COUNTY OF MOORE  
NORTH CAROLINA

INVITATION FOR FORMAL BIDS

ISSUE DATE: January 6, 2017  
IFB 2017-02

TITLE: AMBULANCE – CHASSIS AND REMOUNT

ISSUING DEPARTMENT: 
County of Moore Financial Services  
Attn: Terra Vuncannon  
206 S. Ray Street  
P. O. Box 905  
Carthage, NC 28327

Sealed Bids will be received until 4:00 p.m., Tuesday January 31, 2017 from qualified vendors for two (2) Chassis and Remounting of two (2) Boxes for the County of Moore.  
All inquiries for information concerning Instructions to Bidders, Bid Submission Requirements or Procurement Procedures shall be directed to (in writing):

Terra Vuncannon, Purchasing Manager  
P.O. Box 905  
206 S. Ray Street  
Carthage, NC 28327  
(910) 947-7118 (Telephone)  
tvuncannon@moorecountync.gov

Sealed Bids shall be mailed and/or hand delivered to the Issuing Department shown above, and the envelope shall bear the name and number of this Invitation for Bids. It is the sole responsibility of the Bidder to ensure that its bid reaches the Issuing Department by the designated date and hour indicated above.

In compliance with the Invitation for Bids and to all the terms and conditions imposed herein, the undersigned offers and agrees to furnish the services and install the goods described in accordance with the attached signed bid.

Firm Name: ____________________________  Date: ______________

Address: ____________________________  Phone: ______________

________________________________________  By: ___________________  
(typed)  
By: ___________________  
(signed)
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INSTRUCTIONS TO BIDDERS

1. **Sealed Bids shall be submitted to the Issuing Department- Attn: Terra Vuncannon and include the enclosed Bid Form.** In order for a bid to be considered, it shall be based on the terms, conditions and specifications contained herein and shall be a complete response to this Formal Bid. The County of Moore (County) reserves the right to make an award in whole, or in part, and to reject any and/or all bids, and to waive any informality in bids unless otherwise specified by the Bidder. The County reserves the right to award to one or more vendors. Nothing in this Bid Document is intended to be or will be construed an exclusive agreement between the County and the Bidder. Both parties remain free to enter into similar agreements with third parties. The Bidder shall sign the bid correctly and bids may be rejected if they show omissions, alterations of form, additions not called for, conditional proposals or any irregularities of any kind.

2. All labor costs, direct and indirect, shall have been determined and included in the proposal. The cost and availability of all equipment, materials, and supplies associated with performing the services described herein shall have been determined and included in the proposal. Do not include sales tax in bid figures. The County pays sales tax and will add this to your proposal figures separately when invoices are paid. All price quotes shall include delivery to the delivery point, installation and setup charges, as necessary. Goods shall be set in place ready for owner’s use. All goods shall be new and of industry standard quality. No remanufactured, refurbished or used goods will be accepted.

3. After the Bid issue date, all communications between the Issuing Department and prospective Bidders shall be in writing. **No oral questions shall be accepted.** Any inquiries, requests for interpretation, technical questions, clarifications, or additional information shall be directed to Terra Vuncannon at the address listed on page one if this solicitation or via e-mail to tvuncannon@moorecountync.gov. All questions concerning this Formal Bid shall reference the section and page number. Questions and responses affecting the scope of the goods will be provided to all prospective Bidders by issuance of an Addendum. All written questions shall be received by the Issuing Department no later than 10:00 am Wednesday January 18, 2017. NO EXCEPTIONS. This includes any request for substitution or “or equal” items. All addenda pertaining to this Bid will be posted on the County website at www.moorecountync.gov within 24 – 48 business hours after the deadline for questions. It is the bidder’s responsibility to check the website for the addenda.

4. The County will not be responsible for any oral instructions. Should a Bidder find discrepancies in, or omissions from the documents, or should be in doubt as to their meaning, s/he should at once notify the Issuing Department in writing, and a written addendum shall be issued. Acknowledgement of any Addendum received during the time of the bid shall be noted on the Bid Form in the spaces provided. In closing of a contract, any Addendum issued shall become a part thereof. **It is the Bidder’s responsibility to assure that all addenda have been reviewed and, if need be, signed and returned with the bid.**

5. Bids will be examined promptly after opening and award will be made at the earliest possible date. The prices quoted shall be held firm, and no bids may be withdrawn until **90 days** after proposal opening date. The County reserves the right to conduct any test/inspection it may deem advisable to ensure services/materials/supplies/equipment, as appropriate, conform to specifications.
6. Pursuant to North Carolina General Statutes Section 143-129, “award shall be made to the lowest responsible, responsive bid or bidders, taking into consideration quality, performance and the time specified in the proposals for the performance of the contract.”

7. The materials/supplies/equipment furnished under any resulting contract shall be covered by the manufacturer’s most favorable commercial warranty. Each Bidder shall plainly set forth the warranty for the goods in the proposal. Operations and maintenance manuals for equipment shall also be provided, as specific and appropriate.

8. All purchases for goods or services are subject to the availability of funds for this particular purpose.

9. The bidder shall not represent itself to be an agent of the County.

10. The General Statutes of the State of North Carolina, insofar as they apply to purchasing and competitive bidding, are made a part hereof.

11. The County of Moore is committed to creating and maintaining an environment free from harassment and other forms of misconduct that fundamentally compromise the working environment of the County. All contractors performing work/services at a County facility shall take all necessary steps to assure that none of its employees engage in harassment or intimidation relating to personal beliefs or characteristics of anyone on the County’s premises, including but not limited to, race, religion, age, color, sex, national origin or disability. Such harassment is unacceptable and will not be condoned in any form at the County of Moore. If such conduct occurs, the contractor will take all necessary steps to stop it and prevent its future occurrence. This policy shall be strictly enforced.

12. For all the work being performed under this Contract, the County of Moore has the right to inspect, examine, and make copies of any and all books, accounts, records and other writing relating to the performance of the work. Audits shall take place at times and locations mutually agreed upon by both parties, although the Bidder/contractor must make the materials to be audited available within one (1) week of the request for them.

13. All Bidders must complete and submit the Vendor Application Form with their proposal package. This information will be used to create or update the County’s Vendor file.

14. Bidders are cautioned that this is a formal bid, not a request for contract, and the County of Moore reserves the right to reject any and/or all bids. It further reserves the right to waive informalities insofar as it is authorized so to do where it deems it advisable in protection of the best interests of the County.

15. Bids will be tabulated, evaluated and a recommendation presented to the County Manager and/or County of Moore Board of Commissioners for their approval.

16. Any and all exceptions to the Specifications must be stated in writing, giving complete details of what is to be furnished in lieu of requested Specifications.

17. The County of Moore reserves the right to cancel and terminate any resulting contract, in whole or in part, without penalty, upon forty-five (45) days’ notice to the Bidder(s). Any contract cancellation shall not relieve the Bidder(s) of the obligation to deliver any outstanding services.
issued prior to the effective date of the cancellation.

18. **Bids in one (1) original and two (2) copies will be received from each bidder in a sealed envelope or package.** Each original shall be signed and dated by an official authorized to bind the form. Unsigned bids will not be considered.

19. Upon receipt by Moore County Financial Services, your Bid is considered a public record except for material which qualifies as “trade secret” information under N.C. Gen. Stat. 66-152 et. seq. After the Bid opening, your Bid may be reviewed by the County’s evaluation committee, as well as other County staff and members of the general public who submit public records requests. To properly designate material as trade secret under these circumstances, each Bidder must take the following precautions: (a) any trade secrets submitted by a Bidder must be submitted in a separate, sealed envelope marked “Trade Secret — Confidential and Proprietary Information — Do Not Disclose Except for the Purpose of Evaluating this Proposal,” and (b) the same trade secret/confidentiality designation must be stamped on each page of the trade secret materials contained in the envelope.

20. In submitting a Bid, each Bidder agrees that the County may reveal any trade secret materials contained in such response to all County staff and County officials involved in the selection process, and to any outside consultant or other third parties who serve on the evaluation committee or who are hired by the County to assist in the selection process. Furthermore, each Bidder agrees to indemnify and hold harmless the County and each of its officers, employees, and agents from all costs, damages, and expenses incurred in connection with refusing to disclose any material which the Bidder has designated as a trade secret. Any Bidder that designates its entire Proposal as a trade secret may be disqualified.

21. Bidder shall comply with the North Carolina Workers’ Compensation Act and shall provide for the payment of workers’ compensation to its employees in the manner and to the extent required by such Act. In addition the Provider shall maintain, at its expense, the following minimum insurance coverage:

   - General Liability - $2,000,000
   - Auto Liability - $2,000,000
   - Umbrella Coverage - $5,000,000

20. **The following must be included in the Bid Packet to be considered a responsive bid:**
   - Signed Bid Form
   - Notarized Non-Collusion Affidavit
   - Notarized E-verify Affidavit
   - Iran Divestment Act Certification
   - Vendor Form (including three references)
   - W-9 Form
SPECIFICATIONS

Background:
The County is soliciting bids to purchase and remount Two (2) GMC 4500 Medium Duty, Class One (4 x 2), Configuration A ambulance(s). The Ambulance Box per this specification will be provided by Moore County. There is an optional trade–in allowance on the existing chassis (details below)

1. 2004 GMC 4500 VIN # 1GDE4V1294F516847; 6.6L Duramax engine, Allison transmission, odometer mileage shows 207,670 actual mileage is 345,501.
2. 2004 GMC 4500 VIN # 1GDE4V1214F516681; 6.6L Duramax engine, Allison transmission, mileage 279,327.

The attached specification defines a heavy-duty, commercial emergency medical vehicle, built to withstand adverse driving conditions. The vehicle shall meet or exceed the latest revision to federal specification KKK-A-1822, Federal Motor Vehicle Safety Standards (F.M.V.S.S.), National Truck Equipment Association (N.T.E.A.) Ambulance Manufacturer's Division (A.M.D.) standards and Ford Qualified Vehicle Modifier (Q.V.M.) Program Truck Guidelines.

This invitation is extended to all qualified vendors/manufacturers that are specifically in the business of building emergency medical vehicles and/or equipment.

CHASSIS SPECIFICATIONS:

CURRENT AMBULANCE CHASSIS/MODULAR BOX: GMC 4500
IMPORTANT
It shall be the responsibility of the vendor to verify necessary wheelbase and cab to axle measurement suitable for remounting. You may verify this information by contacting Mr. Barry Oldham at 910-947-7180 no later than 10:00 am Tuesday January 17, 2017.

Bidder Complies YES_____ NO_____
2017 Dodge 5500 4x4 Drive Regular Cab
Wheel base: 192” with a 108” Cab to axle
Engine: 6.4 Liter V 8 Heavy Duty Hemi
Transmission: 6 speed Auto Aisan AS66RC HD
High Idle: (Throttle) OEM
GVWR: 18,000 pounds,
FAWR: 7000 pounds
RAWR: 13,500 pounds
Alternator: Single 220 amp or larger
Engine Block Heater: Included on chassis not connected to shoreline
Rear Suspension: D-45, Suspension – D135RS2 Liquid Spring ILOS

Kneeling Feature: Enable Switch Located in CAB console
Kneeling Feature: Activated by TRAILING rear access door
Leveling Valves: Dual, (1) Left, (1) Right

Exhaust system termination point: OEM Location, Right Rear
Exhaust System: with side exit

Fuel Tank: 52 Gallon, Single

Front Tire Tread: All Traction
Front Tires: Pair of 225/70R19.5F
Front Wheels: 19.5" x 6.75 Steel
Rear Wheels: 19.5" x 6.75 Steel
Rear Tire Tread: All Traction
Rear Tires: Two pair of 225/70R19.5F
Wheel Finish: Polished SS Wheel Simulators (D4500)

Mirror: Exterior, Electric and Heated
Front Bumper: Chrome Steel
Interior Trim, Medium Gray
Cab Seats: Driver and Passenger, Captain's Chairs
Cab Seat Belts; Black
Radio: Cab AM/FM

Cab Equipment: Keyless Remote Option
OEM Key Fob: Included w/Chassis Unlock Mod Doors

Must also operate the Module Power Door Locks Optioned.
POWER Door Locks: Module Doors, X-Series Units
Door Locks, Tied into OEM System X series
Module power locks are tied to the Chassis power lock system
Door Lock Switches: Integrated in Interior Entry door Handles
ONLY the following doors shall have power door locks:
Electric Door Lock: (M-1A) Upper Left Front Compartment,
Electric Door Lock: (M-1) Left Front Compartment
Electric Door Lock: (M-2) Left Middle Compartment
Electric Door Lock: (M-3) Left Rear Compartment
Electric Door Lock: Rear Access Doors
Electric Door Lock: (M-5) Right Rear Compartment
Electric Door Lock: (M-6) Right Rear, Forward Compartment
Electric Door Lock: Curbside Access Door
Electric Door Lock: (M-7) Right Front Compartment
Remote Keypad #1: Installed on curbside door

GENERAL CONDITIONS: REMOUNT SPECIFICATIONS (BOX CURRENT PROPERTY OF MOORE COUNTY). The original specifications of the box were included for informational purposes only. Vendor must ensure any modifications made to the box will not deviate from the original box size.

Bidder Complies      YES_____ NO_____
Delivery Date shall be on or before June 30, 2017 for both ambulances. Failure to comply with this shall result in a 5% reduction from total purchase price.

Bidder Complies      YES_____ NO_____
BIDDER: "Bidder" is hereinafter defined as the vehicle manufacturer and/or its authorized representative. The bidder is an assigned representative who is authorized to commit to a contract with the "Agency".

Bidder Complies      YES_____ NO_____
VENDOR: "Vendor" is synonymous with "Bidder".

Bidder Complies      YES_____ NO_____
NOTICE TO BIDDERS: Bidders shall thoroughly examine any drawings, specifications, schedule, instructions and any other documents supplied as part of this invitation to bid.

Bidders shall make all investigations necessary to thoroughly inform themselves regarding the content of the written specifications, drawings and instructions supplied herein. No pleas of ignorance by the bidder pertaining to the content of the specifications, drawings, schedule or instructions will be considered by the agency once the deadline for bid submission has occurred. Failure or omission on the part of the bidder to make the necessary examinations and investigations into the content of the specifications AND make all clarifications or explanations of exceptions and conditions that exist or that may exist hereafter shall NOT be accepted as a basis for making variations to the requirements of the agency or compensation to the bidder.

Bidder Complies      YES_____ NO_____
Definitions:
CLARIFICATIONS: Clarifications shall be written correspondence between the bidder, the agency and all other qualified bidders. A Clarification shall include the paragraph number, page number, the text with unclear content (as written in the specification) and the definition of the clarification.
requested. Verbal clarifications shall be documented in writing and distributed to all other qualified bidders at least two business days prior to the deadline for bid submission.

Bidder Complies YES____ NO____

EXPLANATION OF EXCEPTIONS: Bidders may take exceptions to any part of the bid contained herein with a written itemized schedule. The schedule shall include the paragraph number(s), the text that the bidder feels he can not comply with an explanation why the bidder feels that the requirement is not in the best interest of the agency and/or an alternate bidder solution. Alternate bidder solutions may be considered by the agency, if the bidder can show the agency that the alternate solution is, in quality and quantity, equal to OR better than the specified item. This agency will share the exception/alternate solution with all other Qualified Bidders. Explanation of exceptions shall be documented in writing at least two business days prior to the deadline for bid submission.

Bidder Complies YES____ NO____

CORE DESIGN INTENT: The core design intent of the specifications supplied herein is to purchase an ambulance with the highest level of engineering excellence. The "Core Design" intent of this vehicle shall be centered on the patient's need for pre-hospital care, in conjunction with a safe working environment for the Emergency Medical Personnel.

Bidder Complies YES____ NO____

BID PACKAGES SHALL NOT TAKE TOTAL EXCEPTIONS: Bidders are required under this bid invitation to give, for the consideration of the agency, a proposal that will comply with the written specifications, drawings and schedules supplied herein. The specifications supplied represent a compilation of input from all disciplines of users, patients, maintenance and management personnel who are directly affected by the vehicle's performance.

Careful consideration pertaining to safety, configuration, construction, and workmanship are based on working experiences by all the personnel who have direct, working contact with the subject vehicle specified herein. The "core design" of this ambulance was created as a result of resolving issues and improvement suggestions that have originated from the personnel most QUALIFIED to make such input.

This agency makes no claim that ALL potential issues or improvements are included in the specifications supplied herein. This agency will consider any VALID concern by any bidder and will consider minor specification exceptions or alternates of equal or better performance, provided that the exception(s) are steered toward meeting the "Core design" intent AND the exception(s) are cleared up not less than two days prior to the bid opening date.

Caution: A bidder who submits a bid that takes "Total Exception" and makes an offering of some "Standard" or "Stock" unit will be viewed by the agency as a bidder who did not make, and is not prepared to make, a valid bid, and is not qualified to manufacture the ambulance as specified herein. Alternate bids will NOT be considered.

Bidder Complies YES____ NO____

VEHICLE QUANTITY: THIS AGENCY is currently seeking to purchase one vehicle per the specifications set forth in this solicitation for bid. THIS AGENCY AND/OR other government or private agencies that qualify to purchase under this contract will reserve the right to increase the number of vehicles purchased without incurring an obligation to obtain bids from other vendors for a
period of two years. A contract extension may be provided to the successful, qualified vendor who has performed satisfactorily to the original contract.

Bidder Complies YES_____ NO_____

VENDOR QUALIFICATIONS:
FORD Q.V.M.: All Bidders shall be members in good standing of the Ford Motor Company's Qualified Vehicle Modifier Program (Q.V.M.). Each bidder shall supply a copy of their valid Q.V.M. Certification with their bid package. If for any reason the Q.V.M. Certification has been withdrawn or suspended by Ford Motor Company within the past five years, the bidder shall supply a full written explanation as to why it was withdrawn. The written explanation shall include any corrective actions taken to regain the Q.V.M. Certification.

Bidder Complies YES_____ NO_____

PRODUCT LIABILITY INSURANCE: Proof of current liability insurance shall be supplied. The proof of insurance shall bear the insurance carrier's name, address and phone number. The proof shall also bear the name and address of the insured. This document shall contain the coverage schedule, explaining the type of insurance, the policy number, the effective date of coverage, the policy expiration date and the individual limits. The minimum amount of coverage shall be as follows:

Commercial General Liability - as follows:
   Each Occurrence: $1,000,000
   Damage to rented premises, each occurrence: $1,000,000
   Medical Expenses: $5,000
   Personal and Adv Injury: $1,000,000
   General Aggregate: $2,000,000
   Products - Comp/OP Agg: $2,000,000

Automotive Liability - Combined Single Limit: $1,000,000
Excess Liability - Umbrella Form
   Each occurrence: $25,000,000
   Aggregate: $25,000,000

Workers Compensation and Employers' Liability
   E.L Each Accident: $1,000,000
   E.L. Disease policy - Each Employee: $1,000,000
   E.L. Disease - Policy Limit: $1,000,000

Bidder Complies YES_____ NO_____

NON-DISCRIMINATION AND EQUAL OPPORTUNITY: The Bidder/Contractor agrees to comply with all federal statutes relating to non-discrimination. These include but are not limited to:

   (a) Title VI of the civil rights act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin;
   (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. 1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex;
   (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), which prohibits discrimination on the basis of handicaps and the Americans with Disabilities Act of 1990;
   (d) The Age Discrimination Act of 1974, as amended (42 U.S.C. 6101-6107), which prohibits discrimination on the basis of age;
   (e) The Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse;
(f) The Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism;

(g) 523 and 527 of the Public Health Service Act of 1912 (U.S.C. 290 dd-3 and 290 ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records;

(h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. 3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing;

(i) Any other nondiscrimination provisions in any specific statute(s) applicable to any Federal funding for this Agreement;

(j) The requirements of any other nondiscrimination statute(s) which may apply to this agreement.

Bidder Complies YES_____ NO_____

DRUG FREE WORK PLACE: The Bidder shall conduct business as a Drug Free Workplace. The Bidder/Manufacturer and ALL of its sub-contractors shall provide notice to their employees and sub-contractors as required under the Drug-Free Workplace Act of 1988. A copy of Bidder's Drug-Free Workplace Policy shall be furnished to this agency upon request.

Bidder Complies YES_____ NO_____

NATIONAL TRUCK EQUIPMENT ASSOCIATION TESTING

A.M.D. 001 - AMBULANCE BODY STRUCTURE STATIC LOAD TEST: The ambulance described herein shall be type tested to the National Truck Equipment Association's Ambulance Manufacturing Division, Standard 001 - Ambulance Body Structure Static Load Test except the test weight shall be a minimum of 55,000 pounds. The test shall be conducted by an independent testing laboratory. The module body bid herein shall contain extrusion shapes and general structural layout identical to the test body used in the test.

Safety is this Agency's first concern. Structural integrity is crucial to the safety of the patient, passengers and crew. Any manufacturer's product that has undergone a catastrophic modular dismemberment during a collision shall voluntarily supply the Agency with a report containing the date, a full explanation of the incident and photographs of the modular ambulance involved in the collision. Catastrophic modular dismemberment is defined as any structural failure which results in separation of major body elements such as walls, roof, floor, or doors. Catastrophic modular dismemberment during a collision indicates mechanical defects in the design and/or the direct construction of the modular body.

Any Bidder with such an incident in his company's past shall prove to the Agency that corrective action has taken place to correct the problem. All of the internal corrective actions shall be tested again to A.M.D. Standard 001 except the test weight shall be a minimum of 55,000 pounds. All A.M.D. Standard 001 testing prior to the incident is deemed invalid regardless of the expiration date of the original test.

A.M.D. 002 - BODY DOOR RETENTION COMPONENTS TEST: The ambulance described herein shall be type tested to the National Truck Equipment Association Ambulance Manufacturing Division, Standard 002 - Body Door Retention Components Test. The test shall be conducted by an independent testing laboratory. The module body bid herein shall contain identical door extrusion shapes, door skin configuration and general structural layout as the test body used in the test.
Safety is this Agency's first concern. Entry and compartment door integrity is crucial to the safety of the patient, public, passengers and crew. If the Bidder has experienced any of the following door conditions as a result of collision, roll over or other accidental impact, then the Bidder shall supply the Agency with a report containing the date, a full explanation of the incident and corrective actions taken.

a) Any entry door rendered inoperative.
b) Any door that has come open.
c) Foreign object penetration into patient cabin through the body structure.

Catastrophic door failure during a collision indicates mechanical defects in the design, hardware and/or the direct construction of the modular door. Any A.M.D. Standard 002 testing prior to the incident is deemed invalid, regardless of the expiration date of the original test.

A.M.D. 003 - OXYGEN TANK RETENTION SYSTEM STATIC TEST: The ambulance described herein shall be type tested to the National Truck Equipment Association Ambulance Manufacturing Division, Standard 003 - Oxygen Tank Retention System Static Test. The test shall be conducted by an independent testing laboratory.

A.M.D. 004 - LITTER RETENTION SYSTEM STATIC TEST: The cot/litter retention system described herein shall be tested to the National Truck Equipment Association, Ambulance Manufacturing Division Standard 004 - Litter Retention System Static Test. The cot mount hardware, mounting method and floor reinforcement areas shall exceed the test as described in A.M.D. 004. This test shall be conducted by an independent testing laboratory.

A.M.D. 005 - 12-VOLT DC ELECTRICAL SYSTEMS TEST: The 12-Volt DC Electrical System described herein shall be tested to the National Truck Equipment Association, Ambulance Manufacturing Division Standard 005 - 12-Volt DC Electrical System s Test. This test is valid for the test article vehicle ONLY. The test shall be conducted on EACH ambulance. The results of the test shall be recorded on an electrical system performance sheet and shall be included with the delivery documents. This test shall be conducted by a qualified quality control electrician at the ambulance manufacturing plant.
Reliability and safety is this Agency's first concern. The 12-volt electrical system must be functional under all normal or adverse driving and operating conditions. Each electrical device, electrical component, wire, wire route and connection quality shall be tested for reliability as a "SYSTEM" on each vehicle sold. If the Bidder has experienced an electrical fire or an electrical failure resulting in a disabled ambulance going to an emergency call or during transportation, shall supply the Agency with a report containing the date, a full explanation of the incident and corrective actions taken to prevent future electrical failures.

A.M.D. 006 - PATIENT COMPARTMENT SOUND LEVEL TEST: The ambulance described herein shall meet or exceed the National Truck Equipment Association Ambulance Manufacturing Division Standard 006 - Patient Compartment Sound Level Test. The sound level in the driver or patient cabin shall be eighty decibels or less under the conditions described in A.M.D. Standard 006.

A.M.D. 007 - PATIENT COMPARTMENT CARBON MONOXIDE LEVEL TEST: The ambulance described herein shall meet or exceed the National Truck Equipment Association, Ambulance Manufacturing Division Standard 007 - Patient Compartment Carbon Monoxide Level Test. The patient and driver cabin shall be environmentally sealed from carbon monoxide gases that are emitted from internal combustion engines. The ambulance specified herein shall have safe carbon monoxide levels of ten parts per million or less while the vehicle is exposed to the conditions described in A.M.D. Standard 007.

A.M.D. 008 - PATIENT COMPARTMENT GRAB RAIL STATIC LOAD TEST: The patient cabin grab rails shall be tested to the National Truck Equipment Association, Ambulance Manufacturing Division Standard 008 - Patient Compartment Grab Rail Static Load Test. The ceiling mounted grab rails shall be subject to a three axis load of three hundred pounds.

The ceiling mounted grab rail shall not come loose from the ceiling or permanently deform. All mounting fasteners shall be threaded into metal structure not less than .125 inches thick.

A.M.D. 009 - 125-VOLT AC ELECTRICAL SYSTEMS TEST: The patient cabin shall be wired per the National Truck Equipment Association, Ambulance Manufacturing Division Standard 009 - 125 Volt AC Electrical Systems Test.

The ambulance wiring shall comply with the National Electric Code in effect at the time of manufacture of the ambulance. The system specified herein shall be a 2-wire system with a ground. All outlets and 120-volt hard wired devices, on the ambulance, shall have ground fault interrupter protection.

A.M.D. 010 - WATER SPRAY TEST: The ambulance specified herein shall be water spray tested for water leakage into the patient's and driver's cabins. The door to jamb seal, window installation and seals shall be tested against leakage per the National Truck Equipment Association, Ambulance Manufacturing Division Standard 010 - Water Spray Test. This test shall be conducted on EACH ambulance by the quality assurance department.

A.M.D. 011 - EQUIPMENT TEMPERATURE TEST: The ambulance and equipment specified herein shall operate satisfactorily operate between 30 degrees and 125 degrees Fahrenheit per the National Truck Equipment Association, Ambulance Manufacturing Division Standard 011 - Equipment Temperature Test. This standard must be type certified by an independent testing laboratory on a like test model.
A.M.D. 012 - INTERIOR CLIMATE CONTROL TEST: The ambulance and equipment specified herein shall be equipped with a HVAC (Heating, Ventilation, and Air Conditioning) System that will meet or exceed the performance criteria set forth in the National Truck Equipment Association, Ambulance Manufacturing Division Standard 012 - Interior Climate Control Test. This standard must be type certified by an independent testing laboratory on a like test model.

A.M.D. 013 - WEIGHT DISTRIBUTION GUIDELINES: The ambulance specified herein shall be weighed at the end of the ambulance manufacturer's production cycle to assure compliance with the National Truck Equipment Association, Ambulance Manufacturing Division Standard 013 - Weight Distribution Guidelines.

The vehicle specified herein must be weighed on a four point scale that measures the weight imposed on EACH wheel. The side to side weight difference tolerance shall not exceed five percent (5%).

The total weight imposed on the FRONT axle shall not exceed the chassis manufacturer's gross axle weight rating minus three hundred pounds.

The total weight imposed on the REAR axle shall not exceed the chassis manufacturer's gross axle weight rating minus one thousand pounds.

The aggregate total of all four points shall not exceed the gross vehicle weight rating minus eleven hundred pounds regardless of customer specified equipment.

A.M.D. 014 - ENGINE COOLING SYSTEM TEST: The cooling system in the ambulance specified herein shall be tested to assure compliance with the National Truck Equipment Association, Ambulance Manufacturing Division Standard 014 - Engine Cooling System Test. The vehicle specified herein must be tested at the end of the ambulance manufacturer's manufacturing cycle to determine if the cooling system capacity is adequate to maintain safe engine operating temperature at ninety five degrees, ambient temperature for one hour. EACH ambulance shall be checked to assure a leak and trouble free cooling system performance.

A.M.D. 015 - AMBULANCE MAIN OXYGEN SYSTEM TEST: Each ambulance's main Oxygen System shall be tested to assure compliance with the National Truck Equipment Association, Ambulance Manufacturing Division Standard 015 - Ambulance Main Oxygen System Test. The subject vehicle specified herein must be equipped with an Oxygen system that can withstand a 150 PSI charge of dry air or Nitrogen for a period of four hours without a loss exceeding five pounds per square inch of pressure. The results of this test shall be posted inside the oxygen tank stowage compartment. A certificate shall be supplied, describing the test conditions, the initial test pressure, the final pressure (after four hours) and the name of the inspector who performed the test.

A.M.D. 016 - PATIENT COMPARTMENT LIGHTING LEVEL TEST: The ambulance and equipment specified herein shall be equipped with patient compartment lighting that will meet or exceed the performance criteria set forth in the National Truck Equipment Association, Ambulance Manufacturing Division Standard 016 - Patient Compartment Lighting Level Test. This standard must be type certified by an independent testing laboratory on a like test model.

A.M.D. 017 - ROAD TEST: The ambulance and equipment specified herein will meet or exceed the performance criteria set forth in the National Truck Equipment Association, Ambulance Manufacturing Division Standard 017 - Road Test. This standard must be type certified by an independent testing laboratory on a like test model.
A.M.D. 018 - REAR STEP AND BUMPER STATIC LOAD TEST: The rear step and bumper shall be type tested to the National Truck Equipment Association, Ambulance Manufacturing Division Standard 018 - Rear Step and Bumper Static Load Test. This standard must be type certified by an independent testing laboratory on a like test model.


A.M.D. 020 - FLOOR DISTRIBUTED LOAD TEST: The ambulance specified herein shall be type tested to the National Truck Equipment Association, Ambulance Manufacturing Division Standard 020 - Floor Distributed Load Test. This standard must be type certified by an independent testing laboratory on a like test model.

A.M.D. 021 - ASPIRATOR SYSTEM TEST, PRIMARY PATIENT: Each ambulance’s primary patient aspirator system shall be tested to assure compliance with the National Truck Equipment Association, Ambulance Manufacturing Division Standard 021 - Aspirator System Test, Primary Patient.

A.M.D. 022 - COLD ENGINE START TEST: The ambulance specified herein shall be type tested to the National Truck Equipment Association, Ambulance Manufacturing Division Standard 022 - Cold Engine Start Test.

A.M.D. 023 - SIREN PERFORMANCE TEST: The ambulance siren system shall be type tested to the National Truck Equipment Association, Ambulance Manufacturing Division Standard 023 - Siren Performance Test.

A.M.D. 024 - PERIMETER ILLUMINATION TEST: The ambulance and equipment specified herein shall be equipped with perimeter lighting that will meet or exceed the performance criteria set forth in the National Truck Equipment Association, Ambulance Manufacturing Division Standard 016 - Perimeter Illumination Test. This standard must be type certified by an independent testing laboratory on a like test model.


Bidder Complies YES____ NO____

CRASHWORTHINESS

Safety is a primary objective for modular ambulance vehicles produced under this specification. In addition to compliance with design criteria incorporated herein, manufacturer shall also provide certified documentation to provide proof of crashworthiness of vehicle(s) proposed.

Crashworthiness of vehicle shall be demonstrated through a minimum of two actual crash tests of modular body ambulance under laboratory conditions. These crash tests will be similar in scope to testing performed by the National Highway Traffic Safety Administration and the Insurance Institute for Automobile Safety to verify the crashworthiness of passenger vehicles. An independent test
laboratory accepted and utilized by the National Highway Traffic Safety Administration for their crash tests shall perform this testing and provide certification. Testing shall be performed and verified by SAE Member Engineers.

Test criteria shall be defined as a minimum of two actual high-speed impact crash tests between an ambulance and mid-size passenger vehicles. Collisions shall be into each side of manufacturer’s standard production modular ambulance body mounted on a chassis, struck by an actual bullet vehicle. Crash energy at impact shall be a minimum of 3,000 pounds at 42 miles per hour.

Reports from crash testing shall be certified by testing lab, and shall include the following minimum results:

1) The required six-point medic restraint system shall hold all attendants in their seats. There shall be no head contact with anything except head rests. There shall be no excessive excursion of the attendants in their seats regardless of which way they were facing.

2) The ambulance body structure shall remain intact after both impacts. Bending of body shall be localized to point of impact, and doors adjacent to the actual crash point shall continue to operate. There shall be no intrusion into the patient compartment.

3) The body mount and pucks shall remain intact as a result of the impacts. There shall be no visual damage to body mounts or floor structure.

4) All interior cabinetry and fixtures shall remain in place and undamaged.

This provision requires actual crash testing of an ambulance by high-speed moving vehicles to validate safety and crashworthiness. Crash simulations, acceleration testing, sled testing; barrier testing or other theoretical tests are not sufficient to meet this requirement. Certified documentation from a qualified independent testing laboratory shall be provided with the bid in order to validate compliance with this requirement.

Bidder Complies    YES_____ NO_____

QUALITY CONTROL - Specification Compliance

QUALITY ASSURANCE: The vendor shall inspect and test all systems, electrical loads, per current Federal specification KKK-A-1822 Section 4. Testing results shall be documented and displayed in the Oxygen compartment and/or supplied with the delivery handbook.

QUALITY/COMPLIANCE ASSURANCE: A thorough quality/compliance inspection by this agency's employees or this agency's hired representative shall compare the Ambulance to the specifications within 10 calendar days of written notice of vehicle completion by the successful bidder. The notice may be faxed, followed by phone contact. The customer reserves the right to authorize the bidder's DEALER to conduct the inspection provided the DEALER is authorized and qualified to correct quality/compliance issues at the DEALER site.
NON-COLLUSIVE BID CERTIFICATION:
By submission of this bid response, the Bidder and/or the Bidder's authorized representatives, certify under penalty of perjury, that to the best of their knowledge and belief the following:

A) The prices in the bid response have been arrived at independently without collusion, consultation, communication, or agreement for the purpose of restricting competition, as to any matter relating to such prices with any other Bidder or with any competitor, and;

B) Unless otherwise required by law, the prices which have been quoted in the bid response have not knowingly been disclosed by the Bidder and will not knowingly be disclosed by the bidder, prior to the public bid opening, either directly or indirectly to any competitor, and;

C) No attempt has been made or will be made by the Bidder, for the purpose of restricting competition, to induce any person, partnership or corporation not to submit a bid response.

DEBARMENT STATUS:
By submission of this bid response, the Bidder and/or its authorized representatives, certify under penalty of perjury, that to the best of their knowledge and belief they are not currently debarred from submitting bids or bid on contracts by any agency within the home state of THIS AGENCY, nor are they an agent of any person or entity that is currently debarred from submitting bids on contracts by any agency within the home state of THIS AGENCY.

WARNING:
This agency will not tolerate Vendors who state compliance to specifications but deliver an incomplete product and/or sub-standard materials and workmanship. Vendors who have made delivery of such an ambulance without making every reasonable effort to remedy the defects found at the time of delivery or within the warranty period will be notified that they are DEBARRED from submitting bids to this agency in the future. This agency will not waste valuable time (more than once) trying to recover legal costs and deal with lost in-service time of new apparatus, working with vendors who are unresponsive to the needs of this agency.

MODULE CONFIGURATION:
OVER ALL LENGTH: The overall length of the vehicle shall not exceed twenty three (23) feet, nine (9) inches. The departure angle and length shall meet or exceed the current revision of Federal Specification KKK-A-1822.

MODULER BOX SPEC THAT WILL BE PROVIDED BY THE COUNTY OF MOORE: The original specifications of the box were included for informational purposes only. Vendor must ensure any modifications made to the box will not deviate from the original box size.
MODULE LENGTH: The module length shall be at least one hundred sixty four (164) inches.
MODULE WIDTH: The module width shall comply with the current revision of Federal Specification KKK-A-1822. The module shall be ninety five (95) inches wide, excluding lights and accessories.
MODULE HEAD ROOM: The module shall not be less than seventy (70) inches actual measured headroom. The measurement shall be taken from the patient compartment floor to the ceiling panels.
Bidder Complies      YES_____ NO_____  
Engineering NOTE: Maximize aisle space to approximately 45 1/2”

COMPARTMENT CONSTRUCTION

MATERIALS: Unless specified otherwise, all exterior compartment walls and backs shall be constructed of .100 polished aluminum diamond plate. All compartment floors shall be formed of .125 aluminum sheet. Compartments for generators, oxygen, and backboards will have .250 compartment floors. All compartment ceilings shall be formed of .090 aluminum sheet. The ceilings and floors shall form around the sides and back to provide an overlapping joint. The floor and ceiling surfaces shall be double action (DA) sanded to 180 grit. The floors and ceilings are bonded to the walls and back and intermittent welded on six (6) inch centers.

Bidder Complies      YES_____ NO_____  
DRAIN HOLES: Drain holes shall be provided on the bottom of the compartments. Each hole shall be baffled to prevent splash water from entering the compartment.

Bidder Complies      YES_____ NO_____  
COMPARTMENT FLOOR CONFIGURATION: This compartment floor shall be a sweep out type floor. The compartment floor shall be flush with the lower door jamb to facilitate compartment floor cleaning. The edge of the compartment floor shall be continuously welded to the lower door jamb. Heat generated from welding shall not distort the straightness or flatness of the jamb or compartment floor. The weld quality must be aesthetically uniform.

Bidder Complies      YES_____ NO_____  
VENTILATION: All compartments, made from aluminum sheet, shall have at least eight louvers of ventilation to the outside below floor line. The oxygen cylinder and backboard compartments shall also be louvered through the inner and outer door panel up high with at least nine (9) square inches of free-vented area.

Bidder Complies      YES_____ NO_____  
WALK THROUGH: Walk through access from the module to the cab shall be provided. The walk through opening shall be at least 19” inches wide and 41” inches high. A door designed to close off access shall be provided per Federal specification KKK-A-1822. The cab shall NOT be rigidly fastened to the modular body. A flexible, Accordion shaped, closed cell rubber bellows, custom made for the opening shall be provided to tie the cab to the module. One joint in the bellows is acceptable and shall be located on the bottom of the opening. The joint shall be completely vulcanized.

Bidder Complies      YES_____ NO_____  
CURBSIDE ACCESS DOOR: The curbside side access door shall be at least 78-7/8” high by 31” wide measured at the door jamb opening.

Bidder Complies      YES_____ NO_____  
JAMB PROTECTION: At the curbside side, module entry door, a full width, formed, stainless steel jamb protection plate shall be provided to prevent heavy traffic from chipping the paint.

Bidder Complies      YES_____ NO_____  
DOOR CHECK: The compartment door(s) in excess of 13” pass through width shall be equipped with a door check (hold open) device. All vertically hinged doors in excess of 13” pass through width shall have a gas operated bi-directional spring shock door check. Door check brackets shall be through
bolted to preclude coming loose.

Bidder Complies YES_____ NO_____

DOOR SWING: The compartment door checks shall be installed to allow the door to open ninety degrees (90) from the fully closed position.

Bidder Complies YES_____ NO_____

STEP WELL: A curbside entry door shall feature a double step "step well" to assist in patient cabin egress. The step shall have a tread dimension of not less than 10 inches. The riser dimension shall not exceed nine and one-half inches, measured from the step tread to the floor of the patient cabin. A right angled trim, made of bright aluminum diamond plate, shall be formed over the flooring material and wrap around the 3-sided perimeter of the step well. Step well material shall be 0.100 thick, Polished aluminum diamond plate. The step well shall be illuminated. The step well shall meet or exceed the current revision of Federal specification KKK-A-1822.

Bidder Complies YES_____ NO_____

STEP WELL ILLUMINATION: A 3" LED clear interior light shall illuminate the curbside step well per the current revision of Federal specification KKK-A-1822.

Bidder Complies YES_____ NO_____

LEFT FRONT COMPARTMENT: This compartment shall be located in the left front corner of the modular body. The minimum compartment dimensions shall be 84.5" High x 19.8" Wide x 20.5" deep.

Bidder Complies YES_____ NO_____

SPLASH GUARD: A deflector plate shall be welded between the left front and left front middle compartments. The shield shall be specifically designed to shield water splash from the compartment vents.

Bidder Complies YES_____ NO_____

COMPARTMENT DOOR: A single, forward hinged, compartment door shall be set for this compartment. The door shall have a single handle and two rotary latches.

Bidder Complies YES_____ NO_____

ADJUSTABLE SHELF: A standard duty aluminum adjustable shelf shall be provided. The shelf shall be formed of .125 (1/8") thick aluminum, with 2 inch upward turned lips on all four sides. The shelf shall be mounted on Unistrut tracking, infinitely adjustable, aluminum extruded, heavy duty shelf track. Incrementally adjustable, non-aluminum shelf track is not acceptable.

Bidder Complies YES_____ NO_____

SHELF BRACKET: Each above exterior adjustable shelf shall include four (4) self gusseted .157” thick shelf brackets that will allow for easy adjustment up and down for each shelf. Each bracket shall be secured to the shelf by carriage head bolts on the top of the shelf and hex head bolts to secure them to the shelf tracking material in the compartments. This will guard against shelf deformation in the compartments when the shelves are secured in place.

Bidder Complies YES_____ NO_____

VERTICAL DIVIDER: Located in the "M1" compartment shall be a semirigid fixed divider shall be provided. The divider shall be formed of 5052-H32 aluminum sheet. The divider shall be full height of the compartment by fourteen inches (14”) deep; measured from the back of the compartment. The exposed edge shall be covered...
with automotive edge trim.

Bidder Complies YES_____ NO_____ 
COMPARTMENT LIGHT: (1) One light shall be mounted in the ceiling of the "M-1" compartment. The light shall be surface mount and shall be LED.

Bidder Complies YES_____ NO_____ 
LEFT FRONT MIDDLE COMPARTMENT: This compartment is located adjacent and rearward to the left front compartment. The minimum compartment dimensions shall be 36.75" High x 50.8" Wide x 20.5" Deep.

Bidder Complies YES_____ NO_____ 
COMPARTMENT FLOOR: This compartment shall feature a four inch (4") dropped floor. The edge of the compartment shall be continuously welded to the lower door jamb.

Bidder Complies YES_____ NO_____ 
COMPARTMENT DOORS: A set of double hinged compartment doors shall be set for this compartment. Each door shall have a single handle and two rotary latches.

Bidder Complies YES_____ NO_____ 
VERTICAL DIVIDER: Located in the "M5" compartment shall be a semirigid fixed divider shall be formed of 5052-H32 aluminum sheet. The divider shall be full height of the compartment by fourteen inches (14") deep; measured from the back of the compartment. The exposed edge shall be covered with automotive edge trim.

Bidder Complies YES_____ NO_____ 
COMPARTMENT LIGHT: (1) One light shall be mounted in the ceiling of the "M-2" compartment. The light shall be surface mount and shall be LED.

Bidder Complies YES_____ NO_____ 
AUXILIARY CONDENSER: The module A/C system shall employ a separate condenser for the rear HVAC system. The condenser shall be through bolted to brackets that are welded to the body behind the curb side step well. Two electric cooling fans shall be mounted to the core assembly and blow toward the road. The condenser fans shall come on when either the cab or the patient cabin A/C unit is turned on.

Fan blades shall be protected by a high impact resistant grille work that is molded into the fan body. All fan wiring shall be routed, secured and protected from road hazards. The condenser body shall not fall within the vehicles maximum ramp break over angle. None of the O.E.M. Cab HVAC system components may be tied into for the rear AC system.

Bidder Complies YES_____ NO_____ 
LEFT WHEEL WELL COMPARTMENT: This compartment shall be located on the drivers' side of the modular body, directly over the left wheel well opening. The minimum compartment dimensions shall be 8" High x 34.75" Wide x 20.5" Deep.

Bidder Complies YES_____ NO_____ 
COMPARTMENT INTERIOR WALLS: All compartment interior walls constructed of .100 diamond plate for increased strength.
Bidder Complies  YES_____ NO_____

SPECIAL COMPARTMENT CONSTRUCTION: The aforementioned compartment shall be made of the following materials:

MATERIALS: All exterior compartment walls and back shall be constructed .090 aluminum sheet. The aluminum alloy, for all compartment parts shall be 5052-H32. All compartment floors shall be formed from .125 aluminum sheet. All compartment ceilings shall be formed from .090 aluminum sheet. The ceilings and floors shall form around the sides and back to provide an overlapping joint. All interior surfaces shall be double action (DA) sanded to 180 grit. The floors and ceilings are bonded to the walls and back and intermittent welded on six (6) inch centers. Continuous welds around the compartment seams are not acceptable due to cracking, in time, located just outside the welded heat affected zone.

Bidder Complies  YES_____ NO_____

COMPARTMENT INTERIOR FINISH: This compartment shall have a double action sanded finish. The finish shall be created using 180 grit sand paper.

Bidder Complies  YES_____ NO_____

COMPARTMENT FRONT: A single non-hinged compartment door shall be bolted to the aforementioned rollout tray. The door construction shall utilize the same construction techniques and materials that are used for the other hinged doors found on the unit body compartments. This front shall have two striker pins, one on each end of the door. The tray front shall support the door squarely with the jamb. The door shall roll out with the tray as a drawer front.

Bidder Complies  YES_____ NO_____

LEFT REAR COMPARTMENT: This compartment shall be located in the left rear corner of the body. The minimum compartment dimensions shall be 36 3/4" High x 36 1/8" Wide x 20 1/2" deep.

Bidder Complies  YES_____ NO_____

COMPARTMENT FLOOR: This compartment shall feature a four inch (4") dropped floor. The edge of the compartment shall be continuously welded to the lower door jamb.

Bidder Complies  YES_____ NO_____

COMPARTMENT DOORS: A set of double hinged compartment doors shall be set for this compartment. Each door shall have a single handle and two rotary latches. Doors shall comply with aforementioned construction techniques.

Bidder Complies  YES_____ NO_____

ADJUSTABLE SHELF: A standard duty aluminum adjustable shelf shall be provided. The shelf shall be formed of .125 (1/8") thick aluminum, with 2 inch upward turned lips on all four sides. The shelf shall be mounted on Unistrut tracking, infinitely adjustable, aluminum extruded, heavy duty shelf track. Incrementally adjustable, non-aluminum shelf track is not acceptable.

Bidder Complies  YES_____ NO_____

SHELF BRACKET: Each above exterior adjustable shelf shall include four (4) self gusseted .157” thick shelf brackets that will allow for easy adjustment up and down for each shelf. Each bracket shall be secured to the shelf by carriage head bolts on the top of the shelf and hex head bolts to secure them to the shelf tracking material in the compartments. This will guard against shelf deformation in the compartments when the shelves are secured in place.
Bidder Complies YES NO
COMPARTMENT LIGHT: (1) One light shall be mounted in the ceiling of the "M-3" compartment. The light shall be surface mount and shall be LED.

Bidder Complies YES NO
REAR TAILBOARD COMPARTMENT: This compartment shall be located in the rear kick-plate and centered below the rear access doors. The minimum compartment dimensions shall be 9" High x 27 5/8" Wide x 22 1/4" deep.

Bidder Complies YES NO
COMPARTMENT INTERIOR WALLS: All compartment interior walls constructed of .100 diamond plate for increased strength.

Bidder Complies YES NO
COMPARTMENT FLOOR: This compartment shall feature a four inch (4") dropped floor. The edge of the compartment shall be continuously welded to the lower door jamb.

Bidder Complies YES NO
SHELF BRACKET: Each above exterior adjustable shelf shall include four (4) self gusseted .157” thick shelf brackets that will allow for easy adjustment up and down for each shelf. Each bracket shall be secured to the shelf by carriage head bolts on the top of the shelf and hex head bolts to secure them.
to the shelf tracking material in the compartments. This will guard against shelf deformation in the compartments when the shelves are secured in place.

**Bidder Complies**

**YES_____ NO_____**

**COMPARTMENT LIGHT:** (1) One light shall be mounted in the ceiling of the "M-5" compartment. The light shall be surface mount and shall be LED.

**Bidder Complies**

**YES_____ NO_____**

**RIGHT FRONT BATTERY COMPARTMENT:** This compartment shall be located in the lower right front corner of the module body. The minimum jamb pass through dimensions shall be 12 1/4" High x 18 1/2" Wide x 21 7/16" Deep. The 2-battery tray shall accommodate two group 31 series batteries and be mounted on full extension slides with a 250 pound per pair rating.

**Bidder Complies**

**YES_____ NO_____**

**COMPARTMENT DRAWER FRONT:** A single non-hinged compartment door shall be bolted to the rollout tray. The door construction shall utilize the same construction techniques and materials that are used for the other hinged doors found on the unit body compartments. This front shall have two striker pins, one on each end of the door. The tray front shall support the door squarely with the jamb. The door shall roll out with the tray as a drawer front configuration.

**Bidder Complies**

**YES_____ NO_____**

**REAR ACCESS DOORS:** The rear of the module shall be equipped with double, hinged patient compartment access doors. The doors shall be centered on the body and align with the patient compartment aisle space. The doors shall measure 46-3/4 inches wide by 60-5/8" high, jamb to jamb.

**Bidder Complies**

**YES_____ NO_____**

**REAR ACCESS DOOR JAMB:** At the rear access doors, a full width, formed, stainless steel jamb protection plate shall be provided to prevent the cot frames from chipping the paint. The stainless steel protection package shall start from under the kick plate and follow the contour of the jamb extrusion, cover the end of the sub-floor and cover the last four inches of the vinyl floor covering.

**Bidder Complies**

**YES_____ NO_____**

**LOAD HEIGHT:** Load height is defined as the vertical measurement from the level ground to the finished floor plane. When the suspension is kneeled, the load height shall meet current Federal specification KKK-A-1822.

**Bidder Complies**

**YES_____ NO_____**

**ELECTRIC STEP:** The side entry door of the ambulance shall have a 12 volt step manufactured by Ziamatic Corp. The use of this step reduces shock injury to personnel by decreasing the distance from the ground to the step surface. The step shall be powered by a single 12-volt electric actuator. The mechanism includes a patent pending in-line locking mechanism to hold the extended step rigidly in place. The step shall be wired into door interlock system to automatically extend with door opening and retract with door closing. The step shall be manufactured of cast aluminum step plate 24" wide x 10-3/4" deep with a non-skid surface to provide traction and safety.

**Bidder Complies**

**YES_____ NO_____**

**ELECTRIC STEP OVERRIDE SW:** None

**DOOR JAMB SILL PROTECTION:** On the compartments specified below, the paint on the bottom horizontal portion of the door jamb shall be protected by a twenty (20) gauge minimum stainless steel protection plate. This plate shall originate at the toe of the door jamb lip (where it mates against the
skin), then forms around the lower flat surface, then forms up across the gasket mating surface and finally forms across the inner jamb surface and terminates where the compartment meets the jamb.
Rear Spineboard or Stairchair Compartment Bottom Door Jamb.

Bidder Complies      YES_____ NO_____
Right Front "ALS" Compartment Bottom Door Jamb.

Bidder Complies      YES_____ NO_____
BODY PROTECTION AND BRIGHT WORK
WHEELWELL DIAMOND PLATE: The wheelwell areas on both sides of the ambulance body shall be protected with the same design of diamond plate embossed aluminum treadplate material made up of .100 thick material. It shall be installed utilizing aluminum rivets to prevent electrosis from dissimilar metals. After the protective diamond treadplate is installed, the perimeter shall be sealed with silver silicone caulking material.

Bidder Complies      YES_____ NO_____
WIRE/HOSE COVER: The area between the back of the cab and the front of the module shall have a .100 aluminum diamond plate cover, attached to the frame rails, to protect any hoses and/ or wires routed in that location. In Addition, the cover shall be mounted to close-off the area with a finished appearance.

Bidder Complies      YES_____ NO_____
FUEL TANK COVER: The polished aluminum diamond plate cover shall be roll formed to contour match the fuel tank. The fuel tank cover shall originate from the top of the primary (Bottom) step, run vertically and roll form around the top corner and across the top of the fuel tank. The ends of the cover shall be continuously T.I.G. welded to the roll formed front and top. All fastening devices shall be secured to the tank support brackets. The filler neck shall be match drilled for open access to the filler cap. The edges of the filler access hole shall be capped off with an automotive edge molding.

Bidder Complies      YES_____ NO_____
PRIMARY STEP: The O.E.M. primary step shall be replaced with an aluminum "Diamond Back" or expanded metal extrusion that protrudes beyond the face of the fuel tank cover by at least five inches. This step shall be through bolted to both O.E.M. fuel tank support brackets.

Bidder Complies      YES_____ NO_____
SECONDARY STEP: A twenty six inch by seven inch deep step made primarily of aluminum "Diamond Back" or expanded metal extrusion shall be welded onto the fuel tank cover.

Bidder Complies      YES_____ NO_____#
REAR BUMPER
FRAMING: The rear step bumper shall exceed the current revision of KKK-A-1822. The bumper shall be framed in with ¼ x 2 x 4 6063-T6 aluminum rectangular tubing. The bumper shall be through bolted directly to the chassis frame.

Bidder Complies      YES_____ NO_____#
OUTER PONTOONS: The outer bumper ends (pontoons) shall be covered in .100 polished aluminum diamond plate. The outer corners shall be rounded. Each pontoon cover shall be through bolted to the bumper frame with stainless steel, pan-head, Phillips head, ¼-20 bolts and Nylock nuts.
DEPTH OF BUMPER: The rear bumper shall protrude from the rear surface of the module body to the rearward most metal surface by at least thirteen and one half inches (13 1/2") and not more than fourteen inches (14").

CENTER STEP: A flip up step shall be provided to allow closer access to the patient cabin floor. The step shall be as wide as the rear access door jamb. The step shall have aggressive traction. The step shall have a red/white reflexite reflective strip across the flip up step. A stainless steel piano hinge shall have a staked in, ¼" diameter pin, one inch knuckles and one Type-F ¼" through bolt every four inches.

Step, Bus Style: None

FENDER: The rear fenders shall be made of extruded rubber. The rubber fender mounting lip shall be reinforced with a radius matched 0.125 aluminum strip to promote even compression pressure between the fasteners. The mounting fasteners shall be 100% nylon bolt with 100% nylon nuts shall hold the fender to the body. The fastener centers shall not exceed ten inches (10).

SKIRT RAILS: The entire skirt-line of the body, forward and aft on the rear wheels shall have formed .375’ diamond plate skirt rails to protect the body. Each skirt rail shall meet current Federal Specification KKK-A-1822. Each rail shall be chamfered 45 degrees at both ends. There shall also be a series of twelve (12) rectangular holes, six (6) each side. Six (6) of the holes shall face outward and six (6) shall angle downward. The side facing shall be for warning lights and the downward shall be for ground lighting. The rails shall be fastened through the bottom of the rail into the bottom of the modular body. The rails shall not cut into the paint. They shall be mounted through nylon isolators in such a manner that they are spaced off the body.

SKIRTRAIL LIGHT SWITCHING: The above mentioned skirtrail LED lights shall be wired to activate by separate switch in cab console.

LED Ground Lights: (6) Kinequip White 8" LED lights, In Skirtrails

LED GROUND SWITCHING: The above mentioned LED Ground lights shall be wired to activate by separate switch in cab console and with any entry or compartment door

BODY CORNER POST PROTECTION: The lowest twenty four inches (24") of the corner post extrusions shall be protected against stones and road debris. The corner post guards shall be formed of .080 thick polished aluminum diamond plate, contour fit to the corner post extrusions and riveted into place. A bead of silver colored, silicone sealant shall be applied across the top edge of the guards. The
bottom of edge of the guard shall be left unsealed to promote moisture drainage.

Bidder Complies YES_____ NO_____  
FRONT OF BODY: The front of the body shall have skirt-line protection plates made of .080 aluminum diamond plate. The corner posts shall have form fit diamond plate protection height matched to the frontal plates. The height of the protection is twenty four inches up from the body skirt line.

Bidder Complies YES_____ NO_____  
REAR KICK PLATE: The rear kick plate shall be made of 0.100 inch thick polished aluminum diamond plate and run from corner post to corner post. The height shall be from the skirt-line of the body to the bottom door jamb on the rear access doors.

Bidder Complies YES_____ NO_____  
RECOVERY EYES: Two vertically oriented, heavy duty cast iron tow eyes with a one inch threaded stud shall be through bolted to a one half inch thick steel plate that is continuously welded to the end of the O.E.M. Frame. The recovery eyes shall be recessed into the kick panel so that the tangency of the eyes are co-planer with OR set back up to one inch. The recovery (tow) eyes shall not be trip hazard to personnel entering and leaving the rear access doors.

Bidder Complies YES_____ NO_____  
Access to the recovery eyes shall be made through a finished access hole through the Diamond plate "Kick panel" under the rear doors. The access holes shall be at least five inches in diameter and the edges of the holes shall be covered in automotive edge trim. The trim must be bonded to the kick plate in addition to the clamp on ribbing that shall be built into the trim.

Bidder Complies YES_____ NO_____  
RECESSED TAG AREA: The kick plate shall feature a centered and illuminated recessed area to mount a standard U.S. six inch high by twelve inch wide license plate. The recessed area must be located as specified below and aesthetically T.I.G. Welded around the perimeter of the opening. Threaded inserts and bolts to install the tag shall be installed and provided.

Bidder Complies YES_____ NO_____  
TAG LIGHT: The tag area shall be LED illuminated with the park light circuit.

Bidder Complies YES_____ NO_____  
Rear Deflector: NONE  
REAR ACCESS DOOR CHECKS: Rear access doors shall open at least 150 degrees. The door checks shall be 2 piece, heavy duty, cast aluminum, grabber type with gaskets. The door shall have a ½ round stock loop that plunges into a positive rubber/cast socket.

Bidder Complies YES_____ NO_____  
Mud Flaps Front: OEM  
REAR MUD FLAPS: Mud flaps behind both sets of rear tires shall be supplied and installed. The mud flaps shall be 1/4" thick natural rubber material. Each mud flap shall be sandwiched between the wheel well liner and a torque distribution plate. The torque distribution plate shall be at least .100 thick aluminum plate. Each mud flap shall be through bolted to the wheel well liner with at least three (3) one-quarter inch (1/4") diameter stainless steel bolt.
Bidder Complies  YES_____ NO_____

SNOW CHAINS: The specified ambulance shall have a set of Insta Chain Automatic Tire Chain System offering the traction of a single set of conventional snow chains at the flip of a dashboard switch, without having to stop the vehicle. An electric switch shall be mounted in the cab to activate an air solenoid mounted on the vehicles frame rail.

Bidder Complies  YES_____ NO_____

SNOW CHAIN COMPRESSOR: The specified snow chain system shall have the compressor to operate the system installed in the "M2" compartment.

Bidder Complies  YES_____ NO_____

SNOW CHAIN AIR SUPPLY TANK: The specified chains shall have an air supply tank that holds the compressed air generated by the compressor system. It shall be located between the chassis framerails.

Bidder Complies  YES_____ NO_____

SNOW CHAIN SWITCH: The specified chains shall have a safety switch in the dash that will activate the system. The switch shall require special activation so as not to be accidentally activated.

Bidder Complies  YES_____ NO_____

CORROSION: The anti-electrolysis procedure for any holes that are drilled for application of materials is to be as follows, after the hole is drilled, the opening(s) are to be treated with Tectyl 517 prior to installation of any fasteners to guard against any future corrosion.

EXTERIOR FASTENERS: All screw sites require a replaceable nylon insert for the fastener to thread into to isolate the dissimilar metals. Additionally each hole shall be treated with an Electrolysis Corrosion Control compound (Tectyl 517) prior to installation of the nylon inserts. All exterior screws shall be stainless steel.

Bidder Complies  YES_____ NO_____

BODY CORNER CAPS: The front and rear upper body corners shall include a cavity built into the aluminum body that shall not sacrifice the body integrity.

FRONT CORNER ICC LIGHTS: The front body corner caps shall include DOT approved compliant light fixtures with clear lenses. The lenses shall house ICC fixtures that include amber LED's to be mounted to the front and front corners. There shall also be additional LED lights that alternate red and clear within the light to act as additional warning lights.

Bidder Complies  YES_____ NO_____

FRONT I.C.C. LIGHT GUARD: The above mentioned clearance lights shall be provided with a guard manufactured of bright finish material. The guard shall protrude out past the light to protect them from debris.

Bidder Complies  YES_____ NO_____

REAR CORNER ICC LIGHTS: The rear body corner caps shall include DOT approved compliant light fixtures with clear lenses. The lenses shall house ICC fixtures that include red LED's to the rear
and rear corners. There shall also be additional LED lights that alternate red and amber within the light to act as additional warning lights.

REAR I.C.C. LIGHTS: Clearance lights shall be provided per FMVSS 108. The lights shall illuminate the height of the vehicle, and define the vehicle centerline. Three red lights shall be provided on the rear of the module and be populated with at least two LED's.

Bidder Complies      YES_____ NO_____

REAR I.C.C. LIGHT GUARD: The above mentioned clearance lights shall be provided with a guard manufactured of bright finish material. The guard shall protrude out past the light to protect them from debris.

Bidder Complies      YES_____ NO_____

CORNER CAP WARNING LIGHT SWITCHING: The above mentioned corner cap LED lights shall be wired to activate in Primary Only.

Bidder Complies      YES_____ NO_____

TAIL LIGHT GROUP: Highly conspicuous, Whelen, Package shall be provided as follows.

SIDE MARKER LIGHTS: Two Whelen 500 series Tail/Stop LED type side marker light shall be supplied and installed on the apparatus body per FMVSS and D.O.T. Standards. Each light shall be wired with the running to be the tail steady and the turn is to be the stop and flash. Each light shall be the manufacturer's fully populated model with light emitting diodes. The lights shall illuminate the end of the vehicle body.

Bidder Complies      YES_____ NO_____  

LIGHT SIZE: The light style shall be Whelen 600 series and shall be provided as follows.

TAIL LIGHT HOUSING: The 600 series tail lights described above shall be trimmed with a cast aluminum vertically mounted housing that is surface mounted to the rear of the modular body.

Bidder Complies      YES_____ NO_____  

STOP/TAI LLIGHT: The stop/tail light fixtures on the rear of the body shall be Whelen Brand series 600, Fully Populated Light Emitting Diode to operate as both tail and stop modes and shall be red when illuminated.

Bidder Complies      YES_____ NO_____  

TURN SIGNAL LIGHT: The turn signal light fixtures on the rear of the body shall be Whelen Brand series 600, Light Emitting Diode to operate as left and right turn signal lights and shall be amber arrow when illuminated.

Bidder Complies      YES_____ NO_____  

BACK UP SIGNAL LIGHT: The back up signal light fixtures on the rear of the body shall be Whelen Brand series 600, halogen light to operate as left and right back up signal lights and shall be clear when illuminated.

Bidder Complies      YES_____ NO_____  

LED TURN FLASHER REPLACEMENT: There shall be a load LED module installed in the system to allow the turn signals to flash at the proper rate.
LED LIGHT: There shall be a Whelen 500 Series LED Red light installed on the ambulance. Final location shall be determined by this department and noted on the final build order at confirmation.

AUXILIARY LED FOG LIGHTS: A pair of (8) LED fog lights shall be supplied and installed on the front bumper and center aligned with the front head lights. The 6”W x 3.5”H Rectangle light housings shall be installed. The switch shall be mounted in the cab console with the input of the switch powered with the ignition switch. The current draw for the lights shall not flow through the switch itself, but through a relay system. Vendors' proposed light shall be confirmed and approved by the agency prior to vehicle production.

AUXILIARY DRIVING/FOG LIGHT SWITCHING: The above mentioned lights shall be wired thru the chassis ignition and the conversion battery switch.

EXTERIOR FLOOD and LOAD LIGHTING:

SCENE LIGHT SWITCHING: The scene lights shall come on with two separate rocker switches labeled Right Flood and Left Flood, located in the center cab console controlled by the master switch. The right (curb side) scene lights shall also come on when the side entry door is opened.

RIGHT SCENE LIGHTS: Two scene lights shall be provided on the right side of the module. The lights shall be Whelen LED-24, 900 series. The scene light group shall meet or exceed current revision of the Federal specification KKK-A-1822.

LEFT SCENE LIGHTS: Two scene lights shall be provided on the left side of the module. The lights shall be Whelen LED-24, 900 series. The scene light group shall meet or exceed the present revision of the Federal specification KKK-A-1822.

REAR LOAD LIGHTS: Two rear load lights shall be provided on the rear of the module, above the rear access doors. The lights shall be Whelen LED-24, 900 series. The scene light group shall meet or exceed current Federal specification KKK-A-1822.

REAR LOAD LIGHT SWITCHING: The rear load lights shall come on with a separate rocker switch located in the cab console controlled by a master switch. The switch shall be labeled "Rear Flood" and shall control both rear load lights on the rear of the body and above the rear access doors. The rear load lights will come on when rear doors are opened.

Docking Lights: None

AIR CONDITIONER, SECONDARY SYSTEM: An auxiliary air conditioner (A/C) shall be supplied and installed in the patient area of the modular body. The A/C unit shall be a self-contained unit with a cooling output capacity of 12,000 British Thermal Units (BTU). The unit shall be mounted per the A/C unit manufacturer's specifications. The A/C unit shall run on one hundred fifteen volts, alternating current at a frequency of sixty Hertz. Current draw shall not exceed fifteen Amperes, including the compressor and the fan motor set on.
HIGH speed.

REFRIGERANT: The system shall operate on 24.5 ounces of R-22 freon.

THERMOSTAT: A built in thermostat, utilizing a capillary tube as a metering device, shall have a temperature range of sixty degrees Fahrenheit.

UNIT WEIGHT: The overall unit weight shall not exceed eighty-five pounds.

Bidder Complies YES_____ NO_____

PATIENT CABIN - AIR CONDITIONING SYSTEM: The air conditioning system specified herein shall be completely separate from the cab HVAC system. ALL components of the A/C (HVAC) system shall be MATCH SELECTED AND SOURCED from ONE air conditioning vendor.

Bidder Complies YES_____ NO_____

REAR AIR CONDITIONING EVAPORATOR: The module shall have an additional, self-contained A/C unit complete with an evaporator coil, heater core and a 12 volt blower. The blower shall consist of two concentrically located cylinder fans mounted on one common 12 volt motor. The fan shall be three speed and shall deliver 650 cubic feet of air per minute on high.

The unit shall be rated at least 32,000 British Thermal Units (BTU) in A/C Mode and 32,000 BTU in Heater Mode. The Vehicle A/C and Heat system must meet or exceed current Federal specification KKK-A-1822.

Bidder Complies YES_____ NO_____

CONDENSATION DRAIN PAN: A condensation pan shall be provided to collect water condensation from the evaporator coil. The drain pan shall be formed from 1/8 ABS plastic sheet and shall be listed (tilted) toward the drain fitting. The Evaporator unit shall be mounted so that the weight of the coil, case and blower assembly does not rest on the pan. Additionally the entire evaporator shall list toward the condensation drain fitting to enhance water flow to the drain hose. The drain hose shall be ½ I.D., collapse resistant and fiber reinforced polytubing. The hose shall be routed from the condensation pan to the street.

Bidder Complies YES_____ NO_____

HEATER HOSES: Heater hoses for the cab shall remain O.E.M.. 5/8 inside diameter, E.P.D.M. Nomex rubber hoses shall route from the O.E.M tie in point to the rear heater core.

Bidder Complies YES_____ NO_____

AIR CONDITIONING HOSES: All A/C Hoses shall meet Society of Automotive Engineers (SAE) J-2064. The discharge (High side) hoses shall not be less than 5/16 inside diameter (Size 6). The suction (Low side) hoses shall not be less than ½ inside diameter (Size 10). All hoses shall be A.S.T.M. Type D, with a thermoplastic inner liner (Nylon) that is protected by two textile reinforced braided elastomeric outer jacket. The hose shall be qualified for use with R-134A, R-404 and R-407. The hose specified herein shall be subjected to a battery of tests per A.S.T.M. D-380. The results shall be supplied by the hose manufacturer.

Bidder Complies YES_____ NO_____

RETURN AIR GRILLE: Installed around the Heat/AC unit shall be a perforated 13 gauge steel grille. The grille shall allow 156 inches of return air flow to the Heat/AC unit. The grille shall provide complete access to the Heat/AC unit. The grille to have a black powder coat finish. There shall be two
quarter turn locks supplied and installed on the grille. The locks shall have a black powder coated finish. Lock pawl activation shall be enabled with a round bitted key.

Bidder Complies YES_____ NO_____

PRE CARBON FILTER: The return air grille shall be supplied with a pre carbon filter that is designed to fit the slot within the grille. It shall be installed and shall not rattle. The filter shall be replaceable and/or cleanable by this department's fleet maintenance in the field.

Bidder Complies YES_____ NO_____  

CEILING DUCTED INSULATED AIR CONDITIONING DELIVERY: One duct shall route over the primary patient and attendant, and one shall run over the lap area of squad bench. Each duct shall contain four spherically adjustable registers, evenly spaced, total of 8. There shall also be two registers located directly behind the attendants’ seat.

Bidder Complies YES_____ NO_____  

REAR AC CONTROL / THERMOSTAT: The air conditioning and heat for the patient cabin shall be controlled by a thermostatically sensitive panel located in the action area console. The panel shall feature a three speed fan control switch, a system "heat-off-cool" switch and a variable temperature control. L.E.D. lights shall indicate "cool" and "heat" modes. A digital display shall indicate the patient cabin temperature.

Bidder Complies YES_____ NO_____  

LINER PANELS: The patient cabin head liner substrate material shall be one quarter inch thick, hardwood plywood. The substrate shall be covered with a minimum 28 mil thick gloss white laminate. An upholstered center panels shall provide access to ceiling wiring and be covered in the same upholstery type as the seat and back rest pads found on the squad bench and/or CPR seat.

Bidder Complies YES_____ NO_____  

INTERIOR LIGHTING

PATIENT CABIN DOME LIGHTS: The patient cabin shall have eight dual intensity, Kinnequip LED dome lights in the ceiling. The domes centers shall be aligned along two, four light banks. The left bank shall provide light directly over the patient; the right bank shall provide light directly over the aisle/squad bench. The dome lights and configuration shall meet current Federal Specifications KKK-A-1822.

Bidder Complies YES_____ NO_____  

INTERIOR LIGHTING

PATIENT CABIN ADDITIONAL LIGHTS: In addition to the dome lighting, four surface mounted round dome lights shall be installed centered between the right and left bank of dome lights. The lights shall be 12 Volt Kinnequip (7” Dia.) LED Dome Light or approved equal. A cutoff switch located in the action area panel will be installed.

Bidder Complies YES_____ NO_____  

FLUORESCENT LIGHT LOCATION: The aforementioned fluorescent light shall be located in the center panel of the patient cabin ceiling. The longitudinal light position shall emphasize light intensity on the patient.
Bidder Complies YES _____ NO_____

15 MINUTE TIMER: A variable 0 to 15 minute, spring wound, mechanical timer switch shall provide temporary illumination of the patient cabin for check out purposes. The switch input shall be wired directly to the vehicle batteries. The switch shall be located on the curbside wall, by the C/S access doors over the squad bench lid. The timer circuit shall comply with the latest revision of KKK-A-1822.

LIGHTS POWERED BY TIMER: The aforementioned timer shall power all of the fluorescent lights, mounted in the ceiling panels. The duration of the light shall vary with the setting of the timer.

Bidder Complies YES _____ NO_____

I.V. BAG HANGING HARDWARE, No 1: One self-contained recessed I.V. Hook assembly shall be installed in the ceiling. The I.V. Hook assembly shall fold and stow recessed in a cast aluminum housing. The hooks are to be spiral shaped to preclude I.V. Bag from falling off with push button release for each fluid bag. The I.V. Hook assembly shall hold (2) two bags of fluid. A rubber with velcro anti-sway device shall be included for IV retention, without depending on adjacent cabinetry. Located of the Primary patient, in the close proximity to the Head/Chest area of the patient.

Bidder Complies YES _____ NO_____

I.V. BAG HANGING HARDWARE, No 2: One self-contained recessed I.V. Hook assembly shall be installed in the ceiling. The I.V. Hook assembly shall fold and stow recessed in a cast aluminum housing. The hooks are to be spiral shaped to preclude I.V. Bag from falling off with push button release for each fluid bag. The I.V. Hook assembly shall hold (2) two bags of fluid. A rubber with velcro anti-sway device shall be included for IV retention, without depending on adjacent cabinetry. Located of the Secondary patient, in the close proximity to the Head/Chest area of the patient.

Bidder Complies YES _____ NO_____ 

RECESSED CURB SIDE OVER HEAD ASSIST RAIL: The rail shall exceed the current revision of current Federal specification KKK-A-1822. The rail shall be 1 ¼ diameter, 100% stainless steel and 72 inches long. All rail fittings shall be T.I.G. welded to the main rail. The rail shall be recessed in an ABS pan 1.5", located curbside of center pad.

Bidder Complies YES _____ NO_____

MODULE INSULATION: The module insulation, except the under the floor shall consist of material having the following characteristics, 8mm thick nonabsorbent, reflective and shall have an air cell core. The air cell core shall consist of one layer of polyethylene bubble film that is sandwiched between one (1) layer of 99 percent pure aluminum foil and white colored polyethylene film. The insulation shall be installed with at least ½ air space from exterior skins, exposed to direct sun light. The insulation thermal rate testing shall be conducted in accordance with A.S.T.M. E84-89A, A.N.S.I. 2.5, N.F.P.A. 255, U.B.C. 42-1, and U.L. 723. The walls shall not be less than R-15.0 down, R-7.31 Horizontally and R5.4 up. The insulation shall have a N.F.P.A. Class A and a U.B.C. Class 1 fire rating with a flame spread index of 20 and a smoke developed index of 30. The application shall include a single layer of the insulation on all four walls, doors, compartments, ceiling and floor.

Bidder Complies YES _____ NO_____

MODULE FLOOR INSULATION: The floor shall have 0.1875 inch thick mass loaded acoustical ethylene vinyl acetate material composite with 0.125 inch thick needled polyester attached to the inside floor surface to provide a noise reduction of 75%. A layer of 0.250 inch thick foil encapsulated micro-
cellular closed-cell polyethylene with a minimum R rating of 11.55. Patient compartment floor is now fully insulated for sound deadening and enhanced temperature control without increasing load height.

The total R value of the floor must be greater than or equal to 11.55.

Bidder Complies  YES_____ NO_____

OPTICOM: The ambulance shall include a 3M Brand Opticom unit with a switch in the console with an auto off if vehicle is taken out of drive gear.

Bidder Complies  YES_____ NO_____

FRONT ADDITIONAL LIGHTING: There shall be four additional lights on the front of the modular body. They shall be in line with the front body KKK-1822 required lights and in line with the KKK-1822 required lights. Two either side of the center light.

ALTERNATIVE LIGHT BAR PACKAGE
L.E.D. LIGHT HEAD AND COLOR: The four (4) light emitting diode color of the aforementioned light heads shall be two (2) CLEAR and (2) Super RED. The clear LED's shall be the linear design with a step mirror for full appearance of output.

Bidder Complies  YES_____ NO_____

Light: Whelen 900, Super CLEAR LED/CLEAR LENS, Programmable
Lens color of above light to be clear.

Bidder Complies  YES_____ NO_____

900 LED to be Clear.

Bidder Complies  YES_____ NO_____
The above LED light(s) shall be programmable to flash without an external flasher.

Bidder Complies  YES_____ NO_____
Light: Whelen 900, Super RED LED/CLEAR LENS, Programmable
Lens color of above light to be clear.

Bidder Complies  YES_____ NO_____
900 LED to be RED.

Bidder Complies  YES_____ NO_____
The above LED light(s) shall be programmable to flash without an external flasher.

Bidder Complies  YES_____ NO_____
ALTERNATIVE LIGHTBAR SWITCHING: The switching of the lighting package that makes up the alternative lightbar package shall be through the Primary/Secondary switching system. All red lights shall be through the primary side of the switch and any clear lighting (if optioned) shall be through the secondary side.

Bidder Complies  YES_____ NO_____
PUBLIC ADDRESS (Visual) WARNING LIGHTS
WARNING LIGHT FLASHER: There is not to be an external flasher unit. The LED warning lights shall each flash independently of each other. There shall be no preset flash pattern and it will not comply with the present revision of KKK-A-1822. This agency chooses to have this flash pattern as
feel that it is as effective as the required flash pattern incorporated within the verbiage of the present revision of KKK-A-1822.

Bidder Complies   YES_____ NO_____  
Flash Pattern: 
PRIMAR/SECONDARY SWITCH: The warning light system shall be controlled with a switch(es) located in the cab console. The switch(es) shall allow for "Off" position, "Primary" position, and "Secondary" position. Each output of the switch shall be indicated with a small red lamp, integrated in the switch legend area. The switch shall have an engraved, illuminated legend that clearly defines the function of the switch.

Bidder Complies   YES_____ NO_____  
WARNING LIGHT SPECIFICATIONS:
LIGHT HEAD FLANGE: Whelen bright, chrome (Flange), on all Whelen 9 x 7 light head(s).

Bidder Complies   YES_____ NO_____  
(2) Grille Lights: A pair of 5TIR-6 LED lights shall be mounted in a Cast Aluminum flanged housings on the grille supports and mounted in such a way as not to block air flow.

Bidder Complies   YES_____ NO_____  
Lights: (2) Whelen 5TIR6, RED LED/CLEAR LENS  
The LED (Light Emitting Diode) shall be red in color.

Bidder Complies   YES_____ NO_____  
Lens color of above light to be clear.

Bidder Complies   YES_____ NO_____  
Lights: (2) Whelen 5TIR6, WHITE LED/CLEAR LENS, Additional  
The LED (Light Emitting Diode) shall be white in color.

Bidder Complies   YES_____ NO_____  
Lens color of above light to be clear.

Bidder Complies   YES_____ NO_____  
(2) Intersection Lights - Front Fenders: 700 Series L.E.D. These light heads shall be Super LED with RED light emitting diodes. Whelen's optional bright, chrome like trim bezel (Flange), Part No 7EFLANGE shall embellish both light heads.

Flanges: (2) 700-Chrome Flange for lights above  
Lights: (2) Whelen 700, Super RED/CLEAR LED/CLEAR LENS, Programmable  
Lens color of above light to be clear.

Bidder Complies   YES_____ NO_____  
The above LED light(s) shall be programmable to flash without an external flasher.

Bidder Complies   YES_____ NO_____  
700 LED's light to be red/clear.

Bidder Complies   YES_____ NO_____  
(1) Front Center Upper Body Light: 900 Series Halogen with a Clear Lens
Bidder Complies      YES_____ NO_____
(2) Front Outer Upper Body Lights:  900 Series L.E.D. This light head shall be Super LED with RED light emitting diodes.
Light: Whelen 900, Super RED LED/CLEAR LENS, Programmable
Lens color of above light to be clear.

Bidder Complies      YES_____ NO_____  
900 LED to be RED.

Bidder Complies      YES_____ NO_____  
The above LED light(s) shall be programmable to flash without an external flasher.

Bidder Complies      YES_____ NO_____  
Light: Whelen 900, Super RED LED/CLEAR LENS, Programmable
Lens color of above light to be clear.

Bidder Complies      YES_____ NO_____  
900 LED to be RED.

Bidder Complies      YES_____ NO_____  
The above LED light(s) shall be programmable to flash without an external flasher.

Bidder Complies      YES_____ NO_____  
(2) Side Facing, REAR Intersection Lights:  700 Series L.E.D. These light heads shall be Super LED with RED light emitting diodes.
LOCATION: On the side of the module, over each rear wheel well opening on the ambulance body.

Bidder Complies      YES_____ NO_____  
Light: Whelen 700, Super RED LED/CLEAR LENS, Programmable
Lens color of above light to be clear.

Bidder Complies      YES_____ NO_____  
700 LED to be RED.

Bidder Complies      YES_____ NO_____  
The above LED light(s) shall be programmable to flash without an external flasher.

Bidder Complies      YES_____ NO_____  
STROBE SWITCHING: The above mentioned lights shall be wired to activate in Primary Only.

Bidder Complies      YES_____ NO_____  
(2) Rear Upper Body Lights:  900 Series L.E.D. These light heads shall be Super LED with RED light emitting diodes.
LOCATION: On the rear of the module, one in each upper outer corner inside of the structural corner post.
Bidder Complies      YES_____ NO_____
Light: Whelen 900, Super RED/AMBER LED/CLEAR LENS, Programmable
Lens color of above light to be clear.

Bidder Complies      YES_____ NO_____
900 LED to be RED/AMBER.

Bidder Complies      YES_____ NO_____
The above LED light(s) shall be programmable to flash without an external flasher.

Bidder Complies      YES_____ NO_____
(2) Rear Upper Body Lights: 900 Series L.E.D. These light heads shall be Super LED with RED light emitting diodes.

LOCATION: On the rear of the module, aligned with each upper window in the access doors. The light shall flash through the window when the doors are opened.

Bidder Complies      YES_____ NO_____
Light: Whelen 900, Super RED/AMBER LED/CLEAR LENS, Programmable
Lens color of above light to be clear.

Bidder Complies      YES_____ NO_____
900 LED to be RED/AMBER.

Bidder Complies      YES_____ NO_____
The above LED light(s) shall be programmable to flash without an external flasher.

Bidder Complies      YES_____ NO_____
(1) Rear Center Upper Body Light: 600 Series L.E.D. This light head shall be Super LED with AMBER light emitting diodes.
Light: Whelen 900, Super AMBER LED/CLEAR LENS, Programmable
Lens color of above light to be clear.

Bidder Complies      YES_____ NO_____
900 LED to be AMBER.

Bidder Complies      YES_____ NO_____
The above LED light(s) shall be programmable to flash without an external flasher.

Bidder Complies      YES_____ NO_____
ADDITIONAL WARNING LIGHTS: There shall be a pair of Whelen series 600 Super LED warning lights located in the rear kickplate vertically aligned with the rear brake lights. The lights shall be switched Primary and Secondary warning.

Light: Whelen 600, Super RED LED/CLEAR LENS, Non-Programmable
Lens color of above light to be clear.
Bidder Complies      YES_____ NO_____
600 LED to be RED.
LOCATION: The two lights mentioned directly above are located on the rear of the module in each upper outer corner.

ELECTRICAL SYSTEM 12 Volt - General

MODULE GROUNDING: A minimum of (2) two braided ground straps shall be through bolted to the chassis frame and the floor structure of the modular body. The bolts shall be at least 3/8 diameter. A flat washer shall be provided under the head of the bolt, over the strap lug. Additionally an internal tooth lock washer shall preclude loosening. Conventional stranded copper cables are not acceptable because they do not suppress RFI and does not meet SAE J551.

GENERAL GROUNDS: To comply with current Federal specification KKK-A-1822 plus enhance ground quality and reduce trouble shooting time, all devices wired within the ambulance conversion shall be centrally grounded. Each device shall have a separate ground wire routed to a central buss bar then grounded via fine strand cable to the module body. Local grounds are acceptable only when the device is drawing at or less than 100 milliamps (0.1 amps).

12 VOLT WIRE: All wires within the ambulance harnesses shall meet current Federal specification KKK-A-1822. All wire insulation shall be GXL cross-linked polyethylene. Permanent wire identification and wire function shall be printed on 4 centers along the full length of the wire. Wire conductors shall be stranded copper.

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.

ELECTRICAL NOTE: SPOT LIGHT: A hand held 140,000 candle power, 100 watt halogen spot light shall be provided in the cab. The housing shall be an impact resistant, one piece Unibody UV treated black colored neoprene. The light shall feature a momentary rocker switch to prevent the light from burning while not in the user's hand. This light shall feature a coil type cord that is at least three feet long retracted and fifteen feet extended. The weight of this light shall not exceed three pounds.

HANDHELD SPOTLIGHT LOCATION: The aforementioned spot light shall be hard wired to the center console. The light shall be enabled through the battery switch.
SAFE FORCE SYSTEM PRE-WIRE: The agency will install a Road Safety International "Safe-Force System". This system shall monitor vehicle related events and electronically record events, electronically apply them to a time line and transmit the results to a home base administrator's data base. This computerized system shall interact with some or all of the following: driver, ignition, turn signals, seatbelts, speedometer, tachometer, braking, acceleration, G-force sensors, emergency lighting, siren, reverse gear and backing spotters.

The ambulance manufacturer shall pre-wire for eleven digital inputs utilizing wiring supplied by ROAD SAFETY INTERNATIONAL, unless specified otherwise.

Bidder Complies YES_____ NO_____

MAIN SAFE-FORCE DEVICE: The "Safe-Force" device shall be provided and installed by the agency.

MAIN DEVICE LOCATION: The main device shall be located in the passenger's seat base; therefore ALL digital input wiring and antenna coaxial cable shall ORIGINATE in the passenger's seat base in the cab.

EXTERIOR BACK-UP SPOTTER SWITCH: The ambulance manufacturer shall supply and install a weather proof momentary switch purchased from ROAD SAFETY INTERNATIONAL.

LOCATION: The above switch shall be located on the rear of the module body, on the driver's side near the corner post extrusion and approximately 60 inches off the ground.

Bidder Complies YES_____ NO_____

INTERIOR BACK-UP SPOTTER SWITCH: The ambulance manufacturer shall supply and install a weather proof momentary switch purchased from ROAD SAFETY INTERNATIONAL.

LOCATION: The above switch shall be located inside the patient compartment, on the right rear cabinet face. The switch shall be located so the EMT in the rear can look out the rear window and depress the switch.

Bidder Complies YES_____ NO_____

DRIVER IDENTIFICATION DEVICE: The ambulance manufacturer shall supply and install a Driver Identification device with speaker. The device shall be purchased from ROAD SAFETY INTERNATIONAL.

LOCATION: The above speaker/driver ID shall be located in the ceiling panel of the ambulance manufacturer's cab extension. The speaker shall be centered between the driver and passenger's seat.

Bidder Complies YES_____ NO_____

ANTENNA: A Safe Force Antenna Model No RS-3196 shall be supplied and installed on the cab roof. The coaxial cable entry hole shall be fitted with a water proof compression grommet specifically designed to route through a bulkhead. The coax entry hole shall be routed through the module front NOT the cab roof skin. The antenna, coaxial cable and connections shall be purchased from ROAD SAFETY INTERNATIONAL.

LOCATION: The above antenna shall be located on the cab roof. Exact location shall be defined by ROAD SAFETY INTERNATIONAL for optimum performance.
BATTERY SWITCH: A conversion disconnect switch shall be supplied. Constant battery power shall be supplied for device memories. None of the chassis functions shall be effected by this switch per Fords Qualified Vehicle Modifiers program, bulletin No 63. Additionally, an indicator light shall illuminate on the cab console panel.

BATTERY JUMPSTART: There shall be a remote mounted Anderson style connector plug mounted on the exterior of ambulance chassis for hook up direct to batteries from an external source. The final location of this shall be determined by this agency for ease of operation. There shall be a set of cables built and shipped with the unit that consist of Anderson style connector on one end to match the end on the remote setup and jumper cable “Alligator” clamps on the other end. The cables shall be approximately 12’ long.

BATTERY JUMPSTART LOCATION: Front Bumper Area.

CAB DOME LIGHT: There shall be a RED LED 2” dome in the cab ceiling. The light shall be 12vdc and activate when any cab or module door is ajar. The light shall be wired to be battery switch hot.

POWER MODULE DOOR LOCKS: Each compartment and/or entry doors listed below shall Lock or Unlock with a single depression of a momentary switch. Each door shall be fitted with a bidirectional, momentary electric solenoid designed to operate a mechanical rod in a linear fashion. The rod shall mechanically interface with the door lock mechanism inside the door. All rod connections shall be designed for high cycle operation without mechanical disconnection. The battery compartment shall NOT have the power lock/unlock feature. This compartment shall remain key operated.

DOOR LOCK SWITCH: A momentary single pole, double throw rocker switch shall be supplied in a switch panel and located on the curb side wall near the side entry door. The panel shall be accessible from the street without getting into the module. The panel shall include an engraved legend that describes the function of the switch. The legend shall illuminate with the park light circuit.

The following doors shall have power door locks:
  Left Front Compartment
  Left Middle Compartment
  Left Rear Compartment
  Rear Left (Back Board) compartment
  Rear Access Doors
  Right Rear Compartment
  Curbside Access Door
  Right Front Compartment

DOOR LOCK SWITCHES:
Bidder Complies YES_____NO_____

HIDDEN DOOR LOCK SWITCH: A weather proof momentary switch shall be installed, concealed from view. Located in the OEM grille area.

Bidder Complies YES_____NO_____

BATTERY CHARGER: The ambulance chassis batteries shall be wired into an onboard Kussmaul Auto Charge 4000 Battery Charger system through the shoreline power. When the vehicle has the ability to be connected to 125vac household current through the shoreline that is specified within these specifications, the Kussmaul Auto Charge 4000 shall properly charge and condition the chassis batteries so that they will maintain the voltage and amperage required to operate the ambulance conversion properly.

Bidder Complies YES_____NO_____

CAMERA SYSTEMS: Back Up Camera: Rear View Camera Systems Model # RVS-770616N or equivalent. This system is complete with a crystal clear color DIGITAL 7 inch TFT-LCD monitor with distance grid lines and mirror image capability, two (2) Side CCD cameras with 120° viewing angle with 50 foot infra-red night vision, 1 heavy duty CCD 130° angle back up camera with 18 built in Infra-reds and all the wires, connectors and mounts you will need. The system is completely weatherproof with an IP69K rating, strong and reliable, shock resistant, with a 20G vibration rating (highest in the industry), and comes with a full year warranty. System can be upgraded to the Quad View Monitor where multiple cameras can be viewed simultaneously. Note: If you select a quad view monitor you will receive a power harness (RVS-504) instead of a multiplexer (RVS-501N)

EXTERIOR: Installed Over rear doors
Installed on Street-side and Curb-side over rear wheel at the top of box

PATIENT COMPARTMENT CAMERA:

Federal CAMCCD Bullet Style (Grab rail Recess) or equivalent
(1) CAMR-CAMCCD
(1) ADAP-31100041
Camera Mounted Toward: Rear (Faces Forward)
Circuit Protection, 12V: FET - Auto-reset
Main Switch Panel Location: In Cab Console and connected to Rear View Camera System monitor with microphone

Bidder Complies YES_____NO_____

CAB MONITOR MOUNT: The vehicle shall include an ABS monitor housing, mounted on cab ceiling.

Bidder Complies YES_____NO_____

CIRCUIT BOARD: The single relay control board is a fully integrated relay control board designed and built to IPC Class 3* guidelines. The VF4 style socketed relay is rated at 20A at 24 VDC with built-in on-board diode suppression. Three status indicators for Blown Fuse, Coil Power and Load allow for intuitive operation and troubleshooting. Also included is a medium sized ATO blade style fuse / circuit breaker holder that is rated for 20A. Wiring connections are made via a WAGO Cage Clamp removable lockable connector, which provides a secure, vibration proof and corrosion resistant wire termination. Installation time is reduced by as much as 75%. All of these features are mounted in a 2”x2” DIN Rail mountable package. Clearly, the Single Relay Control Board is a best-in-class
solution for Emergency Vehicle relay applications.

Bidder Complies   YES_____ NO_____

MASTER SWITCH: The patient area master switch shall be located in the cab switch console.

Bidder Complies   YES_____ NO_____

CIRCUIT BREAKERS: All conversion related circuits shall be protected with manual reset blade breakers. The value of the breaker for each circuit shall not exceed 75% of the rated capacity of the weakest component in the circuit.

Bidder Complies   YES_____ NO_____

LOAD MANAGER: Sequential switching of lamp loads is extremely important on this vehicle. An "Emergency Master" switch that simultaneously energizes a large number of lights can momentarily reduce the vehicle's voltage. Similarly, the simultaneous removal of these loads can cause high alternator output voltage transients which may damage sensitive electronic equipment. The LOAD MANAGER sequencer assures that loads are applied and removed gradually, thus eliminating the possibility of inducing failures in the vehicle's equipment.

The load manager shall be a precision, solid state controller which sequentially switches "ON" seven relays at 1/2 second intervals. Individual switches shall enable the operator to select output "ON" or "OFF" status, at any time. The sequencer shall be initiated by the "Emergency Master" switch. The sequencer priority shall be set at the pre-build conference.

The aforementioned LOAD MANAGER shall monitor the vehicle's battery voltage. When the electrical loads have exceeded the charging system output, the voltage falls. When the voltage falls to 11.5 volts, the LOAD MANAGER will begin to shed up to five loads. The load shed priority shall be set by the circuit significance, followed closely by circuit draw. The LOAD MANAGER will shed loads until the voltage level begins to rise. A LOAD MANAGER bypass switch shall be installed on the circuit board to override.

The device Warranty shall be covered by the device manufacturer for a period of three years.

Bidder Complies   YES_____ NO_____

FLASHER UNIT: There shall be a 14S flasher unit installed to allow the indicator lights to flash in the cab console.

Bidder Complies   YES_____ NO_____

CAB CONSOLE: An ergonomically designed console with a A-A plywood substrate shall be contour matched to the cab floor. The console shall be a parallel wall design with a twelve and one half inch over all width. End panels and center console bulkhead panels shall add rigidity and squareness to the console. The substrate shall be laminated per the following finish specification.

Computer supplied mount to be installed on front of console
Drink Holder: (2) In Cab Console, Big Gulp Size
Drink Holder Location: Front
Note Book Slot: Single - Full width by 6" wide
Double removable Lexan Divider(s)
Armrests, Padded, For Cab Seat, On center console
Glove Storage: (4) Glove Box Storage Across Rear
Console Finish: Black, Textured "Easy Grip"
Bidder Complies    YES_____ NO_____ 
HOUR METER: A hourmeter shall be included with the chassis. It shall be OEM on chassis and not an aftermarket system. The gauge shall be readily visible for a technician to view for record keeping as part of the OEM gauge cluster.

Bidder Complies    YES_____ NO_____ 
SWITCH PANEL, CAB CONSOLE: A switch panel made from 3/16 thick, translucent, acrylic sheet. The acrylic material shall evenly disperse label, indicator illumination. The Sheet shall be coated with a black colored, rigid plastic film. A CNC router shall engrave, permanent switch legends, switch holes, meter holes, and indicator legends. The switches shall be organized in two rows. The top row shall start with an Emergency Master, followed by all of the emergency related switches. The bottom row shall start with a Master Switch, followed by all of the nonemergency related switches.

Bidder Complies    YES_____ NO_____ 
CUSTOM LOGO: The manufacturers' logo shall be engraved at the top of the main cab switch panel. The logo shall be to scale and back lighted with the head light switch.

Bidder Complies    YES_____ NO_____ 
COMPARTMENT AJAR INDICATOR LIGHT: A back lighted "Compt Open" light shall be engraved in the cab console's main switch panel. This light color shall be AMBER. The light shall meet current Federal Specification KKK-A-1822.

INDICATOR LIGHT FUNCTION: The door ajar indicator light shall flash when two conditions are met:
1) The main conversion power switch is turned to the ON position.
2) Any compartment or entry door is opened. 
The door ajar light shall come ON with a door that is not COMPLETELY latched.

Bidder Complies    YES_____ NO_____ 

INDICATOR LIGHT FUNCTION: The "Amb Pwr" indicator light shall burn steady when the main conversion power switch is turned to the ON position.

Bidder Complies    YES_____ NO_____ 
DOOR AJAR INDICATOR LIGHT: A back lighted "Door Ajar" light shall be engraved in the cab console's main switch panel. This light color shall be RED. The light shall meet current Federal Specification KKK-A-1822.

CAB CONSOLE FINISH: The console body shall be finished with a 20 mil Easy Grip film. The Easy Grip shall be a self-adhesive as well as bonded to the substrate with high bond contact adhesive. The laminate shall bond tight to the radius corners and contours of the console body. All joints shall be inconspicuous and bonded along the edges.

Bidder Complies    YES_____ NO_____ 
BACK UP ALARM: The apparatus shall include a 97 to 107 decibel back up alarm, activated by shifting into reverse.

CUT-OFF SWITCH, BACK UP ALARM: The back up alarm shall include a momentary type cut off
switch to silence the alarm. The alarm enable circuit shall automatically reset when the transmission is shifted out of REVERSE, hence the back up alarm will sound when the vehicle is placed in REVERSE again.

Bidder Complies  YES_____ NO_____
GROUND STRAPS: Four (4) 7/8" wide by 1/8" thick, fine strand, woven straps shall provide a ground path from the module body to the chassis frame. Woven straps filter out RFI noise originating from alternators, strobe power supplies and other devices, that may find their way into intercom, stereo and two way communication radios. Each end of the ground straps shall be through bolted with 3/8" diameter, grade 5 or 8, hex head bolts and lock nuts. Each connection site shall be cleaned to the bare metal prior to fastening the strap. The connections shall have a dielectric anti corrosion spray applied.

Bidder Complies  YES_____ NO_____
125 VAC to 12 VDC CONVERTER / BATTERY CHARGER No 1: A IOTA Engineering, L.L.C., Model DLS-15 Converter with a 15 ampere output capacity shall be supplied and installed. The device shall convert a 125 Volt, 60 Hertz Alternating current input into 13.4 to 13.6 Volt Direct current. The device shall provide clean, constant D.C. Power. When specified below this device shall be capable of serving as a battery charger that charges up to its full output capacity and tapers back the output to a maintenance mode depending upon the need of the batteries.

This DLS series battery charger/power supply shall be designed with high quality components that have life span ratings of up to ten years of continuous use. This device shall feature self-protection features including:
1) A.C. Input Protection: protects against damaging spikes (up to 190 Volts) A.C. That may come from line or generator.
2) Reverse Battery Polarity Protection: protects against incorrect wiring hook up with fuses that can be easily replaced.
3) Brown Out Input Protection: protects against input spikes created by temporary or intermittent loss of input power.
4) Over Current Protection: protects against supplying too much output current.
5) Over Temperature Protection: protects against thermal damage with a unique proportional fan control circuit that turns on a whisper quiet when the unit reaches 35 degrees Fahrenheit (35 degrees Celsius).

Warranty: The device shall be covered by the manufacturer for a period of two years against defects in materials or workmanship from the date of retail delivery. An alternate charger / Converter may be supplied provided the alternate is equal in function, warranty and the alternate device has been approved by the agency prior to production.

Bidder Complies  YES_____ NO_____
Located in the M2, second back street side compartment.

Bidder Complies  YES_____ NO_____
CONVERTER TO POWER: The aforementioned converter/charger shall power the fluorescent specified within these specifications when the shoreline is connected and the aforementioned converter/charger has 110vac power.

Bidder Complies  YES_____ NO_____
12 VOLT POWER INVERTER: A highly reliable Vanner 1050CUL electronic power conversion unit that utilizes MOSFET power semiconductors and a microprocessor controller shall be supplied, installed and wired to the outlets specified herein. A Built in 30A automatic transfer switch shall
transfer all loads from the inverter to the shore line, when the shore line cord is plugged into 125 vac shoreline power. The device shall convert 12 volt DC battery power into 1,050 watts of precisely regulated modified sine wave 125 volt AC power. The device shall hold output power between 114 volts and 126 volts AT a frequency of 59.9 to 60.1 Hertz.

The device shall not consume more than 105 amperes at 12 volts direct current (DC). The device shall be certified by Underwriters Laboratories to the present revision of the Federal Specification KKK-A-1822. The location of the inverter is specified below.

Bidder Complies YES_____ NO_____  
POWER SOURCE FOR PORTABLE EQUIPMENT No 1: Positive and Negative polarity fourteen gauge wires shall be supplied and installed for subsequent storage of portable equipment. The wires shall have 36" tails and be barreled off and protected by a tem (10) ampere automatic reset circuit breaker.  
LOCATIONS: The power sources shall be located (1) console, in the cab and (1) behind the A/A panel.

Bidder Complies YES_____ NO_____  
POWER SOURCE: The aforementioned power provision shall be fed off of the output of the ignition switch or when the battery charger/conditioner is connected to the shoreline.

BATTERY CHARGER/CONDITIONER: When the system is connected to shore/utility power, the battery charger (built into the aforementioned inverter) will automatically charge the batteries, then keep them fully charged. The system's microprocessor controls the charging sequence, starting with the high charger (55 Amp) mode. When the batteries are fully charged, it switches to the ready/maintenance mode to keep the battery "topped up". The battery charger shall be designed to charge either lead acid flooded (wet) or gel type batteries.

Bidder Complies YES_____ NO_____  
BUILT-IN BATTERY CHARGER: The aforementioned built in battery charger shall be wired to the vehicle batteries to allow charging/conditioning when the shoreline is energized.

Bidder Complies YES_____ NO_____  
The power inverter shall reside in the left front middle compartment.

Bidder Complies YES_____ NO_____  
CARBON MONOXIDE DETECTOR: While a carbon monoxide detector will detect incomplete oxidation during combustion in gas ranges and unvented gas or kerosene heaters that may cause high concentrations of Carbon monoxide in indoor air. Worn or poorly adjusted and maintained combustion devices (e.g., boilers, furnaces) can be significant sources, or if the flue is improperly sized, blocked, disconnected, or is leaking. The main cause for concern in the ambulance is due to auto, truck, or bus exhaust from attached garages, nearby roads, or parking areas can also be a source. The unit shall be installed in the patient area and wired 12v into the ambulance conversion system.

Bidder Complies YES_____ NO_____  
LOW VOLTAGE INDICATOR: There will be an amber indicator light located in the cab console to illuminate if the vehicle voltage drops below 11.8 volts DC. If the voltage remains under 11.8 volts DC in excess of 120 seconds, there shall be a warning buzzer in addition to the light.
DUAL HEAD MOTOROLA VIPER XTL2500 SHALL BE MOUNTED 1 (ONE) in the Cab of truck and 1(One) in the patient care compartment per county specs: Radios will be provided by county.

1 (One) Inmotion cellular mobile device shall be installed by vendor per Moore County Specs and location. Inmotion Device will be provide by the County.

Install and wire Knox Med Vault on Action Area cabinet. Knox box will be supplied by the County of Moore.

POWER SOURCE FOR COMMUNICATION RADIO(S) No 1: Positive and Negative polarity ten gauge wires shall be supplied and installed for subsequent installation of communications radio(s). The wires shall be barreled off and protected by a thirty (30) ampere automatic reset circuit breaker.

POWER SOURCE: The power provision shall be fed off of the output of the conversion main power (Battery) switch.

LOCATION: The aforementioned power source shall be located in the center console, in the cab.

POWER SOURCE FOR COMMUNICATION RADIO(S) No 2: Positive and Negative polarity ten gauge wires shall be supplied and installed for subsequent installation of communications radio(s). The wires shall be barreled off and protected by a thirty (30) ampere automatic reset circuit breaker.

POWER SOURCE: The aforementioned power provision shall be wired directly to the main vehicle batteries.

LOCATION: The aforementioned power source shall be located in the center console, in the cab.

POWER SOURCE FOR COMMUNICATION RADIO(S) No 3: Positive and Negative polarity ten gauge wires shall be supplied and installed for subsequent installation of communications radio(s). The wires shall be barreled off and protected by a thirty (30) ampere automatic reset circuit breaker.

POWER SOURCE: The power provision shall be fed off of the output of the conversion main power (Battery) switch.

LOCATION: The power source shall be located behind the Action area control panel in the patient cabin.

POWER SOURCE FOR COMMUNICATION RADIO(S) No 4: Positive and Negative polarity ten gauge wires shall be supplied and installed for subsequent installation of communications radio(s). The wires shall be barreled off and protected by a thirty (30) ampere automatic reset circuit breaker.

POWER SOURCE: The power provision shall be fed off of the output of the conversion main power (Battery) switch.

LOCATION: The aforementioned power source shall be located in the left front middle compartment.
COMMUNICATIONS RADIO ANTENNA PRE-COAX No 1: This coaxial cable shall be RG58-U type. Leave an 18 service loop at the mod roof and a 36 tail at the interior termination point. A tag shall specify the other termination point for each coax provided.

ORIGINATION POINT: The Coaxial cable shall originate on the module roof. The port location shall be centered side to side and approximately 36" back from the front edge of the module roof.

TERMINATION POINT: The Coaxial cable shall terminate in the "Radio" cabinet behind the rearward facing attendant’s seat.

COMMUNICATIONS RADIO ANTENNA PRE-COAX No 2: This coaxial cable shall be RG58-U type same as #1.

ORIGINATION POINT: The Coaxial cable shall originate on the module roof. The port location shall be centered side to side and centered front to rear, on the module roof.

TERMINATION POINT: The Coaxial cable shall terminate in the "Radio" cabinet behind the rearward facing attendant’s seat.

COMMUNICATIONS RADIO ANTENNA PRE-COAX No 3: This coaxial cable shall be RG58-U type same as #1.

ORIGINATION POINT: The Coaxial cable shall originate on the module roof. The port location shall be centered side to side and approximately 36" forward of the rear edge of the module roof.

TERMINATION POINT: The Coaxial cable shall terminate in the "Radio" cabinet behind the rearward facing attendant’s seat.

CONDUIT No 1: An empty one and one half inch diameter conduit expressly designed to add wires after vehicle delivery by the end user or his/her authorized agent shall be supplied and installed. The conduit shall be have semi rigid, non-conductive liner that is free of inside ridges that can bind on the wire harness being pulled through the conduit. The outer jacket shall be a nonconductive, spiraled rigid coil designed to maintain the original shape of the liner, throughout the length of the conduit run.

ORIGINATION POINT: The aforementioned conduit shall originate in the cab behind the driver's seat.

TERMINATION POINT: The aforementioned coaxial cable shall terminate in the cab behind the driver's seat.

CONDUIT No 2: One and one-half inch diameter. The conduit quality shall be as described for conduit No 1.
ORIGINATION POINT: The aforementioned conduit shall originate in the cab behind the driver's seat.

TERMINATION POINT: The aforementioned coaxial cable shall terminate in the cab behind the driver's seat.

Bidder Complies      YES_____ NO_____

CONDUIT No 2: One and one-half inch diameter.
The conduit quality shall be as described for conduit No 1.

CAT 5 Cable Installed from C/S wall to Console
12V Prewire: Installed in Cabinet A4
125 VOLT - SHORE-LINE SYSTEM

SHORE LINE INLET No 1: The primary 125 Volt shore line inlet, rated at 20 Amperes shall be supplied. The plug style shall be a straight blade (NEMA 5-20P) style with a U-shaped ground. The inlet shall automatically eject the shore line connector when the vehicle ignition switch is placed in the START position. The shore line inlet shall employ a novel internal switch that closes and opens the 125 Volt circuit after the mating connector is inserted and before the connector is removed to eliminate arcing at the connector contacts. This will prolong the life of the inlet and the shore line connector. The inlet shall be protected with a weather proof cover.

INLET LOCATION: Aft of Left Front compartment.

Bidder Complies      YES_____ NO_____

BLOCK HEATER WIRING: The O.E.M. Block heater shall be wired to the shoreline. A 20 ampere, 125 volt female cord plug shall be supplied so that the block heater can be disabled during warmer months.

Bidder Complies      YES_____ NO_____

SHORELINE INDICATOR LIGHT: There shall be a green indicator light to power to the shoreline system within the ambulance body. The light shall be an LED 130v light fixture that is shock and vibration proof. The light fixture shall have a 100,000 hour life for long lasting service in the field. Being LED technology, the fixture shall have a very low heat generation. The LED indicator light fixture shall be located above the shoreline inlet.

Bidder Complies      YES_____ NO_____

SHORE LINE COVER: The shoreline inlet shall be protected with a Yellow weather proof cover.

Bidder Complies      YES_____ NO_____

SHORE LINE INLET: The primary 125 Volt shore line inlet, rated at 30 Amperes shall be supplied. The plug style shall be a twist-lock style (NEMA L5-30) with a ground. This will The inlet shall be protected with a weather proof, gray colored cover.

Bidder Complies      YES_____ NO_____

INLET LOCATION: Aft of Left Front compartment.
SHORELINE INDICATOR LIGHT: There shall be a green indicator light to power to the shoreline system within the ambulance body. The light shall be an LED 130v light fixture that is shock and vibration proof. The light fixture shall have a 100,000 hour life for long lasting service in the field. Being LED technology, the fixture shall have a very low heat generation. The LED indicator light fixture shall be located above the shoreline inlet.

INTERIOR 125 Volt Alternating Current (AC) OUTLETS:

125 VAC OUTLETS: The following outlets shall be UL listed, 125 Volt, Hospital grade, Straight blade NEMA 5-15R outlets. Each outlet shall be installed in a UL listed, recessed, galvanized steel back box with a minimum of one and three quarter inch of box depth. The outlet cover shall be stainless steel. The outlet and Back Box must be grounded and protected by a G.F.I. (Ground Fault Interrupted) Breaker. Additionally each outlet body must illuminate when power is applied to the outlet. Each Outlet shall be clearly labeled with a permanent RED colored decal defining the outlet voltage.

125 VAC OUTLET No. 1:
OUTLET LOCATION: This 125 Volt outlet shall be located in the patient cabin's, main "Action Area", on the back wall.
OUTLET ORIENTATION: The outlet shall be oriented Vertically in the location defined above. The U-shaped ground connector socket shall be at the TOP of the outlet.

125 VAC OUTLET No. 2:
OUTLET LOCATION: This 125 Volt outlet shall be located inside of the right front A.L.S. Cabinet. The outlet shall be mounted on the back wall of the cabinet (related to inside access) in the upper right corner. The location of the outlet shall be defined on the proposal drawings.
OUTLET ORIENTATION: The outlet shall be oriented Vertically in the location defined above. The U-shaped ground connector socket shall be at the TOP of the outlet.

125 VAC OUTLET No. 3:
OUTLET LOCATION: This 125 Volt outlet shall be located in the on the interior curb side, within the main wall panel and just above the top of the squad bench. The location of the outlet shall be defined on the proposal drawings.
OUTLET ORIENTATION: The outlet shall be oriented Vertically in the location defined above. The U-shaped ground connector socket shall be at the TOP of the outlet.

125 VAC OUTLET No. 4:
OUTLET LOCATION: This 125 Volt outlet shall be located in the on the interior curb side, within the main wall panel and just above the top of the squad bench. The location of the outlet shall be defined on the proposal drawings.
OUTLET ORIENTATION: The outlet shall be oriented Vertically in the location defined above. The U-shaped ground connector socket shall be at the TOP of the outlet.
Bidder Complies      YES_____ NO_____
125 VAC OUTLET No. 5:
OUTLET LOCATION: This 125 Volt outlet shall be located in the face of the main wall cabinet on
the street side of the patient cabin. The location of the outlet shall be defined on the proposal
drawings.

OUTLET ORIENTATION: The outlet shall be oriented Vertically in the location defined above.
The U-shaped ground connector socket shall be at the TOP of the outlet.

Bidder Complies      YES_____ NO_____
INTERIOR 12 Volt Direct Current (DC) OUTLETS:
12 VOLT OUTLET No 1: This outlet shall be a, 12 volt, direct current, 20 Ampere, automotive
"cigar" lighter size commercial outlet. This outlet shall be located and wired as specified below. The
outlet shall be separately protected and shall be electrically isolated from other electrical functions on
the vehicle. This outlet shall be wired per current Federal specification KKK-A-1822.

OUTLET LOCATION: This 12 Volt outlet shall be located in the patient cabin’s, main "Action
Area", on the back wall.

OUTLET ORIENTATION: The outlet shall be oriented Vertically in the location defined above.
The U-shaped ground connector socket shall be at the TOP of the outlet.

Bidder Complies      YES_____ NO_____  
POWER SOURCE: The input for the outlet shall be wired to the output of the battery switch.

Bidder Complies      YES_____ NO_____  
12 VOLT OUTLET No 2: This outlet shall be wired the same as outlet #1.
OUTLET LOCATION: This 12 Volt outlet shall be located in the patient cabin's, main "Action
Area", on the back wall.
OUTLET ORIENTATION: The outlet shall be oriented Vertically in the location defined above.
The U-shaped ground connector socket shall be at the TOP of the outlet.

Bidder Complies      YES_____ NO_____  
POWER SOURCE: The input for the outlet shall be wired exactly like outlet Number One.

Bidder Complies      YES_____ NO_____  
12 VOLT OUTLET: This outlet shall be a, 12 volt, direct current, 20 Ampere, automotive "cigar"
lighter size commercial outlet. This outlet shall be located and wired as specified below. The outlet
shall be separately protected and shall be electrically isolated from other electrical functions on
the vehicle. This outlet shall be wired per federal specification KKK-A-1822D 3.7.7.3.
POWER SOURCE: The input for the outlet shall be wired to the output of the battery switch.

Bidder Complies      YES_____ NO_____  
OUTLET LOCATION: This 12 Volt outlet shall be located inside of the right front A.L.S. Cabinet.
The outlet shall be mounted on the back wall of the cabinet (related to inside access) in the upper right
corner. The location of the outlet shall be defined on the proposal drawings.
ELECTRONIC SIREN: This apparatus shall be supplied with an electronic siren amplifier that has
been developed utilizing solid state components and is designed around silicon power transistors and
an output transformer. The siren shall have two amplifiers in one amplifier box AND an output for
each amplifier. Each output shall operate one 100 watt RMS speaker AND have its' own FUSE.
With EACH output fused, one output may remain functional even though the other output has ruptured its fuse.

A micro controller shall be used to create siren tones which then directly drive each amplifier. Using a micro controller, the siren tones are highly accurate. With two separate outputs, two DIFFERENT, SIMULTANEOUS siren tones may be output. The siren shall have an input voltage tolerance ranging from 11.0 to 18.0 volts without damage to the amplifiers.

The siren shall be controlled with a seven position rotary type function switch to select output tones or operating modes. The operating modes available shall be Phaser, Yelp, Wail, Hands Free, Manual, Alert, Radio Repeat. In addition, with the "Magnum Switch", other siren tones may be created in the "Magnum Mode" of this siren amplifier.

Phaser (PHSR) mode - shall be an ultra-fast warble tone used for maximum attention in highly congested areas.

Yelp mode - shall be a rapid warble tone used in light to moderately congested areas.

Wail mode - A normal rise and fall tone used on highways and areas with low traffic or consistent traffic flow.

Hands Free (HF) mode - Also known as the horn Cycler, allows the user to cycle through Wail, Yelp, Phaser and manually by depressing the horn ring. This function shall be wired to the horn ring through the auxiliary input terminal on the siren.

Manual - A silent mode that allows push-button Manual (MAN), push button Horn, and public address operation. The siren output winds down when the manual push-button switch is released.

Alert mode - A silent mode that allows push-button Manual (MAN), push-button Horn and the public address operation. The siren output terminates immediately when the Manual push-button switch is released.

Radio - Also known as radio repeat, this function amplifies a radio speaker input for rebroadcast outside the vehicle through speaker No 2. PA shall be available in this mode, but no siren tones.

A hand held microphone shall be provided for PUBLIC ADDRESS. The microphone shall be hardwired directly into the face of the control head. A Microphone surface mounted "Clip" shall be provided to the user loose. The Public ADDRESS microphone shall override all siren modes. A volume control for the public address mode shall be supplied and located on the siren control head. The power switch shall be controlled by a toggle switch. A manual override control button shall be provided for control of the output tone when the rotary switch is set in the "Manual" mode, "Air Horn" mode or "Yelp" mode. This switch is dependent upon the rotary switch setting.

The siren/Amplifier shall be designed with protection features. High voltage detection shall disable output to protect both the siren amplifiers as well as the speaker drivers. The siren shall provide inherent protection against damage from shorting or open output leads. Protection shall also extend against damage related to polarity of input power.
A Star Warning Systems Model SS-741-MG will comply with this specification.

Bidder Complies YES_____ NO_____

SIREN SPEAKERS: Cast Products model No SAD4315 and SAP4315 siren speakers shall be supplied and installed in the front bumper. Each speaker shall have a 100 watt driver and shall emit through holes in the F650 front OEM bumper. The horn shall feature a bumper contour matched bezel that provides a mounting rim large enough for four counter sink fastener holes. The ambulance manufacture shall use four (4) stainless steel, #2 phillips oval head 1/4-20 x 2" machine screws with stainless steel nylon type locking nuts, stainless steel split lock washer and flat washers to fasten each speaker to the bumper. The speaker manufacture shall provide exact placement and a cutout template. The rim of the speaker shall fit tightly around the entire perimeter of the speaker housing rim. The siren and speakers shall meet or exceed all performance criteria set forth in Federal specification KKA-A-1822D 3.14.6.

CUT-OUT TREATMENT: The cutout edges and bolt holes shall be treated with a corrosion inhibitor compound prior to final installation of the speakers.

Bidder Complies YES_____ NO_____

SIREN OR HORN SELECTOR SWITCH: The O.E.M. horn ring shall control the O.E.M. electric horn and the siren's manual momentary input controls. A switch shall connect the horn ring to either the O.E.M. HORN or to the SIREN. The switch shall be located in the cab console's switch panel. The switch legend that clearly defines the switch function shall be engraved in the switch panel. The legend shall be illuminated when the head light switch is on.

Bidder Complies YES_____ NO_____

AIR HORN SYSTEM: The apparatus shall be supplied with an authoritative sounding air horn system that is loud enough to overwhelm almost every usual audible distraction. The air horns shall, when enabled, emit a loud (138 decibel) signal with tremendous power for the duration of the users' depression of the Activation switch. The system shall contain two horns of UNEQUAL length to cover a wider frequency range.

AIR HORN ACTIVATION: The air horns shall be activated through a twelve volt solenoid valve. The solenoid valve shall feature an orifice size large enough to allow 20 CFM of air volume to pass through at fifty pounds per square inch of pressure. The solenoid valve shall be activated by a momentary foot switch. The solenoid valve shall automatically shut off when the foot switch is released. The foot switch shall be ENABLED as follows:

AIR HORN SUPPLY TANK: There shall be an air horn supply tank to store the air that is generated by the compressor to supply the specified horns. This tank that shall be determined by engineering and the air horn manufacturer shall be secured to the chassis framerails.

AIR HORN ACTIVATION REQUIREMENTS: The Emergency Master switch shall be activated for the air horns to be active.

AIR HORN ENABLE: The aforementioned air horn switch shall not activate the air horns, unless BOTH cab doors are closed. This is designed to prevent accidental discharge of the air horns by someone getting in and out of the passenger or driver's seat.

LEFT AIR HORN: The left air horn shall be a Buell-Strombos model No 1061. The horn shall feature all brass construction, hand spun brass bell, a stainless steel diaphragm and heavily chrome plated exterior finish. The horn shall emit 140 decibels at one meter with a frequency of four hundred
ninety three (493) Hertz.

RIGHT AIR HORN: The left air horn shall be a Buell-Strombos model No 1062. The horn shall feature all brass construction, hand spun brass bell, a stainless steel diaphragm and heavily chrome plated exterior finish. The horn shall emit 140 decibels at one meter with a frequency of three hundred ninety six (396) Hertz.

COMPRESSOR FOR AIR HORNS: A Buell Model No 6540 maintenance free, Oil-less Air compressor shall be supplied and installed. This intermittent duty (6 minutes ON, 25 minutes OFF) compressor shall be dedicated for the air horn use only.

The compressor shall generate 1.15 cubic feet per minute (CFM) of air volume at zero pounds per square inch and shall have a compression capacity of at least 125 pounds per square inch. The compressor shall run and stop automatically with a pressure switch that is set to come on at ninety five (95) pounds per square inch and SHUT OFF at One hundred twenty five (125) pounds per square inch. The compressor inlet port shall be filtered.

The compressor shall supply compressed air to a pressure vessel listed below. The pressure vessel shall not exceed 3.0 gallons (693 cubic inches) of volume. Amperage draw shall never exceed 18 amperes at 12.0 volts, even at start up.

AIR HORN LOCATION: One horn shall be located on each side of the cab hood just above the fenders and forward of the air intake vent on the driver's side. The right horn position shall mirror image the left horn position.

GENERAL CABINET CONSTRUCTION

SUBSTRATES: The interior cabinets and components shall be constructed of Formaldehyde free, exterior grade, A-A plywood. The glue line between the layers shall be phenolic based. The glue shall be of similar chemical make up to the phenolic glue used in Marine grade plywood, as designated by the A.P.A. (American Plywood Association). The exposed layers shall be hard wood on both sides of the sheet. The layers shall be 99% void free. Cabinet cases shall be made from at least (1/2) thick, 5-ply plywood. Bench lids and doors shall be made from at least (3/4) thick, 7-ply plywood.

Bidder Complies      YES_____ NO_____

CABINET INTERIOR FINISH: Cabinet interior shall be laminated with white colored, high impact, abrasion resistant laminate. The contact adhesive shall be a high bond contact adhesive, specifically designed to bond plywood to laminate. The laminate shall be at least 28 mills thick.

Bidder Complies      YES_____ NO_____

LAMINATE: A high impact, phenolic backed, high impact, and abrasion resistant laminate shall be used. The laminate shall be at least 45 mills thick. This material as well as all interior components shall meet or exceed F.M.V.S.S. #302 (Burn rate of interior components). Color selection shall be specified at the pre-build conference. Laminate Color shall be gloss white.

Bidder Complies      YES_____ NO_____

CABINET ASSEMBLY: To maximize fastener bite, cabinet substrate parts shall be stapled with pneumatic fired equipment. The length of the fastener shall be at least 2.25 times the thickness of the material being pierced through. In addition to staples, the entire cabinet assembly must be screwed
together with a minimum #8 screw size and a length not less than 2.25 times the thickness of the pierced substrate. Screw heads shall be countersink type and driven flush.

Reinforcement cleats shall be bonded to the inside corners where the backside of the face of the cabinet meets the case of the cabinet. The glue used shall be, yellow colored water proof resin type.

Bidder Complies YES_____ NO_____
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 padded or rounded corners. Rounded corners shall be at least .250 inch radius. Additionally rounded corners shall not compromise maximum cabinet assembly strength. The trim shall be bonded with a high strength adhesive.

Bidder Complies YES_____ NO_____
FIT AND FINISH: Mitered joints throughout the interior conversion shall have a gapless, hairline fit. Sliding polycarbonate door assemblies shall be scratch free and all edges shall be smooth and free of saw marks and sharp edges. Cabinet to cabinet joints shall not require more than 7/32 diameter welting to create a finished/well-fit look. Cabinets shall fit tightly against the ceiling as well.

Bidder Complies YES_____ NO_____
FUNCTION: Doors and drawers shall fit the opening. When specified, flush fitting doors shall have even door to opening gaps. All doors shall open and close bind free. Drawers shall slide in and out freely, without drag. All drawers shall be mounted on side mounted, full extension drawer slides, rated no less than 75 pounds per pair. All hinged wood core doors shall have positive latches. Additionally, high traffic, high cycle doors shall have adjustable tension, brass bodied catches. All hinged polycarbonate doors shall have adjustable tension, brass bodied catches.

Bidder Complies YES_____ NO_____
CABINET DOORS

SLIDING POLYCARBONATE DOORS: Polycarbonate shall hereinafter be identified as Lexan. Unless specified otherwise, all cabinets along the street and curb side of the vehicle shall have a mitered framed, sliding transparent Lexan door assembly. The polycarbonate shall be at least 3/16 inch thick. Each door shall be fitted with a full length, extruded aluminum door handle. The door pull extrusion shall also add bend resistance to the door. The door track/Frame extrusion shall incorporate a flocked natural rubber track insert to prevent the doors from sliding free during transit. Additionally the corners of the assembly shall have drive-in corner splines. Each spline shall be riveted into place. All extrusions shall be anodized.

Bidder Complies YES_____ NO_____
HINGED POLYCARBONATE DOORS: Polycarbonate shall hereinafter be identified as Lexan. The polycarbonate shall be at least 3/16 inch thick. The desired thickness shall be noted within this specification at each door location. The door orientation, hinge style and latch shall also be noted at each door location as well. The door edges shall be rounded and smooth since it will be the finished edge that will be visible.

Bidder Complies YES_____ NO_____
SOLID HINGED DOOR: When a solid door is specified, a 3/4” (19mm) thick door shall be supplied on the cabinet. The substrate shall be 7-ply, A-A (Cabinet grade), hardwood plywood. The door shall
be flush fitted to the opening and have uniform gap spacing around the perimeter of the door. The
door shall be hung on a continuous, stainless steel piano hinge with mounting screws, spaced every
two inches along the full length of the pre-punched hinge. The door shall be finished on both sides
with white cabinet liner laminate on the inside and the same colored mica as the cabinet facia on the
outside.

Bidder Complies  YES_____ NO_____
MICA COLORS: The mica color selection shall two tone. The upper two thirds of the cabinetry shall
be Light Gray with a Glossy finish. The lower third of the cabinetry shall be genuine stainless steel
with a brushed finish. The parting line between colors shall be straight, tight and clean. Mica edge
shall be routered clean, back filed and dry fitted prior to final lamination to the cabinet facia. Seam
quality showing evidence of using the "Factory Edge" shall be rejected. A sample of the subject mica
color and stainless steel finish shall be supplied at the post award conference.

Bidder Complies  YES_____ NO_____
STAINLESS STEEL APPLICATION: The lower section of the squad bench facia under the lid shall
be applied with the stainless steel laminate as well as the same height on the rear filler panel between
the squad bench and the rear doors.

Bidder Complies  YES_____ NO_____
STAINLESS STEEL APPLICATION: The lower section of the wall cabinet facia at approximately the
same height as the attendant seat cushion.

Bidder Complies  YES_____ NO_____
POLYCARBONATE COLOR: The polycarbonate throughout the vehicle shall be transparent with a
gray medium tint. All doors shall be at least three sixteenths of one inch thick (3/16"), shatter proof
and scratch resistant. The edges of the door shall be worked and burned smooth. The material shall be
flexible enough to be cold formed (Bent) at ninety degrees, without fracturing the material.

Bidder Complies  YES_____ NO_____
HANDLES, POLYCARBONATE DOORS: Full height, anodized aluminum, extruded drive on
handles shall be supplied on each 3/16" door. The handle shall wrap around the leading edge of each
door and mount with one way angular, blind mounting teeth designed to be driven on.

Bidder Complies  YES_____ NO_____
ATTENDANT SEAT: There shall be a high back captain's seat mounted in the patient area. The seat
shall have an integrated child safety seat with a pull down backrest and concealed 4-point child
restraint. The seat shall be mounted per the requirements in the latest revision of KKK-A-1822.
The seatbelt on the main part of the seat shall be an integrated, 5-point yellow Shroth-brand that is
supplied and tested by the seat manufacturer as a complete package.

Bidder Complies  YES_____ NO_____
SEAT BASE: There shall be a powder coated metal seat that is tested to be utilized with the
Emergency Vehicle Seating Child integrated Child Safety 4-point harness that is hidden behind the
removable back pad. The metal base shall be mounted to the ambulance floor and secured to modular
body sub-structure according to the manufacturer's guidelines.

Bidder Complies  YES_____ NO_____
AIR CONDITIONING EVAPORATOR CABINET: The patient cabin shall be equipped with a rear
air conditioning and heat unit. AC Unit to be located on the floor behind the Attendant seat. The
design shall provide adequate air return to meet or exceed the current revision of the Federal specification KKK-A-1822.

Bidder Complies YES_____ NO_____  
LEFT FRONT CABINET, CABINET "H": Cabinet "H" is the electrical cabinet behind the attendant seat on top of the AC Unit. This cabinet will house the modular electrical components to include two air vents in the door.

Bidder Complies YES_____ NO_____  
PLASTIC VENT: A fifteen square inch free air flow ventilation hole he cut into the above door. The edges of the cut out shall be banded. The hole shall be covered with an aesthetically appealing, molded plastic louver cover. The louver cover shall be black in color and secured with at least one No 8 screw in each corner.

Bidder Complies YES_____ NO_____  
SOLID HINGED DOOR: A 3/4" (19mm) thick door shall be supplied on the aforementioned cabinet. The substrate shall be 7-ply, A-A (Cabinet grade), hardwood plywood. The door shall be flush fitted to the opening and have uniform gap spacing around the perimeter of the door. The door shall be hung on a continuous, stainless steel piano hinge with mounting screws, spaced every two inches along the full length of the pre-punched hinge. The door shall be finished on both sides with white cabinet liner laminate on the inside and the same colored mica as the cabinet facia on the outside.

Bidder Complies YES_____ NO_____  
DOOR EDGE FINISH: The edges of the aforementioned door(s) shall be covered with anodized aluminum, U-shaped trim. The trim shall be mitre cut and wrapped around the perimeter of the door (On ALL four sides), including the hinged side. The trim shall be bonded to the door edge and clamped. No screws or other mechanical fastener shall be used to fasten the trim work to the door(s). The corners of the doors shall be broken (rounded) after application. Vinyl "Iron on" or mica edge banding is not acceptable.

Bidder Complies YES_____ NO_____  
HINGE ORIENTATION: The aforementioned door shall be hinged along the right edge of the door.

Bidder Complies YES_____ NO_____  
NON-LOCKING LATCH: A black positive latch shall be supplied and installed on the cabinet door. A small "preload" on the latch shall be imposed to prevent the door from rattling.

Bidder Complies YES_____ NO_____  
RIGHT FRONT CABINET:  

RIGHT FRONT CABINET: The right-front cabinet is hereinafter known as ALS cabinet.

All fixed and adjustable shelf surfaces shall be covered in Easy Grip material. All cabinet interior walls and ceiling shall be finished in white laminate. All fixed and adjustable shelf lips shall be covered with anodized aluminum trim. All shelves shall have a ¾ lip.

Bidder Complies YES_____ NO_____  
Cabinet I-1: This cabinet is located on the top section of the right front patient area.

CABINET I-2: The middle section shall be approximately 72% of the overall cabinet height. Must

Bidder Complies YES_____ NO_____

ROLL UP DOOR: There shall be a Robinson Shutter Style roll up door installed on the inside of the patient cabin to cover the Right Front ALS cabinet. It shall be the counterbalance style door with side tracks. The door shall form a coil at the top of the door opening which shall be hidden by the extended door header. This counterbalance style door is the only type of door that shall be acceptable so it leaves the back wall of the compartment unobstructed when the door is opened.

Bidder Complies YES_____ NO_____

PLASTIC VENT: A fifteen square inch free air flow ventilation hole shall be cut into the above door. The edges of the cut out shall be banded. The hole shall be covered with an aesthetically appealing, molded plastic louver cover. The louver cover shall be black in color and secured with at least one No 8 screw in each corner.

Bidder Complies YES_____ NO_____

OUTSIDE ACCESS: This cabinet shall have outside access through the right front compartment door.

INTERIOR COLOR: The above cabinet interior surfaces shall be laminated with high impact, 28 mil, white colored laminate.

Bidder Complies YES_____ NO_____

SHELF STANDARDS: The aforementioned cabinet shall be equipped with nonincremental, aluminum, C-shaped shelf standards.

Bidder Complies YES_____ NO_____

ADJUSTABLE SHELF: A shelf shall be supplied in the cabinet. The shelf shall be made of 1/2" thick, 5-ply plywood and finished in 28 mil white colored laminate. Both sides of the shelf shall be laminated. The shelf shall be secured to four shelf clips with Phillips head wood screws, from the bottom of the shelf. An anodized aluminum angle shall be securely fastened to the front edge of the shelf. The vertical leg of the angle shall provide a lip along the front edge.

Bidder Complies YES_____ NO_____

RIGHT REAR COMPARTMENT COVER:

RIGHT REAR COMPARTMENT COVER: All exposed surfaces of this patient area side of the M5 compartment shall be fully laminated with color keyed laminate. The vertical outer corner shall feature a radius anodized aluminum trim. The trim shall originate from the top of the mated squad bench and terminate into the ceiling.

UPHOLSTERY PAD: An upholstered pad covering the entire forward facing wall, over the squad bench shall be provided to protect occupants sitting on the squad bench. The pad shall include at least 1/2" thick foam padding covered in the same heavy duty vinyl covering specified for the squad bench cushions and the remaining upholstery package.

Bidder Complies YES_____ NO_____

SQUAD BENCH

SQUAD BENCH: A three seat squad bench shall be installed. Three sets of two point seat belts shall be supplied. The belts shall restrain three seated occupants or one secondary patient, on a back board.
All seat belts and anchorage shall comply with F.M.V.S.S. 209 and 210. The squad Bench shall comply with current KKK-A-1822. A back and head rest shall be supplied for all seated personnel along the squad bench.

Bidder Complies  YES_____ NO_____

BIO-WASTE RECEPTACLE: A biological waste receptacle shall be supplied and installed in the squad bench. The receptacle shall accommodate a sharps container and a solid waste container per the following paragraphs. Both the sharps and the solid waste containers shall be enclosed and secured in a molded enclosure, free of crevices. The molded enclosure shall be covered with a red lexan hinged door, inset a molded in perimeter rim. The door pull shall be full length. A white colored "Bio-waste" symbol and legend shall be applied to the door.

Bidder Complies  YES_____ NO_____

LOCATION: At head of Squad Bench on wall

SHARPS CONTAINER: A puncture proof, disposable sharps container located at the head of the squad bench with a 2 gallon capacity shall be supplied for safe disposal of used/contaminated syringes.

Bidder Complies  YES_____ NO_____

SQUAD BENCH LIDS: Two (Split) squad bench lids shall be supplied over the squad bench storage area.

Bidder Complies  YES_____ NO_____

RETAINER STRAP: One two inch wide webbed restraint strap shall be supplied in the compartment. The strap shall employ a buckle with a push button release. The strap is to be fastened to the compartment walls with a two inch footman's loop. The fastener is not to be fastened through the webbing material.

Bidder Complies  YES_____ NO_____  

2" FOOTMAN LOOP: There shall be a 2" footman loops located back from the jamb opening on the compartment

Bidder Complies  YES_____ NO_____  

SQUAD BENCH SEATING: The seating on the squad bench surface shall consist of a EVS approved seat with a 36” side to side sliding track system. The slide track mechanism shall be attached to the ambulance body structure and therefore shall not allow for storage space under the seating area due to required support structure.

Bidder Complies  YES_____ NO_____  

Squad Bench Seating: EVS 1790 with 5-point YELLOW Belt  

SEATING: The seating on the squad bench surface shall consist of a 5-point yellow belt as part of a 1790 Safe Line. The seat shall be vacuum formed for anti-bacterial safety.

Bidder Complies  YES_____ NO_____  

RESTRAINT NET: A detachable net shall be installed at the head of the squad bench. In the event of sudden stop or frontal accident, the design intent of the net is to minimize injuries to unbelted personnel seated on the squad bench. The net is a safety barrier between the occupant/personnel and the bulkhead cabinetry. The net shall be a grid of 2 wide safety web, spaced on maximum centers of 8 inches.

The net shall be secured at six points. All points must be secured to 0.250 inch thick Aluminum tapping plates; or body structure with wall thicknesses of 0.250 inch; or through bolted
cabinet interface reinforcement brackets that are bolted to 0.250 thick welded body structure. The net shall be tightly stretched and attached to the following surfaces:

- One point on the ambulance floor on the aisle side of the squad bench.
- One point at the top of the squad bench near the curb side wall.
- Two points at the curb side wall, near the side entry door.
- Three points in the ceiling.

All Restraint Net attachment devices shall be aviation quality and pull strength tested. Tested to 2,000 pound force applied in shear (Horizontally). Detachment of the net shall be done without the need for a removal or installation tool(s). Each device shall feature a cadmium plated steel attachment ring that is forged in one continuous ring, without a split or seam. Each device shall be sewn onto the net webbing with a 1 3/4 inch square shaped thread path and diagonal X-shaped thread path to assure web to ring security.

Bidder Complies      YES_____ NO_____
TOP (UPPER) CABINETS - Street side
CABINET "A": An upper, interior cabinet shall be provided directly over the rearward section of the Base wall cabinet. This cabinet shall accommodate a power air exhaust blower with a removable service panel. This multipurpose cabinet interior shall be finished in high impact, white colored laminate. Must meet current Federal specification KKK-A-1822.

Bidder Complies      YES_____ NO_____
SHELF STANDARDS: The aforementioned cabinet shall be equipped with nonincremental, aluminum, C-shaped shelf standards.

Bidder Complies      YES_____ NO_____
ADJUSTABLE SHELF: A shelf shall be supplied in the cabinet. The shelf shall be made of 1/2" thick, 5-ply plywood and finished in 28 mil white colored laminate. Both sides of the shelf shall be laminated. The shelf shall be secured to four shelf clips with phillips head wood screws, from the bottom of the shelf. An anodized aluminum angle shall be securely fastened to the front edge of the shelf. The vertical leg of the angle shall provide a lip along the front edge.

Bidder Complies      YES_____ NO_____
RESTOCKING FEATURE: The uppermost cabinets, shall have sliding polycarbonate doors. Additionally the entire framed assembly shall hinge upward 90 degrees to provide 100% access for the purpose of restocking the cabinet. The assembly shall be supported by a gas piston spring on each side and latched with two positive, slam action latches that are blind mounted behind each end of the window frame. The use of plywood in this assembly is not acceptable, due to lost access area.

Bidder Complies      YES_____ NO_____
CABINET "B": An upper, interior cabinet shall be provided directly over the "Action Area". This cabinet will be ergonomically angled towards the CPR seat. This multipurpose cabinet interior shall be finished in high impact, white colored laminate. Must meet current Federal specification KKK-A-1822.

Bidder Complies      YES_____ NO_____
SOLID HINGED DOOR: A 3/4" (19mm) thick door shall be supplied on the aforementioned cabinet.
The substrate shall be 7-ply, A-A (Cabinet grade), hardwood plywood. The door shall be flush fitted to the opening and have uniform gap spacing around the perimeter of the door. The door shall be hung on a continuous, stainless steel piano hinge with mounting screws, spaced every two inches along the full length of the pre-punched hinge. The door shall be finished on both sides with white cabinet liner laminate on the inside and the same colored mica as the cabinet facia on the outside.

Bidder Complies YES_____ NO_____
DOOR EDGE FINISH: The edges of the aforementioned door(s) shall be covered with anodized aluminum, U-shaped trim. The trim shall be miter cut and wrapped around the perimeter of the door (On ALL four sides), including the hinged side. The trim shall be bonded to the door edge and clamped. No screws or other mechanical fastener shall be used to fasten the trim work to the door(s). The corners of the doors shall be broken (rounded) after application. Vinyl "Iron on" or mica edge banding is not acceptable.

Bidder Complies YES_____ NO_____
HINGE ORIENTATION: The aforementioned door shall be hinged along the right edge of the door.

Bidder Complies YES_____ NO_____
LOCKING LATCH: A positive latch shall be supplied and installed on the aforementioned cabinet door. The latch shall be powder coated Black and be near flush when in the "Closed" position. The latch shall be fitted with a cylinder type lock that prevents door latch activation, when locked. Door latch activation shall be triggered by depressing a flush fitted release button that unlatches a lever. The spring loaded lever shall rotate about an axis near the surface of the door panel and extended a rotating pawl behind the latch side door frame. The depth of the pawl shall be adjustable to the latch side door frame. A small "preload" on the latch shall be imposed to prevent the door from rattling.

Bidder Complies YES_____ NO_____
BASE WALL CABINET

BASE WALL CABINET: The base wall cabinet is located on the Street side (Left side) of the patient cabin. The overall height of the Base Wall Cabinet shall be approximately 75% of the overall head room. This cabinet shall be built in ONE piece. The laminate along the facia shall be ONE piece on single color laminate selections.

A CPR Side Seat shall be provided on the street side aligned with the primary patient abdomen.

Bidder Complies YES_____ NO_____
ACTION AREA: The action area is a work surface located on the forward end of the Base Wall Cabinet and adjacent to the attendant seat. The work surface shall be at least 5.5 square feet. The work area height shall be 24 inches to 29 inches. The work surface shall have a three quarter inch (3/4") high lip.

Bidder Complies YES_____ NO_____
ACTION AREA TRAY: The entire action area work surface shall be covered with a 16 gauge, polished, 304 stainless steel tray. All four edges of the tray shall feature up turned lips measuring 3/4 inch high. The tray shall be applied to the action area substrate with adhesive. The edges of the stainless steel shall be protected with automotive edge trim.

Bidder Complies YES_____ NO_____
Trash Door under Action Area
CABINET "C": An interior cabinet shall be provided at the rear end of the base cabinet on the street side. This cabinet interior shall be finished in high impact, white colored laminate. Must meet current Federal specification KKK-A-1822.

Bidder Complies YES_____ NO_____

RESTOCKING FEATURE: The uppermost cabinets, shall have sliding polycarbonate doors. Additionally the entire framed assembly shall hinge upward 90 degrees to provide 100% access for the purpose of restocking the cabinet. The assembly shall be supported by a gas piston spring on each side and latched with two positive, slam action latches that are blind mounted behind each end of the window frame. The use of plywood in this assembly is not acceptable, due to lost access area.

Bidder Complies YES_____ NO_____

CABINET ACCESS: The above cabinet shall not be accessible through the outside of the module.

Bidder Complies YES_____ NO_____

SHELF STANDARDS: The aforementioned cabinet shall be equipped with nonincremental, aluminum, C-shaped shelf standards.

Bidder Complies YES_____ NO_____

ADJUSTABLE SHELF: A shelf shall be supplied in the cabinet. The shelf shall be made of 1/2" thick, 5-ply plywood and finished in 28 mil white colored laminate. Both sides of the shelf shall be laminated. The shelf shall be secured to four shelf clips with Phillips head wood screws, from the bottom of the shelf. An anodized aluminum angle shall be securely fastened to the front edge of the shelf. The vertical leg of the angle shall provide a lip along the front edge.

Bidder Complies YES_____ NO_____

CABINET "D": An interior cabinet shall be provided directly over the rearward "Telemetry Area just aft of the CPR side seat within the base cabinet on the street side. This cabinet will be ergonomically angled towards the CPR seat. This multipurpose cabinet interior shall be finished in high impact, white colored laminate. The cabinet shall be ergonomically angled toward the CPR seat. Must meet current Federal specification KKK-A-1822.

Bidder Complies YES_____ NO_____

SHELF STANDARDS: The aforementioned cabinet shall be equipped with nonincremental, aluminum, C-shaped shelf standards.

Bidder Complies YES_____ NO_____

ADJUSTABLE SHELF: A shelf shall be supplied in the cabinet. The shelf shall be made of 1/2" thick, 5-ply plywood and finished in 28 mil white colored laminate. Both sides of the shelf shall be laminated. The shelf shall be secured to four shelf clips with Phillips head wood screws, from the bottom of the shelf. An anodized aluminum angle shall be securely fastened to the front edge of the shelf. The vertical leg of the angle shall provide a lip along the front edge.

Bidder Complies YES_____ NO_____

RESTOCKING FEATURE: The uppermost cabinets, shall have sliding polycarbonate doors. Additionally the entire framed assembly shall hinge upward 90 degrees to provide 100% access for the purpose of restocking the cabinet. The assembly shall be supported by a gas piston spring on each side and latched with two positive, slam action latches that are blind mounted behind each end of the window frame. The use of plywood in this assembly is not acceptable, due to lost access area.
Bidder Complies  YES_____ NO_____

RESTRANNT SYSTEM(S): The Seat Belt System(s) shall be in the following locations:
There are to be two 2-point restraints on the Squad Bench.

Bidder Complies  YES_____ NO_____

SECONDARY PATIENT RESTRAINT SYSTEM: There shall be a location for a secondary patient
on top of the squad bench located on the curbside interior of the patient area of the ambulance. To
secure the patient there shall be three inertia style retractable straps that match up to three 9” sleeved
buckles on the face of the squad bench and sleeved retractors by the squad bench lid hinge. The straps
and buckles shall be mounted to comply with the pull test requirements in the present revision of
KKK-A-1822.

Bidder Complies  YES_____ NO_____

FLOOR AND SUBSTRATE: The floor of the module shall be (3/4) thick 7-Ply, Formaldehyde free,
exterior grade, A-C plywood. The glue line between the layers shall be phenolic based. The glue shall
be of similar chemical make up to the phenolic glue used in Marine grade plywood, as designated by
the A.P.A. (American Plywood Association).

Bidder Complies  YES_____ NO_____

FLOOR COVERING: The floor substrate shall be free of dents, voids and moisture prior to
application of the floor covering. The plywood substrate shall be 3/4” (19mm) 7-ply exterior grade
plywood. The substrate sheet shall be cut from a 60 inch wide by 144 inch long oversized sheet. No
substrate seams are allowed in high foot traffic areas. This means NO SEAMS are permitted within
132” of the rear access doors or near the side access door.

On longer bodies, the only ONE seam is permitted as long as the full length of the seam is located
directly over the center of a 0.250 x 2 x 3 box tube floor member AND the seam does not fall in the
aforementioned "High Traffic" areas.

The floor covering shall be one piece throughout the patient cabin regardless of the body length. The
flooring material shall be commercial grade sheet vinyl floor with diamond plate like impression on
the surface. The floor covering shall be Lonseal Lonplate II No 421 "Mica" (Light Gray).

Bidder Complies  YES_____ NO_____

FLOORING MAIN EDGE: The one-piece patient cabin floor covering material shall run the full with
of the aisle space plus roll up (3”) three inches along the Base wall cabinet, squad bench and the right
rear cabinet (when applicable). Both roll-up areas shall be recessed approximately 1/2" into the face of
the cabinets.

Bidder Complies  YES_____ NO_____

REAR THRESHOLD: The rear threshold shall be made of 16 gauge brushed stainless steel sheet.
The threshold shall conceal the end of the vapor sheet, sub floor, and flooring The threshold shall mate
to the top of the rear access door jamb and cover at least six inches of flooring. Installed over the
stainless steel threshold shall be Two 2.5” wide “nonskid” tape, strips applied. The color of the tape
shall be safety yellow with black diagonal stripes.

Bidder Complies  YES_____ NO_____

C/S THRESHOLD: The C/S threshold shall be made of .100 polished aluminum diamond plate.
COT MOUNT HARDWARE
PRIMAR Y COT MOUNT: The main cot mount shall be a dual position, Stryker model No 6377. The mounts shall be set in the center of aisle and seven inches (7) left of center position.  

COT FASTENER MOUNTING METHOD: All mounting bolts shall be 3/8" diameter, socket head cap screws with at least 16 threads per inch. All mounting blocks shall be supplied and manufactured by the cot mount manufacturer. The mounting blocks may protrude above the flooring surface by up to 3/16", as long as all of the edges are chamfered. The cap screws shall not protrude above the upper surface of the mounting block. 

All cap screws shall be through bolted through 1/2 (.500) inch thick, 6061-T-6 Aluminum plate structure. All cot plate structure shall be continuously welded to the floor structure members. Bolt tapping is acceptable ONLY over blind areas, where through bolting would require removal of the rear fuel tank AND access has been blocked off by permanent, critical structure or components. Plate tapping shall not be done unless the plate is at least one (1") inch thick. Mounting bolts shall not point toward fuel filler or fuel vent hoses, in accordance with good engineering practices set forth by the Society of Automotive Engineers and Ford’s Qualified Vehicle Modifiers’ program.

Bidders shall meet or exceed mechanical strength described in the minimum fastening method. Material thickness and/or through bolt criteria is mandatory even if the vendor has current certification to A.M.D. Standard 004 utilizing lesser materials.

Bidder Complies YES____ NO____

COT POSITION No 1: This cot position shall be set up for a primary wheeled cot set centered laterally (side to side) in the aisle. The longitudinal location shall be set 30 inches measured from the backrest of the attendant's seat (set all the way toward the front of the patient cabin) to the head of the primary cot frame, per current KKK-A-1822.

Bidder Complies YES____ NO____

COT LOCATION No 2: This cot position shall be set up for a primary wheeled cot set approximately eight inches left of center laterally (side to side) in the aisle or as close to the left side wall cabinet as practical. The longitudinal location shall be set 30 inches measured from the backrest of the attendant's seat (set all the way toward the front of the patient cabin) to the head of the primary cot frame, per current Federal KKK-A-1822.

Bidder Complies YES____ NO____

COT HOOK: A Stryker manufactured ramped hook derived of solid aluminum shall be through bolted to the threshold at the rear access doors. The design intent is to prevent accidental cot roll off during loading and unloading a one man cot. The hook shall snag a tubular drag bar that is built in to the cot frame. The cot hook shall be placed in a position where the under carriage of the cot can be erected and locked into place before release of the drag bar.

Bidder Complies YES____ NO____

OXYGEN, AIR and VACUUM SYSTEMS

OXYGEN HOSES: All oxygen system service hoses, fittings and devices shall be made of nonferrous materials. Hoses used to pipe Medical Oxygen shall be electrically non-conductive, ¼ inside diameter with an abrasion resistant, green 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. All hoses shall have a working pressure rating of at least 250 pounds per square inch.
square inch, withstand a system test pressure of 150 PSI / 1033 kPa test prescribed in current Federal specification KKK-A-1822. Each ambulance shall be tested.

Bidder Complies   YES_____ NO_____

OXYGEN OUTLETS - GENERAL: Each outlet shall be comprised of an "Inlet Box" and a "Latch Plate" as defined herein. The "inlet box" shall be a universal inlet service box with a 165 mm type "K" (3/8") OD Copper inlet pipe stub which is silver brazed to a brass, one piece, (1 5/16") inlet body. The "inlet box" shall be designed specifically for positive pressure gas service and feature a primary and secondary check valve. Each check valve shall be rated at 1,379 kPa (200psi).

The "Latch Plate" shall insert into the universal "Inlet Box". The "Latch Plate" is comprised of the outer cover plate and latching mechanism that will define the adapter type/Brand that will ultimately connect the patient to the oxygen system. The outlet cover shall be color coded GREEN in addition to having a clear permanent legend that identifies the gas type. Dual gas specific safety pins shall be integrated in the face of the outlet "Latch Plate" for safety.

Outlet adapter types shall be easily changed by simply removing the "Latch plate" specifically designed for brand "A" to brand "B" without any further plumbing changes.

As with all medical gas outlets specified herein, all outlets shall be hydrostatically tested and cleaned for oxygen service. All medical gas outlets specified herein shall be UL (Underwriters Laboratory) listed and CSA approved. All outlets will be subject to a line pressure of 50 P.S.I. And shall be leak tested at 150 P.S.I. Per Federal specification KKK-A-1822. Pressure drop across the outlet shall be less than 2.0 P.S.I. At normal working pressure.

Bidder Complies   YES_____ NO_____

OXYGEN OUTLET No 1: This outlet latch shall be designed to accept (Ohio) style, quarter turn / quick release adapters. This Oxygen outlet shall be provided where specified below.

LOCATION: The Oxygen outlet shall be located in the primary action area switch and outlet console.

Bidder Complies   YES_____ NO_____

OXYGEN OUTLET No 2: This outlet latch shall be designed to accept (Ohio) style, quarter turn / quick release adapters. This Oxygen outlet shall be provided where specified below.

LOCATION: The Oxygen outlet shall be located in the primary action area switch and outlet console.

Bidder Complies   YES_____ NO_____

OXYGEN OUTLET No 3: This outlet latch shall be designed to accept (Ohio) style, quarter turn / quick release adapters. This Oxygen outlet shall be provided where specified below.

LOCATION: The aforementioned Oxygen outlet shall be located in curb side wall, over the squad bench and near the curbside entry door.

Bidder Complies   YES_____ NO_____

PORTABLE CYLINDER BRACKET No 1: A Zico QR-D-2 or an approved, certified equal with the following minimum features and quality level shall be installed in the location specified below. This universal, adjustable portable cylinder rack shall be supplied and installed to accommodate one cylinder. The bottle rack shall accommodate either D-size or Jumbo D-size cylinders made of steel OR aluminum. The entire rack shall be constructed of heavy gauge stainless steel and aluminum alloy. The rack design shall include a stainless steel cylinder neck restraint that does not interfere with
oxygen regulator controls. A quick release at the top alleviates the need for a strap to secure the bottle in place. The rack shall be through bolted to reinforced, structural members or brackets that tie in directly to the body of the ambulance.

Bidder Complies YES _____ NO _____

MAIN CYLINDER RESTRAINT No 1: One user supplied M-size compressed, medical gas cylinder shall be carried and secured, vertically inside the left front exterior compartment. Cylinder rack shall be through bolted to the back wall. A rust free cylinder rack with (2) heavy duty pull style, web straps with quick spring loaded release shall be type tested to AMD Test 003 Oxygen Tank Retention system Test. The cylinder valve shall also be visible and accessible from the inside through a clear polycarbonate door.

Bidder Complies YES _____ NO _____

NECK STRAP: There shall be an additional webbed strap looped onto the racks upper most securing strap. The strap is to have two loops. The bottom loop will be the section secured to the upper most strap and the upper loop shall be secured onto the neck of the oxygen or medical air bottle to help secure it in place in the case of an upward exertion.

Bidder Complies YES _____ NO _____

CYLINDER TYPE: This rack shall be for a MEDICAL OXYGEN cylinder. The oxygen system input hose shall be suspended over this rack. This input hose shall feature a nonferrous 9/16-18 RH bottle nut and regulator barb. This connection shall comply with the diameter index safety system (DISS) set forth by the Compressed Gas Association (CGA) for safety.

Bidder Complies YES _____ NO _____

CYLINDER RACK LOCATION: The main oxygen cylinder shall be stored in the left front compartment. The cylinder rack shall be through bolted on the back wall, near the right hand wall of the compartment. The cylinder neck shall be visible and accessible through the viewing window.

Bidder Complies YES _____ NO _____

Cylinder Wrench: There shall be a cast aluminum main oxygen cylinder wrench installed in the compartment with the main oxygen cylinder rack. The wrench shall include a cable lanyard that secures the wrench to the compartment wall allowing enough length of cable to loosen and tighten the regulator fitting on the customer installed main oxygen cylinder. The wrench shall be stored in place with either a hat channel bracket or velcro to keep it secured while the vehicle is in motion.

Bidder Complies YES _____ NO _____

FLOW METER: One flow meter shall be supplied with Ohio style quarter turn to release adapters.

Bidder Complies YES _____ NO _____

REGULATOR: A fixed output medical regulator shall be supplied with the apparatus. The output shall be fixed a 50 psi. The regulator shall have a CGA 540 thread for the bottle and a 9/16-18 tpi threaded male connector for the input hose to the system.

Bidder Complies YES _____ NO _____

Vacuum (Suction) System, Rico RS-4X. ILOS (Includes Outlet)
(2) Vacuum (Suction) Outlets, Amico Ohio Style, (1) Included w/Rico

VACUUM OUTLET ADAPTER: An adapter shall be used to connect the vacuum line from the SSCOR 22000 system, when the container is plumbed through a Vacuum outlet. This vacuum outlet
shall be designed to accept the Ohio Diamond Vacuum quick disconnect adapter.

Bidder Complies  YES_____ NO_____  

SUCTION PUMP: The suction pump shall be installed in the left middle compartment, adjacent to the action area panel. The exhaust tube shall be routed to the outside of the vehicle. The pump shall be mounted on rubber vibration isolators to minimize any vibration noise emitted into the patient cabin. The pump shall provide a free air flow of at least 20 liters per minute and achieve a minimum of (11.81 in) Hg vacuum within four seconds after the suction tube is closed. This 49-state pump shall meet or exceed current Federal specification KKK-A-1822.

Bidder Complies  YES_____ NO_____  

SUCTION PUMP: The suction pump shall be installed in the left middle compartment, adjacent to the action area panel. The exhaust tube shall be routed to the outside of the vehicle. The pump shall be mounted on rubber vibration isolators to minimize any vibration noise emitted into the patient cabin. The pump shall provide a free air flow of at least 20 liters per minute and achieve a minimum of (11.81 in) Hg vacuum within four seconds after the suction tube is closed. This 49-state pump shall meet or exceed federal specification KKK-A-1822D 3.12.3.

Bidder Complies  YES_____ NO_____  

SUCTION PUMP LOCATION: The suction pump shall be installed in the left front middle compartment. The pump shall be mounted to the ceiling of this compartment on rubber vibration isolators.

Bidder Complies  YES_____ NO_____  

SUCTION PUMP LOCATION: The suction pump shall be installed in the left front middle compartment. The pump shall be mounted to the ceiling of this compartment on rubber vibration isolators.

Bidder Complies  YES_____ NO_____  

EXTERIOR ENTRY AND COMPARTMENT DOOR HANDLES: Large chrome plated, die cast paddle handles shall be provided to open all module doors. Blind fasteners shall be used to fasten the handles to the door from the backside. Blind Stabilizer pins shall be incorporated on the backside of the handle for alignment purposes. Every paddle handle shall have an isolation gasket between the paddle body and the door skin. All door skin surfaces shall be painted prior to installation of the handle hardware. All paddles, on single hung and leading double doors shall be locking type and keyed the same. Trailing doors shall; have non-locking paddle handles, mounted on the outside of the door. The Handle shall have a bright chrome like finish mounted into the bright chrome dish. When the door is in the locked position, the handle shall extend when pulled like an automotive handle (free floating) to show the operator that the door is locked and needs to be unlocked to be opened. Systems that utilize a handle that does not free float shall not be accepted as it could bind up the inner hardware and shorten the life of the door operation and timing.

Bidder Complies  YES_____ NO_____  

INTERIOR ENTRY AND COMPARTMENT DOOR HANDLES: The interior handle shall be lever type. A Lock/Unlock lever shall be installed below the inside lever handle and be clearly marked Lock/Unlock. The inner chrome plated handle shall have a black powder coated cast aluminum bezel for strength. There shall be no plastic parts utilized in this installation.

Bidder Complies  YES_____ NO_____  

Emergency Access Interior Release: NONE
ENTRY DOOR PANELS / WINDOWS / HARDWARE

INTERIOR GRAB HANDLE COLOR: The interior grab handles listed below will be powder coated with anti-microbial, gray in color.

CURB SIDE ENTRY DOOR GRAB HANDLE: The curbside entry door shall be equipped with a two point, 1 ¼ diameter, stainless steel, handicap style grab handle to aid in door closure and entry assistance. The handle shall measure at least eighteen inches long.

The handle shall run horizontally, directly above the inside door latch. The door handles shall be fastened directly to the horizontal door structure that is welded to the door assembly.

Bidder Complies YES_____ NO_____  
REAR ACCESS DOOR GRAB HANDLES: Each rear access door shall be equipped with a two point, 1 ¼ diameter, stainless steel, handicap style grab handle to aid in door closure and entry assistance. The handle shall measure at least ten inches long.

The handle shall run horizontally, directly above the inside door latch. The door handles shall be fastened directly to the horizontal door structure that is welded to the door assembly.

Bidder Complies YES_____ NO_____  
ADDITIONAL ASSIST RAIL: This rail shall be naturally accessible to assist working attendants in maintaining their balance. The rail shall be 1 ¼ diameter, 100% stainless steel and 18” long. All rail fittings shall be T.I.G. welded to the main rail. The rail shall be located prior to order confirmation. Grab rails that utilize separate, setscrew rail fittings are not reliable and not acceptable.

Bidder Complies YES_____ NO_____  
C/S ENTRY HANDLE: There is to be a curved stainless steel grabrail located at the head end of the squad bench wall. It shall be mounted to a tapping plate in the modular body to give it the required strength. The grab handle shall have a curve to allow the grab part to impede in to the curbside door opening to allow easy access. The grab rail shall be at least 12 inches in length. The handle shall have antimicrobial coating and be silver in color.

Bidder Complies YES_____ NO_____  
ENTRY DOOR PANELS: All UPPER entry door panels shall be color matches Mica over a smooth aluminum substrate. The center panel shall be upholstery over a smooth aluminum substrate and the LOWER panels shall be 16 gauge brushed stainless steel.

Bidder Complies YES_____ NO_____  
CURBSIDE LOWER DOOR PANEL: The inside door panels shall be made of 16 gauge brushed stainless steel. The edges of the stainless plate shall be recessed into the door frame extrusion. The panels shall be fastened to the door frame with stainless steel, #10-32 UNF machine screws threaded into aircraft quality blind fasteners. Each screw shall have an neoprene lock washer.

Bidder Complies YES_____ NO_____  
REAR ENTRY DOOR WINDOWS: Will have an automotive style window. The window will be recessed in a factory stamped opening. The windows will be near flush. They will be in a fixed position. Each window will have a nominal area of 320 square inches.

Bidder Complies YES_____ NO_____  
SIDE ENTRY DOOR WINDOW: The curb side (Right) entry door shall be equipped with a
automotive style window. The window will be recessed in a factory stamped opening. The window will be near flush. Window will be fixed position. All glass shall be tinted safety glass.

Bidder Complies YES_____ NO_____

WALK THROUGH DOOR: The walk through door specified herein shall comply with federal specification KKK-A-1822D 3.10.15.1. The door shall be hinged on the passenger side of the vehicle and shall swing into the patient's cabin. The door shall fit into a recessed area on the side of the right front ALS cabinet. A barrel type bolt shall hold the door in the OPEN position (recessed into the side of the ALS cabinet). The same barrel bolt shall hold the door closed and shall be accessible ONLY from the CAB side. The door substrate shall be 19mm (3/4") Formaldehyde free, exterior grade, A-A plywood and laminated with color matching mica at least 28 mls thick. All door edges shall be banded with the same mica color and thickness as the door face surfaces. Iron on vinyl or PVC edge banding is not durable and therefore not acceptable.

The aforementioned door shall be fitted with a sliding polycarbonate window assembly with a minimum see through area of 150 square inches.

Bidder Complies YES_____ NO_____

PLASTIC VENTILATED COMPARTMENT TILE: A plastic color keyed, ventilated tile shall be installed on all compartment floors and shelves. The tile is to be designed to keep equipment off the floor or shelf to promote drying of wet equipment.

Bidder Complies YES_____ NO_____

ACTION AREA LIGHTING: A 12 volt LED light shall be provided directly over the forward, street side work surface. A 12 inch swivel fixture shall be provided. The light shall have an on/off rocker switch on the body of the light housing.

Bidder Complies YES_____ NO_____

LOCATION: The light shall be mounted to the top of the action area board.

Bidder Complies YES_____ NO_____

UPHOLSTERY MATERIALS: All padding and upholstered seating shall be covered in 36 ounce vacuum form ready vinyl. Sewn seams in the seat covers and cushions shall be minimized. Upon request, the manufacturer shall be capable of supplying vacuum formed, seamless vinyl covered upholstery. The color shall be color keyed to the laminate color selections made.

Bidder Complies YES_____ NO_____

SEAT / BACKREST CORE MATERIAL: The vinyl covered foam shall meet current Federal Specification KKK-A-1822. Seat cushions shall be ergonomically contoured. All core material shall be open cell, high resilience foam.

Bidder Complies YES_____ NO_____

UPHOLSTERY COLOR: All padding and upholstered seating shall be covered in 36 ounce vacuum form ready vinyl per the aforementioned specification. The color of the vinyl shall be Blue. A sample of the actual color shall be submitted with the bid for approval.
Bidder Complies      YES_____ NO_____
TROUGH COVER: All upholstered pad that is built to cover the trough running down the center line of the vehicle separating the curbside and street side of the patient compartment shall be manufactured of 1/4" luan nonvoided plywood with padding and covered with 36 ounce vinyl. The color of the vinyl shall be white.

The cover shall be fastened to the headliner using stainless steel screws with washers that will accept button covers that are color matched to the trough cover.

Bidder Complies      YES_____ NO_____ 
UPHOLSTERY JOINERY TYPE: All padding and upholstered seating shall be feature upholstery covered foam that eliminates sewn, visible seams. All cushion corners shall be vinyl wrapped. NO sewn seams are permitted, even at the corners. Seat cushion vinyl shall be preformed to the cushion shape to eliminate ALL visible seams. Seat cushions with welting/piping and sewn corner seams are not acceptable since blood and other liquid form biological discharge can penetrate the seam holes and reside in the foam. All vinyl surfaces shall be pulled tight against the foam, utilizing a hardwood plywood backing board. Loose fitting vinyl coverings are not acceptable.

Bidder Complies      YES_____ NO_____ 
FULL CUSHIONS: The post and wheel cups normally placed on the squad bench for secondary stretchers shall be DELETED in favor of full seat cushions without cutouts. The seat cushions shall be the same size as the squad bench lid and WITHOUT cutouts. The user chooses to use a backboard in lieu of a stretcher for a secondary patient.

Bidder Complies      YES_____ NO_____ 
HEAD PROTECTION - CURB SIDE ACCESS DOOR: A seamless pad specifically designed to protect the head during egress is required. The pad shall consist of a two inch thick foam sheet over a hardwood plywood backing board and covered in seamless vinyl upholstery.

Bidder Complies      YES_____ NO_____ 
HEAD PROTECTION - REAR ACCESS DOORS: A seamless pad specifically designed to protect the head during egress is required and shall comply with current Federal Specification KKK-A-1822. The pad shall consist of a two inch thick foam sheet over a hardwood plywood backing board and covered in seamless vinyl upholstery.

Bidder Complies      YES_____ NO_____ 
CLOCK: An Emergency Time manager is defined as a 24-hour clock and timer designed to assist Emergency medical personnel with time management. The time Manager shall provide four functions:

- Time of day in hours and minutes
- LED sweep second hand shall sweep around the hour and minute display
- Elapsed time in hours and minutes
- 4-alarm timers in 1, 2, 5, and 10 minute increments

The clock size shall be approximately 4 3/4" high by 6 3/4" long with a second hand sweep of 3 1/2" diameter. The main digital display shall have 1/2" high characters. The four digit display shall operate in three modes: "time of day", "Elapsed time" and "timer" mode. In "time of day" and Elapsed time" mode, the display will show hour and minutes. In "Timer" mode, an audible alarm shall sound when timer reaches zero.
The clock shall feature power consumption protection, whereas, the clock display shuts down, 20 minutes after the vehicle's engine is shut down and charging voltages are not present. The display shall come back on when the engine is restarted.

Bidder Complies      YES_____ NO_____
PAINT

100% PAINT FILM COVERAGE: All stages of primer and paint shall cover all surfaces. Hinge mating surfaces on the doors and jambs shall be painted. Bare aluminum and primer only preparation is not acceptable under door hinges. Doors shall be painted without actuation handles installed and doors removed from body. Paint film thickness to be no less than 4.1 mil thickness.

Bidder Complies      YES_____ NO_____
PAINT SYSTEM TYPE: The paint shall be Poly-Urethane type electrostatic application process is required and without exception.

An electrostatic paint spray system is a highly efficient technology for the application of paint to specific workpieces. Negatively charged atomized paint particles and a grounded workpiece create an electrostatic field that draws the paint particle to the workpiece, minimizing overspray.

For this technology, an ionizing electrode, typically located at the paint gun atomizer tip, causes paint particles to pick up additional electrons and become negatively charged. As the coating is deposited on the workpiece, the charge dissipates through the ground and returns to the power supply, completing the circuit. The electrostatic field influences the path of the paint particles. Because the charged particles are attracted to the grounded workpiece, overspray is significantly reduced. Paint particles that pass a workpiece can be attracted to and deposited on the back of the piece. This phenomenon is known as "wrap."

Bidder Complies      YES_____ NO_____
MECHANICAL ADHESION PROMOTER: The entire module shall be degreased. Degreaser shall be applied to manufacturer’s recommendations. Body to be inspected for flaws and imperfections and to assure built to order specifications. All surfaces shall be sanded with 150 grit paper and all imperfections repaired.

Bidder Complies      YES_____ NO_____
CHEMICAL ADHESION PROMOTER: The module shall be hot-water washed at (140 degrees or greater). Then the aluminum Body shall be treated with Alumiprep 33 acid etching followed by a complete body rinse. To ensure all surfaces are cleaned, this step shall be repeated a second time. The entire unit shall be wet coated with Alodine 5700 conversion coating and deionized water mixed.

Bidder Complies      YES_____ NO_____
PRIMER: Apply 3 coats of BTLV HI Solids Polyurethane. The unit is then baked at 140 degree metal temperature for one hour. Assure minimum at 2 mil thickness. Primer shall be sanded with 360 grit paper to assure flat, orange peel free surface.

Bidder Complies      YES_____ NO_____
TOP COAT (PAINT): Entire module shall be degreased. Degreaser shall be applied to manufactures recommendations. Two coats of BTLV High Solids color shall be applied.
CLEAR COAT: The clear coat shall be manufactured by the same company as the primer and base coat. Three coats of "clear coat polyurethane shall be applied per the manufacturer’s instructions.

3M POLISHING SYSTEM: Prior to 100% paint cure, the paint on the ambulance body shall be sanded to 1200 grit and polished flat per 3Ms Perfect-It product program for smooth finish.

CORROSION: Anti-electrolysis procedures include, but are not limited to the following.
1) Ensure all bare substrate is dry and free from contamination.
2) If bare substrate is showing signs of corrosion/oxidation, sand and remove. Use 180 grit until area is removed.
3) Thoroughly blow off areas to remove sand dust and metal shavings.
4) Thoroughly degrease to be pre-primed using the wipe-on, wipe-off method with clean white rags. (Use good quality automotive degreaser)
5) Apply Washprimer CR using a brush to all mated surfaces. Allow to flash for 15 minutes at 70 deg Fah. Mix washprimer CR 1:1 with washhardner.
6) Apply Urethane caulk to all mated surfaces before assembly to reduce the possibility of corrosion.

EXTERIOR FASTENERS: All screw sites require a replaceable nylon insert for the fastener to thread into. This will isolate the dissimilar metals. Additionally each hole shall be treated with an Electrolysis Corrosion Control compound prior to installation of the nylon inserts. All exterior screws shall be stainless steel.

PAINT WARRANTY: The conversion paint shall be warranted to the original owner for a period of 7 years, 70,000 miles. The color shift shall be no greater than Delta E of 4.0 with a minimum gloss retention of 60 gloss units at twenty-degree angle. Warranty to include a 36 month Corrosion coverage with no exclusions.

REFLECTIVE TAPE: The door frame shall have a three quarter inch (3/4") wide white reflective tape applied to the door frame. The tape shall illuminate the outline shape of the door when the door is opened.

REFLECTOR PACKAGE: Six reflectors shall be supplied on the outside of the module body. The reflectors shall be located at skirt line level and the area size shall be at least 3.75 square inches. Each side shall have one AMBER forward reflector and one RED rearward reflector. The rear of the body shall have one RED reflector, located just above the diamond plate kick plate.

MAIN BODY COLOR: The main body color shall be oxford white (Ford YZ). The paint finish shall be laid onto the body in a flat, orange peel free, mirror like shine on all four sides.
PAINT BELT: Custom paint belt from cab windows down shall be provided. The entire hood shall be painted. Paint on rear cab must be same height as the front of the body where they meet. Blue to go across edge of compartment and entry doors to the gaskets. Buff top of unit. Paint color shall be Atlantic Blue FA91:K2.

Bidder Complies      YES_____ NO_____
Paint inside M2.5 white

Bidder Complies      YES_____ NO_____
DRIP RAILS: A bright drip rail shall be provided over each compartment. Full height compartments are exempt because the perimeter roof rail drip rails will cover these compartments.

Bidder Complies      YES_____ NO_____
AMBULANCE MARKING PACKAGE: The vehicle shall be supplied with a lettering and "star of life" symbol decal package as described in current Federal specification KKK-A-1822. The "ambulance marking package" is to be shipped loose with the vehicle. The "star of life" symbols shall meet Figure 4 required by KKK-A-1822.

Bidder Complies      YES_____ NO_____
(2) Flow Meter: 0-15 LPM, Floating Ball, Oxygen, w/ Ohio adapter
FIRE EXTINGUISHER: One (5) five pound A-B-C type fire extinguisher shall be supplied loose with the vehicle on delivery.

Bidder Complies      YES_____ NO_____
REGULATOR: A fixed output medical regulator shall be supplied with the apparatus. The output shall be fixed a 50 psi. The regulator shall have a CGA 540 thread for the bottle and a 9/16-18 tpi threaded male connector for the input hose to the system.

Bidder Complies      YES_____ NO_____
7 Year, 70,000 mile Mechanical & Electrical including Workmanship.

Bidder Complies      YES_____ NO_____
7 Year, 70,000 mile Standard Paint Warranty.

Bidder Complies      YES_____ NO_____
36 Month Paint Coatings Corrosion Warranty.

Bidder Complies      YES_____ NO_____
20 Year Body Structure Warranty.

Bidder Complies      YES_____ NO_____
Delivery Date shall be no more than 180 days for both ambulances, failure to comply with this shall result in a 5% reduction from total purchase price.

Bidder Complies      YES_____ NO_____
Vendor is responsible for all related cost associated to deliver the chassis to vendor for remounting.
Bidder Complies  YES_____ NO_____
Vendor will cover all costs related to the County taking delivery of the ambulance including but not limited to hotel, travel expenses, etc. Pre-delivery inspection by Moore County Staff will be required prior to the County taking possession. The County must be satisfied prior to taking possession.

Bidder Complies  YES_____ NO_____
Provide the County with the last 3 years (36 months) reference from agencies in which they have remounted modular ambulances to include name of agency, address, phone number and point of contact. Vendor must have provided remounts to a minimum two (2) North Carolina based agency in that specified time frame. Vendor must have a partnership with original ambulance box manufacturer to order necessary replacement parts as needed to complete the remount to keep the ambulance box as near the original specs.

PHOTOS OF PAINT/LETTERING DETAILS AND CURRENT CHASSIS/BOX
BID FORM

Sealed Bids will be opened at 4:00 p.m., Tuesday January 31, 2017 in Financial Services, County of Moore, 206 S. Ray Street, Carthage, NC 28327.

Use this form only for submitting bids. In submitting your bid, keep in mind that any alterations, changes in bid format, etc. will make it difficult to evaluate bids. All items should be in the units, quantities, units of measurement, etc. specified. Do not submit alternates unless requested. The County of Moore shall reserve the right to reject any and/or all bids. The County reserves the right to award to multiple vendors.

TWO CHASSIS TOTAL COST: $____________________________

TWO REMOUNT TOTAL COST: $____________________________

LESS OPTIONAL TRADE IN ALLOWANCE OF TWO CHASSIS:

$____________________________

TOTAL COST (CHASSIS AND REMOUNT) $____________________________

I certify that the contents of this bid are known to no one outside the undersigned, and to the best of my knowledge all requirements have been complied with.

Date ____________________    Authorized Signature __________________________________

Receipt of the following addendum (if applicable) is acknowledged:

Addendum No. _________________   Date: ______________________

Addendum No. _________________   Date: ______________________
NON-COLLUSION AFFIDAVIT

State of North Carolina
County of Moore

I ________________________________, being first duly sworn, deposes and says that:

He/She is the __________________________ of ____________________________, the Bidder that has submitted the attached bid;

He/She is fully informed respecting the preparation and contents of the attached bid and of all pertinent circumstances respecting such bid;

Neither the said Bidder nor any of its officers, partners, owners’ agents, representatives, employees or parties of interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly, with any other Bidder, firm or person to submit a collusive or sham bid in connection with the contract for which the attached bid has been submitted or to refrain from bidding in connection with such contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Bidder or to fix overhead, profit or cost element of the bid price of any other Bidder or to secure through collusion, conspiracy, connivance or unlawful agreement any advantage against the County of Moore or any person interested in the proposed contract; and,

The price or prices quoted in the attached bid are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Bidder or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

_______________________________
Title

State of North Carolina
County of ________________
Subscribed and sworn before me,
This ______ day of __________, 2017

_______________________________
Notary Public
My commission expires: _______________________

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Moore County E-Verify Affidavit

STATE OF NORTH CAROLINA
COUNTY OF MOORE

I, ____________________________ (the individual attesting below), being duly authorized by and on behalf of ____________________________ (the entity bidding on project hereinafter "Employer") after first being duly sworn hereby swears or affirms as follows:

1. Employer understands that E-Verify is the federal E-Verify program operated by the United States Department of Homeland Security and other federal agencies, or any successor or equivalent program used to verify the work authorization of newly hired employees pursuant to federal law in accordance with NCGS §64-25(5).

2. Employer understands that Employers Must Use E-Verify. Each employer, after hiring an employee to work in the United States, shall verify the work authorization of the employee through E-Verify in accordance with NCGS §64-26(a).

3. Employer is a person, business entity, or other organization that transacts business in this State and that employs 25 or more employees in this State. (mark Yes or No)
   a. YES _____, or
   b. NO _____

4. Employer's subcontractors comply with E-Verify, and if Employer is the winning bidder on this project Employer will ensure compliance with E-Verify by any subcontractors subsequently hired by Employer.

Executed, this ____ day of ______________, 2017.

Signature of Affiant
Print or Type Name: ____________________________

State of North Carolina
County of _____________

Signed and sworn to (or affirmed) before me, this the ____
day of ________________, 2017.

My Commission Expires:

_________________________  ____________________________
Notary Public
RFP Number (if applicable): ________________________________

Name of Vendor or Bidder: __________________________________________
_________________________________________________________________

IRAN DIVESTMENT ACT CERTIFICATION
REQUIRED BY N.C.G.S. 147-86.59

As of the date listed below, the vendor or bidder listed above is not listed on the Final Divestment List created by the State Treasurer pursuant to N.C.G.S. 147-86.58.

The undersigned hereby certifies that he or she is authorized by the vendor or bidder listed above to make the foregoing statement.

Signature ___________________________ Date __________

Printed Name ______________________________ Title ______________

Notes to persons signing this form:

N.C.G.S. 147-86.59(a) requires this certification for bids or contracts with the State of North Carolina, a North Carolina local government, or any other political subdivision of the State of North Carolina. The certification is required at the following times:

- When a bid is submitted
- When a contract is entered into (if the certification was not already made when the vendor made its bid)
- When a contract is renewed or assigned

N.C.G.S. 147-86.59(b) requires that contractors with the State, a North Carolina local government, or any other political subdivision of the State of North Carolina must not utilize any subcontractor found on the State Treasurer's Final Divestment List.

The State Treasurer's Final Divestment List can be found on the State Treasurer's website at the address www.nctreasurer.com/iran and will be updated every 180 days.
Vendor Application

County of Moore
Financial Services – Purchasing Division
PO Box 905
Carthage, NC 28327
Phone:  (910) 947 - 7118
Fax:  (910) 947 - 6311

Please Type or Print Legibly

Federal ID # ________________________________   SS # ______________________________   Vendor # ________

<table>
<thead>
<tr>
<th>Vendor Name</th>
<th>Date</th>
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<th>ORDER ADDRESS</th>
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<tr>
<th>CONTACT PERSON</th>
<th>TELEPHONE NUMBER</th>
<th>FAX NUMBER</th>
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<tr>
<th>YEAR ESTABLISHED</th>
<th>TERMS</th>
<th>DISCOUNT</th>
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<tr>
<th>CONTRACTOR’S LICENSE # (if applicable)</th>
<th>SIGNATURE</th>
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This firm certifies that it is a:  (if applicable)
☐ Disabled   ☐ Minority Business Enterprise   ☐ Women Business Enterprise

To qualify for MWBE status, 51% of the company must be owned and controlled by minority groups or women. For the purpose of this definition, minority group members are Black Americans, Hispanic Americans, American Indians and/or American Women. To qualify for Disabled status, 51% of the company must be owned and controlled by disabled persons.

**Product(s) and/or Service(s)**

Please list the type product(s) and/or Service(s) that your company can provide.

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

**References**

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
Form W-9  
Request for Taxpayer Identification Number and Certification

1. Name (as shown on your income tax return). Name is required on this line. Do not leave this line blank.

2. Business name/sole proprietor or single-member LLC. If different from above:

3. Check appropriate box for federal tax classification: check only one of the following seven boxes:
   - Individual
   - Partnership
   - Trust or estate
   - Corporation
   - Limited liability company

4. Examine codes apply only to certain assets, not individuals. See instructions or page 3.

5. Address number, street, and apt. or suite no.

6. City, state, and ZIP code

7. Account number(s) if any (optional)

Part I  Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN) if you do not have a number, see line 6 to get a TIN on page 3.

Note: If the account is in more than one name, see the instructions for line 1 and the chart on page 4 for guidelines on whose number to enter.

Part II  Certification

Under penalties of perjury, I certify that:
1. The number shown on this form is my correct taxpayer identification number and I am not subject to backup withholding.
2. I am subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest and dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding.
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA codes entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification Instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

Sign Here

Signature of U.S. person

Date

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted. Future developments, information about developments affecting Form W-9 can be found on the IRS website at www.irs.gov/ Forms.

Purpose of Form

An individual or entity (e.g., trust or estate) who is required to report an information return with the IRS must obtain your correct taxpayer identification number (TIN) when it requests your information. Additional taxpayer identification number (ATIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amounts reportable on an information return. Examples of information returns include, but are not limited to, the following:

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (miscellaneous income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-C (proceeds from real estate transactions)
- Form 1099-K (merchant and third-party network transactions)
- Form 1098 (home mortgage interest, 1098-E (student loan interest), 1098-T (tuition)
- Form 1092-C (canceled debt)
- Form 1099-L (acquisition and abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

1. If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding? on page 2.
2. By signing the filled-out form, you:
   - Certify that the TIN you are giving is correct (or you are waiting for a number to be issued)
   - Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any withholding tax on foreign persons' share of effectively connected income, and
4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See What is FATCA reporting? on page 2 for further information.