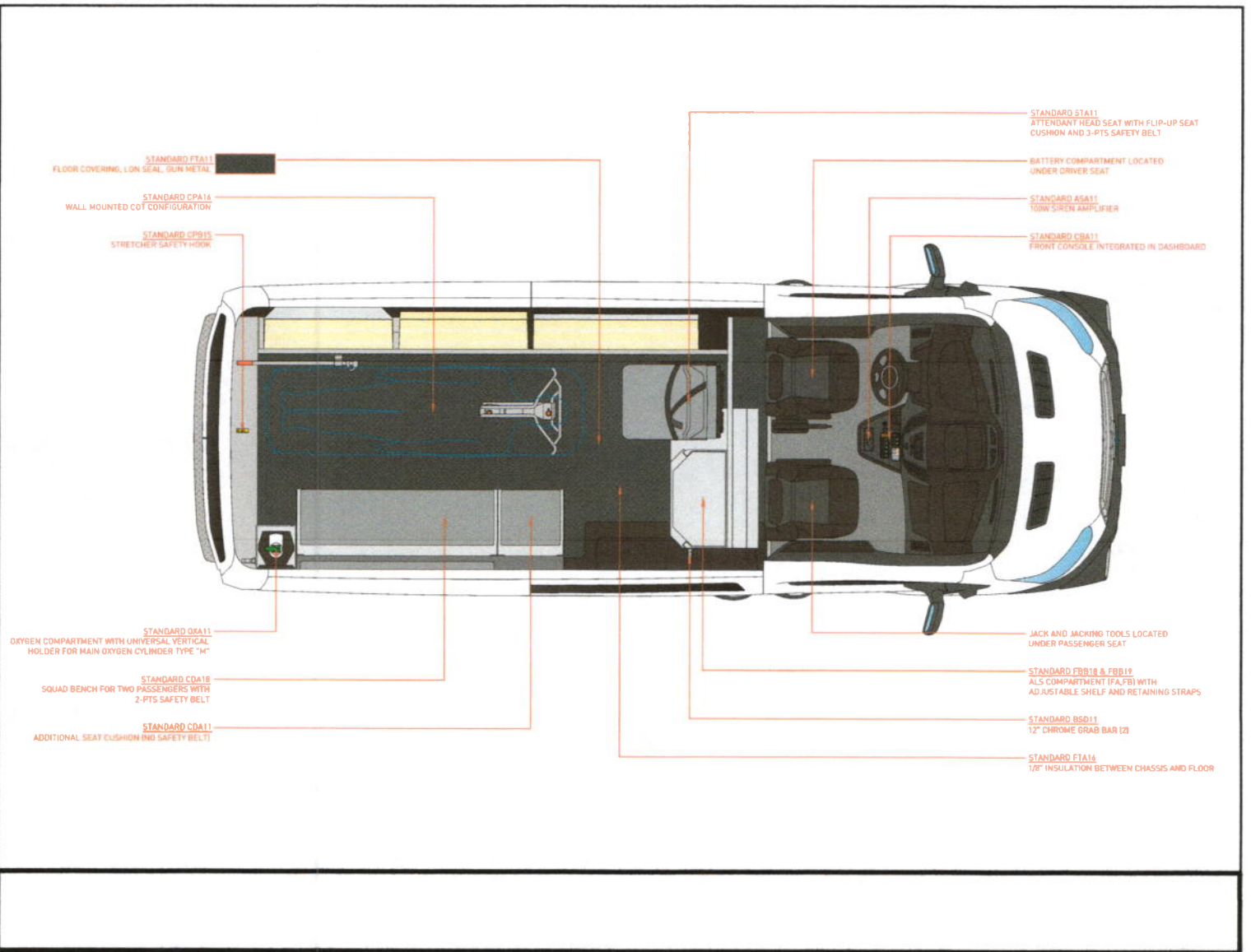
OPTION DCC11  
TINTED PRIVACY GLASS



OPTION CDA21  
SQUAD BENCH FOR TWO PASSENGERS WITH  
6-PTS SAFETY BELT

OPTION OXF17  
STORAGE FOR TWO PORTABLE OXYGEN CYLINDERS, SIZE "D"  
OPTION OXF18  
STORAGE FOR TWO PORTABLE OXYGEN CYLINDERS, SIZE "E"







OPTION COJ17  
SEAT CUSHION WITH INTEGRATED ANCHORS  
TO SECURE CARDIAC MONITOR

OPTION OXF17  
STORAGE FOR OXYGEN CYLINDERS, SIZE "D"  
OPTION OXF18  
STORAGE FOR OXYGEN CYLINDERS, SIZE "E"

OPTION CDA21  
SQUAD BENCH FOR TWO PASSENGERS WITH  
6-PTS SAFETY BELT

OPTION CDF11  
REMOVABLE SAFETY NET

OPTION FCB12  
FIRE EXTINGUISHER ABC (5lbs)

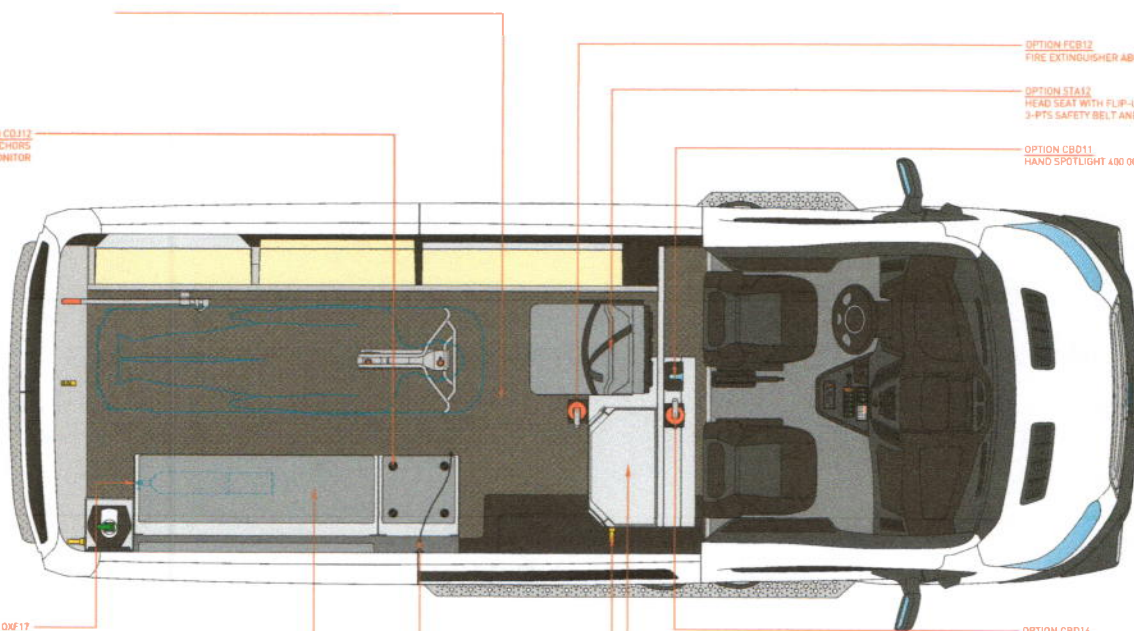
OPTION STA12  
HEAD SEAT WITH FLIP-UP SEAT CUSHION,  
3-PTS SAFETY BELT AND CHILD SAFETY DEVICE

OPTION CBD11  
HAND SPOTLIGHT 400 000 CP WITH BRACKET

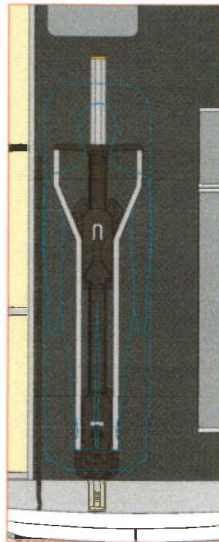
OPTION CBD16  
FIRE EXTINGUISHER ABC (5lbs)

OPTION FBB21 & FBB22  
ALS COMPARTMENT (FA-FBI WITH  
ADJUSTABLE SHELF AND SEE THROUGH DOORS)

OPTION BSO12  
12" YELLOW GRAB BAR (2)



OPTION CPA12  
LEFT FLOOR MOUNTED COT CONFIGURATION  
OPTION CPB13  
STRYKER PERFORMANCE LOAD FLOOR MOUNTED  
OPTION CPD11  
INDUCTIVE CHARGING FEATURE

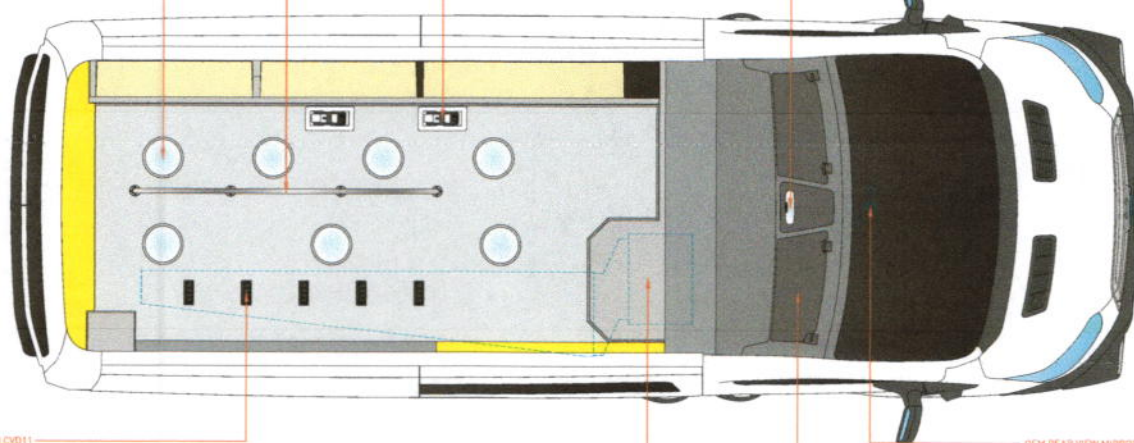


STANDARD BSD11  
10" CHROME GRAB RAIL

STANDARD PLA11  
8" WHITE LED DOME LIGHTS (7)  
WHELEN MODEL #W002EHC

STANDARD FCA13  
RECESSED/FLEXIBLE TV HOOKS (2)

STANDARD CBC14  
OEM READING LIGHT



STANDARD CVD11  
DIRECTIONAL AIR VENTS FOR COMBO  
AIR CONDITIONING AND HEATING UNIT

STANDARD CVB11 & CVH11  
TIE-IN TO OEM HEATING SYSTEM AND  
TIE-IN TO OEM AIR CONDITIONING SYSTEM  
IN A/C & HEATING COMBO UNIT

OEM REAR VIEW MIRROR WITH INTEGRATED  
BACK-UP CAMERA DISPLAY

OEM SUN VISORS (2)

OPTION BS012  
40" YELLOW GRAB RAIL

OPTION CNB12  
INTERIOR CAMERA, SURFACE MOUNTED

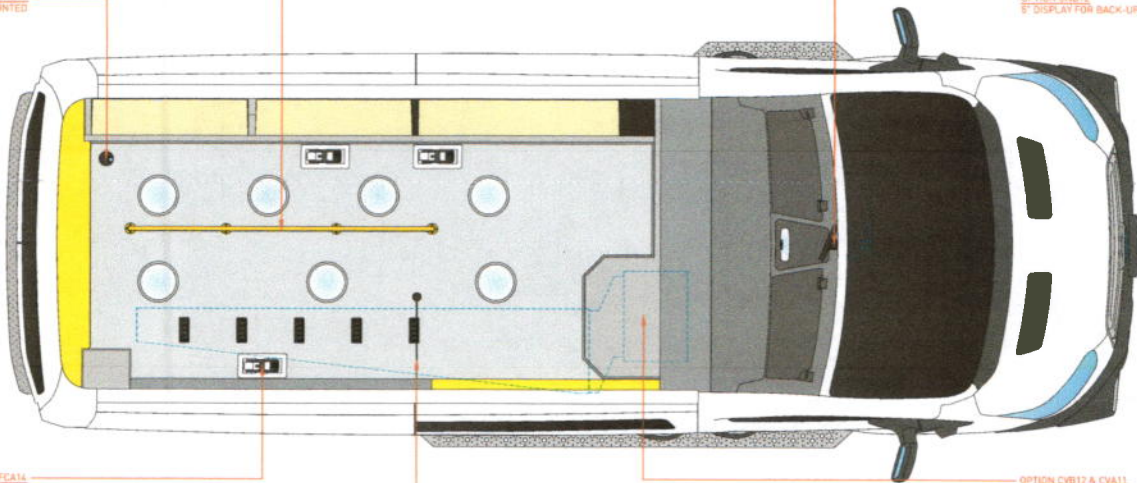
OPTION CNB11  
5" DISPLAY FOR BACK-UP CAMERA

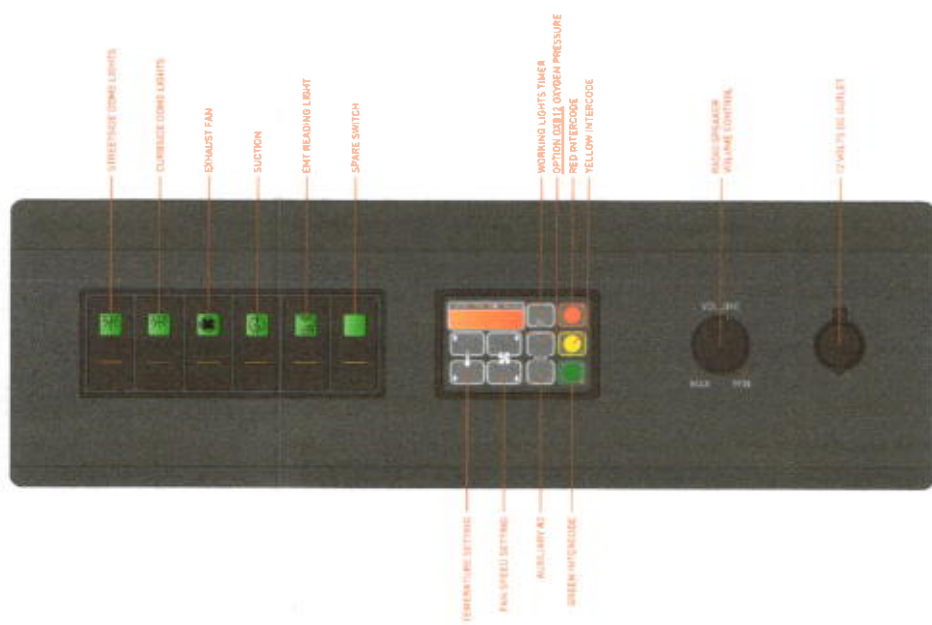
OPTION CNB12  
5" DISPLAY FOR BACK-UP & INTERIOR CAMERA

OPTION FCA14  
ADDITIONAL RECESSED/FLEXIBLE TV HOOK

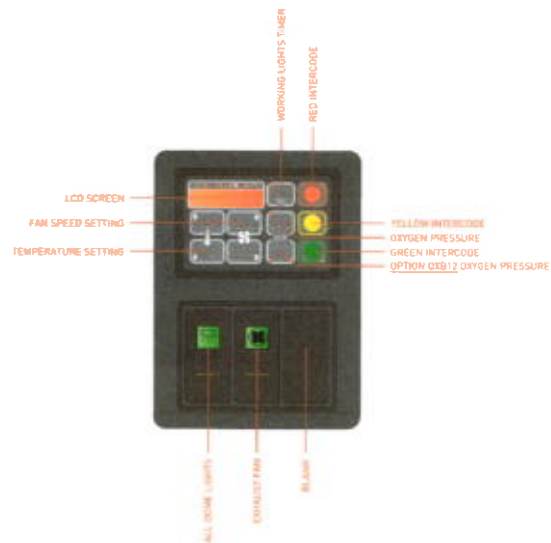
OPTION CDE11  
REMOVABLE SAFETY NET

OPTION CVB12 & CVA11  
TIE-IN TO OEM HEATING SYSTEM AND  
HIGH PERFORMANCE CONVERSION A/C SYSTEM  
WITH DEDICATED COMPRESSOR & CONDENSER





## OPTION CRB11



**Attachment 1**  
**BID NUMBER: 4911 – Type II Ambulance**

**SECTION 1 - BID INFORMATION**

Acknowledgment of Addenda:  
(Write "Yes" if received)

Addenda 1 \_\_\_\_\_ Addenda 2 \_\_\_\_\_  
Addenda 3 \_\_\_\_\_ Addenda 4 \_\_\_\_\_

**SECTION 2 - VENDOR INFORMATION**

Vendor Name \_\_\_\_\_

Vendor Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

Zip \_\_\_\_\_

Telephone Number \_\_\_\_\_

Contact Person *(Please Print)* \_\_\_\_\_

E-Mail Address \_\_\_\_\_

Taxpayer Identification Number, Social Security or  
Employer Identification Number: \_\_\_\_\_

State of Tennessee Business License Number:  
License # \_\_\_\_\_

**I agree to abide by all Terms and Conditions of this Invitation to Bid and certify that I am authorized to sign this bid for the vendor. Failure to include any information mentioned in the bid or to comply with these bid instructions may result in rejection of your entire bid. Signing this form affirms that the original Invitation for Bid document has not been altered in any way.**

**Authorizing Signature:** \_\_\_\_\_

**(Please sign original in blue ink)**

Attachment 2

**Non-Collusion Affidavit**

- This Non-Collusion Affidavit is material to any contract awarded pursuant to this bid.
- This Non-Collusion Affidavit must be executed by the member, officer, or employee of the bidder who makes the final decision on prices and the amount quoted in the bid.
- Bid rigging and other efforts to restrain competition and the making of false sworn statements in connection with the submission of bids are unlawful and may be subject to criminal prosecution. The person who signs the affidavit should examine it carefully before signing and assure himself or herself that such statement is true and accurate, making diligent inquiry, as necessary, of all other persons employed by or associated with the bidder with responsibilities for the preparation, approval, or submission of the bid.
- In the case of a bid submitted by a joint venture, each party to the venture must be identified in the bid documents, and an affidavit must be submitted separately on behalf of each party.
- The term "complementary bid" as used in the affidavit has the meaning commonly associated with that term in the bidding process and includes the knowing submission of bids higher than the bid of another firm, an intentionally high or noncompetitive bid, and any other form of bid submitted for the purpose of giving a false appearance of competition.
- Failure to file an affidavit in compliance with these instructions may result in disqualification of the bid.

**Non-Collusion Affidavit**

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

I state that I am (Title) \_\_\_\_\_ of (Name of My Firm) \_\_\_\_\_  
and that I am authorized to make this affidavit on behalf of my firm and its owners, directors, and officers. I am  
the person responsible in my firm to the price(s) and the amount of this bid.

**I STATE THAT:**

- The price(s) and amount of this bid have been arrived at independently and without consultation, communication, or agreement with any other contractor, bidder, or potential bidder.
- Neither the price(s) nor the amount of this bid and neither the approximate price(s) nor approximate amount of this bid, have been disclosed to any other firm or person who is a bidder or potential bidder, and they will not be disclosed before bid opening.
- No attempt has been made or will be made to induce any firm or person to refrain from bidding on this contract, or to submit a bid higher than this bid, or to submit any intentionally high or noncompetitive bid or other form of complementary bid.
- The bid of my firm is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary or other noncompetitive bid.
- (Name of My Firm) \_\_\_\_\_, its affiliates, subsidiaries, officers, directors, and employees are not currently under investigation by any governmental agency and have not in the last three years been convicted or found liable for any act prohibited by State or Federal law in any jurisdiction involving conspiracy or collusion with respect to bidding on any public contract, except as follows:  
\_\_\_\_\_  
\_\_\_\_\_

I state that (Name of My Firm) \_\_\_\_\_ understands and acknowledges  
that the above representation are material and important and will be relied on by Anderson County in awarding  
the contract(s) for which this bid is submitted. I understand and my firm understands that any misstatement in this  
affidavit is and shall be treated as fraudulent concealment from Anderson County of the true facts relating to  
submission of bids for this contract.

\_\_\_\_\_  
Representative's Signature

\_\_\_\_\_  
Title

Sworn to and subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_





## DIVERSITY BUSINESS INFORMATION

### Definitions for Determining Minority, Women And Small-Owned Firms

The guidelines for determining minority, women and small-owned firms are defined as follows:

**"MINORITY"** means a person who is a citizen or lawful permanent resident of the United States and who is:

- o Black (a person having origins in any of the black racial groups of Africa);
- o Hispanic (a person of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race);
- o Asian American (a person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands); or
- o American Indian and Alaskan Native (a person having origins in any of the original peoples of North America).

**"MINORITY BUSINESS ENTERPRISE"** shall mean a minority business:

A continuing, independent, for profit business which performs a commercially useful function, and is at least 51 percent owned and controlled by one or more minority individuals; or, in the case of any publicly owned business, at least 51 percent of the stock of which is owned and controlled by one or more minorities. Whose management and daily business operations are controlled by one or more of minority individuals. "Control" as used in the above clause, means exercising the power to make policy decision. "Operate," as used in the above clause, means being actively involved in the day-to-day management of the business.

**"WOMEN BUSINESS ENTERPRISE"** shall mean women business:

A continuing, independent, for profit business which performs a commercially useful function, and which is at least 51 percent owned and controlled by one or more women; or, in the case of any publicly owned business, at least 51 percent of the stock of which is owned and controlled by one or more women. Whose management and daily business operations are controlled by one or more of such individuals. "Control" as used in the above clause, means exercising the power to make policy decision. "Operate," as used in the above clause, means being actively involved in the day-to-day management of the business.

## DIVERSITY BUSINESS INFORMATION ANDERSON COUNTY GOVERNMENT

**NOTE:** This form is to be submitted only by those who qualify. Bidders do not have to be a minority business to be considered.

### IMPORTANT! NOTARY AND COPY OF CERTIFICATION REQUIRED

#### SECTION 6 – DIVERSITY INFORMATION

**VENDOR/CONTRACTOR NAME:** \_\_\_\_\_

**Type of Company:** (Check One)

( ) Corporation    ( ) Partnership    ( ) Limited Liability    ( ) Sole Proprietor

Is your company 51% Owned or Operated by a Minority Group? Yes \_\_\_\_ No \_\_\_\_

If yes, check the ethnic category and indicate % of ownership:

- ☐ American Indian/Alaskan Native \_\_\_\_%
- ☐ African American \_\_\_\_%
- ☐ Hispanic \_\_\_\_%
- ☐ Asian/Pacific Islander \_\_\_\_%
- ☐ Other \_\_\_\_% \_\_\_\_\_ (please indicate)

Please name the entity of certification: \_\_\_\_\_

Please provide copy of certification letter or certificate

**I, HEREBY CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.**

**Signature:** \_\_\_\_\_ **OFFICER OF THE COMPANY**

**Name:** \_\_\_\_\_ **Title:** \_\_\_\_\_

#### NOTARY ACKNOWLEDGEMENT:

STATE OF \_\_\_\_\_ )

COUNTY OF \_\_\_\_\_ )

ON \_\_\_\_\_, 20\_\_\_\_, BEFORE ME, \_\_\_\_\_,

PERSONALLY APPEARED \_\_\_\_\_, PERSONALLY KNOWN TO ME (OR PROVED TO ME ON THE BASIS OF SATISFACTORY EVIDENCE) TO BE THE PERSON(S) WHOSE NAME(S) IS/ARE SUBSCRIBED TO THE WITHIN INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE/SHE/ THEY EXECUTED THE SAME IN HIS/HER/THEIR AUTHORIZED CAPACITY(IES), AND THAT BY HIS/HER/THEIR SIGNATURE(S) ON THE INSTRUMENT THE PERSON(S), OR THE ENTITY UPON BEHALF OF WHICH THE PERSON (S) ACTED, EXECUTED THE INSTRUMENT.

WITNESS MY HAND AND OFFICIAL SEAL.

SIGNATURE OF NOTARY: \_\_\_\_\_

PRINTED FULL NAME OF NOTARY: \_\_\_\_\_

MY COMMISSION EXPIRES: \_\_\_\_\_

**Attachment 4 – Sample Contract for Commodities**

This Agreement is made on this the DD of MM YYYY, between Anderson County, Tennessee, a governmental entity and political subdivision of the State of Tennessee (hereinafter, "County") and XXXXXX (hereinafter, "Contractor") and for good and valuable consideration, the sufficiency of which is hereby acknowledged, the parties agree as follows:

**Contractor Services.** Contractor agrees to provide XXXXXX for the County Per XXXXXXX.

**Standard of Performance.** Contractor agrees to perform the contract requirements in a manner consistent with the standard in the industry and to the satisfaction of the County.

**Contractor Compensation.** Contractor shall be paid by the County within thirty (30) days of invoicing and delivery. The compensation to Contractor shall be calculated by: XXXXXX. Contractor **shall not** receive additional compensation for expenses including travel, hotel, food, etc.

**Term.** The term of this agreement shall begin on MM/DD/YYYY and shall end on MM/DD/YYYY **with renewal option of XXXXXXXX.**

**Release.** Contractor hereby agrees to release, indemnify, and hold County harmless from and against any and all claims, lawsuits, or the like associated with County's performance of this agreement, or as it relates to the past, present, or future financial condition of the County or the performance of Contractor's services under this Agreement.

**Default.** In the event of default by the Contractor hereto, the County may bring suit against the Contractor to enforce the terms of this Agreement. In such event, the prevailing party shall be entitled to recover any remedies available at law and/or equity including reasonable attorney's fees and costs associated with the default.

**No Oral Modification.** No modification, amendment, supplement to or waiver of this Agreement or any of its provisions shall be binding upon the parties hereto unless made in writing and duly signed by all the parties.

**Waiver.** A failure of any party to exercise any right provided for herein, shall not be deemed to be a waiver of any right hereunder.

**Entire Agreement.** This Agreement sets forth the entire understanding of the parties as to the subject matter and may not be modified except in a writing executed by all parties.

**Severability.** In the event any one or more of the provisions of this Agreement is invalid or otherwise unenforceable, the enforceability of the remaining provisions shall be unimpaired.

**Cancellation.** In the event any party materially breaches, defaults or fails to perform hereunder, this Agreement may be cancelled by the other party with cause on thirty (30) days written notice to the other, if the event constituting the breach, default, or failure is not cured during that time.

**Termination.** The County reserves the right to terminate this contract in whole or in part with thirty (30) days written notification to the contractor. In the event of termination, the County shall not be liable for any costs other than the cost of services performed and materials delivered and accepted prior to termination date.

**Exhibits.** Any Exhibits attached hereto or incorporated herein are made a part of this Agreement for all purposes. The expression "this Agreement" means the body of this Agreement and the Exhibits.

#### Attachment 4 – Sample Contract for Commodities

**Multiple Counterparts: Effectiveness.** This Agreement may be executed in multiple counterparts, each of which shall be deemed an original for all purposes and all of which shall be deemed, collectively, one Agreement. This Agreement shall become effective when executed by all the parties.

**Jurisdiction.** Each party hereby irrevocably consents to the jurisdiction of all state courts sitting in Tennessee or all federal courts sitting in Knoxville, Tennessee and agrees that venue for any legal action brought in connection with this Agreement shall lie exclusively in such courts.

**Binding Effect.** This Agreement shall be binding upon and inure to the benefit of the parties and upon their respective successors, heirs, or assigns.

**Choice of Law.** This Agreement shall be governed and construed in accordance with the laws of the State of Tennessee. The Contractor certifies that in performing this contract they will comply with all applicable provisions of the federal, state, and local laws, regulations, rules, and orders.

**Appropriated Funds.** The County's obligation to pay under this Contract is contingent upon funds appropriated in the current fiscal year's budget as approved by the County Board of Commissioners. Any contract requiring appropriated funds beyond the current fiscal year may be cancelled without notice in the event that funding to support the contract are unavailable in the subsequent fiscal year.

**Payment Terms.** The County's payment terms are net 30. All invoices shall be addressed to Anderson County Director of Finance, Room 210, 100 North Main Street, Clinton, TN 37716, and must include Contractor's name, address and phone number, and clearly list quantities, item description and units of measure.

**Delivery.** The County requires delivery of all products to be FOB ("free on board") unless indicated otherwise. If completed deliveries are not made at the time agreed, the County reserves the right to cancel or purchase elsewhere and hold Contractor accountable. If delivery dates cannot be met, Contractor agrees to advise the County of the earliest possible shipping date for acceptance by the County. Contractor agrees to bear all risk of loss, injury, or destruction of goods and materials ordered herein which may for any reason occur prior to acceptance by the County. No such loss, injury, or destruction shall release Contractor from any obligations hereunder.

**Inspection.** Goods and material must be properly packaged. Damaged goods and materials will not be accepted, or if the damage is not readily apparent at the time of delivery, the goods shall be returned at no cost to the County. The County reserves the right to inspect the goods at a reasonable time subsequent to delivery where circumstances or conditions prevent effective inspection of the goods at the time of delivery.

**Warranty.** The Contractor warrants to the County that all goods and services furnished hereunder shall be free of defects in materials, workmanship, and from defect in design. In addition, Contractor warrants the goods and services are suitable for and will perform in accordance with the purposes for which they were intended.

**Insurance Requirement.** Contractors awarded bids or contracts are required to maintain, at their expense adequate insurance coverage to protect them from claims arising under the Worker's Compensation Act, any and all claims for bodily injury and property damage to the Contractor and to the County while completing delivery and services. A certificate of insurance may be required before work begins and be maintained until work is completed. Certificate Holder Shall Be: Anderson County Government, Clinton, Tennessee. Anderson County Government shall be named as an additional insured on all policies except worker's compensation and auto. Insurance carrier ratings shall have a Best's rating of A-VII or better, or its equivalent. Cancellation clause on certificate should strike out "endeavor to" and include a 30-day notice of cancellation where applicable. Any deviations from the above requirements must be disclosed to the County Purchasing Agent. Any liability deductibles or exclusions must also be disclosed.

## Attachment 4 – Sample Contract for Commodities

**Uniform Commercial Code.** All applicable portions of the Tennessee Uniform Commercial Code shall govern contracts with the County.

**Non-discrimination.** The Contractor shall comply with the Tennessee Human Rights Act, T. C. A. §4-21-101 et. seq., as amended and any rules and regulations promulgated in accordance therewith.

**Equal Employment Opportunity.** It shall also be an unlawful employment practice for the Contractor (1) to fail or refuse to hire or to discharge any individual or otherwise to discriminate against any individual with respect to their compensation, or the terms, conditions, or privileges of their employment, because of such individual's race, color, religion, sex, age, handicap or national origin; or (2) to limit, segregate, or classify their employees or applicants for employment in any way which would deprive or tend to deprive any individual of employment opportunities or otherwise adversely affect their status as an employee, because of such individual's race, color, religion, sex, age, handicap or national origin. Contractor shall comply with The Civil Rights Act of 1964, 42 U.S.C. sec. 2000 et seq. (2000), as amended.

**Notice.** Any notice required or provided pursuant to this Agreement shall be in writing and sent or delivered to the parties.

**Titles and Subtitles.** Titles of paragraphs and subparagraphs are for convenient reference only and shall not have the effect of modifying, amending, or changing the express terms of this Agreement.

**Assignment.** This Agreement shall be assignable only upon the written consent of the non-assigning party. Consent to an assignment shall not be unreasonably withheld. In the event of assignment or succession, the terms and conditions of this Agreement shall be binding upon the parties and their successors, assigns, heirs, executors, and/or administrators.

**Further Documentation.** The parties agree for themselves and their successors and assigns to execute any and all instruments in writing which are or may become necessary or proper to carry out the purpose and intent of this Agreement.

City, State Zip

Contractor/Supplier:

Anderson County Government  
Administrative Approval:

Signature \_\_\_\_\_ Date \_\_\_\_\_

Natalie Erb, CPA, CTP, Finance Director \_\_\_\_\_ Date \_\_\_\_\_

Printed Name \_\_\_\_\_

Anderson County Department Head  
Approval:

Title \_\_\_\_\_

\_\_\_\_\_ Date \_\_\_\_\_

Name of Company \_\_\_\_\_

Approved as to Form

Address \_\_\_\_\_

Law Director \_\_\_\_\_ Date \_\_\_\_\_

\_\_\_\_\_

## General Terms and Conditions

### **BID ENVELOPE SUBMISSION INSTRUCTIONS:**

Bids are to be received in a sealed envelope/package with the bid number, company name and opening date clearly marked. Failure to comply may result in rejection of the entire bid. Anderson County will not be responsible for any lost or misdirected mail. Late bids, e-mailed bids and faxed bids will not be considered nor returned. It is the sole responsibility of the bidder to ensure their bid is delivered to the Purchasing Department. Late bids will not be considered.

Please note that Anderson County Government does not receive a guaranteed delivery time for express mail and/or packages. PLEASE MAIL ACCORDINGLY.

ANDERSON COUNTY PURCHASING DEPARTMENT  
100 NORTH MAIN STREET, SUITES 214 AND 218  
CLINTON, TN 37716

Email: [purchasing@andersontn.org](mailto:purchasing@andersontn.org)  
Website: <http://andersontn.org/purchasing>

(865) 457-6218 Phone  
(865) 457-6252 Fax

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**Bid documents must be completed in ink or typed, signed in ink,  
and free from alterations, erasures or mark-throughs.**

### **SECTION 1 - GENERAL TERMS AND CONDITIONS**

**1.1 ALTERATIONS OR AMENDMENTS:** Alterations, amendments, changes, modifications or additions to this solicitation shall not be binding on Anderson County without prior written approval.

**1.2 NO CONTACT POLICY:** After vendor receives a copy of this bid, any contact initiated by any vendor with any Anderson County representative, other than the Purchasing Department, concerning this invitation for bid is prohibited and agreements made thereto will not be considered binding on Anderson County. Any such unauthorized contact may cause the disqualification of the bidder from this procurement transaction.

**1.3 QUESTIONS:** Pursuant to TCA §12-4-113, questions regarding the specifications or bid procedures must be received by the Purchasing Agent and/or designer no less than ninety-six (96) hours before the bid opening date. No addenda within less than forty-eight (48) hours of the bid opening date shall be permitted. Any questions concerning the bid document must be submitted to [purchasing@andersontn.org](mailto:purchasing@andersontn.org) no less than ninety-six (96) hours before bid opening date.

**1.4 BID CLOCK:** The bid/time clock in the Anderson County Purchasing office will be the time of record.

**1.5 TAXES:** Anderson County is not liable for Federal excise or State sales tax. Tax exemption certificates will be provided upon request.

**1.6 CONFLICT OF INTEREST:** If requested by the Purchasing Agent, vendors must complete and submit a "Conflict of Interest Affidavit Statement" prior to contract award, see T.C.A. 5-14-114 and T. C. A. 12-4-101.

**1.7 NON-COLLUSION:** Vendors, by submitting a signed bid, certify that the accompanying bid is not the result of, or affected by, any unlawful act of collusion with any other person or company engaged in the same line of business or commerce, or any other fraudulent act punishable under Tennessee or United States law.

**1.8 NON-DISCRIMINATION:** Contracted vendors will not discriminate against any employee or applicant for employment because of race, religion, sex, national origin or disability except where religion, sex, national origin or disability is a bona fide occupational qualification reasonably necessary to the normal operation of the contractor.

**1.9 SAME AS OR EQUIVALENT TO:** Vendors are to bid as specified herein or propose an approved equal. Determination of equality is solely Anderson County's responsibility. Any designated brands are for reference purpose only, not a statement of preference. When an alternate manufacturer, brand, model or make is bid, Anderson County will determine if the item bid meets or exceeds the items as specified. If the bidder does not indicate that an alternate manufacturer, brand, model or make is being bid, it is understood that the item(s) bid are the same manufacturer, brand, model or make as requested in the Invitation to Bid. Comparable products of other manufacturers will be considered if proof of comparability is contained in the bid submission. It shall be the responsibility of the vendors, including vendors whose product is referenced to furnish upon request catalog pages, brochures or other data to provide an adequate basis for determining the quality and functional capabilities of the product offered. Failure to provide this data may be considered valid justification for rejection of bid.

**1.10 MULTIPLE BIDS/AWARDS:** Anderson County may consider multiple bid awards.

**1.11 STATE OF TENNESSEE CONTRACTORS' LICENSE LAW (T.C.A. 62-6-119) b):** Bids for which the total cost of the project is twenty-five thousand dollars (\$25,000) or more, the outside of the sealed bid envelope/package containing the bid provides the following information: the Company Name, the Contractor's license number, license classification, the date of the license expiration and that part of each license classification applying to the bid. In addition, each heating ventilation or air conditioning, plumbing and electrical subcontractor's license number, date of the license expiration and that part of each classification applying to the bid if the value of the work is \$25,000 or greater, must be notated. If the value of either the contractor or the subcontractor's work is less than \$25,000, the bid envelope/package containing the bid is to be notated with the phrase "Contractor or Subcontractor's Bid is Less than \$25,000" after each appropriate heading. In the case of joint ventures, each party submitting the bid must provide this information. If no subcontractors are being used, the outside of the envelope/package containing the bid must state, "No Subcontractors are being used on this project."

**1.12 ACCEPTANCE:** Vendors shall hold their price firm and subject to acceptance by Anderson County for a minimum period of sixty (60) working days from the date of the bid opening, unless otherwise indicated in their bid. Any or all bids may be rejected for good cause.

**1.13 BID AWARDS:** Bids will be awarded to the lowest and best bidder, taking into consideration the qualities of the articles to be supplied, their conformity with specifications and their suitability to the requirements of Anderson County and the delivery terms. Anderson County also reserves the right to not award this bid.

**1.14 PROTEST:** Any vendor wishing to protest the bid award shall notify in writing the Anderson County Purchasing Agent and the County Law Director, 101 S. Main Street, Suite 310, Clinton, TN 37716. No protest will be accepted, except those protests made in writing and received within (10) ten calendar days of the bid award. Protests must be in writing and envelopes/package containing protest must be clearly marked with bid number and words "BID PROTEST". The Purchasing Agent, in conjunction with the Purchasing Committee, and with the advice and counsel of the County Law Director, shall review and make a final decision as to any bid protest. Appeals shall be filed in the Circuit or Chancery Courts of Anderson County within sixty (60) days of the final decision.

**VENDORS PLEASE NOTE: ANDERSON COUNTY WILL NOT STOP THE PURCHASE PROCESS. THE PURCHASE MAY BE COMPLETED OR THE PROJECT MAY BE RE-BID WHILE THE PROTEST PROCEDURE IS STILL IN OPERATION. IF A RE-BID IS MADE, THE PROTESTING VENDOR SHOULD SUBMIT A NEW BID. OTHERWISE, THEY WILL BE WITHOUT A BID ON THE RE-BID. FURTHER, THE RE-BIDDING WILL NOT END THE APPEALS PROCESS. IT WILL CONTINUE UNTIL A FINAL DECISION IS REACHED OR THE COMPLAINANT WITHDRAWS THE APPEAL.**

**1.15 DELIVERY:** Bid pricing is to include complete supply and delivery to Anderson County, Tennessee. Vendors are to state the delivery time in the bid. Anderson County requires that vendors deliver all products "free on board" to final destination unless indicated otherwise in the bid requirements.

**1.16 PROOF OF FINANCIAL AND BUSINESS CAPABILITY:** Bidders must, upon the request of Anderson County, provide satisfactory evidence of their ability to furnish products or services in accordance with the terms and conditions of these specifications. Anderson County will make the final determination as to the bidder's ability.

**1.17 VENDOR'S DEFAULT:** Anderson County reserves the right, in case of vendor default, to procure the articles or services from other sources and hold the defaulting vendor responsible for any excess costs occasioned thereby.

**1.18 DUPLICATE COPIES:** Vendors are to submit one original and at least one exact copy of their bids, including brochures; unless additional copies are requested in bid specifications.

**1.19 DRUG-FREE WORKPLACE:** Under the provisions of Tennessee Code Annotated §50-9-113 enacted by the General Assembly effective 2001, all employers with five (5) or more employees who contract with either the state or a local government to provide construction services are required to submit an affidavit stating that they have a drug free workplace program that complies with Title 50, Chapter 9, in effect at the time of submission of a bid at least to the extent required of governmental entities. The statute imposes other requirements on the contractor and contractors should consult private legal counsel if legal questions arise under this section or any other provision of this document. All contractors with five (5) or more employees that will be providing construction services are to return the provided written affidavit signed by the principal officer of a covered employer acknowledging that the contracting entity is in compliance with the Drug Free Workplace laws of State of Tennessee.

**1.20 RESTRICTIVE OR AMBIGUOUS SPECIFICATIONS:** It is the responsibility of the bidder to review the entire Invitation to Bid document and to notify the Purchasing Department if the Invitation to Bid is formulated in a manner that would unnecessarily restrict competition or if it is ambiguous in what is being requested. The Purchasing Agent must receive questions regarding the specifications or bid procedures no less than ninety-six (96) hours prior to the time set for the bid opening.

**1.21 SCHOOL CAFETERIA BIDS:** If this bid is for Anderson County School's Cafeteria Food Service Department, bidders must be in compliance with Section 104(d) of the William F. Goodling Child Nutrition Reauthorization Act of 1998 which requires school and institutions participating in the National School Lunch Program (NSLP) and School Breakfast Program (SBP) to "Buy American" to the maximum extent practicable.

**1.22 TERMINATION:** Anderson County reserves the right to terminate contracts in whole or in part with thirty (30) days written notification to the contractor. In the event of termination, the County shall not be liable for any costs other than the cost of services performed and materials delivered and accepted prior to termination date.

**1.23 OSHA SAFETY:** The Vendor is responsible for training their employees in Safety and Health Regulations for the job, assuring compliance with Tennessee Occupational Safety and Health regulations and any other Regulatory Agency.



**1.24 PERFORMANCE BOND:** A standard surety or performance bond or an irrevocable letter of credit in favor of Anderson County Government at a federally insured financial institution will be required to be submitted with bid, if indicated in section four, item six insurance requirement checklist.

**1.25 BACKGROUND CHECKS:** Contractors shall comply with Public Chapter 587 of 2007, as codified in Tennessee Code Annotated Section 49-5-413, which requires all contractors to facilitate a criminal history records check conducted by the Tennessee Bureau of Investigation and the Federal Bureau of Investigation for each employee prior to permitting the employee to have contact with students or enter school grounds when students are present.

**1.26 AWARD RESULTS:** As soon as practicable after proposal or bid evaluations, Anderson County shall post the award decision to Vendor Registry at [www.vendorregistry.com](http://www.vendorregistry.com). Individual notices are normally not mailed or e-mailed except to the successful vendor.

**1.27 PRICE INCREASE/DELIVERY CHARGES:** Request for price or delivery charge increases must in be received in writing 30-days prior to implementation. The Anderson County Purchasing Agent will review requests and make a determination to continue or cancel services.

**1.28 INDEMNIFICATION/HOLD HARMLESS:** Vendor shall indemnify, defend, save and hold harmless Anderson County and, its officers, agents and employees from all suits, claims, actions or damages of any nature brought because of, arising out of, or due to breach of the agreement by Vendor, its subcontractors, suppliers, agents, or employees or due to any negligent act or occurrence or any omission or commission of Vendor, its subcontractors, suppliers, agents or employees.

**1.29 DECLARATIVE STATEMENT:** Any statement or words (i.e.: must, shall, will, etc.) are declarative statements and the proposer must comply with the condition. Failure to comply with any such condition may result in their bid being non-responsive and disqualified.

**1.30 WAIVING OF INFORMALITIES:** Anderson County reserves the right to waive minor informalities or technicalities when it is in the best interest of Anderson County.

**1.31 APPROPRIATION:** Funding for multi-year contracts are subject to budget appropriations. In the event no funds are appropriated by Anderson County for the goods or services in any fiscal year or insufficient funds exist to purchase the goods or services of a contract, then that contract shall expire upon the expenditure of previously appropriated funds or the end of the current fiscal year, whichever occurs first, with no further obligations owed to or by either party.

**1.32 ASSIGNMENT:** Vendor shall not assign or sub-contract any agreement, its obligations or rights hereunder to any party, company, partnership, incorporation or person without the prior written specific consent of Anderson County.

**1.33 QUANTITIES:** Anderson County does not guarantee quantities to be purchased off this bid.

**1.34 UNIT PRICE:** In case of discrepancy between any unit price and an extended price, the unit price will be presumed to be correct, subject, however, to correction to the same extent and in the same manner as any other mistake.

**1.35 MODIFICATION OR WITHDRAWAL OF BIDS:** When it is certain that a mistake has been made in the preparation of the bid, a request will be made to the bidder to confirm the bid. Provisions must be made so that mistakes can be taken care of and the ambiguity resolved satisfactorily. Bids may be modified or withdrawn by written notice received in the Purchasing Department prior to the time and date set for the bid opening. The changes or withdrawal of the bids shall be in writing and signed by an official of the company. The envelope containing the modification should clearly state "modification to bid." Either the entire bid or a particular item may be withdrawn or modified in this manner.

**1.36 PRE-BID CONFERENCES:** Attendance at Pre-bid Conferences is strongly encouraged. When deemed necessary a Mandatory Pre-bid Conference will be held. A company representative **MUST** be in attendance and sign the Pre-bid sign-in sheet in order to be considered for bid award.

**1.37 ADDENDUM:** § T.C.A. 12-14-113 Anderson County Government reserves the right to amend this solicitation by addendum. Addenda will be posted to the vendor registry up to 48 hours in advance of the bid/proposals due date and time. It is the bidder's responsibility to check the website for addendum. If in the County's opinion revisions are of such a magnitude, the deadline for this solicitation may be extended in an addendum. Addenda may change specifications, reply sheets, and times and dates for pre-bid meetings as well as due dates/deadlines for questions and bids/proposals.

**1.38 OWNERSHIP:** All bids, once received, become property of Anderson County Government and will not be returned.

**1.39 WEATHER AND COURTHOUSE CLOSINGS:** In the event of a situation severe enough to necessitate the closing of Anderson County Government offices during a planned bid opening, vendors will receive notification of the new date and time upon re-opening of county government offices. No bids will be opened until the rescheduled date for bid opening and all bidders/proposers whose submissions meet the extended deadline will be given equal consideration at that time. Anderson County shall not be liable for any commercial carrier's decision regarding deliveries during inclement weather.

**1.40 IRAN DIVESTMENT ACT OF 2014:** Pursuant to the Iran Divestment Act of 2014, Tenn. Code Ann. § 12-12-106 requires the State of Tennessee Chief Procurement Officer to publish, using creditable information freely available to the public, a list of persons it determines engage in investment activities in Iran, as described in § 12-12-105. Inclusion on this list makes a person ineligible to contract with Anderson County; if a person ceases its engagement in investment activities in Iran, it may be removed from the list. The State of Tennessee list is available here: <http://tennessee.gov/generalservices/article/Public-Information-library>.