

PROPOSAL REQUEST

20160623-01

Ambulances

For Sumner County Emergency Medical Service



SUMNER COUNTY BOARD OF EDUCATION SUMNER COUNTY, TENNESSEE

Purchasing Staff Contact:
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This proposal solicitation document is available in an Adobe Acrobat (pdf) format. Any alterations to this document made by the proposer may be grounds for rejection of proposal, cancellation of any subsequent award, or any other legal remedies available to the Sumner County Board of Education.

Introduction

Sumner County Government (hereinafter referred to as “Sumner County”) is hereby requesting proposals to be submitted for Ambulances for the Sumner County Emergency Medical Services (EMS) 255 Airport Road Gallatin, TN 37066. In addition, all other Sumner County Government Departments and Agencies may also purchase for any submitted proposal.

General Information

I. Proposal Package

All sealed proposal packages must include all of the following, when applicable. Any sealed proposals shall be rejected as a non-conforming bid if any applicable item is missing.

- Three (3) complete copies of proposal
- Evidence of a valid State of Tennessee Business License and/or Sumner County Business License
- Evidence of compliance with the Sumner County Insurance Requirements, if work is performed on Sumner County Property
- Signed and completed Statement of Non-Collusion (Attachment 1)
- Properly completed Internal Revenue Service Form W-9
- Evidence of a company’s safety program and, if supported, a drug testing program (Attachment 2) Drug-Free Workplace Affidavit
- If bid is in excess of \$25,000, a certification of non-debarment must be completed (Attachment 3) Certification Regarding Debarment, Suspension, and Other Responsibility Matters
- Certification By Contractor (Attachment 4)

NEW VENDORS

1. To comply with Internal Revenue Service requirements, all vendors who perform any type of service are required to have a current IRS Form W-9 on file with the Sumner County. At the time of requisition, the individual requesting a purchase order or disbursement will be informed if it is a new vendor and if a form W-9 is required. If form W-9 is required for a new vendor, the department head shall forward a completed form W -9 to the finance department. It can be obtained from the Internal Revenue Service's website at www.irs.gov.
2. To comply with the Tennessee Lawful Employment Act, non-employees (individuals hired as independent contractors) must have on file any 2m: of the following documents.
 - Valid Tennessee driver license or photo ID issued by department of safety
 - Valid out-of-state driver license
 - U.S. birth certificate
 - Valid U.S. passport
 - U.S. certificate of birth abroad
 - Report of birth abroad of a U.S. citizen
 - Certificate of citizenship
 - Certificate of naturalization
 - U.S. citizen identification card
 - Valid alien registration documentation or proof of current immigration registration

3. in addition, for all vendors with annual purchases in excess of \$50,000 (if a business license is required), a business license must be on file in the finance department, or the requisitioner must submit a copy with the purchase order requisition form or the payment requisition form, as applicable.

II. Responses

- Proposal must include point-by-point responses to the RFP.
- Proposal must include a list of any exceptions to the requirements.
- Proposal must include the legal name of the vendor and must be signed by a person or persons legally authorized to bind the vendor to a contract.
- If applicable, proposal must include a copy of the contract(s) the vendor will submit to be signed.
- Any and all proposal requirements must be met prior to submission.
- The bidder understands and accepts the non-appropriation of funds provision of the Sumner County Government.
- If noted in the section “proposal requirements” or later requested, the contractor will be required to provide a reference list of clients that have a current contract for services with their company.

III. Clarification and Interpretation of RFP

The words “must” and “shall” in this Request for Proposal indicate mandatory requirements. Taking exception to any mandatory requirement shall be grounds for rejection of the proposal. There are other requirements that Sumner County considers important but not mandatory. It is important to respond in a concise manner to each section of this document and submit an itemized list of all exceptions.

In the event that any interested vendor finds any part of the listed specifications, terms, or conditions to be discrepant, incomplete, or otherwise questionable in any respect, it shall be the responsibility of the concerned party to notify Sumner County, via email at vicky.currey@sumnerschools.org, of such matters immediately upon receipt of this Request for Proposal. All questions must be received a minimum of five days before proposal’s “deadline”. All responses to inquiries will be posted on the School System website (<http://www.sumnerschools.org>) under “Invitation to Bid” and Sumner County website at www.sumnertn.org.

IV. Proposal Guarantee

Vendors must guarantee that all information included in their proposal will remain valid for a period of 90 days from the date of proposal opening to allow for evaluation of all proposals.

V. Related Costs

Sumner County is not responsible for any costs incurred by any vendor pursuant to the Request for Proposal. The vendor shall be responsible for all costs incurred in connection with the preparation and submission of its proposal.

VI. Insurance Requirements and Liability

Each bidder or respondent to the RFP who may have employees, contractors, or agents working on Sumner County properties shall provide copies of current certificates for general and professional liability insurance and for workers' compensation of a minimum of \$250,000. The owner or principal of each respondent must also be insured by workers' compensation if they perform any of the services on School System properties. There will be no exceptions to the insurance requirement.

VII. Payment Terms

Payment terms shall be specified in the bid response, including any discounts for early payment. All payments, unless agreed upon differently, will be after receipt of service or product and School System's approval of conformance with specifications.

VIII. Deadline

Sealed proposals will be accepted until **Thursday June 23, 2016 10:00 a.m.** local time. Proposals received after that time will be deemed invalid and returned unopened to the vendor. Vendors mailing proposal packages must allow sufficient time to ensure receipt of their package by the time specified. There will be no exceptions. Proposals will be opened at an unspecified time after June 23, 2016 deadline of 10:00 a.m. (local time). Bids will be awarded after July 1st (first), 2016.

IX. Withdrawal or Modification of Proposal

A withdrawn proposal may be resubmitted up to the time designated for the receipt of proposals provided that it fully conforms to the same general terms and requirements.

X. Package

The package containing the proposal must be sealed and clearly marked "**AMBULANCES FOR SUMNER CO EMERGENCY MEDICAL SERVICE. BID # 20160623-CO**" on the outside of the package. Responses may be hand delivered or mailed to the following address.

Sumner County Board of Education
Attn: Purchasing Supervisor
1500 Airport Road
Gallatin, TN 37066

XI. Right to Seek a New Proposal

The Sumner County reserves the right to accept or reject any and all proposals for any reason. Proposals will be awarded to the best overall respondent as determined by that which is in the best interests of Sumner County.

XII. Procedures for Evaluating Proposals and Awarding Contract

In comparing the responses to this RFP and making awards, Sumner County may consider such factors as quality and thoroughness of a proposal, the record of experience, the references of the respondents, and the integrity, performance, and assurances in the proposal in addition to that of the proposal price.

- Proposals will be examined for compliance with all requirements set forth herein.
- Proposals that do not comply shall be rejected without further evaluation.
- Proposals will be subjected to a technical analysis and evaluation.
- Oral presentations and written questions for further clarifications may be required of some or all vendors.

XIII. Discussions

Discussions may be conducted with the vendors which have submitted proposals determined to be reasonably likely of being considered for selection to assure a full understanding of and responsiveness to the RFP requirements. Every effort shall be afforded to assure fair and equal treatment with respect to the opportunity for discussion and/or revision of their respective proposals. Revisions may be permitted after the submission and prior to the award for the purpose of obtaining the best offers.

XIV. Open Records

After the bid is awarded, all proposals will be subject to the Tennessee Open Records Act, and the proposals will be available to the public upon written request.

Summary information on bids submitted will be posted on the School System website at <http://www.sumnerschools.org> County Website www.sumnertn.org under the Bids" link.

XV. Assignment

Neither the vendor nor School System may assign this agreement without prior written consent of the other party.

XVI. Liabilities

The vendor shall indemnify Sumner County against liability for any suits, actions, or claims of any character arising from or relating to the performance under this contract by the vendor or its subcontractors.

Sumner County has no obligation for the payment of any judgment or the settlement of any claim made against the vendor or its subcontractors as a result of obligations under this contract.

XVII. Tax Status

Sumner County Government is tax exempt.

XVIII. Invoicing

Invoices are to be submitted to:

Sumner County Emergency Medical Service
255 Airport Road
Gallatin, TN 37066

The vendor must provide an invoice(s) detailing the terms and amounts due and the dates due. All invoices shall indicate payment terms and any prepayment discounts.

XIX. Contract Nullification

Sumner County may, at any time, nullify the agreement if, in the judgment of Sumner County, the contractor(s) has failed to comply with the terms of the agreement. In the event of nullification, any payment due in arrears will be made to the contractor(s), but no further sums shall be owed to the contractor(s). The agreement between Sumner County and the contractor(s) is contingent upon an approved annual budget allotment, and is subject, with thirty (30) days notification, to restrictions or cancellation if budget adjustments are deemed necessary by Sumner County.

XX. Applicable Law

Sumner County, Tennessee is an equal opportunity employer. Sumner County does not discriminate towards any individual or business on the basis of race, sex, color, age, religion, national origin, disability or veteran status.

The successful contractor(s) agrees that they shall comply with all local, state, and federal law statutes, rules, and regulations including, but not limited to, the Rehabilitation Act of 1973 and the Americans with Disabilities Act.

In the event that any claims should arise with regards to this contract for a violation of any such local, state, or federal law, statutes, rules, or regulations, the provider will indemnify and hold Sumner County harmless for any damages, including court costs or attorney fees, which might be incurred.

Any contract will be interpreted under the laws and statutes of the state of Tennessee.

Sumner County does not enter into contracts which provide for mediation or arbitration.

Any action arising from any contract made from these specifications shall be brought in the state courts in Sumner County, Tennessee or in the United States Federal District Court for the Middle District of Tennessee.

Additionally, it is a violation of state statutes to purchase materials, supplies, services, or any other item from a vendor that is a commissioner, official, employee, or board member that has any financial or beneficial interest in such transaction.

Requirements

Materials or Service: Quantity (2) – 2017 Ford F350 XLT 4x2 Type I Ambulance
Quantity (2) – 2017 Ford Transit 4x2 Type II Ambulance

Proposals must be in the possession of Sumner County EMS at the location indicated on or prior to the time and date indicated above. Late proposals shall not be considered. Three (3) copies of the Proposals must be submitted in a sealed envelope with the Request for Proposal number and the Bidder's name and address clearly indicated on the envelope. Exterior package must be marked Proposal Enclosed. All proposals must be completed in ink or typewritten. Additional instructions for preparing a proposal are provided on the following pages of this notice.

The Bids Pricing will remain firm for 1(one) year from awarded date of contract.
The County reserves the option for 2(two) additional 1(one) year period.
Price should remain the same except for an increase cost of the chassis from the manufacturer not to exceed 15%.

Bids will be awarded after July 1st (first), 2016.

If you have any questions please Contact Sean Frary, (615) 451-0429 ext 142 or sfrary@sumnerems.org.

Bid Checklist (Please include the following documents with your proposal)

	QVM Compliance		Warranty Policy
	Customer Service Policy		Proposal Line Item Detail
	Cad Drawings depicting all views		10 Million Product Liability
	Static Load Certification (current)		Trade Value

Pricing to include the three options for trade value:

One (1) 2006 Ford E350 Type II Ambulances to be offered for trade by SCEMS:

- VIN #1FD5534PX6H867853– mileage 149690 = Trade allowance \$_____

One (1) 2009 Ford E350 Type II Ambulances to be offered for trade by SCEMS:

- VIN # 1FDSS34P88DA31637 – mileage 209279 = Trade allowance \$_____
- Each ambulance is mechanically operational and running at the time of this RFP. However, prospective bidders are encouraged to examine each ambulance before submitting proposal. Ambulances are being offered “AS-IS” with no warranties written or implied.

Option 1: With Trade-In Value

Quantity	Description	Price
2	2016-17 Ford F350 XLT 4x2 Type I Ambulance	
2	2016-17 Ford Transit 4x2 Type II Ambulance	
	Total Base Price	
	Total Trade Allowance	
	Total Bid	

Option 2: Without Trade-In Value

Quantity	Description	Price
2	2016-17 Ford F350 XLT 4x2 Type I Ambulance	
	Total Bid	

Option 3: With Trade-In Value:

Quantity	Description	Price
2	2016-17 Ford Transit 4x2 Type II Ambulance	
	Total Base Price	
	Total Trade Allowance	
	Total Bid	

Sumner County EMS does reserve the Right to Chose separate Manufactures between the 2016 Ford F350 Type I Ambulance and the 2016 Ford Transit Type II Ambulance.

In compliance with the invitation to bid and subject to all terms and conditions imposed therein, the undersigned offers and agrees to furnish the items contained herein at the price stated following the terms and conditions as indicated. I certify that I am authorized to sign this bid for the Manufacture.

Date: _____

Delivery Timeframe: _____

Company Name: _____

Address: _____

Name (print): _____

Title: _____

Signature: _____

Phone: _____

E-Mail: _____

Type I - Specification Requirements

2016 Ford F350 XLT 4x2 Diesel, 96” x 154” Module

General Intent

Section 1 Mandatory Requirements

Section 2 General Requirements

Section 3 Construction and Design Details

Section 4 Chassis Requirements

Section 5 Driver’s Cab

Section 6 Modular Body

Section 7 Patient Compartment

Section 8 Low-Voltage Electrical System

Section 9 Exterior Lighting Systems

Section 10 Audible emergency Warning (Siren)

Section 11 Oxygen System

Section 12 Fixed Suction (vacuum) System

Section 13 Safety Equipment

Section 14 Environmental Control System

Section 15 Two-way Communication

Section 16 Exterior Color, Graphics and

Section 17 Diagrams and Literature

Section 18 Change Orders

Section 19 Warranty Support

Section 20 Ambulance Cot

Intent

The following specification describes the needs of this department relevant to the chassis requirements and the ambulance modular body design. This department requires a state of the art vehicle with sophisticated electronics and a mechanical and structural design that offers premium quality and durability. Manufacturers, who utilize prototype equipment or manufacturing processes that do not meet manufacturing criteria, will not be considered.

This specification requires an all aluminum modular exterior and interior. The compartment and cabinet sizes are critical. While it is not the intent of this specification to preclude any qualified bidder, it must be clear that any bidder deviating in any substantial way from these specifications will be rejected as non-compliant.

It is the intent of these specifications that the manufacturer of this vehicle has the ability to manufacture a completed ambulance with the exception of the chassis, within their own manufacturing facility. The basic modular body shall not be the product of a subcontractor or any company other than the manufacturer. Accessories such as light bars, sirens and other add on components are not considered as basic components of the modular body. The ambulance manufacturer must have significant experience in the construction of modular ambulance bodies and shall have manufactured a minimum of 8000 comparable units.

Requirements

This specification requires the manufacturer to provide a new, commercially produced, medical care vehicle, hereinafter referred to as an "ambulance". This vehicle shall be manufactured in accordance with the current ambulance design criteria of the National Highway Traffic Administration, U.S. Department of Transportation in Washington DC and the GSA -Federal Ambulance Specification KKK-A-1822-F.

Letter of Certification

Anyone responding to this bid invitation shall include a Letter of Certification with the bid. The Letter of Certification shall be written by a bonded independent testing laboratory nationally recognized within the ambulance industry. Certification provided shall match the chassis model & specifications of model requested for bid. Certification by employees of the ambulance manufacturer or by the manufacturer is not acceptable. The laboratory shall certify that the ambulance required by the bid specification has been examined and tested for compliance to the KKK-A-1822F specification. Certifications should be for ambulances built on the specified chassis. Body dimensions for the certification should be comparable to the size identified in this specification. This should be for a Roll/Formed Modular Body to include Static Load and Pull Testing. **Bids not providing current certificate with bid will not be considered. Current static load test certificate shall include a description of the test and modular body in which the test was performed.**

Performance

This is an engineer, design, construct and delivery type specification and it is not the intention of this agency to write out vendors or manufacturers of similar or equal equipment of the types specified. It should be noted, however, that this specification is written around specific needs of this agency. With the intent to standardize certain components, therefore, in numerous places we have named specific brands of components. This has been done to establish a certain standard of quality. Other brands will be accepted providing the vendor provides documentation in the bid that the particular brand offered meets or exceeds the quality of the actual brand called for in the specification.

The ambulance and the allied equipment required by this specification shall be the manufacturer's current commercial ambulance model of the type and class specified. The ambulance shall be complete with the required options and accessories as specified herein. Items will be furnished with such modifications as may be necessary and specified to enable the ambulance to function reliably and efficiently in a strenuous, sustained operation. The design of the vehicle and the specified options shall permit accessibility for servicing, replacement and adjustment of components and accessories with minimum disturbance to other components and systems. The term "heavy-duty" as used, shall describe equipment or items that are in excess of the usual quality or capacity that is normally supplied with standard production vehicles or components.

Pricing

All bid prices shall be complete and include warranty and Cost of Pick Up of the completed vehicle to the purchaser. Payment shall be made in accordance with the terms, and conditions of these specifications. Payment will be made upon delivery and acceptance of the vehicle(s) and equipment specified herein.

All bid prices and conditions must be specified on the Bid Proposal Form. Bid prices shall be valid for 60 days from the date of the bid opening, or as otherwise specified in the bid proposal. Payment in full will be made as each unit is received, inspected and found to comply with these specifications. The vehicles(s) shall be free of damage and properly invoiced.

By submission of this signed bid response, the bidder certifies under penalty of perjury, that to the best of his/her knowledge that the pricing in this bid response has been prepared independently without collusion, consultation, communication, or agreement for the purpose of restricting competition, as to any matter relating to such pricing with any other bidder or competitor. The bidder also acknowledges that the pricing quoted has not been discussed with or disclosed by the bidder prior to the opening of the bid, either directly or indirectly.

Liability

The bidder's proposal packet shall include a copy of the ambulance manufacturer's current insurance certificate. The manufacturer shall provide proof of \$10 Million dollars of product liability insurance coverage.

Delivery

The bidder shall be obligated to provide an estimated Production time. Estimated Production will be based on receipt of chassis. Bidder is responsible for transportation and lodging for final inspection of completed unit for 2 (two) Sumner County EMS personnel. The Bidder will be responsible for delivery of the units once final inspection has been completed unless other arrangements are made by Sumner County EMS.

Manufacturing

Manufacturer shall manufacture the module at their facility. Accountability and quality of the design suffer greatly when the module construction are done off site. Safety begins with a well designed and constructed module and is considered next to the chassis the most critical element in overall safety and long-term durability.

Repeatability

It is critical that the manufacturer design 100 % of the vehicle on a CAD (Computer Aided Design) system. All components must be electronically retained so that in the event that a manufactured part has to be remade the original engineered drawing can be utilized. It is expected that 90% of the machining be done on CAM (Computer Aided Machining) capable equipment in order to maintain tight tolerances in the event of reordered parts or a new vehicle order.

Engineering Support

Manufacturer shall maintain a full time engineering staff with degreed engineers. Due to the complexity of the design of the vehicle, proposals will be accepted only from manufacturers that utilize well-defined engineering techniques. Computer Aided Design (CAD) drawings of both the interior of the patient area and the overall layout of the module body will be mandatory. At a minimum these drawings shall include all exterior elevations, all interior views, and a plan view of the roof/ceiling. All options and elements required within these specifications shall be depicted on the prints. The purpose of this requirement is to assure this purchaser that vehicle proposals indeed meets the stated requirements as set forth in these specifications. Generic CAD drawings are not acceptable. The drawings, as submitted, shall accurately depict the exact vehicle that is being proposed. Bidders not including the required drawings will be considered non-responsive and will, therefore, be rejected.

Module Design

It is critical that the basic module design have a proven track record and meet the following criteria for consideration of this bid. A). Have a design that maximizes the greatest possible payload without ever compromising overall structural integrity and vehicle safety. B). Have a design that has been aerodynamically tested and engineered for reduced fuel consumption and ride stability. C). A design that can easily be retrofitted to a new chassis.

Safety - Design

The ambulance shall be designed and constructed to maximize the safety and security of the occupants. To the greatest extent possible, the interior walls and ceiling of the ambulance shall present a simple plane surface. This requirement applies in particular to the surfaces (cabinet fronts, doors, windows, cushion, etc.) that make up the front wall of the patient compartment. The interior of the patient and driver compartments shall be free of all sharp projections. All hangers or supports for equipment, lighting, controls and other devices shall be mounted as flush as possible with the surrounding surface. Padding (bolsters) shall be placed at all head areas and obstructions that may prove dangerous to persons moving about in the ambulance. The interior of the patient compartment shall be designed and constructed to minimize containment areas for the incubation of viruses either airborne or transmitted in fluids. All stepping surfaces (i.e. front cab and patient compartment step wells) shall be covered with anti-skid material for skid protection. All securing straps, cargo nets and other restraints shall be capable of retaining 10 times the total weight of the equipment or material they are designed to contain. Doors, hatches and covers shall be designed to contain 10 times the weight of the items stored loose behind the door, hatch or cover. Equipment installed in the cab shall be located and mounted in such a way that it shall not interfere with the operation of the driver side and/or passenger side air bag(s) if the vehicle is so equipped. In order to stop carbon monoxide emissions from entering into the interior of the ambulance, no equipment or fixtures are to be mounted on the engine cowl, unless fasteners and method of securing are specifically designed to prevent this problem. Any mounting on cowl shall be done without damaging the integrity of the cowl insulation or heat shield.

Material Definitions

All equipment, material and articles required under this specification must be new or fabricated from new materials produced from recovered materials. The term "recovered materials" means materials which have been collected or recovered from solid waste and reprocessed to become a source of raw materials, as opposed to virgin raw materials. None of the above will be interpreted to mean that the use of used or rebuilt products is allowed. The term "heavy duty", when used to describe an item, means in excess of the usual quality or capacity that is normally supplied as standard production material and represents the most durable item that is commercially available.

Materials Weight

In order to maintain the maximum payload without sacrificing structural integrity it is required that a minimum of 90% of the exterior body be made of formed sheet aluminum. Extrusions utilized for body corners and door frames tend to be heavier than formed parts as well as being more susceptible to welding cracks due to the type of joining methods used. The formed parts are lighter and more able to absorb long-term flexing of the body. **(No Exception)**

SPECIFICATIONS

TYPE I

AMBULANCE

Section 1 Mandatory Requirements ~ the bidder will only be considered

where the proponent has demonstrated that a proposed unit has specifications that fully meet or exceed those requested by the purchaser.

Item No.	Specification	Yes	No	Deviation/Explanation (attach necessary documentation)
1.2	The Type I module shall be a non-walkthrough conversion for a 2016 Ford F350 4x2 Diesel Cab and Chassis. XLT Prep Package The unit, along with equipment, to be operational and ready for service upon delivery.	Yes	No	
1.3	Module dimensions (minimum required – the intent of this requirement is to maximize ergonomic workspace for the attendants and the safe accommodation of patients. These dimensions will also account for the safe storage of personal protective equipment (PPE) and clothing for firefighting duties) Module dimensions: Outside length – 154” Outside width – 96” Head Room - 72" Interior headroom in the patient module	Yes	No	State module dimensions here: _____in. _____in. _____in.

Section 2 General Requirements

Item No.	Specification	Yes	No	Deviation/Explanation (attach necessary documentation)
2.1	Compliance An ambulance shall comply with the following, listed in order of precedence: (I) Federal Motor Vehicle Safety Standards (FMVSS); (II) Ford Quality Vehicle Modifier program (QVM)	Yes	No	
2.2	Versioning The documents referenced in 2.1 shall be the version of those documents that was in effect no earlier than when the motor vehicle chassis was manufactured and no later than when the vehicle was completed as an ambulance.	Yes	No	
2.3	Unit must have an established performance record in an application as described in KKK-1822-F which includes the severest climatic conditions.	Yes	No	
2.4	Remote keyless entry and panic alarm with two copies of all keys for each unit.	Yes	No	
2.5	All controls clearly and permanently labeled.	Yes	No	
2.6	All function controls shall be easily accessible to the operator when in the “driver seat” position.	Yes	No	

Section 3 Construction and Design Details

Item No.	Specification	Yes	No	Deviation/Explanation (attach necessary documentation)
3.1	Interior Safety A).All equipment and accessories installed must be designed and affixed so as to maximize the safety, security and ergonomics of the attendants, patients and passengers.	Yes	No	
	B).All exposed edges and corners without padding shall be rounded with the largest possible radius or chamfer.	Yes	No	
3.2	Equipment Retention The ALS cabinet must be secured with doors that allow easy access to all EMS response kits from within the patient module or from curbside exterior. Doors must remain secure when the ambulance is moving.	Yes	No	
3.3	Cabinet Construction	Yes	No	
	A) All interior cabinets shall be constructed of aluminum. (No Exceptions)	Yes	No	
	B) Adjustable aluminum shelving shall be securely bolted to Unistrut rails. (No Exceptions)	Yes	No	
3.5	Interior Finishes To the greatest extent possible, the interior walls and ceiling of the ambulance are expected to present a simple plain surface. This requirement applies in particular to the surfaces (cabinet fronts, doors, windows, cushions, etc.). The interior of the patient and driver compartments must be free of all sharp projections. All hangers or supports for equipment, lighting, controls and other devices must be mounted as flush as possible with the surrounding surface. Padding is expected to be placed at all head areas and	Yes	No	

	<p>obstructions that may prove dangerous to persons moving about in the ambulance. All exposed edges will either be padded or rounded to have a 1 inch mm radius.</p> <p>The interior of the ambulance must be designed and constructed to minimize containment areas for the incubation of pathogens — either air borne or transmitted in fluids,</p>			
3.7	Vehicle Weight	Yes	No	
	A) GVWR 14,000lbs, and to include all components and requirements included in a Ford F350 Diesel “Ambulance Prep. Pkg.”	Yes	No	
	B) Wheelbase = 165 in	Yes	No	
	<p>C) Axles:</p> <p>- Front 7000 lbs. min. capacity - Rear, 12,000 lbs. min. capacity with limited slip rear differential.</p>	Yes	No	
	<p>D) Springs – combined capacity at ground</p> <p>- Front 5,250 lbs - Rear 9,750 lbs</p>	Yes	No	
3.8	Weight Distribution			
	A).The weight distribution of the completed EMS vehicle, when measured at curb weight, shall comply with the chassis manufacturer’s requirements and the AMD 013 standard. The manufacturer will attach a signed certification tag that states the system has successfully met the test requirements.	Yes	No	
	B).In the absence of specific OEM values, the weight distribution for the completed EMS vehicle, when calculated on a level service or device, shall be such that not less than 30% or more than 50% of the vehicles weight is on the front suspension.	Yes	No	

3.9	Payload Requirements	Yes	No	
3.9.1	<p>A minimum of 1,750 lbs. payload allowance shall be provided over and above the vehicle curb weight which is to include all items in these specifications. Payload consists of four persons (calculated at 175 lbs. per occupant) and appropriately distributed support supplies and devices.</p> <p>Bidder to complete the following:</p> <p>Estimated Ambulance Weights at Delivery</p> <p>Curb Weight – Front _____ lbs.</p> <p>Curb Weight – Rear Axles _____ lbs.</p> <p>Calculated Payload Capacity _____ lbs.</p>	Yes	No	
3.9.2	<p>The vehicle payload shall meet or exceed that called for in the current KKK-A-1822F specification. The vehicle manufacturer shall, upon notice by this purchaser, provide a written statement from an independent engineer that the model being offered has met this set of criteria. Before delivery of the completed unit the manufacturer shall weigh the vehicle. A written statement of those weights shall be affixed to the inside of the street side mid body compartment door. This purchaser reserves the right to have the finished vehicle weighed independently upon delivery. If it is found that the written statement of weight provided by the manufacturer is inaccurate beyond what may be reasonably explained as a slight difference in the calibration of the scales, then the vehicle will be rejected. It should be noted that this purchaser, while interested in attaining the greatest possible payload, is unwilling to compromise on the structural requirements of a strong, durable, and safe body. All bidders must understand these factors supersede concern over payload, and that the lightest body (greatest payload) will not necessarily be deemed sufficient to meet the stringent quality and safety requirements set forth herein.</p>	Yes	No	

3.9.3	Upon delivery, each ambulance is to include a weight distribution report showing front, rear, left, right analysis and total weight of the vehicle.	Yes	No	
3.9.4	Weight distribution for the completed vehicle shall be such that the weight between the right and left wheel, of a given axle, shall be within 5% of each other.	Yes	No	
3.9.5	<p>This tolerance is calculated as follows:</p> <p>1. Obtain the curb weight of each wheel on a given axle:</p> <p> i) Divide the weight of each wheel by the total curb weight of the axle.</p> <p> Times(X) 100 = the % of weight on each side;</p> <p> ii) Subtract the smaller percentage from the larger result;</p> <p> iii) If the difference is 5% or less then the vehicle has complied with the required weight distribution.</p>	Yes	No	
3.9.6	Center of Gravity – the manufacturer shall determine the center of gravity of the fully converted EMS vehicle and confirm in this bid that it complies with the “CG” parameters as set out by the original producer of the chassis.	Yes	No	
3.10	Loading Height	Yes	No	
	The loading height from the ground to the floor of the module will meet KKK-1822F certification requirements.	Yes	No	

3.11	Bumper and Steps	Yes	No	
	<p>Mounted on the rear of the vehicle shall be an all aluminum step bumper. The bumper shall be impact absorbing and the center section to be a flip-up step. Step surface shall be slip resistant. Bumper shall be fully welded and constructed to withstand the following forces:</p> <p>The bumper shall be designed in such a way that in case of minor impact the bumper will slide underneath the module and reduce the chances of damage to the module itself. The bumper shall also be designed to be completely bolted to the chassis frame and not welded, so that for maintenance repairs the bumper can be easily removed and replaced.</p> <p>Bumper shall be constructed of all aluminum materials to maintain weight savings. It shall be fully welded utilizing 2 X 2 inch and 2 X 3 inch tubes, 2 X 3 inch association channel. Also included for added strength will be formed 1/4 inch gusset plates. The outside corners shall be 2 X 2 inch tubes formed with an 8 inch radius for added strength. The outside corners shall be covered in .100 aluminum diamond plate.</p> <p>The center section will be made of 10 inch non skid aluminum step material. This center section shall have pivot hinges that allow the step to flip up for patient loading,</p> <p>The bumper shall be bolted directly to the chassis frame. Welding additional steel to the chassis frame rails will not be acceptable as it adds additional weight and welding tends to weaken the steel frame rail. In addition an isolation material must be supplied between the aluminum bumper and steel frame for electrolysis prevention. The distance between the top of the step and the ground shall not be less than 16".</p>	Yes	No	

3.12	Rear Bumper Guard Bolted to the bumper shall be two (2) hard rubber dock bumper guards. They shall measure approximately 2 X 4 inches	Yes	No	
3.13	Tow Hooks Welded to the bumper frame shall be four (4) Tow Hooks. Two (2) front and Two (2) rear of the unit	Yes	No	
3.14	Side Entry Step Entry through curbside patient door. There shall be a recessed step well located at the curbside module entrance door. The step well shall include Dual 9 inch deep, polished aluminum diamond plate steps. A continuous three sided kick plate consisting of polished aluminum diamond plate shall be installed on the sides and rise to the height of the interior floor. The step shall include an LED light.	Yes	No	
3.15	Running Boards A combination running board and splash guard shall be constructed for the front of the module. It shall be made of 10 inch wide high traction grip strut and .100 diamond plate. It shall be welded as a complete assembly then bolted to the chassis. Running Boards must have a minimum of 11.0" clearance between the bottom edge of the running board and the ground.	Yes	No	
3.16	Fuel Filler Mounted to the side of module shall be an all aluminum gas filler housing. Housing shall be attached using plastic grommets. DEF filler housing shall be a lockable Cast Products housing. (No Exceptions)	Yes	No	

3.17	Fuel Filler Protection The area below the chassis fuel fill shall be covered with a stainless steel splash shield. This shield shall be completely sealed.	Yes	No	
3.18	Stone Guards - Front The front of the module shall be supplied with polished aluminum diamond plate stone guards. They shall be formed to match the vehicle radius and be 10" high. They shall be attached to the module with isolating grommets.	Yes	No	
3.20	Stone Guards - Rear The rear of the module shall be supplied with 10 inch high polished aluminum diamond plate stone guard. It shall be one continuous piece and shall be formed to match the vehicle radius. It shall be attached to the module using nutserts. Wheel well liners shall be fully welded aluminum and lined with Astro Turf like material to reduce road noise. Chassis manufacturer's wheel and jounce clearance must not be violated. (No Exceptions)	Yes	No	
3.21	Crash Rail Heavy Duty Pan Formed Diamond Plate Crash Rails shall be installed on each side of the body. Crash Rails shall be installed with spacers between the rail and the body to allow for impact. Securing of the rails to the body shall take into consideration for electrolysis.	Yes	No	

Section 4 Chassis Requirements

~ Modifications or additions to the OEM chassis must be completed using approved OEM practices and all modified equipment must meet or exceed OEM performance characteristics. Modifications or additions to the OEM chassis should be OEM approved. Any modifications or additions to the OEM chassis should not decrease the value of the OEM chassis warranty.

Item No.	Specification	Yes	No	Deviation/Explanation (attach necessary documentation)
4.1	Chassis Requirements	Yes	No	
	A) 2016 Ford F350 , Dual Rear Wheel 4x2, 89" Cab to Axle, 165" Wheel Base, Chassis Cab XLT. Chassis is to be ordered with the 471 option package. Ambulance Prep PKG with Special Emissions(LPO)	Yes	No	
	B) Engine: Ford – 6.7 liter Powerstroke V8 Turbocharged Diesel. 300@ 2,800 RPM SAE net HP, 660 foot pounds @ 1,600 RPM SAE net Torque.	Yes	No	
	C) Transmission: Heavy-duty 6 speed automatic Select Shift transmission with Tow/Haul Mode.	Yes	No	
	D) Oil Cooler- Additional transmission oil cooler/OEM	Yes	No	
	E) Gear Ratio- 4.10 Limited Slip Differential	Yes	No	
	F) Power Door Locks, Keyless Entry, Power windows and cruise control.	Yes	No	
	G) Shock absorbers – Heavy Duty front for Type I ambulance stability, control and handling.	Yes	No	
	H) Stabilizer Bar – will have heavy-duty stabilizer bars providing increased load stabilization as per manufacturer's heavy duty suspension package	Yes	No	
	I) Steering – Power steering system c/w tilt steering wheel.	Yes	No	
	J) Wheels – (6) 17"x6.5" – 10 hole, stamped disc suitable for tubeless radial 10 ply (E rated) tires.	Yes	No	
	K) Wheel Covers, (4) stainless steel			

	L) Tires – (6) required LT245/75R x 17E high-performance tubeless steel belted radials with all weather tread.	Yes	No	
	P) Valve Extension kit , stainless steel braided lines for inside dual wheels.	Yes	No	
	Q) Battery – Dual 12V – no less than 84 Amp Hours each per OEM spec. CCA combined rating 1540 amps. @ 0°F (-18° C) Reserve capacity per SAE J537, 180 min.	Yes	No	
	R) Alternators – Dual Combined 357 Amp capable of handling the total vehicle amperage draw.	Yes	No	
	S) Headlights – will be dual composite halogen with daytime running and “Headlights On” alerting.	Yes	No	
	T) Lights – Lighting to meet requirements of Ambulance Vehicle Standards Code, including daytime running lights and courtesy light switches at all doors.	Yes	No	
	U) Mirrors – Powered dual external rear view, remote heated mirror; size 6.25 x 9.5 in below eye level “swing out”. Split glass mirror head, upper flat glass (62sq. in minimum) and lower full width glass (30 sq. in min) c/w outboard signal lights.	Yes	No	
	V) Heater/Defroster/Air Conditioner.	Yes	No	
	W) Gauges – will have all gauges: oil, fuel, temperature, ammeter and engine hours as supplied by OEM.	Yes	No	
	Y) Front tow hooks.	Yes	No	
	Z) Fuel Tank -The Chassis shall have a single corrosion-resistant fuel tank with a minimum 40 gallon capacity.	Yes	No	
	AA) DEF System should have convenient access for filling. Shall be placed on outside of module in locking CPI housing.	Yes	No	
	BB) Block heater – A 1000 Watt capacity heater and not to be wired into shoreline on separate circuit.	Yes	No	

4.2	Automatic Engine High-Idle Speed Control The chassis OEM throttle control must be pre-programmed to meet OEM program requirements. This device must be "normally on", i.e., it must be in operating mode whenever the engine is running, vehicle is in park and the Emergency brake is set. The device must be preset so that, when activated, it will operate the engine at the appropriate RPM based on voltage sensing. The device must be activated automatically whenever the voltage of the OEM or the conversion battery falls below 12.5 volts.	Yes	No	
4.3	Backup Alarm There shall be a back-up alarm with a minimum db rating of 97 to be activated when the transmission is placed in reverse. To warn bystanders when the vehicle is backing up, a heavy duty reverse warning signal must be installed to operate when the gear selector is in "REVERSE". Provide a momentary backup alarm defeat switch on the driver's console.	Yes	No	
4.4	Backup Camera A. 7" Color Monitor shall be installed between the cab visors to monitor for backing up. The camera when going into Reverse switches to the exterior rearview of vehicle.	Yes	No	

Section 5 Driver's Cab ~ Any modifications or additions to the driver's cab must be completed using approved OEM practices and all modifications and equipment must meet or exceed OEM performance characteristics

Item No.	Specification	Yes	No	Deviation/Explanation (attach necessary documentation)
5.1	Driver's Cab General	Yes	No	
	A) The driver and passenger seat – high back Vinyl bucket seats, lumbar support, inboard arm-rest, 3-point harness. Must remain XLT Ford Convenient Package	Yes	No	
	B) Supplemental Restraint System (SRS) – The driver's side and passenger side should each be equipped with an air bag.	Yes	No	
	C) Floor covering in the cab interior shall be rubber supplied by the OEM, or equivalent for ease of cleaning, non porous and microbe resistant.	Yes	No	
	D) Vehicle clearance plaque showing height dimension measurements to be located easily visible to the driver. State the overall height.	Yes	No	_____ In.
	E) The driver's side and passenger side should each have access to a safely placed coat hook.	Yes	No	
	F) Audio System – OEM/AM/FM/CD – MP3 Stereo with front door speakers and a rear speaker in patient module.	Yes	No	
	G) Map Light – LED Map Light, Red/White over passenger seat with switch on console.	Yes	No	
	H) 2,000,000 Spotlight , hand held with coiled cord on right front of driver's console.	Yes	No	

5.2	Driver's Console	Yes	No	
5.2.1	<p>Control Panel and Console</p> <p>A console shall be installed in the cab. The console shall be constructed of aluminum and powder coated Black. It shall house the recessed emergency control panel and integral digital display. Under no circumstances shall the console interfere with the OEM vehicle controls or gauges. This console includes RAM Mounts and shall allow for siren and radio head installation.</p> <p>The front console shall include LED flashing warning indicators designed to warn the driver of open access doors (red flashing) or open exterior compartment doors (amber flashing). All switches shall be Carling style LED rocker switches of the same design as the attendant's control panel. The driver's control panel meters and switch legends shall have backlighting. The switch function legends shall be screen printed from the back for durability and shall be white on black to prevent bleed out. The standard front switch panel shall include, at a minimum, one spare switch</p> <p>Switches used shall be electro mechanical rocker type that fits into a standard switch footprint (Carling style). They shall be rated for a minimum 50,000 cycles and have LED indicator lights.</p> <p>For fast identification the switches shall be grouped by function:</p> <ul style="list-style-type: none"> A. Emergency Functions B. Non Emergency Lights C. Vehicle and Non Emergency Functions D. Battery Functions <p>The face plate, when removed for servicing, must have sufficient wire lengths to allow the plate to be turned over and have all connections remain attached.</p> <p>The edges of the face plate must present a smooth rounded surface such that the edge will not cause injury to anyone accessing items on the face plate.</p>	Yes	No	

5.2.2	<p>The driver's switch panel shall include the following switches:</p> <ul style="list-style-type: none"> a) Ambulance Connect (Master) b) Primary/Secondary Emergency lighting activation c) Wig Wag warning light activation d) Horn/siren and steering wheel activation e) Left Scene lights f) Rear Scene lights g) Right Scene lights h) 3- Way Cot lights i) Map light j) Reverse Alarm k) Antitheft l) Sure Start (Battery Boost) m) Battery Boost n) Door/Compartment ajar visible/audible warning 	Yes	No	
5.3	<p>Cab Map Bin</p> <p>There shall be an aluminum map bin installed between the rear wall and the floor console and seats in the cab. This box shall be approx. 5" x 12" and shall be powder paint coated Black. There shall also be (2) cup holders located at the rear of the console.</p>	Yes	No	
5.4	Door Open Warning	Yes	No	
	Door ajar warning light on driver's console for all entry/exit doors including: the cab doors, patient module doors and for exterior compartment doors.	Yes	No	
5.5	Bulkhead Partition	Yes	No	
	The design of the cab and module shall be a non-walkthrough. The cab and the patient compartment shall be separated by a window opening.	Yes	No	

Section 6 Modular Body Type I-AD (Additional duty) Ambulance (14,000 GVWR), Class I,
Floor Plan A for Advanced Life Support Services in accordance with USA Federal Specifications for Ambulance
KKK-A-1822F as well as the following minimum requirements:

Item No.	Specification	Yes	No	Deviation/Explanation (attach necessary documentation)
6.1	<p>Modular Body Design</p> <p>The ambulance must be designed and constructed so as to maximize the safety and security of the attendants, patients and passengers while also maximizing the utilization of space. The construction will also promote fuel efficiency and handling stability with aerodynamic design principles.</p> <p>Contractor(s) must identify any innovations, research or development that has been done regarding the aerodynamic efficiency of the proposed vehicle.</p> <p>The main structure of the modular body must be of fully-welded construction. Individual tubing members must be welded using continuous welds around the full circumference of the member. If the modular body consists of wall or roof sub-assemblies, these sub-assemblies must be joined with continuous welds on all exposed surfaces. Tack welds are NOT acceptable for joining sub-assemblies</p> <p>The modular body's front, rear and side walls, should be comprised of a one-piece seamless sheet of aluminum. There should be NO butt welded or putty-filled seams on the exterior walls.</p> <p>The roof must be sheeted with no more than two (2) pieces of aluminum which are joined by a continuous weld. All panels and sheeting must be welded and sealed with adhesive sealant (acceptance standard is Silaprene). The roof panels must also integrate rain gutters into the sheeting itself. Mechanically attached rain gutters are not permitted due to their corrosion potential.</p>			

	The wall sheeting must be attached and sealed with an adhesive sealant to give a clean, smooth appearance.			
6.2	<p>Modular Body Construction</p> <p>The general dimensions of the body are to be 154" long by 96" wide with 72" Headroom.</p> <p>The modular body must be a Rolled/Formed designed to eliminate exterior extrusions to increase the strength of the body as well as reduce the potential of corrosion, not only in the general construction of the body frame but also the framing of each entry door and exterior compartment door. The body is to be designed using a 4 inch radius, 2"x2" roll cage all-aluminum frame covered by seamless .125" aluminum sheeting. The aluminum sheeting is to be CNC cut and bent to form integrated exterior door jambs thus eliminating seams and welding that could potentially cause body corrosion. No Exceptions</p>	Yes	No	
6.3	<p>Exterior Module</p> <p>In order to maintain consistency and long-term durability it is required that all aluminum used in the construction of the exterior module skin be of the identical alloy and hardness.</p> <p>Module Exterior: Wall Thickness = .125", Alloy = 5052-H32 Roof Skin: = .090", Alloy = 5052-H32 Exterior Compartment Bottoms: = .125", Alloy = 5052-H32 Exterior Compartment Walls: Wall Thickness = .125", Alloy = 5052-H32</p> <p>Module and Exterior Compartment Doors: Door Skin Thickness = .125", Alloy = 5052-H32 Internal Bracing Thickness = .090", Alloy = 5052-H32</p>	Yes	No	

	Structural Tubing Sizes Wall and Roof Tube Size: = 2" X 2" X .125", Alloy = 6061-T6			
6.4	Module Sub Floor Sub Floor Tubes and Channels: 3 X 2 X .125 inches, Alloy 60601-T6 2 X 2 X .125 inches Alloy 60601-T6 1 X 2 X .125 inches Alloy 60601-T6	Yes	No	
6.5	Sub Floor Mounting Plates Cot Mount Plate: .250 Minimum Sheet Thickness Aluminum Alloy = 5052-H32 Attendant Seat Mounts: .250 Minimum Sheet Thickness Aluminum Alloy = 5052-H32 Body Mount Plates: .5 X 3 inch Minimum Thickness Aluminum Alloy 60601-T6 Seat Belt Mounts: .250 X 4 inch Minimum Thickness Aluminum Alloy 60601-T6 Heat Shield: .040 Continuous	Yes	No	
6.6	Interior Cabinets: Minimum Sheet Thickness = .091 inches Aluminum Alloy = 5052-H32 Wall Panels: Minimum Sheet Thickness No Exceptions	Yes	No	
6.7	Structural Tubes Tubes shall be structural type In order to have more strength and to create a more consistent gap for weld filling. All ceiling and wall tubes shall have a .375 inch radius. Tubes that have square corners (architectural) are not as strong and do not allow enough weld gap thus reducing weld penetration.	Yes	No	

6.8	Module - Construction In order to reduce corrosion potential, aid in decal and stripe adhesion and create a more consistence appearance, all panels comprising the exterior module shall be constructed in such a way that the completed module shall be seamless. This can be achieved through forming techniques, precision welding and/or strategic seam placement. The end result shall be a modular with no visible seams.	Yes	No	
6.9	Structural Framing -Roll Cage Independent of the module skin shall be a structural roll cage. This structure shall consist of 2 X 2 X .125 inch tubes 6061-T6, which are welded together creating a continuous structure from floor to ceiling. The ceiling tubes shall be one continuous formed tube that traverse the entire module from side to side and is welded to a horizontal longitudinal tube that traverse the full perimeter of the module body. For added strength the outside radius shall be formed into all the ceiling tubes. At the vertical corners in the top and at floor level shall also be a 2 X 2 X .125 inch tubes 6061-T6, which is formed to the body radius. . The lateral spacing of framing members shall be a maximum average of 16" on center for superior strength throughout.	Yes	No	
6.10	Structural Framing - Tube Welding The tubing shall be welded at every intersection and on three sides creating a minimum of 4 inches of weld length.	Yes	No	

6.11	<p>Body Panels</p> <p>The entire exterior module shall be constructed of .125" x 5052-H32, corrosion resistant sheet aluminum. The module side wall, front and rear wall panels shall each be CNC cut and machine formed to provide a seamless sidewall. All body panels shall be box pan formed construction. Entrance doors and exterior compartments shall be formed into the body panels. Extruded frames; due to the fact that they cause seams and are of a different alloy will not be accepted. Body panels shall be welded to the body structure in non exposed areas. The body panels shall be adhered to the structural tubes utilizing structural adhesives and when completed shall have a smooth flat appearance. Flat sheet style construction that slides into or under an extrusion shall not be acceptable due to the difficulty in preventing oxidation and/or electrolysis where visible, exposed joints are present and to eliminate the inferior structural properties that can develop during dynamic stress situations.</p> <p>To eliminate the potential for seam seal cracks or the appearance of any sidewall body cracks, the manufacturer shall provide full length welds along seams at any door opening. The welds shall be ground smooth and the body work will provide a seamless unbroken appearance when painted.</p> <p>The module side wall, front and rear wall panels shall each be CNC cut and machine formed to create the side and rear entrance door jamb openings. Door openings shall be free of any overlapping frames or plastic filler material. The return flange of the door jambs shall accept the weather-stripping that is applied to the door.</p>	Yes	No	

6.12	Body Panels - Panel Attachment Each sidewall shall be manufactured in an environment designed to prevent the waviness that can occur during the assembly process. The body panels shall be welded to the tube structure at all door and compartment openings. They shall also be welded to the tube structure at both the upper and lower horizontal perimeter tubes. In areas that will be covered the body panels shall be attached to the tubes by either welding or mechanical fasteners. Note: It is critical to achieve as many attachment points as possible between the body panel and the tube structure However the seamless body is paramount importance. Therefore exposed fasteners, weld distortions or extraneous body trim will not be allowed.	Yes	No	
6.13	Welding Equipment Repeatability is of utmost importance. Consequently we require that the manufacture demonstrate their ability to provide highly consistent welds. Welds are critical to the durability and safety of the product. The manufacturer must supply appropriate documentation of their ability to achieve highly consistent welds. We will accept two types of methodologies: 1. All welding is performed with digital welding equipment that is programmed to the specific type of weld, direction, and metal thickness. 2. They produce documentation that all welders are tested every six months and quality weld samples are tested every month.	Yes	No	

6.14	Body Panels - Panel Adhesion Body panels shall also be adhered to the module tubes utilizing two types of adhesives. The first adhesive shall be used for structural attachment. It shall be an industrial panel bonding adhesive that meets FMVSS 301 and Fords Stress Durability test BV-101-07. It shall be used intermittently throughout the module at all high stress points. The second adhesive shall be a Silaprene brand urethane adhesive (or equivalent) and shall be applied throughout the module on both sides of each tube and in all the area's where the body meets the subfloor.	Yes	No	
6.15	Body Panels - Drip Rail Because it is required to have the entire module constructed of the same alloy and to eliminate as many seams as possible the drip rails shall be formed into the body panels. It shall run the full length of the module (less the radius) and shall extend a minimum of .75 inches from the module. Drip rail shall be on both sides and rear of the module.	Yes	No	
6.16	Isolators It is absolutely critical that every component attached to the exterior module have a specifically designed isolation process, methodology or component. Because of this it is required that 100 percent of all body holes be cut prior to paint/coating of the exterior module. Isolators and inserts have very tight tolerances and consequently all holes must be machine cut on a strippet or milling machine, laser or water jet cutter, or CNC high speed router. Holes that are hand drilled or cut will not be acceptable. No Exceptions	Yes	No	

6.17	Sub Floor System - Construction Sub floor shall be constructed of aluminum tubes and channels that have a minimum of 4 inches of weld at every intersection. Extrusions shall be 6061-T6, the dimensional requirements are: 3 X 2 X .125 Tube 2 X 2 X .125 Tube 1 X 1 X .125 Tube 3 X 2 X .250 Channel It is required that the entire floor be sequentially welded so as not to introduce metal fatigue or structural deformation due to excessive heat. There shall be a minimum of eight (8) lateral structural members that run the full width of the module less the perimeter tube. It is critical that these lateral members are continuous full width sections in order to maintain long term side to side stability and structural integrity. Tying theses structural members together shall be four (4) .5 X 3 inch aluminum longitudinal bars. These longitudinal bars shall run parallel to the chassis frame rails and shall act as the chassis to module mounting support plates.	Yes	No	
6.18	Sub Floor System - Pre-stressing In order to provide minimum weight and maximum strength the sub floor structure shall be designed and built in a mechanical pre-stressed manner. This can be accomplished with a jigged welding fixture or preformed sub floor components. The subfloor shall be assembled with a small degree of arch in the overall shape. After the entire floor is welded together it is expected that the floor shall be flat and level.	Yes	No	

6.19	Mounting Hardware Areas of the subfloor where cot mount hardware and attendant seat pedestal are bolted shall be supplied with .250 inch aluminum plate. These plates shall be securely welded to the aluminum substructure.	Yes	No	
6.20	Sub Floor System - Perimeter Crash Protection Surrounding the entire perimeter of the sub floor shall be aluminum tubes and or channels to act as energy absorbing structures in the event of a collision. It is especially critical that this crash protection barrier form around all four corners of the module. These tubes shall be formed with the same radius as the body corners No Exceptions	Yes	No	
6.21	Sub Floor System - Skirt Supports Areas where there is not a compartment, wheel well, or step well shall have a formed tube that extends to the bottom of the body panel for additional structural support.	Yes	No	
6.22	Sub Floor System - Covering Covering the entire aluminum sub floor shall be a single sheet of .040 aluminum. Due to moisture and carbon monoxide concerns smaller sheets with seams will not be acceptable. It shall be attached to the subfloor frame with a Silaprene adhesive.	Yes	No	

6.23	Sub Floor System – Panel The subfloor, above the aluminum sheet shall be specially constructed to provide both acoustic and thermal protection for the patient interior. The composite floor panel shall be installed flush with the top of the longitudinal channel structure. The composite insert shall be secured in place with a two part self-etching, high-strength epoxy. All other open areas of the exposed sub floor not being filled by compartments or wheel wells shall have the same composite floor panel material installed to fill the openings. All seams and the entire perimeter of the sub floor shall be completely sealed with Sikaflex sealant adhesive or a spray-in-place foam material to create a watertight, dust free environment.	Yes	No	
6.24	Insulation - Materials It is critical that the entire module be completely insulated and sealed. This includes the ceiling, all four side walls, the floor and doors. It is required that the various types of insulation be carefully chosen based upon the specific location and the performance required. A one size fits all approach will not be acceptable. Below is a list of the insulation materials and their individual R ratings. These R ratings should be considered a minimum requirement. If an equivalent substitute is being proposed you must submit samples and R value documentation from the supplier. Ceiling: 2 inch Fiberglass Foil backed Knuff Insulation Board with Ecosse – 1.6 lbs/cu ft -R 8.3 Walls: 2 inch Fiberglass Foil backed Knuff Insulation Board with Ecosse – 1.6 lbs/cu ft -R 8.3 Floor: 5/8 inch Atlas Energy Shield Polyiso Sheeting – R-4.1 Doors: 3/4 inch Armaflex Sheet – R 3.1 Tubes to Wall and Ceiling panels : 1/8 inch Armaflex Sheet – R .51 Tubes to Wall panels : 1/8 inch Armaflex Sheet	Yes	No	

6.25	Insulation - Sealers In an effort to make the module as thermally efficient as possible it must be completely sealed on the interior. This includes using a urethane sealer on the entire interior including the full perimeter where the floor and walls meet. There shall be a designated area where the underbody harnesses come up from the floor. It shall have a flanged trim ring to prevent harness chaffing and enable more complete ceiling. Harnesses running up corner radius that are then stuffed with material will not be acceptable.	Yes	No	
6.26	Undercoating All surfaces, edges, corners and joints that can be exposed to any fluid must be sealed by an approved waterproof bonding material. The vehicle must be undercoated for sound deadening, corrosion and stone damage protection. An undercoating material must be applied to the under body, under chassis and sheet metal surfaces; except to the drive shaft, drain holes, lubrication points, engine crankcase, heavy castings, suspension components, heat shields, heat diffusing devices, catalytic converters, brake cables, backup alarm, auxiliary air conditioning and heater line and areas 10" from the exhaust system(s). Copies of the specifications and warranties for the proposed undercoating products must be included with the Vehicle Manual. The Contractor(s) must adhere to any instructions/guidelines issued by the OEM concerning application of undercoating.	Yes	No	

	<p>Application instructions given by the manufacturer of the undercoating products must be followed.</p> <p>Two (2) applications of undercoating must be provided:</p> <p>1)-After welding the reinforcing steel bar, step well, body structural components, etc., all interior areas subject to rust and/or corrosion must be undercoated; and</p> <p>2)- On completion of the total conversion package, an undercoating material must be applied to the under body, under chassis and sheet metal surfaces; except to the drive shaft, drain holes, lubrication points, engine crankcase, heavy castings, suspension components, heat shields, heat diffusing devices, catalytic converters, brake cables, backup alarm, auxiliary air conditioning and heater lines and areas two hundred fifty (250) mm or less from the exhaust system(s).</p> <p>Caution must be exercised regarding over-spray of undercoating. The Contractor(s) is responsible for final cleaning of all areas.</p>			
6.27	<p>Module Coating – Electrolysis Prevention</p> <p>All external materials and fasteners shall be chosen to prevent electrolysis and corrosion due to dissimilar materials, exposure to the elements and moisture entrapment.</p> <p>Rubber, plastic or Mylar insulating material shall be installed under all lighting, all exterior compartment and entrance door handles, exterior door hinges, rear door hold opens, fuel filler, crash rails, windows and between the cab and module.</p>	Yes	No	

	<p>To prevent long term electrolytic paint corrosion all components to be mounted on the module exterior shall be cut out prior to painting. All exterior fasteners used to mount emergency lighting to the outside of the module shall be completely isolated from the painted module by using a nonferrous collapsible blind insert that is reusable. Crash rails and fender rings shall be secured to the module body utilizing an attachment method that does not use dissimilar metals. No Exceptions</p>			
6.28	<p>Module to Chassis Mounting System - Body Mounts</p> <p>The module shall be mounted to the chassis frame with minimum of ten (10) tie down locations, five (5) down each side symmetrically located. Each mounting location shall consist of a rubber doughnut type system that is securely bolted to the OEM manufacturers frame and the 1/2 inch thick X 3 inch wide aluminum plate that is a welded component of the module sub floor. The bolts utilized shall be 1/2 inch Grade 8 (or equivalent). In order to make the vehicle easier to remount the mounts shall be bolted in such a way as to allow the bolt to be easily removed from the underside of the vehicle without having to cut or modify the bolt, mount or substructure.</p> <p>On top of these transverse connecting plates shall be a 1/8 inch anti-friction pad to prevent electrolysis and vibration transmission from the frame to the module. The module sub floor 'C' channels shall rest only on these anti-friction pads, and be securely fastened to the transverse connecting plates with high strength grade 5; 5/8 inch zinc plated steel bolts.</p>	Yes	No	

6.29	<p>Entrance Door Design</p> <p>Hinges must be full length, stainless steel piano hinges with a stainless steel pin. The hinge must be designed to provide ease in servicing and adjustments.</p> <p>Door latches must be automotive style with a two-stage catch mechanism.</p> <p>When doors are opened, the hinges, latches and door-checks must not protrude into the access area. The following must be installed on the inside of each door; a handle to facilitate closing; door stops to prevent damage to body sides; and an inside door release handle on each door. On the exterior of each rear patient compartment door, door stops must be installed to prevent body damage and be of a suitable strength.</p> <p>All patient compartment entry doors must have an emergency release mechanism in each door. These releases must be attached to the door lock mechanism. The door release mechanism must be easy to access and operate</p> <p>No Exceptions</p>	Yes	No	

6.30	<p>Patient Entrance Doors</p> <p>Door openings to the patient compartment must be provided at the rear of the body and on the curb side ahead of the right rear wheel. Each door must have effective neoprene seal compression or overlapping seals to prevent water leakage, dust penetration and reduce siren and road noises.</p> <p>There must be dual rear doors complete with vertical hinges that must provide a minimum clear opening of 46" wide by the maximum height attainable with consideration for the rear emergency lighting. Consideration should be given in designing the doors for the removal of the primary cot.</p> <p>The curb side rear door opening must be of sufficient size to accommodate the emergency removal of patients on the main cot.</p> <p>The window in the curb side door must be vented to provide air circulation, should mechanical systems be non-operational. The window must be equipped with a screen and be lockable. The rear door windows must be fixed and non-vented.</p>	Yes	No	
6.31	<p>Entrance Doors - Rear Doors</p> <p>Rear Entrance doors shall be designed to allow for medic ease of access when not loading a patient. Therefore the curbside rear door shall be approximately 20% larger than the street side rear door. The rear doors opening height clearance shall be 65 inches. The rear doors opening width clearance shall be 46 inches. No Exceptions</p>	Yes	No	
6.32	<p>Entrance Doors - Side Door</p> <p>The side door opening height clearance shall be 67 inches. The side door opening width clearance shall be 30 inches.</p>	Yes	No	

6.33	<p>Entrance Doors - Construction</p> <p>Doors shall be double box pan formed of a single sheet .125 inch 5052-H32 aluminum and shall be a maximum of 2.25 inches thick. They shall be fully welded and ground smooth to provide a seamless door. For added strength the doors shall also have box pan formed braces that are welded to the door in such a manner that they do not show weld distortion marks on the exterior door surface.</p> <p>A full perimeter air core weather seal to be securely fastened to the exterior door pan so that the paddle handles, rotary latches and all connecting hardware are protected from the elements and the seal is protected from damage.</p>	Yes	No	
6.34	<p>All Doors - Handles</p> <p>The doors shall be fitted with Eberhard E-Grabber door handles. The handle shall be designed with a floating cam so when the doors are locked , no stress will be placed on the door rod linkage when the paddle handle is operated. The surface finish of the handles and the handle housing shall provide polished chrome, bright finish. The paddle handles and housings shall be tested for adhesion, chemical resistance, salt spray abrasion and accelerated weathering.</p> <p>The interior side of each module entrance doors shall include a flush mount paddle handles. The interior door assembly shall include a locking lever for the side entrance door and the curbside rear locking door.</p> <p>Non stainless parts shall have a yellow zinc chromate finish. The door rods shall have formed ends that fit over the pull mechanism in a manner that even if the locking pin were to fail the rod will remain attached to the door pin. Door rods shall be threaded for fine tune adjustments. Cables, fixed length rods, or rods with bends will not be acceptable.</p>	Yes	No	

6.35	<p>Entrance Doors - Hardware</p> <p>The module entrance doors shall be equipped with two stage rotary latches constructed of high strength, heat treated, steel latch components. This latch must be certified to FMVSS 206 Standards for Personnel restraint Applications. Components shall be zinc electroplated and coated with Everlube or equivalent. Latches shall be bolted in place with 5/16 inch grade 8 bolts.</p> <p>All of the internal door hardware, paddle handles and latches, shall be sprayed with a petroleum based lubricant material. The locking pawl shall be secured to the paddle handle with removable LockTite. The Paddle handle shall be secured with machined bolts utilizing anti-seize. "NO EXCEPTIONS"</p> <p>There lower portion of the interior door panel shall be removable to gain access to the rotary latches for routine maintenance.</p> <p>All compartment and module entry door paddle handles shall be keyed alike. The paddle latches mounted in each locking door shall include a double cut, non-directional tumbler assembly designed to accept a key that does not require a specific orientation for actuation. Single cut tumbler assemblies that require a specific orientation for operation are not acceptable.</p> <p>All rotary door latches shall engage Nader pin striker posts made of high strength steel, plated with clear chromate and inserted through a synthetic isolation washer designed to prevent corrosion around Nader pins. The Nader pins shall have a shoulder to prevent the latch mechanism from being pulled over the top of the pin in a dynamic crash situation. The Nader pins shall be fastened with a securing nut designed to function like a blind fastener, allowing the Nader pin to be adjusted and re-tightened without having to access the nut. The interior side of each module entrance doors shall include a flush mount paddle handles.</p>	Yes	No	

	The interior door assembly shall include a locking lever for the side entrance door and the curbside rear locking door.			
6.36	Entrance Doors - Hinges <p>The doors shall be fitted with stainless steel hinges with a minimum pin diameter of .250 inches and a minimum leaf size of 1 inch. Hinge knuckles shall be peened to keep pin from coming out. The doors shall be fitted with 1/4-20 nutserts for bolting of hinges. These nutserts shall be applied to both the doors and the door frames. The doors shall be bolted to the body structure with 1/4" x 20 stainless steel truss head machine screws. Bidders must submit, with their bids, test documentation demonstrating compliance with FMVSS #206.</p> <p>There shall be an insulating material installed along the length of the hinge where the hinge meets the door frame to separate the stainless hinge from the aluminum body. This material shall be transparent so as not to be visible at any point while the door is being used.</p>	Yes	No	
6.37	Entrance Doors - Insulation <p>Doors shall be lined with a 3/4 inch thick high density closed cell foam that has both insulation and sound attenuation qualities. It is noted that the entrance doors are constantly being exposed to moisture. Therefore door insulation shall also have an anti-microbial treatment (Microban or equivalent).</p>	Yes	No	

6.39	<p>Entrance Doors - Hold Opens</p> <p>The rear doors shall use Cast Products (or equivalent) aluminum hold opens with high-density replaceable rubber inserts. They shall hold the doors open at a 130 degree angle. Because the high cycle time of the doors the components shall be bolted to both the door and the module with 1/4 20 nutserts. To eliminate long term failure the receiver shall be bolted into a body structure tube.</p> <p>The curbside entrance door shall incorporate a spring driven device capable of holding the door open at 90 degrees. The rod assembly shall be ½" diameter minimum. Due to the extreme stresses exerted on the door at the hold open attachment point, the attachment bolts must be anchored to the door using 1/4" x 20 stainless steel bolts through nut inserts that are secured into a support gusset welded into the upper corner of the door structure. Screw type attachments will not be acceptable. NO EXCEPTIONS</p> <p>The curbside and rear entrance door headers shall have removable, vinyl covered foam cushions to provide protection for emergency personnel when entering or exiting the vehicle. Vinyl color shall be Yellow for additional safety.</p>	Yes	No	
6.40	<p>Entrance Doors - Door Panels</p> <p>The entrance door interior panels shall be .090 aluminum 5052-H32. They shall be white to match the interior. The door itself shall be fitted with nutserts approximately every 12 inches. The door panel shall be bolted in place with White bolts and isolation washers.</p> <p>There lower portion of the interior door panel shall be removable to gain access to the rotary latches for routine maintenance.</p>	Yes	No	

6.41	Entrance Doors - Seals It is critical to keep moisture out of the interior of the module. Each entrance door shall be equipped a door seal. A full perimeter air core weather seal shall be securely fastened to the exterior door pan so that the paddle handles, rotary latches and all connecting hardware are protected from the elements and the seal is protected from damage. This flange shall also include small plates at the nader pins to ensure that the seal completely surrounds the nader pin opening. Since this seal is more susceptible to long term wear and tear it shall be mechanically fastened and be easily replaced.	Yes	No	
6.42	Entrance Doors - Maintenance Entrance doors shall be equipped with reflectors. These reflectors shall be removable and placed in a location that allows for maintenance to the door rods.	Yes	No	
6.43	Entrance Doors - Wire Routing All doors that require wire routing shall be equipped with stainless steel spring conduits. They shall be .625 inches in diameter and be equipped with a receptacle that allows the spring to easily slide into the door cavity when closed. All wire routing through doors must be done in this manner. No Exceptions.	Yes	No	
6.44	Entrance Doors - Safety Exit In the event of an accident and the door linkage is damaged to the extent the occupant can no longer open the door, the manufacture shall install a safety release at the top and bottom of all entrance doors. No Exceptions.	Yes	No	

6.45	<p>Door Windows</p> <p>The windows combined shall have a minimum of 650 square inches of glass. They shall be approximately 30 inches tall and have the same width proportion as the doors themselves. The glass shall be dual pane insulated (single pane glass will not be acceptable). Surrounding the glass shall be an aluminum extrusion.</p> <p>The side entrance door shall include a sliding window with a positive latch and screen. The window shall be approximately 13"W x 30"L.</p> <p>The rear entry doors shall have fixed glass windows to prevent the possibility of carbon monoxide from entering the patient compartment. The Streetside door shall be approximately 13"W x 30"H and the Curbside door shall be 17"W x 30"H</p> <p>All windows shall be from the same window manufacturer, and shall be tinted safety glass with black aluminum extruded frames inside and out. Windows shall meet and incorporate the required stamp and serial number per F.M.V.S.S. regulation #571.205. No Exceptions</p> <p>Patient compartment Windows shall be Privacy Tinted/Screened with a VLT range of 5%.</p>	Yes	No	
6.46	<p>Assist Handles</p> <p>The module entry doors shall be equipped with 1" diameter "L" shaped assist handles. The handles shall be Yellow with Anti-Microbial coating. Each side and rear entry door handle shall be mounted so that the horizontal portion of the handle extends along the lower edge of the window and the vertical portion of the handle extends up and along the outer edge of the window on each door.</p>	Yes	No	

6.47	Exterior Compartment Construction - All compartment sidewalls and ceilings shall be constructed of .125" x 5052-H32 aluminum. Compartment floors shall be constructed of .125" x 5052H32 aluminum that is raised to provide a smooth sweep out floor. The complete formed and welded compartment assemblies shall be securely welded to the sub-floor structure and sidewall structural framing of the module. All compartment construction joints that are not sealed by weld shall be sealed with an automotive grade seam sealer before final finishing of the compartments.	Yes	No	
6.48	Exterior Compartment Doors The exterior compartment door panel shall be single sheet, double box pan formed .125 inch aluminum and precision welded to provide a seamless door. The door pans to have the corners fully welded and ground smooth. There shall be reflectors strategically placed on the door for door rod maintenance. All rotary door latches shall engage Nader pin striker posts made of high strength steel, plated with clear chromate and inserted through a synthetic isolation washer designed to prevent corrosion around Nader pins. The Nader pins shall have a shoulder to prevent the latch mechanism from being pulled over the top of the pin in a dynamic crash situation. The Nader pins shall be fastened with a securing nut designed to function like a blind fastener, allowing the Nader pin to be adjusted and re-tightened without having to access the nut. All of the internal door hardware, paddle handles and latches, shall be sprayed with a petroleum based lubricant material. The exterior compartment doors over 36 inches shall be equipped with two stage rotary latches constructed of high strength, heat treated, steel latch components.	Yes	No	

	Components shall be zinc electroplated and coated with Everlube. Latches shall be bolted in place with 5/16 inch grade 8 bolts.			
6.49	<p>Exterior Compartment Doors - Handles</p> <p>The doors shall be fitted with all stainless steel polished Eberhard E-Grabber door handles. The handle shall be designed with a floating cam so when the doors are locked, no stress will be placed on the door rod linkage when the paddle handle is operated. The handle housings shall have a die cut rubber gasket separating the paddle handle from the door. The surface finish of the handles and the handle housing shall provide polished chrome, bright finish. The paddle handles and housings shall be tested for adhesion, chemical resistance, salt spray, abrasion and accelerated weathering.</p> <p>All compartment and module entry door paddle handles shall be keyed alike. The paddle latches mounted in each locking door shall include a double cut, non-directional tumbler assembly designed to accept a key that does not require a specific orientation for actuation. Single cut tumbler assemblies that require a specific orientation for operation are not acceptable.</p>	Yes	No	
6.50	<p>Exterior Compartment Doors - Hinges</p> <p>The doors shall be fitted with stainless steel hinges with a minimum pin diameter of .250 inches and a minimum leaf size of 1 inch. Hinge knuckles shall be peened to keep pin from coming out. The door hinges shall be fitted with 1/4" x 20 stainless steel truss head machine screws. Bidders must submit, with their bids, test documentation demonstrating compliance with FMVSS #206.</p>	Yes	No	

6.51	Exterior Compartment Doors - Insulation Doors shall be lined with a 3/4 inch thick high density closed cell foam that has both insulation and sound attenuation qualities. It is noted that the doors are constantly being exposed to moisture. Therefore door insulation shall also have an anti – microbial treatment (Microban or equivalent).	Yes	No	
6.52	Exterior Compartment Doors - Hold Opens The exterior compartment doors shall incorporate Suspa 45# gas filled spring hold open device capable of holding the door open at 90 degrees. Due to the extreme stresses exerted on the door at the hold open attachment point, the attachment bolts must be anchored to the door using 1/4" x 20 stainless steel bolts through nut inserts that are secured into a support gusset welded into the upper corner of the door structure. No Exceptions	Yes	No	
6.53	Exterior Compartment Doors - Panels The entrance door interior panels shall be .090 aluminum 5052-H32. They shall be fully White to match the interior. The door itself shall be fitted with nutserts approximately every 12 inches. The door panel shall be bolted in place with White bolts and isolation washers.	Yes	No	
6.54	Exterior Compartment Doors - Seals A full perimeter air core weather seal to be securely fastened to the exterior door pan so that the paddle handles, rotary latches and all connecting hardware are protected from the elements and the seal is protected from damage. No Exceptions	Yes	No	

6.55	Exterior Compartment Doors - Maintenance All exterior compartment doors shall have two red reflectors mechanically attached to the inside of the door panels. These reflectors shall be removable and placed in a location that allows for maintenance access to the door rods. No Exceptions	Yes	No	
6.56	Exterior Compartment Doors - Switching Each exterior compartment shall be independently switched and will energize one compartment only. The door switch shall activate a common flashing Amber light located in the front switch panel to notify the driver when any door is open. The exterior compartments shall be illuminated by LED strip lighting with dedicated ground wires The switch utilized shall be a Ford door switch that requires no maintenance yet is still easily accessible for replacing.	Yes	No	
6.57	Exterior Compartment - Coating Finish The exterior compartment interiors, doors and door backs shall be the identical material and process used for the exterior module. No Exceptions	Yes	No	
6.59	Exterior Compartment Lights Exterior compartment lights shall be LED strip lights and shall be rated for 50,000 hours	Yes	No	

6.60	Exterior Compartment Layout			
	<p>A) Street-side Forward Compartment 1: Main outside Oxygen cylinder storage and access.</p> <p>This shall be the forward most compartment on the street side of the module and will be full height. This compartment shall be for main oxygen tank and additional 'D' or 'E' cylinders. It shall be externally vented with a marine grade Chrome Cowl Vent.</p>	Yes	No	
	<p>B) This compartment shall contain a ramp system and a two wheel cart to facilitate loading the oxygen tank without lifting</p>	Yes	No	
	<p>C) Street-side Mid-Body Compartment 2: Electrical Component Compartment for vehicle electronics.</p> <p>This compartment shall be just forward of the curbside wheel well and will be full height. This compartment shall be for all power distribution and all electrical components for ease of maintenance. The upper portion shall be for power distribution, relays, circuit breakers, etc. There shall be a shelf below the upper area to accommodate an Inverter and larger components. The lower portion of this compartment shall be for miscellaneous equipment storage.</p> <p>A five lb ABC fire extinguisher mounted inside the left-hand door.</p>	Yes	No	
	<p>C) Street-side Rearmost Compartment 3: Storage for spare tire and miscellaneous equipment.</p> <p>This compartment shall be the rearward most compartment on the street side of the vehicle.</p> <p>The center storage area of this compartment shall have inside/outside access and shall have a fixed shelf above and below the opening. Below the inside/outside area shall be an adjustable shelf.</p>	Yes	No	

	<p>D) Curb-side Rearmost Compartment 5: Storage for Backboards, Stair Chair,</p> <p>This compartment shall be located at the curbside rear of the module. The compartment shall be configured for the vertical storage of backboards and a stair chair and shall include one full height fixed divider. Above the stair chair storage shall be a fixed shelf for miscellaneous storage.</p>	Yes	No	
	<p>E) Curb-side Forward Compartment 8: Storage for Jump kits.</p> <p>This compartment shall be the forward most compartment on the curbside of the module allowing interior / exterior access to the interior ALS cabinet. Interior ALS cabinet shall have hinged Lexan doors, non-locking flush mount slam latches and (3) adjustable shelves.</p>	Yes	No	
	<p>F) Curb-side Compartment 9: Ventilated multi-battery slide-out tray.</p> <p>This compartment shall be located below the upper inside/outside ALS cabinet. It shall be an isolated storage compartment for the vehicle batteries. This compartment shall include a slide out drawer to accommodate up to (4) batteries. (3) Batteries standard.</p>	Yes	No	
6.61	<p>Exterior Compartment Shelving</p> <p>Where specified, exterior adjustable shelves shall be box pan formed of a minimum .125 inch aluminum. The exterior compartment shelves shall be of the identical material and process used for the exterior module. The shelves shall be securely bolted to Unistrut.</p>	Yes	No	

6.62	Door Sill Protection There shall be stainless steel door sill protection on the lower edge of all compartment and patient entrance door frames.			
6.63	Dri-Deck Dri Deck shall be installed on all exterior shelves and compartment bottoms.			

Section 7 Patient Compartment

7.1	General Characteristics	Yes	No	
	<p>Storage cabinets must be easily opened, but will not come open in transit or as the result of a vehicle collision.</p> <p>Tie-downs are required to anchor the interior compartments/cabinets to the side of the vehicle. These must be welded to the top of the vehicle's uprights and must be of sufficient size to retain cabinetry during a vehicle collision. The compartments must be secured to the tie-downs with nuts and bolts.</p> <p>Each section of cabinetry must be sealed at floor, side and ceiling.</p> <p>For rapid identification of contents, medical supply cabinets at the level of the patient(s) and above must have shatterproof, lightly tinted, transparent sliding doors.</p> <p>All sliding Lexan door frames to be extruded aluminum with full length extruded aluminum handles. Lexan sliding doors must be 3/8" thick and must bear a permanent</p>			

	<p>identifying mark certifying compliance with current Transport Regulations for motor vehicle glazing.</p> <p>Open shelves or compartments must be provided with easily opened or removable belts or cargo nets designed to contain ten (10) times the weight of the items stored loose on the shelf or in the compartment. (Belts provided shall be seat belt style with metal bayonet style connectors or demonstrated equivalent. Velcro fastening for restraining belts is not acceptable).</p> <p>To maximize the utility of storage space, the design must include positive features, such as reasonably wide and tall openings, rectangular spaces and interior dimensions that are suitable for accepting stacking containers.</p> <p>Shelves must be adjustable, removable and capable of loads of 48 pounds.</p> <p>Tops of shelves must be bordered or surrounded by a lip of not less than ¾" in height. Cabinet shelves must be secured to Unistrut using bolts and lock washer.</p>			
7.2	<p>Cabinet Construction - Materials</p> <p>Cabinets shall be constructed of sheet aluminum 5050-H32. In order to maintain maximum payload and still meet structural requirements sheet thickness will vary in size dependent upon the specific function of each cabinet.</p> <p>Cabinets shall be constructed as independent modular units completely assembled outside the vehicle then secured to the module structure, thereby enhancing the overall structural integrity of the module. Cabinets created or assembled in the vehicle as a dependent part of the module structure shall not be acceptable due to their inability to enhance the overall structural integrity of the module.</p>	Yes	No	

7.3	Cabinet Windows - Track The sliding window track shall be an aluminum extrusion and shall be designed to minimize fluid contamination. For this reason the track opening width shall be a maximum of 30 % larger than the thickness of the window itself. For example if the window is .250 inches thick the track opening cannot be larger than .325 inches. The track extrusion shall surround all four sides of the cabinet opening and be lined to prevent rattles and to assist in keeping the windows in the closed position during transport	Yes	No	
7.4	Cabinet Windows - Safety Windows shall be made of .1875 Lexan high strength polycarbonate. Windows shall have full length extruded aluminum handles for additional strength and ease of opening.	Yes	No	
7.5	Cabinet Doors - Hinged All interior hinged aluminum doors shall be boxed pan formed. They shall be made of .090 inch Aluminum 5052-H32. They shall be welded and ground smooth and shall be coated with acrylic urethane.. All interior hinged Lexan doors shall be .250 or .5 high strength polycarbonate. All hinged doors shall have chrome hinges and Southco, 2" round stainless steel slam latches with pull ring.	Yes	No	
7.6	Cabinet Shelves -Construction Interior cabinet shelves shall be constructed of boxed pan formed .091 aluminum and shall be adjustable. They shall be coated with acrylic urethane. To keep the shelves from rattling the manufacture shall securely bolt the shelves to unistrut. No Exceptions	Yes	No	

7.7	Cabinet Lights Interior cabinets shall have LED strip lighting mounted vertically on inside the cabinet just behind the window. They shall be rated for 50,000 hours. There shall be a switch at the Action Wall to control the lights. No Exceptions	Yes	No	
7.8	Ceiling - Construction The interior ceiling shall be constructed of .090 inch aluminum 5052-H32. It shall be the full length and width of the module and shall fit under all cabinets, trim pieces and safety cushions. All light holes, IV holders, hardware and mounting holes shall be cut out prior to coating. It shall be coated with acrylic urethane. No Exceptions Installed as standard shall be (2) cast aluminum IV Hangers, (1) oxygen outlet (10) LED lights, (1) full length grab rail (2) grab handles and (3) antenna access plates.	Yes	No	
7.9	Ceiling - Attachment Ceiling panel shall be attached to the roof structural tubes utilizing White head truss self tapping fasteners. Prior to mounting the ceiling tubes shall be covered with 1/8 inch foam insulation barrier to prevent heat transfer and noise, due to vibration and rattling.	Yes	No	
7.10	Flooring Installation Flooring shall be cut from one continuous piece of vinyl flooring. It shall be 100 percent cut prior to installation to prevent small scale cracks and over cuts. These tend to show up over time as the flooring shrinks and can become	Yes	No	

	an area for fluid accumulation and absorption. It shall be secured to the subfloor with structural adhesive that has zero (0) VOC's			
7.11	Flooring Roll Up Walls The flooring shall roll up three inches on the main street side cabinet wall and the curbside squad bench. The flooring running up the side shall be trimmed off with an aluminum trim with no exposed fasteners and sealed to prevent fluids from accumulating behind the flooring.	Yes	No	
7.12	Flooring - Material The patient compartment standard flooring shall be commercial grade, anti-skid, anti-bacterial flooring material, Lon Plate II Gunmetal #424. Flooring shall be sanitary and seamless and shall meet FMVSS 302. It shall be installed per the technical specifications and recommendations of the floor manufacture.	Yes	No	
7.13	Rear Threshold The rear door threshold shall be 18 gauge stainless steel. The threshold will be permanently installed with a sealant/adhesive. The sealant/adhesive material will both secure the threshold and provide a full perimeter seal to prevent fluid borne contamination. There shall be no holes drilled in the stainless and no screw type attachments required.	Yes	No	
7.14	Wall Panels - Construction Wall panels shall be constructed of .090 inch aluminum 5052-H32. They shall be coated with acrylic urethane.	Yes	No	

7.15	Attachment Wall panels shall be attached to the structural wall tubes utilizing White head truss fasteners that are drilled and tapped. Prior to mounting the wall tubes shall be covered with a 1/8 inch foam insulation barrier to prevent heat transfer and noise, due to vibration and handling	Yes	No	
7.16	Patient Compartment Dimensions	Yes	No	
	A) Approximately (72") between the finished floor and ceiling.	Yes	No	
	B) Approximately (91.5") between the interior curbside wall and the interior opposite/roadside compartment wall.	Yes	No	
7.17	Interior Cabinets			
7.18	Bulkhead Cabinet Upper Located above the cab to module opening shall be a cabinet with a hinged Lexan door. See Drawings	Yes	No	
7.19	Bulkhead Lower There is to be 4 Glove Box Holders mounted below upper bulkhead and above pass-thru window. See Drawings			
7.20	Streetside Forward Cabinet Located behind the attendant seat shall be the heating and air conditioning unit in the upper portion of cabinet. See Drawings	Yes	No	

7.21	Streetside Forward Cabinet Upper Located above the medical control center Action Wall shall be a full size cabinet. It shall have two (2) adjustable shelves and sliding lexan doors with aluminum extruded frames. See Drawings	Yes	No	
7.22	Medical Control Center – Action Wall A medical control center shall be provided at the forward street side of the patient compartment area. It shall be in close proximity to the rear facing attendant seat. Mounted in this area shall be the Oxygen and Suction System, Rear Attendant Control Panel, 12 and 110 volt outlets, Control Thermostat for Rear Heat/AC unit and other equipment as specified. Exact arrangement will be determined after bid award. The attendant switch panel and environmental controls shall be built into a separate angled section below the upper cabinet. See Drawings	Yes	No	
7.23	Action Wall Counter Below the action wall shall be a counter constructed of a stainless steel material and shall include a retaining lip on two sides. It shall be completely sealed to the action wall and forward compartment.	Yes	No	
7.24	Suction Canister Cabinet Above the action wall counter shall be the SSCOR suction canister	Yes	No	
7.25	Glove Box Cabinet Located over the Curbside Entrance Door shall be a cabinet with drop down loading door for (3) Glove Box's.	Yes	No	
7.26	Streetside Mid Cabinet Above the counter shall be a cabinet with two adjustable shelves and sliding Lexan doors with aluminum extruded	Yes	No	

	frames. Below countertop there is to be a cabinet with aluminum extruded frames. See Drawings			
7.27	Streetside Rear Cabinets - Rear Stack Located rearward of the mid cabinet stack shall be inside/outside access to the rear exterior compartment. It shall have one adjustable shelf and sliding Lexan doors as described. Above the inside/outside access shall be a cabinet with a hinged Lexan door with aluminum extruded frames. See Drawings	Yes	No	
7.28	Curbside Jump Kit Cabinet - Access At the curbside front of the vehicle shall be a cabinet supplied with (3) adjustable shelves for storage of jump kits. For ease of access and quick functionality these shelves shall be open on two sides. Access shall be provided on the interior forward of the squad bench and on the exterior curbside through an access door. The location of this cabinet is critical to how the crew functions.	Yes	No	
7.29	Curbside Jump Kit Cabinet - Shelves Shelves shall be heavy duty and box pan formed of .125 inch Aluminum 5052-H32. They shall have a return flange on four sides and shall be welded, ground smooth and coated as described. The shelves shall be securely bolted to Unistrut.	Yes	No	

7.30	Locking Drug Cabinet Above the Jump Kit Cabinet shall be a locking Drug Cabinet. It shall have dual hinged aluminum doors and shall be 37"W x 24"D. Also within this cabinet shall be another locking cabinet 13" W x 11D". See Drawings	Yes	No	
7.31	Curbside Squad Bench Cabinet Above the Squad Bench shall be a triple wall cabinet. The cabinet shall have (3) top hinged Lexan doors with pneumatic hold opens and Southco, 2" round stainless steel slam latches with pull ring. The height of this cabinet shall take into consideration KKK-1822F for distance between bottom of cabinet and Squad bench cushion.	Yes	No	
7.30.1	Tip-Out Waste Cabinet Below the forward end of the Squad Bench shall be a Tip-Out waste cabinet constructed of aluminum. This cabinet shall include a waste container. Sharps container shall be mounted on wall aft of squadbench.	Yes	No	

7.31	Patient Compartment Seating	Yes	No	
	<p>A) Squad Bench - A squad bench shall be provided on the curbside of the vehicle with seating capacity for three people. The bench shall be box pan formed of minimum .090 inch aluminum. It shall be welded, ground smooth and coated as described. The bench cushions shall be 2 inch thick high density flame retardant foam, covered with high grade color coordinated vinyl. There shall be a single piece lid hinged for internal storage, and shall open to not less than 70 degrees and have pneumatic lifting supports on each side. The squad bench lid shall include an automatic latch that shall secure the squad bench lid when in the down position. The lid shall be constructed of durable light weight materials. The interior of the squad bench shall provide additional storage, be completely sealed and coated to create a seamless interior for easy and thorough cleaning and disinfecting.</p> <p>Three sets of self retracting, auto lock style seat belts conforming to federal regulation F.M.V.S.S. #571.209 shall be mounted along the curbside wall above the squad bench. Seat belts shall be secured to a minimum .250 inch aluminum plate. The plate shall be continuous from front to back and mounted in vertical slots that are cut into the structural tubes. We require this type of construction in order to ensure seat belt compliance and to also have the seat belt retention plate act as a free floating crash barrier in the event of a side collision. Manufacture must supply design drawings with bid.</p> <p>The manufacturer shall provide a minimum of three restraint strap receivers on the face of the squad bench that work in conjunction with the squad bench seat belts for securing a patient lying on the squad bench.</p> <p>All retention devises must conform to all FMVSS regulation: #571.207, #510.210 and #571.209 at a minimum.</p>			

	<p>B) Attendant Seat. The patient compartment shall be supplied with a rear facing attendant seat. Seat shall be a high back automotive style captain's chair with a minimum of 6 inches seat travel forward and backward. Seat shall be vacuum formed heavy grade vinyl with no seams and come provided with two fold down armrests. This seat, positioned at the head of cot shall provide shall provide easy access to all of the action wall controls and outlets. It shall be supplied with a three point seat belt.</p> <p>The attendant's seat shall be mounted on a swivel base and will have full 360 degree swivel and 4 inches of travel.</p> <p>The attendant's seat base shall be installed with four (4) 7/16" grade 8 bolts inserted through 2" support bushings mounted in the subfloor and through a 1/4" reinforcement plate welded to the 'C' channel floor substructure.</p> <p>The seat, base and all retention devices must conform to all FMVSS regulation: #571.207, #510.210 and #571.209.</p>	Yes	No	
	<p>E) "Action Area Countertop" There is no CPR seat requirement within this specification. Extend countertop rearward.</p> <p>Bidder must supply and install a Ferno P-300 Monitor Bracket on aft portion of action area countertop.</p> <p>See Drawings.</p>	Yes	No	
	<p>F) Install a pullout drawer under action area countertop above recess suction unit.</p> <p>See Drawings</p>	Yes	No	

7.32	<p>Restraints Passenger</p> <p>All seating positions must be provided with seat belts. Seat and seat belt installations must comply with current FMVSS/CMVSS. Where there is no regulation under FMVSS/CMVSS, as with the side facing seat, the installation must use materials and designs which meet the spirit of the FMVSS/CMVSS regulations for passenger restraints. Installations must be tested to relevant FMVSS/CMVSS. The geometry of any seat belt arrangement must provide pelvic restraint designed to remain on the pelvis of the occupant under all conditions.</p> <p>The Squad Bench requires a net located at the front edge of the seat area. This device is intended to prevent the occupant(s) of the seat from moving forward during rapid deceleration. The net must be attached in a minimum of four (4) points utilizing aircraft-style, low profile latches which allow the net to be removed quickly and easily. The net must be made from suitably-colored cargo strapping that can be cleaned if required. The approximate width of the net must be five hundred thirty (530) mm. This device must restrain the occupant(s) along the side of their body and head to prevent extensive flexing of the spine or neck. This device must withstand a test load of 13,344 Newtons.</p>	Yes	No	
7.33	<p>Cot Fastener</p> <p>A).A Stryker 6377 cot fastener shall be supplied and installed for the left and center dual main position.</p> <p>It must include the rear door threshold safety hook required for either a Ferno or Stryker cot.</p>	Yes	No	

	Threaded fasteners, which are used to adjust the cot mounts to different positions, must be coated with anti-seizing lubricant to enable easy removal.			
7.33.1	B). In addition to the sub-structure that is provided for the traditional Stryker cot, there shall be structure in place for future installation of a Stryker Power Load.			
7.33.2	C). The loading height from the ground to the deck/floor of the module where the cot and cot retention system will sit must be 34.0 inches or less when the vehicle is unloaded.	Yes	No	
7.34	Action Wall Switch Panel	Yes	No	
7.34.1	The action wall switch panel shall include the following switches: a) Left Cot lights (high-off-low) b) Right Cot lights (high-off-low) c) Center ceiling lights (3-Way, high, cab to module) d) Cabinet lights (interior cabinets) e) Exhaust Fan f) Electric Suction g) Attendant light	Yes	No	
7.34.2	Other control switches or functions at the action wall should minimally include: a) Inverter Panel b) Heater/AC thermostat and fan c) Stereo volume control d) Digital clock – 24 hour digital wall clock showing minutes and seconds.	Yes	No	
7.34.3	The action wall shall have (2) 12 volt DC (plug-in style, accessory type) and (1) 110 volt AC lighted outlet.	Yes	No	

7.35	Interior Lighting	Yes	No	
	<p>A). Interior ceiling shall have a minimum of ten (10) interior dome lights. Lights shall be LED and shall be completely flush with the ceiling surface when mounted. They shall be rated for 50,000 hours and have a maximum draw of 1 amp at 12 VDC per light.</p> <p>There shall be (4) over the primary cot and (4) over the squad bench switched Hi/Off/LO from the rear switch panel. The four lights over the primary cot shall also be activated when the side or rear module entrance doors are opened or when the 15 minute restocking timer is activated.</p> <p>There shall be (2) in the center of the ceiling and shall be controlled by a 3-Way circuit between the cab and patient compartment.</p>	Yes	No	
	<p>B). The patient compartment shall be equipped with a fifteen (15) minute timer, wired direct to battery, to allow operation of the module dome lights while the vehicle is off. This feature will enable personnel to clean and restock the vehicle, but eliminates the risk of leaving the lights on and draining the batteries. This switch shall be located on the curbside wall near the side entrance door.</p>	Yes	No	
7.35.1	Attendant light , LED with switch at the action wall	Yes	No	

Section 8 Low-voltage Electrical System

Item No.	Specification	Yes	No	Deviation/Explanation (attach necessary documentation)
8.1	General	Yes	No	
8.2	System Standards The converter added electrical system must meet all current KKK ambulance design standards. The converter added electrical system has proven to sometimes be the most complex and troublesome system on this type of vehicle. A system is desired that is simple in design so that electrical problem diagnosis and repair time can be minimized. The electrical system must be thoroughly engineered and manufactured to allow simple personnel operation. Finally, the system must be designed so that the probability of experiencing dead batteries, shorted electrical components and engaging in lengthy troubleshooting procedures will be reduced.	Yes	No	
8.3	Load and Design Parameters - Design All wires, switches, outlets and related components shall be rated to carry a minimum 125% of the maximum ampere load for which the circuit is designed (circuit breakers being the one exception). The system shall be designed to have the module power supplied independently of the chassis power supply.	Yes	No	

8.4	General All added body and chassis electrical equipment shall be served by circuits separate and distinct from the chassis circuits. All vehicle 12VDC wiring shall be copper crosslink polyethylene wiring (GXL) or SGX rated to 250 degrees Fahrenheit, and conform to all SAE J1128 requirements. The wiring shall be color coded, numbered, and function imprinted every six (6) for permanent identification and correspondence with the electrical schematics. Any circuits protected below 6 amps shall use an ATC type fuse and holder. Any circuits requiring wiring larger than 10 gauge shall include crimped and soldered copper lugs.	Yes	No	
8.5	Grounding All components shall have ground wires returning to the ECC (Electrical Control Center). There shall be no components that are grounded to the module.	Yes	No	
8.6	Service Loop At the connection points of all components and devices shall be a minimum seven (7) inch service loop. There shall be sufficient length for two terminal changes on components in the power distribution area.	Yes	No	

8.7	Harness - Design Generic harnesses with numerous wires or wires marked with functions that are not on this vehicle will not be accepted. All harnesses are to be assembled to this specific vehicle. They shall be wrapped in protective loom and securely fastened along the module structure prior to cabinet installation.	Yes	No	
8.8	Color coded harness wiring All wiring must be copper, with CSA/ULC approved insulation. Wiring sizes #8 or smaller must conform to current SAE standards and must have minimum SXL or GXL type insulation, if approved by the OEM chassis manufacturer conforming to current SAE standards. Sizes larger than #8 gauge must be standard, oil-resistance, automotive type. All wiring must be color-coded and/or label-coded to indicate purpose of wiring. If labeled, labels must be imprinted in contrasting color, readable and marked at eight inch intervals or less. If permanently color coded, wires must be the same color from start to termination of run. Where wires pass from the outside to the inside of the vehicle, proper weather sealing must be provided by means of an approved sealant. Acceptance standard is Dow Corning 786 Sealant. Wiring must not pass across the floor of the driver compartment nor under the floor mats or metal trim strips, unless properly	Yes	No	

	<p>protected within a channel of fiberglass, aluminum or stainless steel, or an approved equivalent.</p> <p>No wiring must pass within eight inches of the oxygen system.</p> <p>A minimum of an eight inch service loop of wire or harness must be provided at all electrical components, terminal and connection points.</p> <p>All wiring must be properly protected by elastomeric, oil-resistant grommets where it goes through metal or other abrasive areas.</p> <p>Wiring must be neatly routed and groups of wires formed into a harness and securely supported with rubber-coated, metal clamps.</p> <p>Wiring must be routed in conduit or high temperature looms with a rating of 135°C.</p>			
8.9	<p>Harness - Plugs</p> <p>All wiring harnesses shall be connected to the power distribution utilizing harness plugs. These plugs shall have a positive locking feature. Access for disconnecting the harnesses from the cab to the module shall be provided and will be readily accessible.</p>	Yes	No	
8.10	<p>Power Distribution - Connectors</p> <p>Connection from the power distribution circuit to the vehicle harnessing shall be done with locking universal style connectors. These connectors shall utilize a combination of pins and sockets. They shall be completely</p>	Yes	No	

	enclosed, have positive polarization, positive locking and have rear cavity identification.			
8.11	Voltmeter- Display Shall supply a digital LCD display for voltage reading of both the conversion voltage and separately the chassis voltage. It shall be backlit for low light and also be readable in direct sunlight. It shall also have a low voltage alarm. The voltmeter shall be a digital display meter accurate to + or - 2%. The display must indicate the stabilized voltage of the chassis and module batteries. Together and Separately. No Exceptions	Yes	No	
8.12	Ammeter - Display The manufacture shall supply a digital LCD display for amp reading of alternator current draw. It shall be backlit for low light and also be readable in direct sunlight. The ammeter shall be a digital display meter accurate to + or - 2%. The display shall indicate the current flow of the vehicles 12 volt system. The vehicle shall come equipped with an electronic Hall Effect sensor mounted so that the amp load on the vehicle 12 volt system can be accurately measured at the ammeter located in the driver's control console.	Yes	No	
8.13	Battery System -Charging The alternator shall provide charging to the chassis and module batteries when the engine is running. The battery system shall utilize the OEM ignition switch to connect	Yes	No	

	and disconnect module power and chassis loads. The manufacturer shall provide an amp load test certification. The documentation shall provide the end user with the vehicles operating load requirements and the units remaining reserve capacity.			
8.14	Battery System – Ambulance Connect There shall be a dedicated Ambulance Connect switch (Master) located on the main drivers control panel to disconnect module power loads. This switch shall be On/Off and it shall be controlled through the chassis ignition switch regardless if the engine is running or not. The design shall allow the module load to be disconnected while the engine is running This switch shall connect/disconnect the entire module electrical system with the exception of the 12V DC outlets, DOT lighting circuitry including backup alarm, the door open warning display, and the chassis circuitry.	Yes	No	
8.15	Battery System – 5 Minute Timer There shall be a 5 minute battery shut-off circuit. The ignition switch, when shut off, will activate a timer that will leave the batteries on for five minutes so that the module dome lights can be left on for patient unloading or vehicle restocking.	Yes	No	

8.16	Batteries Battery compartment, located in lower curbside exterior compartment, should be easily accessible (slide out tray) It should be ventilated and large enough to hold an OEM and 2 dual purpose deep-cycle batteries. Battery cables shall be AWG (1/0), enclosed in loom and run unbroken from the battery location to the power distribution. They shall be secured underbody utilizing insulated metal straps. Dedicated ambulance conversion circuit batteries should be the same brand, model and type (maintenance free).	Yes	No	
8.17	Anti-Theft – This switch when activated permits the ignition key to be removed from the steering column, while the engine is running, thereby locking the steering column and gear selection lever. All other mechanical and electrical functions are operable including power door and compartment locks. No Exceptions	Yes	No	
8.18	Battery Boost – (Sure Start) Battery System. This system has (2) isolated and fully charged batteries to allow for emergency engine starting should the chassis batteries become discharged. A Momentary switch on the front console. Will tie all batteries together. No Exceptions			
8.19	Spare Circuits The vehicle shall come equipped with (2) spare circuits rated at 10 amps each. One circuit shall be controlled by a spare rocker switch mounted in the front switch	Yes	No	

	panel.			
8.20	Fuses and Circuit Breakers All circuits must be protected by means of properly sized circuit breakers. All circuit breakers (Pollack 54-5XXPL) must be manual reset type. They must be securely mounted, easily removable and readily accessible for inspection and service. All circuit breakers must have size and function identified permanently at the location of the breaker.	Yes	No	
8.21	Door Activated Switching Patient compartment doors must be fitted with magnetic door switches .The side door switch must operate one (1) bank of interior lights on low and passenger side floodlight. Rear door switch must operate one (1) bank of the interior lights and the two (2) rear facing loading lights.	Yes	No	
8.22	Electrical Load Rating A detailed estimate of the total electrical load imposed by the conversion electrical system, complete with all emergency warning system components, must be included with bid. Performance during the final inspection will be compared to this estimate.	Yes	No	

8.23	Shorepower Inlet A 110 VAC, 20 amp Auto Eject shore power receptacle shall be supplied. It shall be capable of ejecting the plug when the vehicle starter is engaged. It shall be furnished with a spring loaded weatherproof cover. It shall be located rearward of the mid body electrical compartment.			
8.24	Inverter, 110 Volt A minimum 1000 watt power inverter, Vanner 1050W (acceptance standard) complete with 50 Amp battery charger shall be installed. The charger shall be wired so that it charges all chassis and conversion batteries. The Inverter/Charger Shall come with a built-in transfer switch to automatically select either shore or inverter power. The remote monitor panel shall be installed by the Action Wall switch panel. The (110V) circuit must be ground fault interrupter (GFI) protected. Inverter shall be ON demand (no dash switch) to provide 110 volt AC power to the 110V outlets.	Yes	No	

8.25	110 Volt Outlets <ul style="list-style-type: none"> One 110V receptacle over the Action Area Countertop Three 110V receptacle in the Jump Kit cabinet, (1) at each shelf. One at the head of the squadbench. 	Yes	No	
8.26	12 Volt Outlets <ul style="list-style-type: none"> Two (2) 12V receptacles at the forward action wall. One 12V receptacle above the 2nd shelf of the Jump Kit cabinet near the curbside entrance. 	Yes	No	

Section 9 Exterior Lighting Systems

Item No.	Specification	Yes	No	Deviation/Explanation (attach necessary documentation)
9.1	Emergency Warning lights, General <p>The emergency warning system must provide the vehicle with all-round conspicuity, be highly perceptible and have attention-getting audio and visual signals for the safety of the ambulance and public, while imposing the minimum electrical load on the conversion electric system.</p> <p>The emergency lighting system must utilize all LED technology.</p> <p>To maximize conspicuity, this system adheres to the principles that: White (clear) light will be used to gain the viewer's attention, Red light will convey the "emergency"</p>	Yes	No	

	<p>message and Amber will convey the “caution, vehicle stopped” message.</p> <p>The system must be comprised of components and devices that comply with the requirements of current SAE standards that are applicable to the unit.</p> <p>All warning lights must be mounted so as to project maximum effective intensity beam of the horizontal axis +0° up, -2° down. They must project a beam spread of at least 5° up and 5° down, and at least 45° left and right of the horizontal-vertical axis.</p> <p>The energy output of the warning light system must not degenerate below the performance requirements over the life of lamps.</p>			
9.2	Forward Roof-level Warning Lights	Yes	No	
	<p>Front Flashers – There shall be seven (7) Whelen 900 Series Super LED flashers mounted across the front of the module. Layout shall be Red/White/Red/White/Red/White/Red.</p> <p>Lights are to be mounted on front module wall and Auxiliary A/C condenser cover</p>	Yes	No	
9.3	Side and Rear Roof-level Warning Lights	Yes	No	
	<p>A) Side Flashers - There shall be a total of four (4) Red Whelen 900 Series Super LEDs. The lights shall be located at the upper outboard corners of the curbside and streetside walls of the module.</p>	Yes	No	

	<p>B) Rear Flashers – There shall be two (2) Whelen Red 900 Series Super LED flashers located on the upper outboard corners of the rear of the module.</p> <p>There shall be a one (1) Amber Whelen 700 Series Linear Super LED. The light shall be located at the upper center of the rear of the module.</p>	Yes	No	
	<p>C) Window Flashers - – There shall be two (2) additional Whelen Red 900 Series Super LED flashers on the rear to show through the windows when the doors are open.</p>			
	<p>E) Turn Signals - There shall be a total of two (2) Whelen 600 Series Amber LED Turn Signal lights. One shall be on the rear curbside and one on the rear streetside.</p>	Yes	No	
	<p>F) Marker Lights -The upper body marker lights shall be Whelen OS Mini LED type. There shall be (2) Amber mounted at the forward end of each side of the module roof, (2) Red mounted at the rearward end of each side of the module and (2) Red mounted in the rear module in the corners. The shall be (3) forward facing Amber marker lights mounted above the 900 Series lights and (3) rear facing Red marker lights mounted above the Amber 700 Series light</p> <p>There shall be two (2) rear Whelen 500 Series Red LED lights, mid body on the sides of the module at the rear. These lights shall be wired to function as both DOT marker lights and as turn indicators and as emergency hazard warning lights.</p>	Yes	No	

	There shall LED marker lights installed within the crash rail. (2) Amber forward each side and (1) rear each side.			
	<p>G) Tail/Brake/Backup - There shall be Four (4) rear Whelen 600 Series LED Tail and Brake Lights. Two shall be on the rear curbside and Two on the rear street side below the Turn Signals.</p> <p>There shall be one LED Brake Light mounted center above the rear doors to function as a high center mount brake light.</p> <p>There shall be a total of two (2) White Whelen 700 Series LED Backup lights mounted on the rear of the module above the diamond plate.</p>	Yes	No	
	H) Chrome flanges shall be included on all emergency and automotive lights.	Yes	No	
9.4	Grille Lights	Yes	No	
	There shall be a total of two (2) Red Whelen 500 Series Super LED's. The lights shall be located at the outboard sides of the chassis grille in the upper section.	Yes	No	
9.5	There shall be a total of two (2) White Whelen 500 Series Super LED's. The lights shall be located at the outboard sides of the chassis grille in the lower section.	Yes	No	
9.6	Intersection Warning Lights	Yes	No	
	There shall be a total of two (4) Red Whelen 700 Series Super LED's. The lights shall be located on the chassis fenders and over the rear wheel wells.	Yes	No	
9.7	Emergency Light Switching	Yes	No	

9.8	Flash Pattern	Yes	No	
	A) Rear upper Led flashers to be ‘On’ with the brake lights. Emergency lights to override the brake lights.	Yes	No	
	B) Light heads to be wired to meet KKK. “A” should alternate with “B” and the flash pattern should be a triple flash (two quick followed by a longer third).	Yes	No	
9.9	Exterior Task Lighting/Scene Lights	Yes	No	
	Whelen 900 Series LED scene lights: Two (2) White Scene lights on each side (left-street side and right-curbside) of the ambulance. Two (2) White Scene lights on the rear plane of the vehicle (unobstructed when the rear doors are open). Scene light activation controlled at driver’s console. Curbside and rear lights must activate when respective doors are opened.	Yes	No	
9.9.1	The rear facing scene lights and backup lights shall operate automatically when the vehicle transmission is placed in “REVERSE”.	Yes	No	
9.9.3	Patient Compartment door switching to be designed to allow for temporary disconnection of scene lights while the door is open. Once the door is closed again the switch resets to normal momentary On/Off operation.	Yes	No	

Section 10 Audible Emergency Warning (Siren)

Item No.	Specification	Yes	No	Deviation/Explanation (attach necessary documentation)
10.1	<p>A) Siren/PA System - Siren-PA System to be Federal EQ2B with: radio, PA, Manual, Wail, Yelp, Air Horn and Piercer tone.</p> <p>B) Siren Speakers shall be Cast Products polished aluminum and shall be mounted outboard on the bumper end and be a minimum 100 watt. They shall meet SAE J1849</p>	Yes	No	
	<p>G) The Siren shall operate through the chassis horn ring whenever the siren is On. When the Siren is Off, the horn ring shall operate the chassis horns.</p> <p>H) Install a Buell Airhorn System. Horns to be mounted in lower front bumper.</p>	Yes	No	

Section 11 Oxygen System

Item No.	Specification	Yes	No	Deviation/Explanation (attach necessary documentation)
11.1	This compartment shall contain a ramp system and a two wheel cart to facilitate loading the oxygen tank without lifting	Yes	No	
11.2	<p>Oxygen Hoses - all oxygen system service hoses, fittings and devices shall be made of non-ferrous materials. Hoses used to pipe medical Oxygen shall be electrically non-conductive, 1/4" inside diameter with an abrasion resistant, white colored outer jacket. The hose manufacturer's name, part number, inside dimension and working pressure rating shall be permanently marked along the entire length of the hose. Hoses shall be secured to prevent excess movement.</p> <p>An Oxygen Wrench shall be tethered to the wall.</p>	Yes	No	

11.3	Oxygen Outlets – There shall be (3) Quick Disconnect Oxygen outlets installed, One Action Wall, One Ceiling and One Forward Squad Bench	Yes	No	
11.4	Electric O2 – An electric Oxygen solenoid with switch on rear panel to be installed. It shall include a Manual Bypass on the Action Wall should the electric fail.	Yes	No	
11.5	50 PSI regulator shipped loose with the vehicle.	Yes	No	

Section 12 Fixed Suction (Vacuum) System

Item No.	Specification	Yes	No	Deviation/Explanation (attach necessary documentation)
12.1	Aspirator System A Lexan mounting bracket for a 1200 CC disposable suction canister shall be recessed below the action wall countertop. The suction pump shall be piped to an SSCOR regulator that is mounted on the action wall near the suction canister. The regulator shall be complete with indicator gauge and shall be piped to the vacuum pump. One 72 inch patient suction tube with a plastic suction tip shall also be supplied with the system. See Drawings	Yes	No	
12.2	Collection Container and Mount The container mount and 1200 ml collection container system should be preferably the MediVac Guardian with disposable hard, clear plastic canister.	Yes	No	

Section 13 Safety Equipment

Item No.	Specification	Yes	No	Deviation/Explanation (attach necessary documentation)
13.1	Cushions and Protective Pads - Interior All seating and protective pads shall be covered in seamless vacuum formed vinyl. Seamless cushions and pads are required for infectious control. Cushions with seams are especially susceptible to blood born pathogen contamination. Sewn seams puncture the vinyl surface and it is extremely difficult to reseal these surfaces. Vinyl seat covers must be vacuum formed. Hand stretched vinyl will not be acceptable because it keeps the vinyl surface under constant tension and therefore more susceptible to tears and cracking.	Yes	No	
13.2	Cushions and Protective Pads - Vinyl Vinyl selected must be color coordinated with the attendant seat. It shall be commercial grade minimum of 32 ounce weight. It shall be abrasion resistant utilizing the Wyzenbeek test method of 500,000 double rubs with #8 cotton duck. It shall have antibacterial properties (Staph resistant) as well as mildew resistant. It shall also be urine, sulphide, oil and enhanced bleach resistant. It shall be flame resistant to FMVSS 302.	Yes	No	
13.3	Cushions and Protective Pads - Foam Foam utilized for cushions and back rests shall be a minimum 2 inch medium density closed cell foam that meets FMVSS 302 flamability tests.	Yes	No	

13.4	Cushions and Protective Pads – Head Bumpers There shall be Yellow Safety Vinyl head bumpers located over the module entrance doors. The side entry door header shall have a foam padded cushion spanning the full width and height of the header wall above the door. The rear entry door header shall have a 2" high density flame retardant covered cushion spanning the full width and height of the header wall above the doors.	Yes	No	
13.5	Cushions and Protective Pads – Backrests All of the backrests and seat cushions shall be constructed with 2 inch thick, high density fire retardant foam covered with a heavy grade color coordinated vinyl. The cushions and backrests shall be thermal vacuum formed automotive vinyl. Backrest and seat cushions shall be securely fastened yet easily removable for cleaning. All other cushions shall be attached with Christmas tree type automotive blind fasteners. The Squad Bench backrest must have a lower lumbar support bolster formed into the cushion. Separate lumbar cushion will not be acceptable because it increases seams and crevices.	Yes	No	
	A) Passenger Restraint All seating positions should have OEM seat belt(s) that comply with FMVSS	Yes	No	
13.6	Rail and Handles	Yes	No	
	A) Ceiling-mounted grab rail in the patient compartment should run the maximum length above the main cot (Yellow ‘anti-microbial’ impregnated). No Exceptions	Yes	No	
	B) Rear and side entrance doors to be equipped with yellow “L” type grab handles (anti-microbial impregnated).	Yes	No	

	C) Grab handles shall be mounted inside each entry door to the patient compartment to assist entry (anti-microbial impregnated).	Yes	No	
13.7	Occupant Restraint Net The Squad Bench requires a net located at the front edge of the seat area. This device is intended to prevent the occupant(s) of the seat from moving forward during rapid deceleration. The net must be attached in a minimum of four (4) points utilizing aircraft-style, low profile latches which allow the net to be removed quickly and easily. The net must be made from suitably-colored cargo strapping that can be cleaned if required. The approximate width of the net must be twenty-one (21) inches. This device must restrain the occupant(s) along the side of their body and head to prevent extensive flexing of the spine or neck. This device must withstand a test load of 13,344 Newtons.	Yes	No	
13.8	Attendant Seat The module attendant seat is to be an EVS Child Safety Restraint seat mounted on storage cabinet.	Yes	No	
13.9	Driver Intention Lights In the rear ceiling at the rear doors shall be Amber/Red/Amber LED indicator lights to warn the crew of Brake and Turn functions	Yes	No	

Section 14 Environmental Control System

Item No.	Specification	Yes	No	Deviation/Explanation (attach necessary documentation)
14.1	Climate Control System	Yes	No	
	A) The patient compartment should have an independent climate control system including heating, ventilation and air-conditioning components.	Yes	No	
	B) The patient compartment HVAC climate should be controlled by a solid state digital thermostat mounted in the Action Wall. This control shall have a three speed fan switch and shall have a set temperature that turns on either the heating or air conditioning to achieve the temperature setting. It shall also be configured to default to the last selected temperature setting.	Yes	No	
	C) HVAC – To be capable of maintaining a patient compartment temperature of 68° F throughout; despite an ambient outside temperature range from -40° F to +40° F.	Yes	No	
	D) HVAC system must be capable of 70,000 BTU heating and 46,000 BTU cooling. The blower for the combination unit shall have a minimum capacity of 650 CFM. Module to also have a front upper wall mounted auxiliary A/C condenser. No Exceptions	Yes	No	

14.2	Air Circulation - Design The environmental system shall be a comprehensively designed system that incorporates controls and balances the following elements: 1). Conditioned air distribution. 2). Conditioned air recirculation. 3). Stale air exhaustion. 4). Fresh air intake. Manufacturer must have a system that addresses all four aspects (No Exceptions). Note: Passive air intake systems such as opening a window or chassis intake vent will not be accepted.	Yes	No	
14.3	Air Circulation - Distribution To provide even distribution of conditioned air throughout the patient compartment an air duct shall be constructed that runs down the street side of the module at ceiling level. It shall contain a minimum of five (5) adjustable multi-directional vents. The duct itself shall be tapered in a way that equalizes the air flow coming out of each vent. The duct work shall also be insulated with 5/8 inch rigid foam insulation. Removable panels shall provide maintenance access to the heat/AC unit from both the face of the heat/AC cabinet and the back of the unit inside the forward streetside compartment	Yes	No	
14.4	Air Circulation - Return Air The air return intake shall not be less than 50 square inches. This return system shall allow the existing air in the module to be re-circulated back through the heat A/C unit, thus allowing faster cooling or heating of the module environment. For maximum efficiency the vent shall be no more than 12 inches from the unit itself.	Yes	No	

14.5	Exhaust Fan The patient compartment shall be supplied with an exhaust fan with a minimum rating of 250 CFM. It shall be controlled by a switch at the Action Wall. Because it is critical for functioning and the large number of construction variables the manufacturer shall also supply documentation proving the effectiveness of the exhaust system. At a minimum it shall completely exchange the interior volume of air every three (3) minutes.	Yes	No	

Section 15 Two Way Radio Communication Ambulances shall have a communication system that allows for all required communication between ambulance attendants, dispatch and medical direction. The intent of this section is to provide accurate information to ensure the installation of all required communication equipment.

Item No.	Specification	Yes	No	Deviation/Explanation (attach necessary documentation)
15.1	Communication (Radio) System	Yes	No	
	A) A terminal block must be installed behind the driver's seat to accommodate the two-way radio power connections, and a cover must be placed over this block to prevent inadvertent shorting to ground. A device must be installed in series in the positive power cables which must protect the radio(s) from high and low voltage conditions.	Yes	No	

	<p>Three (3) terminals are required on the radio terminal block and must be labeled as “switched positive”, “unswitched positive” and “ground”. A #12 gauge wire must be provided from the “ground” terminal and must run to the metal frame of the vehicle, isolated from all other grounds, to ensure a good connection. The “switched positive” terminal must be wired via an isolated twenty (20) amp circuit breaker to the vehicles accessory/ignition energized via a relay to the vehicle’s positive battery terminal. The “unswitched positive” terminal must be wired via an isolated twenty (20) amp circuit breaker to a constant, unswitched source of battery positive. The terminal block must be switched by the Ambulance Disconnect.</p> <p>Also have a power and ground/ antenna drop behind rear switch panel.</p>			
	<p>B) All radio wires and cables must be run in a manner to prevent any pinching, rubbing or any other form of damage. Wires and cables must be run through grommets wherever chafing damage could occur. Cables are to be run in raceways or protective loom and soldered where required to prevent damage.</p>	Yes	No	
	<p>C) Each antenna mount must have a continuous piece of Type RG-58-A/U (C/U) low loss coaxial cable, (Belden, part number 8259 8262 or Amphenol part number 21-199) installed and routed in an appropriate manner. Route the coax cable from each antenna port to behind the driver’s seat, leaving a 3 foot service loop and at least a foot at the antenna port.</p>	Yes	No	
	<p>D) The manufacturer is to provide three antenna access ports in the ceiling of the patient compartment.</p>	Yes	No	
	<p>I) Radios & Antennas are to be supplied and mounted by the bidder.</p> <p>FRONT RADIO: One (1) Motorola XPR 5550 25-40 watt UHF (403mhz-470mhz) with standard options (Motorola model AAM28QPN9KA1_N)</p>	Yes	No	

	REAR RADIO: One (1) Motorola XPR 5550 25-45 watt VHF (136mhz-174mhz) with Impres 4-way Navigation Keypad Mic (Motorola part RMN5127). All other options standard. (Motorola model AAM28JQN9KA1_N)			
	GPS MODEM AND ANTENNA Bidder is to furnish and Install Sumner County's GPS System Modem: Sierra Wireless AirLink GX440 LTE/EVDO/GPS/WiFi - Ethernet/Serial/USB - Verizon - Includes DC Power Cable Part number 1101531 Antenna: MIMO LTE/Cellular/PCS/GPS/WiFi Combo Antenna. Both cellular connectors and GPS connector are SMA Male connectors. Wifi is RP-SMA Male	Yes	No	
	Cab & Module Intercom System Bidder to supply and install a SIGTRONICS US45D Intercom System Front Cab to have Sigtronics Headset quantity-(2) Part #SE48. They are to be mounted under pass thru window with hangers for headsets. Rear Module to have Sigtronics Headset Quantity (1) Part # SE18. This is to be mounted at rear Action Area Control Panel.	Yes	No	

Section 16 Exterior Color, Graphics and Identification

Signage

Item No.	Specification	Yes	No	Deviation/Explanation (attach necessary documentation)
16.1	<p>Conversion Paint – Must meet the following coating standards:</p> <p><i>Standard test methods and minimum requirements for paint performance.</i></p> <p><i>ASTM D3170 Chip Resistance</i> <i>Standard Test Method for Chipping Resistance of Coatings (Gravelometer)</i></p> <p><i>Test samples must rate as 5 or higher in relation to quantity of chips (< 49).</i></p> <p><i>Test samples must rate as either A (< 1 mm) or B (1 – 3mm) in relation to size.</i></p> <p><i>Test samples must rate as “most chips did NOT penetrate to substrate” in relation to Point of Failure.</i></p> <p><i>ASTM B117 Salt Spray Resistance</i> <i>Standard Practice for Operating Salt Spray (Fog) Apparatus</i></p> <p><i>Test samples for a minimum of 2,000 hours.</i></p> <p><i>Visual appearance must show zero corrosion and zero blisters.</i></p> <p><i>ASTM D3359 Adhesion</i> <i>Standard Test Methods for Measuring Adhesion by Tape Test</i></p>	Yes	No	

	<p><i>Test samples must rate as either 5A or 5B. Note: the 5 is the actual adhesion rating (zero % area removed) and the A or B denotes the type of test (A represents a simple X cut and B represents the cross-cut hatch pattern)</i></p> <p><i>ASTM D2794 Impact</i> <i>Standard Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact)</i></p> <p><i>Test samples to be tested using the intrusion methodology.</i></p> <p><i>Test samples must have a minimum impact rating of 90 inch lbs with zero cracking.</i></p> <p><i>ASTM D1654 Corrosive Environments</i> <i>Standard Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments</i></p> <p><i>Test samples must have a minimum 80 cycle (1920) hours.</i></p> <p><i>Test samples to have a minimum average rating of unscribed areas of 8 (2-3%)</i></p> <p><i>Ford BI-161-01 Mar Resistance</i> <i>MAR RESISTANCE DETERMINATION FOR AUTOMOTIVE COATINGS</i></p> <p><i>Test samples must have minimum average gloss retention of 75% using 2μ polishing paper.</i></p> <p><i>Test samples must have minimum average gloss retention of 29% using 9μ polishing paper.</i></p>			
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16.2	Module Coating - Requirement Due to long term chronic paint problems it shall be required that the manufacturer supply a Lifetime paint warranty with no pro-ration . This purchaser has experienced severe electrolysis, adhesion, bubbling, blistering and hairline cracks. The main requirement of a seamless body and isolators is to aid in reducing several of these paint problems. A. The bidder supply in writing from the manufacturer that the vehicle will have Lifetime paint warranty with no pro-ration. B. This warranty will cover only the original owner on the original chassis. C. It will cover electrolysis, delaminating, bubbling, cracking, blistering and chalking. No Exceptions	Yes	No	
16.3	Module Coating - Finish In order to prevent scratches, chipping and pitting we are asking that an additive (quartz or equivalent) be put into the painting process. We acknowledge that this additive can reduce the smoothness of the finish.	Yes	No	

16.4	Module Coating - Preparation Prior to the painting process the module shall be completely sanded from 80 to 180 grit. It shall be washed first in a degreasing solution. Secondly a neutralizing agent. Thirdly the module shall be completely covered in an acid etching solution and then finally coated in a solution that reduces long-term corrosion, improves impact resistance and promotes proper adhesion with the finish coat. No Exceptions	Yes	No	
16.5	Module Coating - Fillers As part of the process to eliminate long term corrosion of the paint there shall be no plastic fillers allowed on the finished aluminum body. Plastic fillers (bondo) tend to crack and shrink over time and are therefore unacceptable. The only fillers allowed on the finished aluminum body will be thin walled epoxy fillers. Any defects that occur during the manufacturing process that require thicker type fillers will be unacceptable and the body must be re-welded or the component removed and rebuilt.	Yes	No	
16.6	Module Coating - Coverage Prior to the painting process all holes including lights, fillers, hardware and all fasteners shall be in the module. No Exceptions. The entire module shall be coated including all door jambs. Vehicles painted with the doors mounted to module during the paint process will not be accepted. Due to the fact that electrolysis can start in one area and travel, it is required that the inside of the body panels below the floor line be covered 100 percent. Common residual overspray will not be considered as meeting this requirement. Finally the inside door jambs of the entrance doors shall also be covered 100 percent. No Exceptions	Yes	No	

16.7	Graphics	Yes	No	
	<p>Signage must be supplied and installed that is necessary to convey operating or occupational health and safety instructions, etc., to attendants and/or occupants of the ambulance as the result of the chassis design, conversion design or equipment installations.</p> <p>Prior to the application of any signage, the surface to which the signage is being applied must be thoroughly cleaned. The film must be applied so that the surface is smooth and uniformly free of grit, blisters or other irregularities.</p> <p>Signage must be installed according to the signage manufacturer's instructions.</p> <p>Signage must be in English or recognized international symbols, which may be used in lieu of English.</p>	Yes	No	
16.8	Miscellaneous Safety Equipment and Signs	Yes	No	
	English and international symbols, signs and decals denoting "No Smoking" and "Fasten Seat Belts" must be prominently displayed in both the patient and driver compartments. These signs must be placed above the oxygen suction console in the patient compartment and on the dashboard in the driver compartment.	Yes	No	
	Fuel filler area must be permanently and prominently marked to indicate type of fuel. The lettering must be at least 1" high and located above the fuel filler stating "Gasoline or Diesel Fuel Only".	Yes	No	
16.9	Lettering All Striping and Lettering to be 3M Scotchlite Reflective <u>LETTERING on SIDES</u> 6" Blue "Sumner County" with ¼" Orange Border	Yes	No	

	<p>4" Blue "Emergency Medical Services" with 1/4" Orange Border</p> <p>5" Blue "Ambulance" with 1/4" White Border</p> <p>17" Blue "Star of Life" with 1/4" White Border placed in center of lettering</p> <p><u>LETTERING on REAR</u></p> <p>5" Blue "Sumner County" with 1/4" Orange Border – (Below windows)</p> <p>5" Blue "Ambulance" with 1/4" White Border</p> <p>(2) 12" Blue Star of Life Above each light at rear window height with 1/4" White Border</p> <p><u>Front Module Wall and Hood</u></p> <p>6" Blue "Sumner County" with 1/4" Orange Border on Front Module Wall</p> <p>5" Blue "Ambulance" with 1/4" White Border on Hood</p>			
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16.10	Striping <u>SIDE STRIPES</u> 10" Orange with ¼" Blue Border Beltline Strip- From Front Fenders around the Rear of the Module <u>Exterior REAR CHEVRON to Top of Windows</u> 6" Blue and Orange 3M Scotchlite Reflective- Entire rear Wall <u>ROOF</u> (1) 32" Blue Star of Life with White Border	Yes	No	
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Section 17 Diagrams and Literature Bidders to provide any drawings, schematics, wiring diagrams, illustrations and safety precautions that would enhance proper management, operation and maintenance with respect to the vehicle, the chassis, the module or any of the supplied/installed equipment.

Item No.	Specification	Yes	No	Deviation/Explanation (attach necessary documentation)
17.1	A) Supportive Literature – All chassis manufacturer’s manuals and documents to be included. The Ambulance manufacturer's operations Manual and all other documentation to be supplied on a USB Flash-drive storage device.	Yes	No	
	B) Literature - Bidders to provide drawings and literature and/or the electronic documents (PDF), for unit offered and should include: <ul style="list-style-type: none"> ▪ 10 Million Product Liability ▪ Proposal Line Item Detail ▪ CAD drawings depicting all interior and exterior views ▪ QVM Certification ▪ All applicable warranties offered ▪ Customer Service policies and hours of operation 	Yes	No	

Section 18 Change Orders All changes in the scope of work or the schedule must be approved through a formal process prior to executing the changes.

Item No.	Specification	Yes	No	Deviation/Explanation (attach necessary documentation)
18.1	A) Change Orders – Any changes or modifications to the original order must be made in writing. All requests for changes must be approved by the purchaser before work begins.	Yes	No	

Section 19 Warranty Support The successful bidder will be responsible to ensure that all of the features and items included in the bid and supplied (including sub-contracted items and OEM chassis) are in compliance with the manufacturer’s specifications and will take responsibility for any warranty claims arising thereof.

Item No.	Specification	Yes	No	Deviation/Explanation (attach necessary documentation)
19.1	A) Warranty Period - The warranty period shall commence on the unit’s in-service date.	Yes	No	
	B) Basic Warranties - The ambulance unit with respect to the vehicle, the chassis, the module or any of the manufacturer supplied/installed equipment, as well as optional attachments and workmanship shall be covered by warranty; by the dealer and/or manufacturer for a period specified	Yes	No	
	C) The successful bidder will be responsible to ensure all the features and items included in the bid and supplied are in compliance with the manufacturer’s specifications and will take responsibility for any warranty claims arising thereof.	Yes	No	
	E) Electrical System Warranty Minimum - 5 years	Yes	No	

	J) Paint Warranty Minimum- Lifetime of Vehicle Non-Prorated	Yes	No	
	K) Module Structural Warranty Minimum- Lifetime of Vehicle	Yes	No	
	L) OEM Chassis Warranty Minimum- 3years/36,000 miles basic Minimum- 5 years/ 60,000 miles on powertrain Roadside assistance- 5 years/ 60,000 miles	Yes	No	
	I) OEM Components Warranty Minimum- 3years/50,000 miles on all components installed by ambulance manufacturer. No Exception	Yes	No	
	I) The warranty coverage shall include all parts and labor necessary to correct all defects of the materials, workmanship, and premature failure or design deficiencies identified during the warranty periods.	Yes	No	
	J) The bidder shall clearly define the procedure to be followed for repairs under warranty including the identity and location of warranty agents.	Yes	No	

Section 20 Stryker Performance Pro Ambulance Cot

Successful Bidder is to supply the cot with required options below:

	1.000 PERFORMANCE PRO AMBULANCE COT 6086000000	Yes	No	
	1.001 DUAL WHEEL LOCK OPTION 6086602010			
	1.002 PR COT RETAINING POST OPTION 6085033000			
	1.003 NON POWERLOAD COMPATIBLE OPTION 6086050000			

	1.004 EQUIPMENT HOOK OPTION 6500147000 1.005 STANDARD COMP 6086 PERFORM PRO 6086026000 1.006 XPSOPTION 6086032000 1.007 NO STEER LOCK OPTION 6506037000 1.008 3 STAGE IV POLE PR OPTION 6500315000 1.009 KNEE GATCH OPTION 6085032000 1.010 HEAD END STORAGE FLAT OPTION 6085035000 1.011 J.HQOK 6092036018 1.012 OOM SHIP (NOT HI. AK, PR. GM) 0054030000 1.013 NO RUNNER 0054200994 1.014 KNEE GATCH BOLSTER MATRSS, XPS 6500003130 1.015 RETRACTBLE HDSCN 02 HLDR OPTN 6085046000 1.016 LEFT HAND RELEASE HNDL OPTION 6086029000 1 YR PARTS, LABOR, & TRAVEL			
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	<p>7777881660</p> <p>1.017 COMPATIBLE WITH THE PERFORMANCE-LOAD MANUAL-COT FASTENER SYSTEM.</p> <p>*Cot restraint system shall meet current KKK-A-1822-F specifications as defined by TN Office of EMS for date of ambulance construction.</p>			
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Section 21 Stryker Performance Load Cot Fastener System

Successful Bidder is to supply the cot fastener system:

	<p>Performance-LOAD Manual-Loading Cot Faster system</p> <p>Model number: 6392</p>	Yes	No			
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Performance-LOAD™

Manual-Loading Cot Fastener System



Key Features

- SAE J3027 compliant to maximize occupant safety in the event of an ambulance accident
- Guided loading and unloading help minimize cot drifting during loading and unloading to improve operator efficiencies
- Adaptable design with the ability for future modification to support Stryker Power-LOAD® fastening system
- Mass Casualty compliant with the inclusion of wall or floor mount fasteners and appropriate hardware
- Powerwashable and easily removable for maximum decontamination and lowered potential for biohazards

Optional Features

- Inductive charging provides optimal SMRT battery management and charging when fastened (no cables or connectors required)

Warranty

- One-year parts, labor and travel or two-year parts only
- Lifetime on all welds*

*7-year service life

Extended warranties available

Specifications*

Model Number	6392
Length	
Overall Length	70 in (178 cm)
Length with Mass Casualty inclusion	80 in (203 cm)
Width	
Foot-End	9 in (23 cm)
Head-End	19 in (48 cm)
Weight	
Total Weight	87 lb (39 kg)
Mount Plate Assembly	17 lb (7 kg)
Transfer Assembly	70 lb (32 kg)
Height	6 in (15 cm)
Minimum Operator Required	
Occupied Cot	2
Unoccupied Cot	1
Recommended Loading Height	22 in to 25 in (56 cm to 61 cm)

Meets dynamic crash standards with Power-LOAD XT (625-4535, 6310-4786 with X-restraints and SAE J3027) and Performance-LOAD XT (SAE J3027 with X-restraints).

Performance-LOAD is used here with inductive charging option.

Stryker reserves the right to change specifications without notice.

Specifications are rounded to the nearest whole number. Conversions are calculated before rounding.

The Performance-LOAD cot fastener system is designed to conform to the Federal Specification for the State-of-the-Art Ambulance ASES-A-1522.

Prints pending.

SPECIFICATIONS

TYPE II

AMBULANCE

1.0 SCOPE & GENERAL REQUIREMENTS

The following chassis must comply with current KKK-A-1822-F **or the latest ambulance construction specifications adopted by the State of TN available at the time the vehicle is constructed.** It is the responsibility of bidder to confirm that the vehicle being bid meets the requirements adopted by the State of TN. Should the delivered vehicle not comply with the specifications, it will not be accepted. All bid responses shall indicate if there is a provision to renew the initial bid, for up to three years at the current price, excluding increases due to actual chassis invoice changes. **Any and all references to any name brand product are for example purposes only, and may be substituted with a like product that is an equal to or better than quality.**

2.0 CHASSIS

2.1 TYPE II ABULANCE: The chassis shall be completed as a Type II, Class 1 ambulance utilizing a, 5-door, Ford Medium-Roof Van specially configured for conversion to an Emergency Medical Vehicle.

Does your bid comply? Yes_____ No_____

2.2 AMBULANCE PREPARATION PACKAGE: The chassis provided shall be equipped with components as recommended by the OEM as suitable for ambulance operation. These components shall be installed by the OEM or its authorized service center. The package shall be designed to meet the demands and duty cycles inherent in Emergency Medical Vehicles.

Does your bid comply? Yes_____ No_____

2.3 THROTTLE – HIGH IDLE: A high idle throttle control shall be provided. The throttle control shall be integral into the chassis electrical system.

Does your bid comply? Yes_____ No_____

2.4 GROSS VEHICLE WEIGHT RATING (GVWR): The GVWR of the chassis supplied shall be at least 9,000 pounds.

Does your bid comply? Yes_____ No_____

2.5 FRONT AXLE WEIGHT RATING (GAWR-F): The GAWR-F shall be rated at no less than 4,130 pounds. The front suspension shall be a McPherson strut system with OEM stabilizer bar.

Does your bid comply? Yes_____ No_____

2.6 REAR AXLE WEIGHT RATING (GAWR-R): The GAWR-R shall be rated at no less than 5,515 pounds. The rear suspension shall be a solid axle with OEM leaf springs and HD gas shock absorbers.

Does your bid comply? Yes_____ No_____

2.7 REAR AXLE TYPE AND RATIO: The axle type shall be limited slip differential with a 3.73:1 limited slip gear ratio.

Does your bid comply? Yes_____ No_____

2.8 ENGINE: A 3.2L I-5 Power Stroke diesel engine shall be provided with 185HP @ 3,000RPM and 350 lb.-ft. Torque @ 1,500-2,750RPM. The engine performance shall comply with or exceed KKK-A-1822F and AMD Standards 005- 12-Volt DC Electrical System Test, 014- Engine Cooling System Test, 017- Road Test and 022- Cold Engine Start Test. The vehicle shall be equipped with a Diesel Exhaust Fluid (DEF) system in compliance with the Environmental Protection Agency (EPA) requirements for diesel engine exhaust emissions.

Does your bid comply? Yes_____ No_____

2.9 TRANSMISSION: A 6-speed, electronic automatic transmission with overdrive w/SelectShift™ shall be provided.

Does your bid comply? Yes_____ No_____

2.10 ALTERNATOR / BATTERIES: An OEM supplied alternator with a rated output of 250-Amps shall be installed. Two batteries shall be OEM mounted beneath the driver's seat to provide access for servicing. The batteries shall be heavy-duty 78-Amp Hr. each.

Does your bid comply? Yes_____ No_____

2.11 BRAKES / STABILITY CONTROL: 4-wheel disc w/4-wheel anti-lock, power assisted hydraulic brakes shall be supplied by the O.E.M. The brakes shall be 4-wheel Disc type and be integrated into the Electronic Stability Control system. The parking brake shall be an independent mechanical brake, provided by the O.E.M.

Does your bid comply? Yes_____ No_____

2.12 TIRES: All tires shall be identical make, tread type, size and load range. For aforementioned GVWR the tires shall be LT235/65R16C. In compliance with FMVSS 138.

2.13 SPARE TIRE: One (1) spare tire and wheel assembly shall be supplied. When the tire is to be carried on the unit, the tire shall be mounted between the OEM frame rails under the rear of the vehicle and OEM jack and tire tools shall be provided.

Does your bid comply? Yes_____ No_____

2.14 OCCUPANT RESTRAINT SYSTEM: The front, forward facing cab seats shall be equipped with O.E.M. installed Type II lap and shoulder belt assemblies.

The seat belts shall have pre-tensioners built into the seatbelt assembly to take up belt slack during a frontal collision. The seat belt assemblies shall meet or exceed F.M.V.S.S. 208 and 209. Any transition trim panels installed in the cab shall not interfere with the swivel arc of the shoulder rings.

Does your bid comply? Yes_____ No_____

2.15 SUPPLEMENTAL RESTRAINT SYSTEM: O.E.M. air bags shall be installed on the driver and passenger side. Permanent or quick release ambulance conversion components shall not interfere with air bag deployment. The air bags must be completely operational. Modifications by the secondary manufacturer are not acceptable.

Does your bid comply? Yes_____ No_____

2.16 FUEL TANK: The fuel capacity shall be at least 25 U.S. gallons. The fuel range shall be at least 250 miles per KKK-A-1822F 3.4.8.

Does your bid comply? Yes_____ No_____

2.17 DIESEL EXHAUST FLUID (DEF) TANK: The DEF capacity shall be at least 3.2 U.S. gallons. The DEF range shall be approximately 5,000-5,500 miles or a ratio of 5 fuel fill ups to 1 DEF fill up.

Does your bid comply? Yes_____ No_____

2.18 CAB SEATS: O.E.M. High back, stain-resistant cloth covered bucket type seats shall be provided in the cab. The seats shall adjust forward and aft. Seat base must be OEM. After-market seats and/or bases are not acceptable due to certification requirements regarding S.R.S. (Air bag) deployment geometry. The seats shall have external moisture repellant in case of contact with blood or body fluids.

Does your bid comply? Yes_____ No_____

2.19 CAB STEREO: An O.E.M. AM/FM/CD in dash radio shall be included with the chassis and shall drive four (4) radio speakers.

Does your bid comply? Yes_____ No_____

2.20 MIRRORS: Dual electrically controlled power mirrors.

Does your bid comply? Yes_____ No_____

2.21 DOOR LOCKS: The cab doors shall have O.E.M. power door locks. A momentary rocker type switch shall active (Lock/Unlock) both cab doors. A minimum of two (2) key fobs for remote lock/unlock shall be provided.

Does your bid comply? Yes_____ No_____

2.22 TRIM PACKAGE: The highest level trim package shall be supplied from the O.E.M. The package shall include high quality chrome-like bright work on the grille face. Bumpers shall also be standard equipment as supplied by the O.E.M. The O.E.M. grille work shall remain O.E.M.

Does your bid comply? Yes_____ No_____

2.23 UNDERCOATING: Chassis shall be fully undercoated as supplied by OEM chassis manufacturer.

Does your bid comply? Yes_____ No_____

2.24 WINDSHIELD SUN VISORS: OEM, stain resistant cloth covered sun visors shall be installed over the driver and passenger sides of the windshield.

Does your bid comply? Yes_____ No_____

3.0 BODY CONFIGURATION

3.1 OVER ALL LENGTH: The overall length of the vehicle shall not exceed two hundred forty inches (240").

Does your bid comply? Yes_____ No_____

3.2 BODY WIDTH: The body width shall comply with State requirements regarding width of vehicles permitted on its roads and highways. The body shall be approximately seventy (70.2") inches wide as provided by the OEM chassis manufacturer, excluding mirrors, lights and accessories.

Does your bid comply? Yes_____ No_____

3.3 PATIENT COMPARTMENT HEADROOM: The headroom within the patient area of the ambulance shall not be less than sixty-six (66") inches. The measurement shall be taken from the center of the patient compartment floor to the ceiling panel.

Does your bid comply? Yes_____ No_____

3.4 BULKHEAD CONFIGURATION: The bulkhead shall be a solid wall broken only by a pass-through opening. There shall be a sliding window with at least 150 square inches of viewing area. The window shall be transparent, shatterproof and shall have a full-length extruded handle along the leading edge.

The bulkhead shall be secured at the floor, at the walls and at the ceiling.

Does your bid comply? Yes_____ No_____

3.5 COMPARTMENT CONFIGURATION: The minimum compartment dimensions are shown in the drawings attached to the Specification.

Does your bid comply? Yes_____ No_____

3.6 SPARE TIRE STORAGE: A full size, fully inflated spare tire matching the wheels and tires mounted on the chassis shall be mounted in the spare tire carrier located under the rear of the vehicle. An O.E.M. jack and tire tools shall also be provided and shipped loose.

Does your bid comply? Yes_____ No_____

4.0 BODY CONSTRUCTION - GENERAL

The ambulance body shall be all steel as provided by the OEM chassis manufacturer. The following testing requirements shall be the responsibility of the ambulance manufacturer and be part of the certification documentation for KKK-A-1822F: AMD 007- Patient Compartment Carbon Monoxide Level Test, AMD-010- Water Spray Test, and AMD-013- Weight Distribution Guidelines.

Does your bid comply? Yes_____ No_____

4.1 BODY STRUCTURE: The continuity of the body structure shall not be broken by removing sections of the roof panel to install a raised roof cap. The OEM medium roof, standard configuration shall be provided and compliance with the requirements of AMD-001 testing as described in Section 4.0 shall be passed through from the OEM chassis manufacturer to the ambulance manufacturer.

Does your bid comply? Yes_____ No_____

4.2 BODY WARRANTY: The body shall carry the OEM chassis manufacturer's Standard Warranty as described in the OEM documents included with the vehicle.

Does your bid comply? Yes_____ No_____

4.3 BODY INSULATION: The insulation material shall be 2" thick, fiberglass batting securely glued in place between the outer body wall and the inner wall of the patient compartment. The insulation shall cover all of the area between the outer skin and the interior of the unit.

Does your bid comply? Yes_____ No_____

5.0 FLOOR STRUCTURE

5.1 CARBON MONOXIDE PROTECTION: To prevent carbon monoxide penetration into the patient compartment, it is imperative that the entire underside of the modular body be sealed. All hollow corners shall be sealed with either expansion foam or sealed metal plates screwed into place. This completed vehicle shall be compliant with AMD Standard 007- Patient Compartment Carbon Monoxide Test.

Does your bid comply? Yes_____ No_____

6.0 SIDE STRUCTURE

SIDE STRUCTURAL MEMBERS: The side structure of the body shall be as provided by the OEM chassis manufacturer with additions by the ambulance manufacturer for purposes of providing adequate seat belt mounting structures as required by KKK-A-1822F and associated AMD Standards.

Does your bid comply? Yes_____ No_____

7.0 ROOF STRUCTURE

7.1 The roof structure of the body shall be as provided by the OEM chassis manufacturer with additions by the ambulance manufacturer for purposes of providing adequate mounting structures for interior lighting, overhead grab rails and/or other required devices as required by KKK-A-1822F and associated AMD Standards.

Does your bid comply? Yes_____ No_____

8.0 DOOR STRUCTURE

8.1 The doors into the body shall be as provided by the OEM chassis manufacturer with additions by the ambulance manufacturer for purposes of providing adequate mounting structures for grab handles or other devices as required by KKK-A-1822F and associated AMD Standards.

8.2 LATCHES & DOOR HANDLES: All exterior and interior door latches and handles shall be as provided by the OEM chassis manufacturer and meet FMVSS 206- Door Locks and Door Retention Components

Does your bid comply? Yes_____ No_____

8.3 WINDOWS: All entry doors shall be equipped with an OEM windows. All glass shall be tinted safety glass. Patient Compartment Windows shall be covered with a Privacy Tint/Screen VLT Range of 5%

Does your bid comply? Yes_____ No_____

8.4 DOOR CHECKS: All doors shall be equipped with OEM supplied door checks (hold-opens). The curbside sliding entry door shall have a hold-open stop integral to the sliding door track. Release of this stop shall be accomplished by squeezing the exterior door handle and pulling the door forward to close. Door checks for the rear doors shall be hinged, sliding guides and shall be removable from the rear door posts to allow the doors to open to 180-degrees.

Does your bid comply? Yes_____ No_____

9.0 CORROSION: Anti-electrolysis procedures

9.1 EXTERIOR FASTENERS: Dissimilar metal contact is known to cause corrosion at fastener sites. All exterior device fasteners, especially light fasteners, shall not contact the painted aluminum surface. All fasteners that are NOT stainless steel or plastic bodied are considered dissimilar. Each hole drilled after the prime and paint process shall be treated with an Electrolysis Corrosion Control compound prior to installation of the mounting screws. All mounting screws shall be stainless steel and shall be coated with the Electrolysis Corrosion Control compound prior to installation.

Does your bid comply? Yes_____ No_____

10.0 REAR BUMPER

10.1 FRAMING: The rear step bumper shall meet or exceed KKK-A-1822F 3.9.6 and be compliant with AMD Standard 018. The bumper shall be bolted directly to the chassis frame. In addition the top of the bumper shall be mounted below the OEM rear bumper, to facilitate entry into the rear of the ambulance.

Does your bid comply? Yes_____ No_____

10.2 CENTER STEP: A flip up step shall be provided to allow closer access to the patient compartment floor. The step shall have a grip strut surface for aggressive traction. Snow and ice shall not compromise the level of traction on the center step.

Does your bid comply? Yes_____ No_____

10.3 OUTER BUMPER PODS: The step bumper shall have an aesthetically pleasing appearance. The outer bumper pods shall be covered in polished aluminum diamond plate. The outer corners shall be rounded to eliminate sharp corners around the working area.

Does your bid comply? Yes_____ No_____

11.0 BODY PROTECTION

11.1 REAR ENTRY DOOR JAMB: In addition to the OEM formed steel frame and the OEM composite door sill/step at the rear entry doors there shall be a vacuum formed, automotive grade wrap. The wrap shall extend along both corner post from the floor up and across the top of the doorjamb.

Does your bid comply? Yes_____ No_____

12.0 CABINETY

12.1 deleted

12.2 CABINET INTERIOR FINISH: The cabinet interior cases shall be made from HD vacuum formed ABS fitted with a HD back plate on each end for securing the tracking for the adjustable shelves. The formed ABS shall be secured around the entire perimeter of the cabinet opening prior to installation of the cabinet glass track framing.

Does your bid comply? Yes_____ No_____

12.3 FLOOR AND SUBSTRATE: The patient compartment subfloor shall be 3/4" thick, 7-ply, exterior grade, A-C plywood. The vinyl floor covering shall be Mannington Insight Gray or a Lonseal product of the customer's choice.

Does your bid comply? Yes_____ No_____

12.4 STAINLESS STEEL LAMINATE: The streetside cabinet wall upper and lower cabinet sections along with the bulkhead wall shall be laminated with .0625 stainless steel laminate to provide a permanent, wear resistant finish that will not be subject to cracking.

Does your bid comply? Yes_____ No_____

12.5 deleted

12.6 CABINET TRIM: All trim throughout the interior conversion shall be anodized aluminum or formed stainless steel. All exposed corners within the patient compartment shall have either padded or rounded corners. The anodized and stainless trim materials shall be installed with a high strength adhesive with any excess adhesive-sealant removed. To facilitate cleaning and reduce the propensity for fluid borne contamination, the use of screws is not acceptable.

Does your bid comply? Yes_____ No_____

12.7 FIT AND FINISH: Mitered joints throughout the interior conversion shall have a gap-less, hairline fit. Openings and misalignments at the corners are not acceptable. Doors shall be warp free. The anodized aluminum glass track for the cabinet openings shall be reinforced and back welded to provide a strong and consistent finish. Sliding door assemblies shall be scratch free and all edges shall be smooth and free of saw marks and sharp edges. Cabinets shall fit tightly against the ceiling without the use of vinyl covered trim pieces to cover the seam between cabinets and ceiling.

Does your bid comply? Yes_____ No_____

12.8 FUNCTION: Doors shall fit the opening. Flush fitting doors shall have even door-to-opening spacing around the perimeter. All doors shall open and close bind-free. All hinged wood, powder coated metal or 3/8" polycarbonate doors shall have positive latches where latches are required.

Does your bid comply? Yes_____ No_____

12.9 deleted

13.0 CABINET CONFIGURATION

13.1 STREET SIDE: A Full Wall of cabinetry shall be provided on the street side. The cabinets shall be easily accessible over the primary cot. The cabinet configuration and dimensions are described in the CAD drawings attached to this specification. The streetside cabinet shall be divided into three sections including upper storage, the A/C-heat plenum and the lower cabinet. The upper cabinet shall include two long upper storage cabinets, the rear exhaust vent and the electrical control and distribution cabinet at the front. The upper/center cabinet shall be designed to provide balanced airflow through a ducted plenum. The lower cabinet shall include four large storage cabinets, the forward action area work area, lower access to a storage area for the standard inverter prewire, the return air for the A/C-heater unit and rear access to the horizontal storage area for the backboards.

Does your bid comply? Yes_____ No_____

13.2 CURB SIDE: A cut, formed and welded .090" aluminum squad bench base shall be provided. The squad bench base shall be powder coated prior to installation and a 6" stainless steel kick plate shall be installed extending from the floor up along the full length of the squad bench base. The squad bench top and lid shall be cut and full perimeter routed and the hinged lid portion shall be attached with four HD stainless steel hinges that are through bolted for security.

The squad bench shall provide seating for two-positions. Two sets of EVS V-4 four point belt systems shall be supplied. The belts shall restrain two seated occupants or one secondary patient, on a backboard. All seat belts and anchorage shall comply with F.M.V.S.S. 209 and 210. A padded back and headrest shall be supplied for all seated personnel along the squad bench. The cabinet configuration and dimensions shall comply with the drawings attached.

The curbside wall shall be a single piece formed fiberglass wall. The wall shall include recess-mounting areas for the O2 receptacle, the 125VAC/12VDC receptacles and the mounting points for the cargo net. The fiberglass shall follow the contour of the OEM sidewall and structural frame support, will follow the contour of the OEM side entry door and terminate in an aesthetically pleasing form and be finished with a high gloss gray gel coat finish.

Does your bid comply? Yes_____ No_____

Located at the head of the squad bench shall be a separate hinged door with "BIOHAZARD" symbol for access to drop-in sharps and waste containers. Access to these containers shall be by raising the squad bench lid.

Does your bid comply? Yes_____ No_____

13.3 CARGO NET: A cargo net-type restraint device shall be installed at the head of the Squad Bench to assist in retaining equipment being carried on the squad bench.

Does your bid comply? Yes_____ No_____

13.4 RIGHT FRONT CABINET: The right front cabinet is hereinafter known as "ALS Cabinet". There shall be a lower open storage area and a mid-level 747 locking storage area with a fixed upper shelf. There shall be a 125VAC/12VDC receptacle mounted in the left hand corner just above the fixed upper shelf. Installed forward of this cabinet shall be a partitioned area nine (9") inches wide to accommodate a vertically positioned stair chair storage area. There shall be a locking drug storage cabinet located above the stair chair storage area. All areas in the ALS Cabinet shall be accessible from the interior of the vehicle or with the curbside door in the open position.

Does your bid comply? Yes_____ No_____

13.5 ACTION AREA COUNTERTOP: The countertop surface shall be color-coordinated with the cabinetry. The edge of the action area shall have a lip to prevent items from sliding to the floor. The Action Area will have the dimensions as shown on the attached drawings..

Does your bid comply? Yes_____ No_____

13.6 TECHNICIAN'S SEAT: The Technician's seat shall be steel framed, high back EVS 1769 chair with an integral Type II lap/shoulder belt. The seat shall be color matched to other upholstery within the patient compartment.

Does your bid comply? Yes_____ No_____

13.7 OCCUPANT HEAD CLEARANCE ZONES: All designated occupant seating positions in the vehicle described in the Specification shall comply with AMD Standard 025- Measuring Guidelines: Occupant Head Clearance Zones.

The patient compartment headliner shall be a single piece, polished fiberglass liner. The headliner shall include recessed mounting points for eight (8) round LED dome lights, a recessed mounting race for the overhead grab rail and a designated mounting points for the cargo net. The headliner shall follow the

contour of the OEM ceiling meeting the form of the OEM side entry door and rear door jamb assemblies in an aesthetically pleasing form.

Does your bid comply? Yes_____ No_____

14.0 UPHOLSTERY

14.1 UPHOLSTERY MATERIALS: All padding and upholstered seating shall be covered in vacuum formed vinyl. Sewn, exposed seams in the seat covers and cushions are not acceptable.

The color shall be selected by the purchaser to coordinate with the laminate selected.

Does your bid comply? Yes_____ No_____

14.2 SEAT/BACKREST CORE MATERIAL: The foam shall meet Federal Specification KKK-A-1822F 3.11.4. All seating and trim materials shall meet or exceed FMVSS 302- Flammability of Interior Materials.

Does your bid comply? Yes_____ No_____

15.0 INTERIOR HARDWARE

15.1 OVERHEAD ASSIST RAIL: This rail shall be naturally accessible to assist working attendants in maintaining their balance. The rail shall be located over the primary patient.

Does your bid comply? Yes_____ No_____

15.2 COT RETENTION DEVICE & PRIMARY COT: Cot and restraint system shall be Stryker Performance Pro Ambulance Cot with:

1. dual wheel lock
2. non-power load
3. XPS option
4. No steer lock option
5. 3 stage I.V. pole
6. Knee catch option
7. Head end storage flat option
8. Left hand release
9. Warranty - 1 year parts, labor and travel

Stryker Performance-Load Cot Fastener System: (see last page for specs)

Does your bid comply? Yes _____ No _____

15.3 ASSIST HANDLES: There shall be two formed grab handles mounted (1) on each rear entry door.

There shall be an assist handle mounted on the outboard side of the ALS cabinet and an assist handle mounted on the rear of the main cabinet wall just above the slide-in backboard slot.

Does your bid comply? Yes _____ No _____

16.0 OXYGEN, VACUUM SYSTEMS

16.1 MAIN OXYGEN SUPPLY: Accommodation shall be made to carry and secure one (1) M-sized oxygen cylinder. The cylinder and its retention components shall be located in the space along the bulkhead wall at the floor. This transverse mounting configuration shall include a slide out tray specifically designed and tested to accommodate this configuration.

The oxygen system shall include a 50 PSI, pre-set Oxygen Regulator. Additionally, an electric valve control with a manual by-pass device shall be installed with the On-Off switch on the rear switch panel and the manual by-pass beside the oxygen outlet on the Action Area panel.

Does your bid comply? Yes _____ No _____

16.2 OXYGEN OUTLETS: Two (2) Oxygen outlets shall be provided in the Action area panel. The outlet latches shall be Ohio style, quick connects.

One (1) Oxygen outlet shall be located on the wall above the forward section of the squad bench. Outlet latch shall be Ohio style, quick-connect.

Does your bid comply? Yes_____ No_____

16.3 OXYGEN HOSES: All oxygen system service hoses, fittings and devices shall be made of non-ferrous materials. Hoses used to pipe Medical Oxygen shall be ¼" inside diameter with an abrasion resistant, green colored, electrically conductive outer jacket. All hoses shall withstand a system test pressure of 200 PSI test as prescribed in Federal Specification KKK-A-1822F 4.4.1 and AMD Standard 015-Ambulance Main Oxygen System Test. Each ambulance shall be tested. "Type Testing/Certification" is not acceptable.

Does your bid comply? Yes_____ No_____

16.4 VACUUM (SUCTION) SYSTEM: A 12-Volt DC electric vacuum pump shall be installed in the lower Main cabinet wall forward of the HVAC unit and behind a louvered access panel. The pump shall meet performance guidelines set forth by Federal Specification KKK-A-1822F 3.12.2 and AMD Standard 021-Aspirator System Test, Primary Patient. A variable vacuum regulator and gauge panel shall be installed in the action area control panel. The vacuum regulator shall control the vacuum pressure delivered to a collection system with a disposable collection canister. The Vacuum gauge shall not be mounted on the collection canister but on the Action Area wall and be hard-plumbed to the electric vacuum pump. Each ambulance shall be tested. "Type Testing/Certification: is not acceptable.

Does your bid comply? Yes_____ No_____

17.0 ELECTRICAL SYSTEM – 12-Volt Direct Current

This electrical System shall be covered under the manufacturer's Warranty for a period of 72 months (6 yrs) or 72,000 miles which ever shall occur first. The electrical distribution panel shall be housed in a dedicated cabinet located on the front bulkhead. This cabinet shall have a black, powder coated aluminum door, louvered for ventilation and with a locking latch for security of the system.

17.1 GENERAL GROUNDS: To comply with federal specification KKK-A-1822F 3.7.12 plus enhance ground quality and reduce trouble-shooting time.

Does your bid comply? Yes_____ No_____

17.2 12 VOLT WIRE: All wires within the ambulance harnesses shall meet Federal Specification KKK-A-1822F 3.7.2 and 3.7.2.1.

Does your bid comply? Yes_____ No_____

17.3 WIRE PROTECTION: All wire within the conversion shall be protected and run in split-convoluted loom with a melting temperature of 300 degrees Fahrenheit. All wire harnesses shall be clamped and routed to eliminate possibility of damage due to cut/chaffed wire. Grommets made of rubber or plastic shall be used where harnesses pass through metal or wood. Large holes and irregular shaped wire passages shall use automotive edge trim to protect the wire conduit/loom. Wire harnesses shall be neatly clamped into protective routing areas away from heat sources, unfriendly edges or moving devices.

Does your bid comply? Yes_____ No_____

17.4 CIRCUIT BREAKERS: All conversion 12VDC circuits shall be protected by non-proprietary, automatic reset, circuit breakers. The trip value for the breaker shall not exceed 80% of the amperage rating of the weakest component in the circuit.

Does your bid comply? Yes_____ No_____

17.5 12 VOLT DC OUTLETS: Three 12 Volt DC, 20 Ampere, cigarette style outlets shall be supplied. They shall be installed (1) on the ALS cabinet wall and (2) on the action area wall. Each outlet shall be separately protected and shall be electrically isolated from other electrical functions on the vehicle. The outlets shall be wired per Federal Specification KKK-A-1822F 3.7.7.3.

Does your bid comply? Yes_____ No_____

18.0 ELECTRICAL SYSTEM- 125 VOLT Alternating Current

19.1 The 125 VAC Electrical System described in this Specification shall comply with AMD Standard 009- 125-Volt AC Electrical Systems Test. This electrical System shall be covered under the manufacturer's Warranty for a period of 72 months (6 yrs) or 72,000 miles which ever shall occur first.

18.2 PRIMARY SHORELINE INLET: A 125 volt, 20 amp (20A), 60 Hz shoreline inlet shall be provided on the module streetside, positioned rearward of the streetside front compartment.

This inlet shall supply power to all interior 125VAC outlets. The inlet shall be grounded to keep continuity with the G.F.I. breaker in the building in which the vehicle is housed or where it is most frequently connected to shore power. The inlet shall have a spring-loaded, weatherproof cover. The inlet must be a "male" plug configuration to accommodate the "female" plug on the shoreline cord. A permanent, aluminized vinyl label, stating voltage and amperage shall be located above the inlet in compliance with KKK-A-1822F 3.7.8, 3.7.8.1.

Does your bid comply? Yes_____ No_____

18.3 INVERTER PRE-WIRE: Accommodation for future installation of an inverter /battery charger shall be made and located behind an access panel located in the lower main cabinet. The

accommodation shall include a pre-wired connection to the shoreline inlet and output wiring to all 125 Volt AC outlets provided in the vehicle. There shall be a single on/off switch located on the rear action panel. This pre-wiring shall be in accordance to KKK-A-1822F 3.7.8.3.

Does your bid comply? Yes_____ No_____

18.4 BATTERY CHARGER: To provide protection for the vehicle's battery system a 12 VDC, 45-amp battery charger shall be installed in the lower area behind the main wall with access through a removable access panel.

Does your bid comply? Yes_____ No_____

18.5 125 OUTLET: Three 125 Volt, hospital grade, straight blade outlets shall be provided (1) on the wall of the main action area, (1) on the ALS cabinet and (1) on the curbside wall at the head of the squad bench. The outlets must be grounded and protected by a G.F.I. (Ground Fault Interrupter) breaker. The outlets must be illuminated by a green indicator light when power is applied to each outlet.

Does your bid comply? Yes_____ No_____

19.0 ENVIRONMENTAL

19.1 REAR HEATING/AIR CONDITIONING: Air Conditioning is hereinafter referred to as A/C. The module shall have an additional, self-contained A/C evaporator unit complete with dual blower motor driven, high output fans. The fans shall be three speeds and shall contain a 600 CFM fan. The A/C unit shall also incorporate a hot water heater core for heat. Both discharge and return heater hoses shall have automatic, vacuum operated shut-off valves to prevent water/coolant flow through the coil during A/C operation. The HVAC unit shall be housed in a dedicated space in the lower main cabinet wall and be accessible through a louvered aluminum panel.

The valves shall operate with the heater/defrost controls. The unit shall be rated at least 32,000 British Thermal Units (BTU) in A/C Mode and 36,000 BTU in Heater Mode. The Vehicle A/C – Heater system must meet or exceed federal specification KKK-A-1822F 3.13.1 thru 3.13.3 and must be compliant with AMD Standards 011- Equipment Temperature Test, 012- Interior Climate Control Test.

Does your bid comply? Yes_____ No_____

19.2 REAR HEAT/AC CONTROLS: An A/C-Heater On/Off switch shall be located in the action area. A separate three-speed fan speed control switch shall be located in the action area control panel. Temperature settings shall be controlled by a simple thermostatic control mounted on the Action Area switch panel.

Does your bid comply? Yes_____ No_____

19.3 HVAC SYSTEM INSTALLATION & WARRANTY:

The auxiliary heating and air conditioning system shall be installed in the ambulance at the ambulance manufacturer's facilities by technicians employed by the manufacturer of the HVAC equipment. Said technicians shall document the installation on forms provided by the HVAC manufacturer and on forms required by the ambulance manufacturer. Warranty on the installation of, and the equipment content and performance of the equipment, shall be the sole responsibility of the HVAC manufacturer.

Does your bid comply? Yes_____ No_____

20.0 CONSOLES, SWITCH PANELS

20.1 CAB CONSOLE: The ambulance conversion control console shall be ergonomically designed, formed, welded. The console shall be designed to match the contours of the OEM dash panel. The console shall be fixed in place and immovable without removing the passenger seat. The console shall include an electronic siren and room for radio installation with dedicated 12 volt fused line.

The switch panel shall be mounted on top of the OEM cowl in an aesthetically appeal manner and shall be easily removable for maintenance and service.

Does your bid comply? Yes_____ No_____

20.2 SWITCH PANEL, CAB CONSOLE: A switch shall be installed on the outboard wall of the Action Area. All switches and controls shall have backlighted legends indication function and status. The Switch Panel shall have the following minimum controls and indicators:

- | | |
|---------------------------------------|----------------------------|
| 1. Door Open indicator | 7. Left Flood Switch |
| 2. Battery On indicator | 8. Right Flood Switch |
| 3. MASTER Emergency Switch, red bezel | 9. Rear Flood Switch |
| 4. Primary/Secondary Mode Switch | 10. Back UP Alarm Switch |
| 5. Light Bar Switch | 11. Module Disconnect Swch |
| 6. Siren/Horn Switch | 12. Digital Volt/Amp Meter |

Does your bid comply? Yes_____ No_____

20.4 SWITCH PANEL, ACTION AREA: A switch panel shall be installed on the outboard wall of the Action Area. All switches and controls shall have backlighted legends indication function and status. The Switch Panel shall have the following minimum controls and indicators:

- | | |
|--------------------------------------|--------------------------------|
| 1. Dome Lights, Cot Switch | 7. AC/Heat Fan Switch |
| 2. Dome Lights, Bench Switch (Hi/Lo) | 8. Electric O2 Valve w/By-Pass |
| 3. Vacuum System Switch, red bezel | 9. Action Area Light |

- | | |
|------------------------|---------------------|
| 4. Exhaust Vent Switch | 10. Thermostat |
| 5. Inverter (optional) | 11. Auxiliary space |
| 6. AC/Heat On/Off | |

Does your bid comply? Yes_____ No_____

21.0 VISUAL CONSPICUITY - EXTERIOR LIGHTING

21.1 WARNING LIGHTS: The warning light system shall meet or exceed KKK-A-1822F as demonstrated with the documentation provided by the lighting manufacturer.

The prescribed warning lights shall be configured like, and flash in compliance with, KKK-A-1822F 3.8.2.1, and Table 1. All of the exterior warning lights shall be LED light heads.

- A. FORWARD OVERHEAD LIGHTS: A low profile fiberglass fairing shall provide a flush vertical mounting surface for (4) 7x3 Red LEDs and one (1) 7x3 White LED. The fiberglass fairing shall be mounted above the cab on the OEM roof in such a manner that there are “no” visible or external mounting devices and will be full perimeter sealed to provide a smooth, leak resistant transition between the chassis body and the fairing. The two outer Red LEDs and the center Clear LED shall flash in accordance with KKK-A-1822F on the front of the body. The two inboard RED LEDs shall be wired on a separate switch.

- B. SIDE BODY WARNING LIGHTS: These shall include (2) combination emergency/scene lights mounted with polished chrome bezels on each side of the van body. The polished chrome bezels shall be designed to fit the contour of the OEM van body and will include a rubber-mounting gasket. These light heads will be wired to water proof connectors on the light heads with waterproof penetration to the OEM body to prevent water penetration.

- C. UPPER REAR WARNING LIGHTS: These shall consist of (1) 7x3 Red LED and (1) Whelen 7x3 Amber LED mounted on a Cast Products housing at the top of each rear door. When the doors are open, there shall be (2) Red/Amber Micron LEDs mounted on the upper rear doorjamb.

- D. GRILLE LIGHTS: Grille lights shall be LED light heads mounted in the OEM grille. These LEDs shall flash in accordance with KKK-A-1822 F.
- E. INTERSECTION LIGHTS: Intersection Lights shall be surface mounted wide-angle red LED w/chrome bezels mounted on the front fenders of the vehicle.
- F. SCENE LIGHTS: Two scene lights shall be provided on each side of the module. The lights shall be an integral part of each LED combination light providing downward illumination. The curbside lights shall come on when the curbside entry door is opened.
- G. LOAD LIGHTS: Two load lights shall illuminate the rear of the module when the rear doors are open. The lights shall be LED illumination lights mounted to provide illumination. Both rear lights shall come on with the opening of the leading rear access door. These rear load lights will also activate when the rear load switch in the cab console Switch Panel is activated. These lights are contained in an angled chrome bezel located at the top of the rear entry doors.

21.2 FLASHER: The light heads are all programmable and do not require a flasher and may be programmed and wired to provide the KKK-A-1822F required flash patten if required.

Does your bid comply? Yes_____ No_____

21.3 TAIL LIGHTS: Tail light configuration shall be as provided by the OEM chassis manufacturer and be compliant with FMVSS 208 and functioning as Tail/Brake, Turn Signals and Back-up Lights.

Does your bid comply? Yes_____ No_____

21.4 LICENSE PLATE LIGHT: The license plate holder shall provide illumination to the license plate with the chassis park light circuit on.

Does your bid comply? Yes_____ No_____

21.5 PERIMETER LIGHTING CERTIFICATION: To assure that the exterior work lighting is adequate to perform EMS functions in a variety of settings that may require exterior illumination, the Scene and Load lights installed on this vehicle shall comply with AMD Standard 024- Perimeter Illumination Test.

Does your bid comply? Yes_____ No_____

21.6 SPOT LIGHT: A hand held 400,000 candlepower, blue-eye spotlight shall be provided in the cab. A chromed hook with spring retainer shall be included to stow the light.

Does your bid comply? Yes_____ No_____

22.0 AUDIBLE CONSPICUITY

22.1 ELECTRONIC SIREN: The siren shall be a 200 watt mounted in the engine cover console.

The siren speakers shall be dual Cast Products speaker housings w/100-watt drivers and shall emit selected tones through the cast aluminum speakers located through the front bumper. The siren speakers shall not block airflow into the grille per the OEM chassis manufacturer's guidelines. The siren and speakers shall meet or exceed KKK-A-1822F 3.14.4 and be compliant with AMD Standard 023- Siren Performance Test and AMD Standard 006- Patient Compartment Sound Level Test.

Does your bid comply? Yes_____ No_____

22.2 BACK UP ALARM: The apparatus shall include a minimum 97 decibel back up alarm device. The alarm shall be automatically activated by shifting the vehicle transmission into reverse. The backup alarm

shall include a rocker type cut-off switch located in the cab console Switch Panel. The alarm device shall be provided as required in KKK-A-1822F 3.15.2 and shall be compliant with SAE Standard J994.

Does your bid comply? Yes_____ No_____

23.0 INTERIOR LIGHTING

23.1 ACTION AREA LIGHTING: A 12-volt LED bar light shall be provided directly over the forward, street side work surface. A near flush, 16-inch type fixture shall be provided. The light shall have an on-off rocker switch on the rear control panel.

Does your bid comply? Yes_____ No_____

23.2 PATIENT COMPARTMENT DOME LIGHTS: The patient compartment shall have eight dual intensity LED dome lights in the ceiling. The domes centers shall be installed in two, four-light banks recessed into the fiberglass headliner. The streetside bank shall provide light directly over the patient; the curbside bank shall provide light directly over the aisle and squad bench. The dome lights and configuration shall meet KKK-A-1822F 3.8.4, 3.8.4.1 and be compliant with AMD Standard 016- Patient Compartment Lighting Level Test.

Does your bid comply? Yes_____ No_____

23.3 CHECK-OUT TIMER: A 5-minute checkout timer shall activate by opening the rear or side entry door when the battery switch is off. The curbside bank of dome lights shall turn on in the “low” mode. Following the first 5-minute cycle, the lights will deactivate. The cycle can be reactivated by closing, then re-opening the side or rear entry door.

Does your bid comply? Yes_____ No_____

24.0 COMMUNICATIONS EQUIPMENT

24.1 COMMUNICATIONS RADIO ANTENNA PRE-COAX: Two (2) RG58-U coaxial cables shall be supplied, (1) terminated within the dog house area with 36" service loop accompanied by a 12 volt positive and negative ignition switched power and (1) terminated within the action area of the patient compartment with 36" service loop accompanied by a 12 volt positive and negative ignition switched power. A tag shall identify each coax provided.

Does your bid comply? Yes _____ No _____

25.0 PAINT, LETTERING, DECALS, MISCELLANEOUS

25.1 100% PAINTFILM COVERAGE: The body shall be painted OEM white.

Does your bid comply? Yes _____ No _____

25.2 PAINT AND COLORS: Any painting performed by the ambulance manufacturer shall be covered under warranty for a period of not less than forty-eight (48) months (4yrs), and shall be sanctioned and warranted by the paint manufacturer.

Does your bid comply? Yes _____ No _____

25.3 LETTERING, STRIPING & DECALS: All lettering, striping and decals shall be 3M Scotchlite reflective. The following lettering/decals shall be provided and installed prior to delivery:

Lettering for street and curb side

1. 6" blue "Sumner County" with ¼" orange border
2. 4" blue "Emergency Medical Services" with ¼" orange border
3. 5" blue "Ambulance" with ¼" white border
4. 17" blue Star of Life with ¼" white border placed in center of lettering

Lettering for rear of unit

1. 5" blue "Sumner County" with ¼" orange border
2. 5" blue "Ambulance" with ¼" white border
3. (2) 12" Blue Star of Life Above each light at rear window height with ¼" White Border

Lettering for front of unit

1. 6" Blue "Sumner County" with ¼" Orange Border on Front Module Wall
2. 5" Blue "Ambulance" with ¼" White Border on Hood

Side Stripes

1. 10" Orange with ¼" Blue Border Beltline Strip- From Front Fenders around the Rear of the Module

Exterior REAR CHEVRON

1. 6" Blue and Orange 3M Scotchlite Reflective- Entire rear Wall

Roof

1. One (1) 32" blue Star of Life

Exterior unit placard

1. Install two (2) unit number plate holders – one (1) on each side

Does your bid comply? Yes _____ No _____

25.4 FIRE EXTINGUISHERS: In compliance with the Federal Specification KKK-A-1822F, there shall be two (2) 5lb. ABC rated fire extinguishers with mounting brackets. These extinguishers shall be shipped loose with the completed ambulance for installation by this agency.

Does your bid comply? Yes_____ No_____

26.0 MISCELLANEOUS OPTIONS

26.1 RADIOS AND ANTENNAS: Radios and antennas are to be supplied and mounted by the successful bidder.

Does your bid comply? Yes_____ No_____

26.2 FRONT RADIO: One (1) Motorola XPR 5550 25-40 watt UHF (403mhz-470mhz) with standard options (Motorola model AAM28QPN9KA1_N)

Does your bid comply? Yes_____ No_____

26.3 REAR RADIO: One (1) Motorola XPR 5550 25-45 watt VHF (136mhz-174mhz) with Impres 4-way Navigation Keypad Mic (Motorola part RMN5127). All other options standard. (Motorola model AAM28JQN9KA1_N)

Does your bid comply? Yes_____ No_____

26.4 GPS ANTENNA: Successful bidder to furnish and install one (1) MIMO LTE/Cellular/PCS/GPS/WiFi Combo Antenna. Both cellular connectors and GPS connector are SMA Male connectors. Wifi is RP-SMA Male.

Does your bid comply? Yes_____ No_____

26.5 GPS MODEM: Successful bidder to furnish and install one (1) Sierra Wireless AirLink GX440
LTE/EVDO/GPS/WiFi - Ethernet/Serial/USB - Verizon - Includes DC Power Cable Part number 1101531

Does your bid comply? Yes_____ No_____

27.0 EXCEPTIONS TO SPECIFICATIONS:

ANY AND ALL EXCEPTION TO THESE TYPE II SPECIFICATIONS, AS WRITTEN OR DRAWN, SHALL BE NOTED
AND REFERENCED BY PAGE, PARAGRAPH NUMBER, AND DESCRIBED IN DETAIL.

Performance-LOAD™

Manual-Loading Cot Fastener System



Key Features

- SAE J3027 compliant to maximize occupant safety in the event of an ambulance accident
- Guided loading and unloading help minimize cot drifting during loading and unloading to improve operator efficiencies
- Adaptable design with the ability for future modification to support Stryker Power-LOAD® fastening system
- Mass Casualty compliant with the inclusion of wall or floor mount fasteners and appropriate hardware
- Powerwashable and easily removable for maximum decontamination and lowered potential for biohazards

Optional Features

- Inductive charging provides optimal SMRT battery management and charging when fastened (no cables or connectors required)

Warranty

- One-year parts, labor and travel or two-year parts only
- Lifetime on all welds*

*7-year service life

Extended warranties available

Specifications*

Model Number	6392
Length	
Overall Length	70 in (178 cm)
Length with Mass Casualty inclusion	80 in (203 cm)
Width	
Foot-End	9 in (23 cm)
Head-End	19 in (48 cm)
Weight	
Total Weight	87 lb (39 kg)
Mount Plate Assembly	17 lb (7 kg)
Transfer Assembly	70 lb (32 kg)
Height	6 in (15 cm)
Minimum Operator Required	
Occupied Cot	2
Unoccupied Cot	1
Recommended Loading Height	22 in to 35 in (56 cm to 91 cm)

Meets dynamic crash standards with Power-LOAD XT 165/525-4535, 165/104-1786 with X-restraints and SAE J3027 and Performance-LOAD XT 12AE J3027 with X-restraints.

Performance-LOAD is used here with inductive charging option.

Stryker reserves the right to change specifications without notice.

Specifications are rounded to the nearest whole number. Conversions are calculated before rounding.

The Performance-LOAD cot fastener system is designed to conform to the Federal Specification for the State-of-the-Art Ambulance ASES-A-1522.

Prints pending.

ATTACHMENT 1

STATEMENT OF NON-COLLUSION

The undersigned affirms that they are dully authorized to execute this contract, that this company, corporation, firm, partnership or individual has not prepared this proposal in collusion with any other respondent, and that the contents of this proposal as to prices, terms or conditions of said proposal have not been communicated by the undersigned nor by any employee or agent to any other person engaged in this type of business prior to the official opening of this proposal.

Company _____

Address _____

Phone _____

Fax _____

Respondent (Signature) _____

Respondent (Print Name and Title) _____

Authorized Company Official (Print Name) _____

ATTACHMENT 2

DRUG-FREE WORKPLACE

The Sumner County Government is committed to maintaining a safe and productive work environment for its employees and to providing high quality service to its citizens. The goal of this policy is for Sumner County employees and contractors to remain, or become and remain, drug-free. Abuse and dependency on alcohol and/or drugs can seriously affect the health of employees, contractors and citizens, jeopardize personal safety, impact the safety of others and impair job performance.

Drug-Free Workplace Act of 1988 – Sumner County Government is governed by the Drug-Free Workplace Act of 1988 (Pub. L. 100-690, Title V, Subtitle D).

Omnibus Transportation Employee Testing Act of 1991 – Sumner County Government is governed by the Omnibus Transportation Employee Testing Act of 1991 (Pub. L. 102-143, Title V).

Right to an Alcohol and Drug-Free Workplace - Employees have the right to work in an alcohol and drug-free environment and to work with persons free from the effects of alcohol and/or drugs.

Required Alcohol and Drug Tests - Alcohol and drug testing for safety sensitive employees shall be in accordance with the provisions contained in the Sumner County Alcohol and Drug Policy adopted by departments which have safety sensitive positions.

Contracts – Any contractors providing goods or services to Sumner County Government must comply with all State and Federal drug free workplace laws, rules and regulations and so certify this compliance by completion of the DRUG-FREE WORKPLACE AFFIDAVIT (attached page 2).

DRUG-FREE WORKPLACE AFFIDAVIT (page 2)

STATE OF _____

COUNTY OF _____

The undersigned, principal officer of _____, an employer of five (5) or more employees contracting with Sumner County Government to provide goods or services, hereby states under oath as follows:

1. The undersigned is a principal officer of _____ (hereinafter referred to as the "Company") and is duly authorized to execute this Affidavit on behalf of the Company.
2. The Company submits this Affidavit because it shall be receiving pay pursuant to a contract with the state or any local government to provide goods or services.
3. The Company is in compliance with all State and Federal Laws, Rules and Regulations requiring a drug-free workplace program.

Further affiant saith not.

Principal Officer: _____

STATE OF _____

COUNTY OF _____

Before me personally appeared _____, with whom I am personally acquainted (or proved to me on the basis of satisfactory evidence) and who acknowledged that such person executed the foregoing affidavit for the purposes therein contained.

Witness my hand and seal at office this _____ day of _____, 20____.

Notary Public

My commission expires: _____

ATTACHMENT 3

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, AND OTHER RESPONSIBILITY MATTERS

The prospective participant certifies, to the best of its knowledge and belief, that it and its principals:

1. Are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in transactions under federal non-procurement programs by any federal department or agency;
2. Have not, within the three year period preceding the proposal, had one or more public transactions (federal, state, or local) terminated for cause or default; and
3. Are not presently indicted or otherwise criminally or civilly charged by a government entity (federal, state, or local) and have not, within the three year period preceding the bid, been convicted or had a civil judgment rendered against it
 - A. For the commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public transaction (federal, state, or local) or a procurement contract under such a public transaction;
 - B. For the violation of federal or state antitrust statutes, including those proscribing price fixing between competitors, the allocation of customers between competitors, or bid rigging; or
 - C. For the commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property.

I understand that a false statement on this certification may be grounds for the rejection of this proposal or the termination of the award. In addition, under 18 U.S.C. § 1001, a false statement may result in a fine of up to \$10,000 or imprisonment for up to five years, or both.

Name of Participant Agency

Name and Title of Authorized Representative

Signature of Authorized Representative

Date

_____ I am unable to certify to the above statement. Attached is my explanation.

ATTACHMENT 4

CERTIFICATION BY CONTRACTOR

I, the undersigned, certify that on behalf of Contractor, I am authorized to attest and obligate the above certification and to legally bind Contractor to these terms, conditions and obligations.

_____ Title

_____ Name

_____ Date

_____ Witness