

# **TYPE I AMBULANCE SPECIFICATION**

WARREN COUNTY FINANCE DEPARTMENT  
WARREN COUNTY ADMINISTRATIVE OFFICE BUILDING  
201 LOCUST STREET, SUITE 2  
MCMINNVILLE, TENNESSEE 37110  
PHONE (931) 473-2381 FAX (931) 473-0635

## **SPECIFICATIONS FOR 2 NEW MODEL YEAR 2015 TYPE 1 AND/OR STANDARD REMOUNT TYPE 1 AMBULANCES FOR THE WARREN COUNTY EMS DEPARTMENT**

Sealed bids, subject to the conditions contained herein, will be accepted by the Warren County Financial Management Committee at the Warren County Administrative Building, Office of the Finance Department, 201 Locust Street, Suite 2, McMinnville, Tennessee, 37110, up to but no later than 10:00 A.M. Central Time on Wed., October 1, 2014 and then publicly opened and read for 2 new model year 2015 Type 1 Ambulance(s) and/or standard remount Type 1 Ambulances for the Warren County EMS Department.

**NOTE: This bid opening has been extended from 9/23/2014 at 10:00 AM to 10/1/2014 at 10:00 AM**

Specifications are as follows on the attached sheet and all bids submitted must meet or exceed these specifications.

Bid must include delivery to the Warren County EMS Department.

Bid must also specify Warranty Information.

DOES YOUR BID MEET OR EXCEED ALL SPECIFICATIONS EXACTLY AS WRITTEN? IF NO, PLEASE LIST EXCEPTIONS.

YES            NO            (Please Circle One)

No bidder may withdraw his bid for a period of Sixty (60) Days after date set for opening of the bids. In case of tie bids, the Financial Management Committee reserves the right to negotiate with the bidders or reject any or all bids. Bids will be awarded accordingly as prescribed by law, which states lowest or best. A Supreme Court ruling states that the discerning of best lies solely on those requesting the bid and not the bidder. The right is reserved as the interest of Warren County, Tennessee may require to accept or reject any or all bids received, to accept or reject any item thereon, to waive any informalities in bidding, and/or to abandon or postpone this project without any obligation to bidders.

### **PUBLIC NOTICE TITLE VI OF THE 1964 CIVIL RIGHTS ACT**

"No person in the United States shall, on the ground of race, color or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance."

#### **BIDS MUST BE SIGNED AND DATED TO BE VALID**

DATE: \_\_\_\_\_

FIRM NAME: \_\_\_\_\_

BY (SIGNATURE): \_\_\_\_\_

PRINT NAME: \_\_\_\_\_

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TITLE: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

PHONE NUMBER: \_\_\_\_\_ FAX NUMBER: \_\_\_\_\_

E-MAIL ADDRESS: \_\_\_\_\_

BID: MAKE/MODEL: \_\_\_\_\_

BID PER UNIT: \_\_\_\_\_

ESTIMATED DELIVERY DATE: \_\_\_\_\_

**BIDS MUST BE SEALED AND CLEARLY MARKED: "TWO (2) NEW MODEL YEAR 2015 TYPE 1 AND/OR STANDARD REMOUNT TYPE 1 AMBULANCES FOR THE WARREN COUNTY EMS DEPARTMENT: NOT TO BE OPENED UNTIL 10 AM, WEDNESDAY, OCTOBER 1, 2014."**

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## INSTRUCTIONS AND GENERAL CONDITIONS TO BIDDERS

### REQUEST FOR PROPOSALS

NEW 2015 Type 1 Dodge Ram 4500, 108"CA (4x2) or equivalent AMBULANCE

### GENERAL INFORMATION

**Goods/Services.** The **County of Warren** is seeking proposals for a NEW 2015 Type 1 Ambulance and/or standard remount Type 1 Ambulance as described in the attached Technical Specifications and consistent with the terms and conditions of the "Contract Documents," defined below. Each firm responding to this Request for Proposals will be referred to as the "Bidder" and the firm selected to provide services to the **County of Warren Tennessee**, together with its owners, officers, employees, agents, and/or subcontractors, will be referred to as the "Contractor".

**Bid Opening:** Award. All bids shall be sealed, delivered no later than, and opened at, 10:00 AM CT on Wednesday, October 1, 2014 pursuant to the conditions of the Warren County Financial Management Committee. The County reserves the right to award this bid as the County's best interests shall dictate, in the light of bid prices/options, the reputation and past performance of the bidder(s), and other factors. The County reserves the right to reject any or all bids, in whole or in part, and is not obligated to accept the lowest bid if that bid is contrary to the best interests of the County, at the sole discretion of the County. A bid may be rejected if it is in any way incomplete or irregular; however the County reserves the right to waive minor irregularities.

**Cost of Preparation:** Bidder assumes all of its costs of preparing its bid, and of any presentations, correspondence, negotiations, documentation, and any other action undertaken by the Bidder with respect to its bid, and the award of the Contract.

**Authority to Bid:** Bidder's submission of a signed bid or proposal in response to this solicitation is a representation and certification that Bidder, and its agent submitting the bid, is authorized so to bid and perform all terms and conditions in the event Bidder is awarded the Contract, and further that the Bidder (and any subcontractors) is not currently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal or state government or governmental entity, by any court, or by any contract or private obligation of the Bidder. Bidder agrees to notify the County of any change in Bidder's status until such time as an award has been made.

### BIDDING REQUIREMENTS

**Bid Understanding:** Before submittal of a bid, each Bidder must examine the Contract Documents thoroughly. By submitting a bid, the Bidder agrees and represents that these Contract Documents are adequate for the purpose. Bidder shall state any exceptions or deviations in the attached Statement of Compliance /Deviations from Specifications form.

**Communication with Warren County:** It is the responsibility of the Bidder to inquire with the County of Warren to clarify any requirement of the Request for Proposals or the Contract Documents that are unclear to Bidder. The County's responses to such inquiries, if they change or clarify the Request for Proposals, will be forwarded by addenda to all parties known to the

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County to have obtained a copy of the Request for Proposal for the purpose of submitting a bid. The County will not be bound by oral responses to inquiries or written responses other than addenda. Inquires must be made to: Linda Hillis email: [lghillisdoa@blomand.net](mailto:lghillisdoa@blomand.net)

**Submission:** Bids are to be sealed and, once received by the County, shall be retained unopened and secure until the time and date of the Bid Opening set forth herein. All bids shall be delivered to the Warren County Financial Management Committee, c/o: Linda Hillis, Warren County Finance Director, (201 Locust Street, Suite 2, McMinnville, Tennessee 37110), no later than 10:00 AM CT on Wednesday, October 1, 2014. Faxed or e-mailed bids will not be accepted. Bid documents shall be enclosed in an envelope sealed and clearly labeled: "TWO (2) NEW MODEL YEAR 2015 TYPE 1 AND/OR STANDARD REMOUNT TYPE 1 AMBULANCES FOR THE WARREN COUNTY EMS DEPARTMENT: NOT TO BE OPENED UNTIL 10 AM, WEDNESDAY, OCTOBER 1, 2014."

**Bid Opening:** At the time fixed for the opening of bids, the material contents of all bids shall be made public; Bidders and members of the public are welcome to attend the Bid Opening.

## GENERAL TERMS AND CONDITIONS

**Assignment:** Neither party to the Contract shall assign the Contract or any right or obligation under the Contract, including a right to payment, without the prior, written consent of the other party.

**Contract Documents:** If a separate contract is not written, the Contract shall consist of the Instructions and General Conditions, the Specifications, including all modifications thereof, and the signed Official Bid Form submitted by the Contractor and counter-signed by the County Board of Directors, all of which shall be referred to collectively as the Contract Documents.

**Contract Modifications and Amendment:** The parties may amend a term or condition of the Contract, in a written amendment signed by the parties. Amendments increasing the contract price shall only be made when necessitated by unforeseen circumstances beyond the control of either party.

**Cancellation/Termination:** Except as otherwise provided herein, The County may terminate this Contract by giving 30 days written notice to the Contractor. Such cancellation does not release the County or Contractor from the terms and conditions of the Contract during the notification period. In the event the Contractor defaults on the Contract by failing to furnish the goods or services in conformance with the Contract and to the County's satisfaction, the County shall promptly notify the Contractor of such default, and if correction is not made within 48 hours to the County's satisfaction, The County may, at its sole discretion, take whatever action it deems necessary to obtain substitute goods/services, and may terminate the Contract without further notice.

**Contract Validity:** In the event one or more clauses of the Contract are declared by a court of competent jurisdiction or arbitrator to be invalid, void, or unenforceable, such finding shall not affect the validity of the remaining terms and conditions of the Contract.

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**Contract Administration:** Notice to the County. The County Board of Commissioners shall serve as the County's Contract Administrator. Any notices required to be provided to the County shall be provided to: EMS Director Brian Jennings, (103 Magness Drive, McMinnville, TN 37110). Pho: (931) 473-3929. Invoices and payment issues shall be directed to Finance Director, (201 Locust Street, Suite 2, McMinnville, Tennessee 37110) Pho: (931) 473-2381, ext.: 1001.

**Indemnification:** Contractor is responsible for, and shall hold the County harmless from any and all losses, damages, claims, causes, costs, and expenses suffered or sustained by County or for which the County of Warren may be held or become liable by reason of injury (including death) to persons or property or other causes whatsoever as a result of an actual or alleged act, error, or omission of the Contractor in any way related to this Contract, and Contractor shall indemnify the County for any and all expenses, losses, or payments incurred in the responding to or defending against any claims arising from such act, error, or omission of the Contractor, including attorney's fees and costs.

**Independent Contractor:** Whether the Contractor is a corporation, partnership, other legal entity, or an individual, the Contractor is an independent contractor, and not an employee of agent of the County. If the Contractor is an individual, the Contractor's duties will be performed with the understanding that the Contractor is a self-employed person; that Contractor has special expertise as to the services which the Contractor is to perform; and that Contractor is customarily engaged in the independent performance of the same or similar services for others. The manner in which the services are performed shall be controlled by the Contractor; however, the nature of the services and the results to be achieved shall be specified by the County. The Contractor has no authority to make any binding commitments or obligations on behalf of the County except as expressly provided herein.

**Contractor's Liability Insurance.** During the term of this agreement, the Contractor shall maintain the following insurance:

Commercial General Liability - Aggregate policy limit of one million dollars.

Automotive Liability - Any Hired and Non-owned Autos  
Combined Single Limits of One million dollars.

Garage Liability - Any Auto  
Auto only - Each accident: limit of one million dollars.

Workers Compensation and Employer's Liability –

Each Accident: limit of five hundred thousand dollars.  
Disease policy: limit of five hundred thousand dollars.  
Disease - Each Employee: limit of five hundred thousand dollars.

Excessive/Umbrella Liability –

Each Occurrence: limit of nine million dollars

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Automotive Damage, Physical Liability Damage  
Comprehensive Deductible:

Contractor shall cause the County to be named as an additional insured on each policy of insurance required herein, and the Certificates or other evidence of such policies shall contain a statement of the insurer's obligation to notify the County at least fifteen (15) days prior to the cancellation of such policy. In the event the County is required to defend itself against any claims for which insurance coverage is required by this Contract, Contractor shall pay the County's cost of defense. In any claim which may arise as a result of intentional or negligent acts, or omissions of the Contractor, the comprehensive general liability insurance policy provided by Contractor shall be deemed the primary protection against such claims, and the County shall not be called upon to contribute to a loss otherwise payable by the Contractor's insurer(s) due to Contractor's acts, errors, or omissions.

**Contract Sum:** The total contract price shall include all labor, license fees, costs, equipment guarantees, delivery, transportation, materials and application as described in these Contract Documents. The County shall pay the Successful Bidder in current funds the Contract Sum as stated in the Notice of Award for the performance of the Work, subject to additions and deduction by Change Order as provided herein.

**Payment:** Payment will be upon submittal of an invoice to the Finance Department of the County by the Successful Bidder on a (C.O.D.) unless discount terms are offered. Invoices must include purchase order number. Requisitions are to be approved by the County.

**Sales Tax:** This project is exempt from State Sales and Use or Excise Taxes to the extent allowed by law.

## PERFORMANCE TERMS AND CONDITIONS

**Condition and Care of Site and Protection of the Work:** The Contractor shall continuously maintain adequate protection of the Work required to be performed by Contractor from damage and shall protect the site of the Work from injury or loss arising in connection with this Contract, and shall repair or indemnify the County for any such damage, injury, or loss. The Contractor shall adequately protect adjacent property as provided by applicable law and/or the Contract.

- A. **Employees:** The Contractor shall employ only competent and satisfactory personnel and shall provide a sufficient number of employees to perform the required services efficiently and in a manner satisfactory to the County. If the county notifies the Contractor in writing that any person employed by Contractor in furtherance of the Contract is incompetent, disorderly, or otherwise unsatisfactory to the County, such person shall not again be employed in the executions of this Contract without the written consent of the County.

**Change Orders:** The County shall have the right to increase or decrease the amount and extent of the work by giving reasonable notice thereof to the Successful Bidder. The value of

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such Change Orders shall be negotiated between the County and the Successful Bidder. Before any change order modifies or becomes a part of the work, the Change Order must be signed by the Successful Bidder and the County. It shall be the responsibility of the County to notify the Contractor of any new locations during the contract terms.

**Delivery:** The apparatus shall be delivered to the County as soon as possible following the Notice to Award, but in no event later than that date which is 120 days from the date of the Notice of Award. The bidder shall state the estimated delivery time on the Official Bid Form in the space provided. The County representative shall be notified at least forty-eight (48) hours in advance of the delivery date and time.

The Contractor shall notify the County in writing of both the tentative shipment date and the actual shipment date of the ambulance from the vehicle manufacturer promptly upon receipt of such dates from the vehicle manufacturer.

The unit, to ensure proper break in of all components while still under warranty, shall be delivered under its own power. Rail or Truck freight is not acceptable. A qualified driver representing the bidder shall deliver the unit and remain in the County of Grady a sufficient length of time to instruct the EMS personnel in the proper operations, care and maintenance of the equipment delivered. The representative shall represent the bidder during the acceptance test and inspection. If the unit is accepted, the County will make payment in the amount of the awarded bid.

**Date of Acceptance:** That date when all Specifications have been satisfactorily met.

**Guarantee:** The Apparatus and all parts thereof shall be fully operational and free of defect in materials, workmanship, installation and operation for a period of at least one (1) year from the Date of Acceptance. In addition to any other manufacturer's guarantee or warranty, Bidder's proposal shall at minimum include and state, on company letterhead, the following warranty:

We represent and warrant that the Apparatus, and all parts thereof, shall be free from defects in materials, workmanship, installation, and operations under normal use and service (hereinafter, "Defect") for 1 year from the Date of Acceptance. Upon notice of Defect by the County, we shall be responsible the prompt repair of the Defect; the cost of transporting the defective part or Apparatus for repair. With or without notice of such Defect, except where such Defect becomes known to the County and is not reported to us within a reasonable period of time of such notice, we shall be responsible for and shall defend and hold harmless the County, its officers, employees, volunteers, and agents, from and against any and all claims, costs, damages, and liabilities, including attorney's fees and cost, proximately caused to person or property by such Defect. This warranty shall not apply to (1) normal maintenance service or adjustments; (2) Defects caused by alterations for the Apparatus by the County or by a third party without our prior consent during the Warranty Period; (3) damage to the Apparatus caused by improper use, service, or operations of the Apparatus by someone other than the Bidder, and (4) commercial chassis and associated equipment furnished with chassis; signaling devices; generators; batteries; or other trade accessories, unless such equipment is not warranted separately by its manufacturer(s). In the event we fail to repair or replace the defective equipment within a reasonable time of receipt of notice thereof, the County may perform the repair or replacement and Bidder shall reimburse County therefore. This Warranty is in lieu of all other warranties expressed or implied, that are for a shorter period of time or that cover fewer repair or

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replacement costs than are set forth herein. This Warranty does not relieve the Bidder from liability for incidental or consequential damages.

## **SUBMISSION REQUIREMENTS AND SPECIFICATIONS**

**Bid Form:** The bid shall be in the form of a firm price for the entire contract period. The bid price shall include, and Contractor shall be responsible for, all costs and charges other than the bid price, including, without limitation, storage, transportation / delivery, environmental fees, insurance, bonding, and all other costs. The County shall not be responsible for any charges or cost not set forth in Contractor's bid documents.

## **CONTRACT DOCUMENTS**

The following documents constitute the Contract Documents;  
Instructions to Bidders

Technical Specification – Bidders actual specifications

Official Bid Form and Agreement

Statement of Compliance/Deviation from Specifications

Experience Statement

The following documents must be submitted with the bid in order for such bid to be considered complete. A bid that does not include each and every one of these documents shall constitute cause for rejection of the bid:

Executed Official Bid Form and Agreement

Executed Statement of Compliance/Proposed Deviations from Specifications

Experience Statement

Warranty printed on company form per Specifications

Proof that Bidder is a Certified Vehicle Modifier for the chassis(s) that are bid.

Policy indicating prompt service and ability to furnish replacement parts

Bidders Specifications consisting of detailed description of the unit and equipment proposed and to which the unit furnished under contract must conform; computer run-off sheets are not acceptable as a descriptive literature. These specifications shall indicate size, type, model, and make of all component parts and equipment.

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IT IS AGREED BY THE UNDERSIGNED BIDDER THAT THE SIGNING AND DELIVERY OF THIS BID REPRESENTS THE BIDDER'S ACCEPTANCE OF THE TERMS AND CONDITIONS OF THE FOREGOING SPECIFICATIONS AND PROVISIONS, AND IF AWARDED THE BID BY THIS AGENCY, WILL REPRESENT THE AGREEMENT BETWEEN THE PARTIES.

Sign in ink in the space provided below. UNSIGNED bids will be considered incomplete and will be subject to rejection.

Name of Firm: \_\_\_\_\_

Signed (in ink): \_\_\_\_\_  
(Signature of Officer of Company)

Title: \_\_\_\_\_ Date Signed: \_\_\_\_\_

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

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

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

Phone Numbers: Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

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

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

Model Year: \_\_\_\_\_ Model Designation: \_\_\_\_\_

Delivery will be made within \_\_\_\_ days of receipt of chassis by the Manufacturer

Bid Amount: \_\_\_\_\_ \$ \_\_\_\_\_

**TO BID AMOUNT:** \_\_\_\_\_ \$ \_\_\_\_\_

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## **SPECIFICATION EVALUATION CHECKLIST**

<b><u>ITEMS INCLUDED</u></b>	<b><u>INITIAL</u></b>
CURRENT KKK-A-1822F CERTIFICATION	_____
CURRENT Q.V.M. CERTIFICATION	_____
PRODUCT LITERATURE	_____
PRODUCT BUILD SPECIFICATIONS	_____
ALL APPLICABLE WARRANTY DOCUMENTS	_____
PROPOSAL DRAWINGS	_____
INSURANCE CERTIFICATE	_____
COPY OF DEALER'S LICENSE	_____
COMPLETED BID FORM	_____
COMPLETED NON-COLLUSIVE CERTIFICATE	_____
REFERENCES	_____
LIST OF SERVICE FACILITIES	_____
BID DOCUMENT WITH YES/NO RESPONSES	_____
TOTAL NUMBER OF YES's	_____
TOTAL NUMBER OF NO's	_____

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## STATEMENT OF COMPLIANCE/DEVIATIONS FROM SPECIFICATIONS:

The Bidder proposes the following deviations from the Specifications and/or Drawings, which the Bidder represents and warrants as being fully equal or superior to the requirements of the Specifications and Drawings, for the reason(s) set forth fully below (attach additional sheets if necessary):

If there are no deviations from the Specifications and/or Drawings, please state same.

I certify that the foregoing fully and completely describes each proposed deviation, if any, and the reason why each deviation is fully equal or superior to those in specified in the Detailed Specifications.

BIDDER: \_\_\_\_\_

BY: \_\_\_\_\_

ITS: \_\_\_\_\_

TYPE 1 EMERGENCY VEHICLE

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## **Intent of this Bid**

This Request of Bid (RFB) is intended to provide vendors with a common, uniform set of specifications to assist them in the development of their bids and to provide a uniform method for the bidding agency to fairly evaluate bids and subsequently select a vendor from which to purchase these ambulances.

The following specification describes a new ambulance that is expected to be acquired by this purchaser. The specification describes the needs of this purchaser as far as chassis configuration and module body design. A state of the art vehicle is required. However, manufacturers that utilize prototype equipment will not be considered. The builder's manufacturing history shall be supported by documentation where applicable, and by the reference section within this specification. The benchmark for the initial configuration of this ambulance shall be the current KKK Federal Specification for Ambulances, Ambulance Manufacturers Division Standards, Federal D.O.T specifications and/or regulations, applicable NFPA Standards. However, most requirements in this specification exceed the federal specifications because of the specific needs of this purchaser. Please note that the following specifications represent minimum general terms or requirements. While it is not the intent of this purchaser to preclude any qualified bidder from submitting a proposal, it must be clear that any bidder deviating in any substantial manner from these specifications will be rejected as being non-compliant.

In responding to this RFP, vendors should follow the prescribed format and use the forms included, thus providing the County with data that is easily compared with data submitted by other vendors in order to fairly and objectively evaluate the proposal.

Each bid shall be accompanied by a set of "Contractor's Specifications" consisting of a detailed description of the unit and equipment proposed and to which the unit furnished under contract must conform. These specifications shall indicate size, type, model, and make of all components parts and equipment. Drawings including dimensions showing the unit as proposed in the bid shall be submitted with the bid documents.

**NOTE:** Bidders are advised that simply checking each box is not enough. Each bidder will be required to submit, with their bid proposal, "**ACTUAL**" detailed specifications and drawings describing what they are providing. This way the County will be able to compare each bidder's package to these bid specifications. If a bidder does not comply with this section their bid will be deemed non-responsive and incomplete and will not be accepted. This agency will not tolerate bidder's that simply check Yes or No in each box. **NO EXCEPTIONS.**

The Bidding Agency assumes no responsibility for conclusion or interpretations derived from the information presented in this RFB, or otherwise distributed or made available during this procurement process. In addition, the Bidding Agency will not be bound by or be responsible for any explanation, interpretation or conclusions of the RFB or any documents provided by the Bidding Agency other than those given in writing by the Bidding Agency through the issuance of addenda. In no event may a vendor rely on any oral statement by the Bidding Agency or its agents, advisors or consultants. It is the full responsibility of the vendor to thoroughly investigate the needs and requirements of the Bidding Agency not necessarily assumed in this RFB, and to submit a bid for:

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## **INSTRUCTIONS FOR BIDDERS**

This specification establishes standards for the design, construction and performance of a Type 1 Modular ambulance. The completed vehicle and components must comply with the current version of Federal Specification KKK-A-1822K unless specifically requested otherwise in the following document. As the criteria for compliance with KKK-A-1822 are well established, this document will not contain redundant references to their content.

Bids will only be considered from companies that have an established reputation in the field of ambulance construction. Preference shall be given to ambulance manufacturers who employ Ambulance Manufacturers Division (AMD) standards in the construction of their ambulances.

**Bids will not be accepted after the date and time stated in the invitation to bid.**

Payment shall be made in accordance with these specifications and the Bid Proposal submitted by the Bidder. Payment will be made upon acceptance of the vehicle(s) and equipment specified in this document.

Bids received shall be evaluated by the Purchaser. This evaluation will be based on, but not limited to, completeness of proposal, exceptions, price, and delivery schedule.

**Bid Proposals taking total exception to these specifications will not be accepted.**

Any exception to the provisions in these specifications must be marked in the body of this document and itemized on a separate attached page(s) titled EXCEPTIONS. Referenced by section number and paragraph, a detailed explanation of the exception shall be provided along with the bidder's alternative proposal.

Bids not following this format shall not be considered. **NO EXCEPTIONS TO THIS SECTION.**

The Contractor shall indemnify and save the Purchaser harmless from any and all claims, liability, losses, and causes of actions which may arise out of the fulfillment of this agreement. The Bidder shall pay all claims and losses of any nature whatsoever in connection therewith, and shall defend all suits, in the name of the Purchaser when applicable, and shall pay all costs and judgments which may ensue thereafter.

Failure to deliver any part of the order to the terms required may be considered by the Purchaser as a breach of contract. In such case the vehicle(s) and equipment may be rejected and the purchaser shall retain the right to require forfeiture of the full amount of the Performance Bond (if required) as liquidated damages.

When submitting their Bid Proposal, Bidders must return all pages of these specifications as part of the Bid Proposal as it will form the Contract between the Contractor and the Purchaser. Caution should be taken by the Bidder that all questions are answered in the spaces provided and that all information requested is provided.

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It is the Bidder's responsibility to be familiar with all federal, state, and local laws, ordinances, codes, and regulations concerning the submission of this bid and the work it affects. Ignorance of said enactments shall not relieve the Bidder of responsibility to comply or complete the bid work.

In the event a clarification is requested on the contents of this specification, the question shall be addressed in writing to: Linda Hillis, Warren County Director of Finance, (201 Locust St, Suite 2, McMinnville, TN 37110). Phone calls will not be acceptable to be fair to all bidders.

The vehicle(s) shall, at the time of delivery, conform to the minimum requirements of the latest standards covering vehicles of this type. This shall include federal, state and local requirements.

**IMPORTANT: (MUST COMPLY)** In the event the bidder represents more than one ambulance manufacturer meeting the manufacturer requirements outline herein, then the bidder shall "only" bid the highest quality vehicle that the bidder represents. Under no circumstances will multiple bids from the same bidder/dealer of different manufacturers be accepted, even if one manufacturer has multiple product lines. Should a bidder submit two or more bids representing more than one manufacturer, then all bids submitted by that bidder will be rejected as being non-complaint with the requirements of this specification. This purchaser is seeking quality equipment. Bidders are asked to bid only the product of the highest level of quality represented by that bidder.

**NOTE:** If a bidder or manufacturer has multiple companies or ambulance manufacturers that bidder must show in their bid package exactly who they have and why one is better than the other. The bidder shall also state in detail how they are not in violation of the Collusion ruling. If the bidders who own or represent more than one product then the actual winning ambulance manufacturer must show that they are not in Collusion, since they will, in fact, have pricing for all the products lines being offered.

Is this requirement understood and met? Yes \_\_\_\_ No \_\_\_\_ Bidder's initials: \_\_\_\_\_

By signing this document, the Bidder agrees that this Bid is made without any understanding, agreement or connection with any other person, firm or corporations making a bid for the same purpose, and that this bid is in all respects fair and without collusion or fraud.

## **CONTRACT EXTENSION**

It is the intent of this agency to enter into a contract with the successful bidder to allow that contract to be extended for 2 years, in order to add additional units to the contract. This contract shall allow for chassis model year increases only if and when the successful bidder provides documentation from its chassis supplier on their letterhead indicating an increase to the chassis.

Latest literature and detailed specifications on the unit proposed shall be included with the proposal submittal.

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## TYPE OF BIDS TO BE SUBMITTED

The information requested within the bid must be furnished in full. Any bidder not completing this proposal or not furnishing any required information will not be considered. If a bidder will not furnish a material or fabrication process exactly as described in this specification, then that difference must be designated in the list of exceptions. If a substitution is being proposed, then the bidder must note the section to which the alternative is being proposed and provide technical data, supported by an engineer, supporting the fact that the substitute is equal to or better than the item as specified. If this data is not submitted with the bid, then the bid shall be rejected as being non-compliant. Bidder added narrative describing a substitution as being clarification, exceeding, being equal to, etc. will not be accepted. Statements such as these, with or without the technical data described in this section, will cause the bid to be rejected as being non-compliant.

This purchaser reserves the right to require samples of any deviating material to be provided for evaluation.

Does the bidder comply with these requirements? Yes \_\_\_\_ No \_\_\_\_

## **GENERAL REQUIREMENTS**

Payment shall be made on delivery of the purchased item, or upon completion of all work contracted (whichever occurs later), and when the project is deemed by the purchaser to be completed satisfactorily.

Does the bidder comply with this requirement? Yes \_\_\_\_ No \_\_\_\_

All bid prices shall quote F.O.B. destination basis, at the Purchaser's specified location. Bid prices shall be complete and include all warranties and equipment specified. After bid allowances will not be made for incorrect or incomplete bid proposals.

All prices, terms and conditions must be specified on the Bid Proposal Form.

Does the bidder comply with this requirement? Yes \_\_\_\_ No \_\_\_\_

## **INSPECTION TRIPS**

### *PRE CONSTRUCTION CONFERENCE*

There shall be a required pre-construction conference at the successful bidder's manufacturer's facility before any construction can begin.

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**NOTE:** The pre-construction conference meeting shall be conducted at the “primary builder”, of the apparatus. No meeting shall take place at the dealership’s place of business. This method will be the only acceptable way to conduct the pre-construction meeting. **NO EXCEPTIONS.**

Five (5) department personnel along with a representative or dealer of the successful bidder shall attend.

At this meeting both parties shall again go over the specifications to insure that the apparatus is built to meet or exceed all requirements.

After this meeting the representative of the successful bidder shall present the department with detailed drawings and work orders to be used in the production of the apparatus being bid.

Will you comply with all inspection trips? Yes \_\_\_\_ No \_\_\_\_

## ***MID POINT INSPECTION***

There shall be a midpoint inspection trip at the factory of the successful bidder. The inspection trip shall consist of five (5) members from the Department who shall inspect the progress of the apparatus to ensure compliance to all specifications.

Will you comply with all inspection trips? Yes \_\_\_\_ No \_\_\_\_

## ***PRE DELIVERY INSPECTION (FINAL)***

There shall be a pre delivery inspection trip at the factory of the successful bidder. The inspection trip shall consist of five (5) members from the department along with the representative of the successful bidder, to insure compliance with all specifications.

**NOTE:** All expenses relating to the Pre-Construction, Mid-Point and Final inspection trips shall be at the cost of the successful bidder and be at no cost to the Department. This is to include all meals and lodging while at the inspection along with travel allowances (round trip coach air flight), for up to 5 representatives for any factory that is over (260 miles) from the (McMinnville, Tennessee) facility.

**NOTE:** “PRIVATE PLANE”, is unacceptable and will not be considered.

Do you comply? Yes \_\_\_\_ No \_\_\_\_

Under no circumstances shall the completed ambulance leave the manufacturer’s facility unless everything is completed at the factory. Bidders that make allowances for units to be completed at their service facility or office shall not be acceptable to this bidding agency. **NO EXCEPTIONS.**

Do you comply? Yes \_\_\_\_ No \_\_\_\_

# ***TYPE I AMBULANCE SPECIFICATION***

## **ONE MONTH SERVICE CALL**

After the vehicle has been in service for approximately one month, the successful **manufacturer** shall send a trained "**FACTORY**" employee to the bidding agency, for a service and warranty review.

The Factory technician shall check all operating systems and repair or replace any items found defective or in need of re-working.

However should a problem occur before the one month service call, the bidding agency will require immediate service from the **FACTORY** technician, **at the Department's location**. **NO EXCEPTIONS**

Do you comply? Yes \_\_\_\_ No \_\_\_\_

Bid prices shall be valid for at least forty-five (45) days from the date of the Bid Opening, or as otherwise specified on the Bid Proposal Form.

Does your proposal comply? Yes \_\_\_\_ No \_\_\_\_

This agency seeks the highest level of quality assurance and liability protection. To ensure that these standards are met, Bidders must submit documentation that they are a **current member** of the Ford QVM (Qualified Vehicle Modifier) program. The QVM certification applies even in cases where the chassis bid is not a Ford Motor Company product. They must be able to show that they have been factory trained. Proposals not meeting this requirement will be considered non-responsive and shall be rejected. **If the bidder provides a document that is more than 2 years old then their bid shall be deemed non-responsive and the bid will be rejected. NO EXCEPTIONS.**

Do you comply with these requirements? Yes \_\_\_\_ No \_\_\_\_

## **WARRANTY**

The proposal shall include all warranties that are required in the following detailed specifications. The minimum acceptable warranty periods are noted below. In the blank lines the bidder shall note the terms of the warranty that apply to the manufacturer being proposed. **Each bidder will be required to submit their own warranty coverages. Simply checking and filling in the blanks below will not be tolerated and will be grounds for rejection.**

Bidding Agency shall provide a minimum 48 month/48,000 mile Limited Warranty on the vehicle conversion, which covers defective parts and/or components, improper choice of materials, parts and/or components, improper design or engineering and poor or improper workmanship or

# ***TYPE I AMBULANCE SPECIFICATION***

quality control techniques. This warranty shall cover the complete vehicle, exclusive of the chassis, and shall include any and all costs for labor and parts or materials required to correct deficiencies. It is not the intent of this requirement that items such as light bulbs, or equipment installed in or on the vehicles which are covered by their own separate and specific warranty statements, be included in this warranty.

State the General warranty terms you are bidding:

Number of years \_\_\_\_\_ Mileage \_\_\_\_\_

Since it is the purpose of these specifications to provide for a modular body that will offer many years of service, the Manufacturer of the vehicle(s) bid shall warranty the structural modular body for the life of the unit. This warranty shall be in writing and shall be included with the Bid Proposal. Bidders who fail to meet this requirement shall not be considered responsive.

State the Structural warranty terms you are bidding:

Number of years \_\_\_\_\_ Mileage limitations (if applicable) \_\_\_\_\_

There shall be an electrical warranty provided on the ambulance conversion electrical system. The warranty shall cover all conversion circuit boards, harnesses, switches, circuit breakers, and relays. This county will not accept bids that have a Lifetime Electrical unless the entire electrical system is covered under the original ambulance manufacturer. Warranties that cover wiring harness only will not be acceptable and will cause the bidder's bid to be non-responsive and unacceptable to this bidding agency.

State the Electrical warranty terms you are bidding:

Number of years \_\_\_\_\_ Mileage limitations \_\_\_\_\_

A seven (7) year paint warranty (no mileage limitations) shall be provided on the paint and its application. A copy of the painter's warranty statement shall be included with this Bid Proposal. All warranties shall begin at the acceptance of the vehicle(s) by the Purchaser. NOTE: **Manufacturers must be PPG Certified or show that their paint process is totally certified by the paint manufacturer's representatives.**

This certification must be provided in the bidder's submittal package. If not then their bid will be non-responsive and rejected. NO EXCEPTIONS.

State the Paint warranty terms you are bidding:

Number of years \_\_\_\_\_ (NO MILEAGE LIMITATIONS ACCEPTED)

For verification of the completed warranty terms stated above the bidder must include **printed manufacturer's warranty certificates** that meet or exceed the minimum required periods stated below. Simply providing on a Company Letterhead that the warranties above are included will not be acceptable. In the past the agency has had bidders just copy what the bid specification warranty states and this will not be acceptable and will be grounds for rejection.

# ***TYPE I AMBULANCE SPECIFICATION***

Are the manufacturer's warranties included? Yes \_\_\_\_\_ No \_\_\_\_\_

All warranties shall be from the manufacturer as opposed to a distributor or service center. This is necessary for the protection of the purchaser, and to guarantee a certain known level of service and warranty. If, however, the bidder feels that it is necessary to modify the manufacturer's warranties, then the bidder shall state why this modification is necessary. In addition, the bidder shall provide a full descriptive warranty certificate describing the warranty modification and the fact that it takes specific precedence over the warranty offered by the manufacturer. If no such certificate is provided, then the modified warranty shall be considered invalid and the manufacturer's warranty shall remain in force. If the manufacturer states that no party is permitted to modify its warranty, then any warranty modification provided by the bidder, despite being in writing, shall automatically be rejected.

Does the bidder conform to the above-written section? Yes \_\_\_\_\_ No \_\_\_\_\_

In order to simplify the evaluation process the following questions must be answered and this section must be initialed by the bidder.

Are the warranties pro-rated in any manner? Yes \_\_\_\_\_ No \_\_\_\_\_

If yes explain:

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Are the warranties transferable? Yes \_\_\_\_\_ No \_\_\_\_\_

If yes explain:

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Has the bidder modified the manufacturer's warranties? Yes \_\_\_\_\_ No \_\_\_\_\_

If yes explain:

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If 'yes' was chosen above, has the bidder included modified written warranties? Yes \_\_\_\_\_ No \_\_\_\_\_

If no explain:

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If 'yes' was chosen above, has the bidder included financial statements, for the last five (5) years, of the warranty modifier? Yes \_\_\_\_\_ No \_\_\_\_\_

If no explain:

# ***TYPE I AMBULANCE SPECIFICATION***

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Bidder shall initial that this section is understood and has been answered truthfully. Initials: \_\_\_\_\_

Note: Bidders, who are found to be untruthful in this, or in any other section of this bid, will have their bid automatically rejected.

## **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 - Aggregate policy limit of one million dollars.

Automotive Liability - Any Hired and Non-owned Autos  
Combined Single Limits of One million dollars.

Garage Liability - Any Auto  
Auto only - Each accident: limit of one million dollars.

Workers Compensation and Employer's Liability –

Each Accident: limit of five hundred thousand dollars.  
Disease policy: limit of five hundred thousand dollars.  
Disease - Each Employee: limit of five hundred thousand dollars.

Excessive/Umbrella Liability –

Each Occurrence: limit of nine million dollars

Automotive Damage, Physical Liability Damage  
Comprehensive Deductible:

Since these specifications describe an emergency vehicle that may be used under adverse conditions, this agency seeks to reduce its future liability exposure. Therefore, all bidders responding to these specifications shall submit a proper and verifiable Certificate of Insurance. This shall certify that the Manufacturer of the bid vehicle has in force Product Liability insurance in the *minimum* amount of ten million dollars (\$10,000,000.00). This insurance shall have been issued by a Company rated "A+" as reported in the current edition of Best's Key Rating Guide, published by Alfred M. Best Company, Inc.

# **TYPE I AMBULANCE SPECIFICATION**

The amount of Product Liability must be adhered to by **both** manufacturer and dealer, who will be providing the bid. Utilizing the ambulance manufacturer's insurance will be unacceptable if the bidder is an authorized dealer, they also must have coverage. The bidder must have in place ten million dollars (\$10,000,000.00) in liability for their service center as well.

Bidders failing to submit proof of the above requirement cannot be accepted and their Bid Proposal will be rejected.

Does the bidder comply with this requirement? Yes \_\_\_\_ No \_\_\_\_

The bidding agency has concerns with bidders not having the completed unit built by the manufacturer. With that said, the bidding agency will not accept units that are not built and completed at the manufacturer's facility. This will eliminate split responsibility for service and warranty repairs. Add-on equipment shall be furnished by the manufacturer and not their Representatives in order to avoid warranty issues. If the bidder makes any claim to adding equipment at the dealership, then your bid will be considered non-responsive and rejected. **NO EXCEPTIONS.**

Does the bidder comply with this requirement? Yes \_\_\_\_ No \_\_\_\_

It is the intent of this agency to have the vehicle completed and ready for service once it leaves the ambulance manufacturer's facility. **NO EXCEPTIONS.**

Does the bidder comply with this requirement? Yes \_\_\_\_ No \_\_\_\_

All equipment furnished shall be guaranteed to be new and of current manufacture; meet all requirements of this specification; and be in proper operating condition at the time of delivery. All parts shall be of high quality workmanship and construction.

No part or attachment shall be substituted or applied contrary to the manufacturer's recommendations and standard practices.

Does the bidder comply with this requirement? Yes \_\_\_\_ No \_\_\_\_

## **ANTI-COLLUSION STATEMENT**

By signing this proposal, the bidder agrees that his bid is made without any understanding, agreement, or connection with any other person, firm or corporation making a bid for the same purpose and that his bid is in all respects fair and without collusion or fraud.

Company Name: \_\_\_\_\_

Bidder's Signature: \_\_\_\_\_

Date Signed: \_\_\_\_\_

Bidder Complies: Yes \_\_\_\_ No \_\_\_\_

# ***TYPE I AMBULANCE SPECIFICATION***

## **SERVICE FACILITY**

Service will be a major factor in the award of this proposal. Convenience and experience will be determining factors in defining acceptable service. A service facility within a radius as described below will be required. Personnel performing the service shall be trained by the manufacturer with emphasis in the area of electrical service. In order to evaluate the proposed service facility the following information shall be provided on the appropriate lines. The Service Facility must have the same amount of Liability Insurance Coverage as that of the manufacturer.

This agency will not allow a bidder to simply state that they have a Factory/Trained Service Facility within the mileage indicated without that bidder showing that the Service Center is in fact a Current/Licensed Dealer or Manufacturer. It is this agency's intent to deal with an actual Ambulance Manufacturer and not a dealer that is simply selling a unit and is not able to stand behind any warranty issues.

Radius from Purchaser: Not more than 260 miles.

Facility Name (If not the manufacturer): \_\_\_\_\_

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

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

Contact: \_\_\_\_\_

Phone (Toll Free Preferably): \_\_\_\_\_

Training Description: \_\_\_\_\_

Bidders shall include with the Bid Proposal: literature, photographs or similar documents which describe or depict the manufacturer's type and model proposed; a complete set of the manufacturer's specifications for the type and model proposed; and one (1) set of drawings. These drawings shall consist of: four (4) exterior views; front, rear, curbside and street side and four (4) interior views; front, rear, curbside and street side, showing the location of all requested features attached thereto.

NOTE: the drawings submitted by the Bidder must show the design, layout, and features specified in this document. Submitting a manufacturer's "generic" or "standard feature" drawings, or photocopies of the reference drawings provided with this document, shall NOT be acceptable. Bidder's not including the required drawings will be considered non-responsive and will, therefore, be rejected.

Are the required drawings included with this bid? Yes \_\_\_\_\_ No \_\_\_\_\_

## **LICENSING REQUIREMENT**

# **TYPE I AMBULANCE SPECIFICATION**

Bidder must be a registered and/or licensed automobile dealer within the state of the purchaser. (TENNESSEE): This will insure the purchaser full protection under the laws governing the sale and service of automobiles within the purchaser's state. A copy of the dealer's license must be submitted with the bid. If the dealer's license is not included in the bid package, that bid will be REJECTED. (NO EXCEPTIONS)

Does the bidder comply with this requirement? Yes \_\_\_\_ No \_\_\_\_

The **bidder shall utilize these specifications** and **return their proposal in the same format as the specifications** are provided. Failure to submit the bid specifications in the following format will be grounds for rejection. **NO EXCEPTIONS.**

Are your specifications in the same format? Yes \_\_\_\_ No \_\_\_\_

## **QUALITY CONTROL ASSURANCE**

To ensure the Purchaser that proper engineering and production control guidelines have been implemented the ambulance manufacturing shall employ an integrated quality and process control program including specific process controls for facets of the manufacturing process deemed to be "critical." These critical elements of the process shall be documented and that documentation shall be available not only to manufacturing personnel but also customers who visit the manufacturing facilities. The critical elements shall be denoted on the vehicle control document, which accompanies the vehicle through the manufacturing process. A sample of this document shall be available to the purchaser upon request. A continuous series of inspections shall be performed and signed off on the vehicle control document and shall include but not be limited to the following:

Visual inspection of the body, welds, and exterior attachments.

Visual and mechanical inspection of the heater/air conditioning lines, cables, grommets, valve connections, clamps, mounting brackets, belts, etc.

Visual inspection of cabinets, sliding/hinged cabinet doors, moldings, flooring, walls, headliner, and cushions.

Visual inspection of exterior paint, decals, and lettering.

Operational inspection of all electrical systems. This must consist of tests of battery voltage, electrical load test, alternator output, beacons, flashers, siren, interior lighting, compartment lighting, power exhaust vent, scene lights, chassis lights, silent signal lights/buzzer, heat/cool units, and any optional electrical devices as furnished by the manufacturer. The current requirements of each device tested must be noted on an inspection sheet together with the total current requirements.

The oxygen and vacuum systems shall be tested both prior to and after installation to meet the requirements as listed in those individual sections of this specification. Test data indicating temperature, pressure, timing, flow, etc., shall be recorded.

All chassis fluid levels shall be checked and filled to capacity. All doors, locks, windows, tires, etc., shall be inspected for proper operations and/or condition.

# ***TYPE I AMBULANCE SPECIFICATION***

The completed vehicle must be test driven a minimum of twenty (20) miles on paved highways and on rough terrain to check handling, brakes, acceleration, and noises. A water spray test and visual inspection shall be performed after the road test.

Does the bidder comply with this requirement? Yes \_\_\_\_ No \_\_\_\_

## **GENERAL VEHICLE DESIGN, TYPE, AND FLOORPLAN**

The ambulance and the allied equipment furnished under this specification shall be the manufacturer's current commercial vehicle of the type and class specified. The ambulance shall be complete with the operating accessories as specified herein and furnished with such modifications and attachments as may be necessary or specified to enable the vehicle to function reliably and efficiently in sustained operation. The design of the vehicle and the specified equipment shall permit accessibility for servicing, replacement, and adjustment of components parts and accessories with minimum disturbance to other components and systems.

Does the bidder comply with this requirement? Yes \_\_\_\_ No \_\_\_\_

## **CURB WEIGHT**

The curb weight is the total weight of the complete ambulance and is defined as the chassis, cab, body, and minimum required equipment as required by KKK-A-1822F, and includes a full complement of fuel, lubricants and coolant shall meet Federal Requirements.

Does the bidder comply with this requirement? Yes \_\_\_\_ No \_\_\_\_

## **PAYLOAD ALLOWANCE**

A minimum of 2,250 pounds will be allowed over and above the curb weight for personnel, patient, and miscellaneous support equipment

Does the bidder comply with this requirement? Yes \_\_\_\_ No \_\_\_\_

## **INTERIOR HEADROOM**

There shall be 75" inch of interior headroom provided inside the patient area of the module. It shall be free of obstructions for the occupant's safety and shall meet or exceed all transportation and regulatory requirements.

## **TECHNICAL REQUIREMENTS CAB/CHASSIS**

The ambulance shall be a Type I, Class I, and shall have a chassis furnished with two-door cab/chassis, 4x2. The cab/chassis shall be suitable for subsequent mounting of a modular (containerized) transferable equipped ambulance body conforming to the requirements specified herein.

# ***TYPE I AMBULANCE SPECIFICATION***

Does the bidder comply with this requirement? Yes \_\_\_\_ No \_\_\_\_

## **STAR-OF-LIFE CERTIFIED AMBULANCE**

The Emergency Medical Vehicle described in this specification is designed to meet or exceed the requirements of Ford Motor Company QVM Program, Federal Ambulance Specification KKK-A-1822 Revision F, and AMD Standards 001-009.

NOTE: Throughout the written Federal Ambulance Specification KKK-A-1822, there are frequent references to item to be included WHEN SPECIFIED, but such items may not be included in the attached specifications.

A copy of the certification will be required in each bid package. The certificate will be current and if the bidder submits an outdated certification then their bid will be rejected. Each certification will be signed by a licensed third party testing facility that is approved to test to the Federal Star of Life Specification. **NO EXCEPTIONS.**

## **INSTRUCTIONS TO OFFERORS**

The Specifications calls for the following type of vehicle. It is in accordance with paragraph 1.2.1 of KKK-A-1822F.

Type I: Specialty (cab/chassis) with integral or containerized modular body.

Class 1: Two wheel driven (4x2)

Configuration B: Elevating cot and squad bench for ALS (see 3.1.5.1/3.15.3 of KKK-A-1822F).

The emergency medical care vehicle, chassis, ambulance body, equipment, devices, medical accessories, and electronic equipment to be delivered under this contract shall be standard commercial products that meet or exceed the requirements of these specifications. The ambulance shall comply with all Federal Motor Vehicle Safety Standards (FMVSS) and Federal regulations applicable or specified for the year of the manufacture. The chassis, components, and optional items shall be represented in the manufacturer's current technical data. Materials used in the construction shall be new and not less than the quality conforming to current engineering and manufacturing practices. Materials shall be free of defects and shall be suitable for the intended use.

## **SECTION 1.0 – CHASSIS AND COMPONENTS**

**O.E.M.:** The acronym O.E.M. is Original Equipment Manufacturer. The O.E.M. is the chassis manufacturer and the vehicles Make Origin.

# ***TYPE I AMBULANCE SPECIFICATION***

**CHASSIS MAKE:** The apparatus shall be mounted on a commercially available cab and chassis manufactured by Dodge, or equivalent manufacturer. The chassis manufacturer shall be the vehicle's point of origin. The chassis shall be supplied by Dodge, or equivalent manufacturer, as an incomplete vehicle to the successful ambulance manufacturer. The chassis supplied shall conform to all applicable Federal Motor Vehicle Safety Standards in force at time of manufacture. A statement of conformity shall be supplied with the chassis in an "Incomplete Vehicle Manual".

**CHASSIS MODEL:** The ambulance module shall be mounted on a 2015 Dodge Ram 4500 (4x2) Cab/Chassis, 189 inch wheel base, dual rear wheel, chassis or equivalent, equipped as follows below.

**WHEEL BASE:** The wheel base shall be 189 inches with a cab to axle of 108 inches. The wheel base shall be factory supplied by the O.E.M. Modified wheel bases made from chassis with shorter or longer wheel bases in not acceptable.

**ENGINE:** A 6.7L Cummins Turbo Diesel engine or equivalent shall be provided. The engine performance shall comply with or exceed the most current revision of KKK-A-1822F.

**ENGINE BLOCK HEATER:** A 750 Watt 125 volt AC Engine Block Heater package shall be included on the chassis. After-market systems will not be acceptable.

**TRANSMISSION:** A 6-speed, automatic Allison with overdrive transmission, or equivalent, shall be provided

**GROSS VEHICLE WEIGHT RATING (GVWR):** The GVWR of the chassis supplied shall be at least 16,500 pounds.

**FRONT AXLE WEIGHT RATING (FAWR):** The FAWR shall be rated at no less than 7,000 pounds.

**REAR AXLE WEIGHT RATING (RAWR):** The RAWR shall be rated no less than 12,000 pounds.

**TURNING DIAMETER:** The proposed vehicle(s) turning diameter shall not exceed twenty four feet and 3 inches measured from one curb to another parallel curb.

**CAB INTERIOR COLOR:** The color of the cab interior shall be diesel gray/black. All conversion manufacturer's added consoles and devices shall be pleasing in color with the interior color provided by the O.E.M.

**REAR SUSPENSION – SPRINGS:** The unmodified O.E.M. springs shall be supplied. The springs shall be single stage, constant rate leaf type with a combined 12,000 pound rating, measured at the ground.

**CAB SEATS:** O.E.M. high back, velour covered bucket type seats shall be provided in the cab. The seats shall adjust forward and aft as well as recline. Seat base must be O.E.M., per Ford QVM guidelines.

**OCCUPANT RESTRAINT SYSTEM:** The front, forward facing cab seats shall be equipped with O.E.M. installed three point seat belts. The seat belts shall have pre tensioners built in to the

# ***TYPE I AMBULANCE SPECIFICATION***

seatbelt assembly to take up belt slack during a violent frontal collision. The seat belts assemblies shall meet or exceed F.M.V.S.S. 208 and 209. The inside conversion panels shall not interfere with the swivel arc of the shoulder ring.

**SUPPLEMENTAL RESTRAINT SYSTEM:** An O.E.M. air bag shall be installed on the driver and passenger side.

**TRIM PACKAGE:** The highest level trim package shall be supplied from the O.E.M. The package shall include high quality chrome like bright work on the grille face. Chrome plated steel bumper(s) shall also be supplied by the O.E.M. Argent or painted bumpers are not acceptable. The O.E.M. grill work shall remain the same O.E.M. After market vacuum formed, proprietary grille work made by the ambulance manufacturer is not acceptable due to replacement part cost and lack of immediate availability.

**CAB FLOOR COVERING:** The cab floor shall be covered with an O.E.M. black rubber mat.

**BRAKES:** 4-Wheel anti-lock, power assisted hydraulic brakes shall be supplied by the O.E.M. The brakes shall be 4-wheel Disc type with Dual piston calipers and front and rear vented discs.

**TILT STEERING WHEEL:** The steering wheel shall be tilt adjustable. An easy to operate, column mounted pull to adjust lever shall lock the steering wheel angle position.

**SPEED CONTROL:** Ford Speed Control option Code 525 shall be ordered on the chassis.

**POWER ADJUSTABLE PEDALS:** Shall be provided.

**DOOR LOCKS:** The chassis shall have O.E.M. power door locks. There shall be a remote O.E.M. key fob included with the package.

**DAYTIME RUNNING LIGHTS:** Daytime running lights shall be supplied and installed by the O.E.M. Both headlights shall come on with the ignition switch.

**WHEEL/RIM APPEARANCE:** All four outside chassis wheels shall be covered in polished stainless steel wheel simulators. The wheel simulator design shall not affect tire and wheel balance when the vehicle is driven between zero and eighty miles per hour. The lugs shall be capped off with bright stainless steel, snap on caps designed to cover wrench marks, normally left on the lug nuts.

**SHOCK ABSORBERS:** The chassis shall be equipped with one shock absorber for each side of each axle. An O.E.M. selected one and three eights (1-3/8") inch gas type shock shall control vehicle spring oscillation and dampen road related jounce and harshness. Ambulance related shields, floor members or other devices shall not interfere with shock replacement.

**FUEL TANK:** The fuel capacity shall be at least 50 US gallons. The fuel range shall be at least 250 miles per current KKK-A-12822F.

**REAR AXLE TYPE AND RATIO:** The axle type shall be a Limited Slip Differential with a 4.10:1 gear ratio.

# ***TYPE I AMBULANCE SPECIFICATION***

**SPARE TIRE STOWARD LOCATION:** The spare tire and wheel assembly will not be carried on the units. The spare tire and the related tools shall be provided and be shipped loose with the completed vehicle.

**TIRES:** All tires shall be identical make, thread type, size and load range. The tires shall be LT225/70SR19.5G front and rear (Includes Spare).

**TIRE VALVE EXTENDERS:** One pair of tire valve extenders shall be supplied and installed for each inside rear wheel. The tire valve extenders shall permit the user to check tire pressure and fill the inside rear tires without removing the outer tire. The extenders shall have a braided stainless steel outer jacket to resist abrasions and cuts. The filler end shall be supported by a valve bracket.

**AMBULANCE PREPARATION PACKAGE:** The chassis provided shall be equipped with an (AH2) ambulance preparations package designed and installed by O.E.M. The package shall be designed to hold up to the demands and duty cycles inherent with Emergency Medical Vehicles.

**ALTERNATOR – CHARGING SYSTEM:** 220 Amp Alternator

**THROTTLE HIGH IDLE:** The O.E.M. high idle shall be installed by Dodge or equivalent manufacturer.

**CAB STEREO:** An O.E.M. AM/FM/CD in dash radio and two cab door speakers shall be included with the chassis. SIRIUS Satellite Radio provided.

**SIDE REAR VIEW MIRRORS:** Dual O.E.M. Mirrors with power adjusted mirror glass and manually telescoping mirror heads shall be mounted to the forward, lower corner of the cab door window. Both mirrors shall feature a bi-directional break-away function to permit folding the mirror heads against body in close quarters. Mirrors shall be heated. Additionally convex mirrors shall be provided below each flat glass area on both sides to minimize blind spots.

## **RUNNING BOARDS**

Running Boards shall be NERF Bars in lieu of Diamond Plate.

Running boards shall be reinforced and braced to handle a minimum of 350 pounds without flexing. Running board installation is to conform to chassis manufacturer's recommendation.

Above section bid exactly as written: Yes \_\_\_\_ No \_\_\_\_

## **SIREN SPEAKERS**

There shall be provided two (2) 100 watt electronic speakers. The speakers shall be recessed into the front bumper.

Above section bid exactly as written: Yes \_\_\_\_ No \_\_\_\_

# ***TYPE I AMBULANCE SPECIFICATION***

## **AIR RIDE KNEELING FEATURE OVERRIDE SWITCH**

The chassis shall have a Liquid Spring, Model DS-120R-A (R-4500) Suspension System with struts; Power Module w/ECU, Height and Steering Sensors. Liquid Spring air ride suspension system with an automatic lowering feature when street side rear passage door is opened. A momentary Lighted and Function labeled disable switch shall be provided at the rear doorway to deactivate the system. The system shall include dual electronic leveling valves, tank/compressor mounted inside the frame rail, 1-1/2" front and OEM rear stabilizer bars, and a heated automatic drain valve. The compressor and solenoid valve shall be able to be relocated if necessary

System shall contain:

Automatic Vehicle Leveling  
Automatic Ride and Handling Control  
Driver Display  
On/Off Button  
Ride Height Adjustment with Driver Display  
Above section bid exactly as written: Yes \_\_\_\_ No \_\_\_\_

## **EXHAUST SYSTEM**

The exhaust system shall conform to the chassis manufacturer's requirements.

Above section bid exactly as written: Yes \_\_\_\_ No \_\_\_\_

## **SPLASH GUARDS / MUD FLAPS**

There shall be provided a set of splash guards installed in the front wheel wells of the cab. The splash guards shall be constructed of aluminum and shall be securely fastened to the inside of the wheel well.

Additionally, there shall be provided a set of heavy duty rear mud flaps. The flaps shall be made of thick rubber material and shall be as wide as the dual rear wheels.

The mud flaps shall be securely fastened to the module body using stainless steel fasteners.

There shall be no company logo printed on the mud flaps whatsoever.

## **ENGINE BLOCK HEATER**

There shall be an engine block heater wired to the shoreline. In addition there will be switch outlet in the driver's cab to allow the attendant to turn it On/Off.

NOTE: The switch will be lighted.

# ***TYPE I AMBULANCE SPECIFICATION***

Above section bid exactly as written: Yes \_\_\_\_ No \_\_\_\_

## **HEAT SHIELD**

To further insulate and protect the patient compartment the ambulance manufacturer shall install 18 gauge galvanized steel below the subfloor material to act as a heat shield. An 18 gauge galvanized steel sheet, with waterproof insulation laminated to it, shall be installed directly to the bottom of the floor tubes. This will create a sandwich style construction to further insulate the patient floor in the area of the muffler and exhaust.

Above section bid exactly as written: Yes \_\_\_\_ No \_\_\_\_

## **SECTION 2.0 - MODULE CONVERSION BODY CONSTRUCTION OVERVIEW**

The dimensions of the patient module shall be in accordance with manufacturer's specifications with minimum dimensions of (169" in length, 96" in width, and minimum 70" headroom).

There shall be a bulkhead separating the cab and patient compartment that allows for a pass through area.

The ambulance body shall be constructed of custom designed aluminum extrusions and aluminum plate. The ambulance body shall be designed and engineered specifically as an emergency vehicle and shall be built to meet the heavy duty requirements of emergency service.

The body shall be of welded construction for maximum strength and integrity for the entire life of the ambulance. The aluminum extrusions shall be custom designed structural shapes that are an alloy of 6061 and heated to a temper of T6 hardness.

The aluminum shapes shall be designed with a force fit interlocking system that shall eliminate any vibration to the welded structural members. The interior structural members, sides and roof shall be spaced a minimum of 14 inches on center. The floor structure shall be a minimum 14 inches on center. The floor, roof and sides shall be of a cage-type construction that is built to form an independent structure.

The exterior walls shall be constructed of a minimum of .125 inch thick aluminum plate 3003 alloy with a heat treated plate that is stretch leveled to a tolerance of +/- 0.003 inches. The exterior walls shall interlock into place.

All exterior compartments shall be separate and individual components and no two compartments shall share a common wall.

Above section bid exactly as written: Yes \_\_\_\_ No \_\_\_\_

## **BODY TO CHASSIS MOUNTING**

# ***TYPE I AMBULANCE SPECIFICATION***

Ford OEM 2" high "High Hat" laterals with 2" x 2" x 4" x 3/16" thick structural steel angle welded to each end are attached laterally to the chassis on Ford OEM rubber body mounting bushings.

The frame spacers are to be supported by outriggers made of 5" x 5" x 5" x 3/8" thick steel angles which are bolted to the outer side of the chassis frame rails with three (3) 1/2" Grade 5 bolts each. Additionally, steel surfaces that will come into contact with aluminum floor structure components are to be covered with PVC tape to prevent contact between the dissimilar metals.

The floor structure is to be bolted in place with not less than twelve (12) 1/2" Grade 5 T-head bolts through holes in the 2" x 2" aluminum longitudinal floor framing members and steel angle brackets welded to the ends of steel lateral frame spacers. This design allows the body to be removed and remounted without disturbing the finished floor in the interior patient compartment.

Above section bid exactly as written: Yes \_\_\_\_ No \_\_\_\_

## **VEHICLE LOWER RUB RAIL**

The lower rub rail shall be of a polished aluminum "C" channel that is 2" wide x 3" high. The "C" channel shall have a recessed section that will have reflective red/white striping applied. The extruded rub rails shall be installed on lower sides of the modular body using stainless steel fasteners and rubber spacers between the rail and body.

The safety in adding the reflective striping along with the ease or replacement is the preferred and acceptable method.

Above section bid exactly as written: Yes \_\_\_\_ No \_\_\_\_

## **ROOF RADIUS**

The roof radius shall be an extruded aluminum shape with an alloy and temper of 6061-T6 with an ultimate strength of 42,000 PSI.

The shape shall be a four inch radius with a built-in inner structural connector to form a one piece side and roof structure.

The roof radius shall incorporate a built-in drip molding to aid in the channeling of water.

Above section bid exactly as written: Yes \_\_\_\_ No \_\_\_\_

## **ROOF CONSTRUCTION**

The roof shall be constructed of 0.125" thick aluminum plate. The roof structure shall consist of 2" x 3" 6063-T5 aluminum tubing that shall span the full width of the body and have a bow effect to facilitate water runoff from the roof.

# ***TYPE I AMBULANCE SPECIFICATION***

Roof structure that is less than 0.125" thick will not be accepted.

The roof tubes shall be welded to the roof and to the inner structural connector of the radius. The aluminum plate sheet roof shall be completely welded to the roof radii.

Above section bid exactly as written: Yes \_\_\_\_ No \_\_\_\_

## **CORNER RADIUS**

The corner radius shall be of the same heavy duty construction as the roof radius, except there shall be a built-in drip molding. The corner radius shall be a three inch radius.

All corners shall be a semi-hollow shape for structural strength and shall give a smooth exterior appearance without the need for bending or forming sheet metal.

Above section bid exactly as written: Yes \_\_\_\_ No \_\_\_\_

## **SIDE STRUCTURE**

The sides shall be constructed with four corner radii. The radii shall be a three inch arc shape with interlocking edges on both sides. The extrusions shall be of an alloy of 6061 with a heat treated temper of T6.

The corner and roof shall be designed to work as a system that has a double gusset connector in each corner joint.

**THE ROOF, CORNER AND SIDES SHALL BE WELDED SO AS NO BOLTS OR RIVETS ARE REQUIRED OR PERMITTED.**

The sides shall be of a 'jig-locked' style construction. The jig shall hold the corners and body side panels in place while an inner 6063-T5 structure is welded into place. The members shall be located 14 inches on center and welded to the roof rail and inner structure connector that shall be the roof members.

The exterior aluminum panels .125" shall interlock with the roof corner and specially designed extruded aluminum compartment door frames and shall be constructed of a 6063-T5 material. The door frame extrusion shall be designed to match fit the exterior compartment doors. The frame shall be a full ¼" thick to allow for taping for door hinges.

The door frame shall have an exterior trim edge that shall channel any water away from the compartment openings.

## **FLOOR STRUCTURE**

# ***TYPE I AMBULANCE SPECIFICATION***

The floor structure shall consist of 2" x 3" x 0.125" structural 6063-T5 aluminum tubing. The tubing shall be located on 12 inch centers.

These tubes shall extend the full width of the body between compartment boxes. The floor tubes shall be completely welded to the side structure channels.

## **VAPOR BARRIER**

To further insulate and protect the patient compartment the ambulance manufacturer shall install an aluminum vapor barrier. A 0.63 aluminum sheet shall be installed directly between the flooring and the 2" x 2" floor tubes. This will create a sandwich style construction to further insulate the patient floor in the area of the muffler and exhaust system.

The entire underside of the modular body shall be sealed.

## **CORNER GUARDS**

The lower rear corners of the body shall have approximately 12"-1/2" high, .0125 aluminum diamond plate rolled around the corners' radius and terminate at the rear kick plate area. These stone guards shall be fastened to the body with .50" – 10 TX-25 Type F Torx head screws. The top edge of each stone guard shall be sealed to prevent moisture and debris from collecting behind the guards

## **COMPARTMENT CONSTRUCTION**

All exterior compartments shall be constructed of 0.125" smooth aluminum plate. All corners and seams shall be completely welded to prevent outside elements from entering the compartment.

Each compartment shall be finished with a "scorpion liner" type material. NO EXCEPTIONS.

Additionally, each compartment shall be vented with a four inch aluminum vent.

## **DOOR CONSTRUCTION**

All door edges and frames shall be constructed of a specially designed extruded aluminum shape of 6063-T5 alloy and temper. All door frames shall be welded to the exterior sheets and to the side structure channels.

The exterior sheets shall fit into the door frame and shall be welded to the frame from the inside of the door body. The door edges shall all be welded together and then welded to the outer panels.

Exterior door panels shall be 0.125" thick 5052-H32 aluminum plate with an ultimate strength of 38,000 PSI. The panel shall fit into the door edge extrusion and shall be welded to the extrusion from the inside of the door.

# ***TYPE I AMBULANCE SPECIFICATION***

The entry door inner liner shall be constructed of 0.100" aluminum plate sheets with reflective chevron striping. The liners shall be fastened to the door extrusions with stainless steel screws. The liner shall be removable for access to the latching mechanism. Inner door panels that are one piece will not be acceptable. The lower aluminum panel shall be covered with Red/Yellow Reflective striping. **NO EXCEPTIONS.**

## **DRIP RAIL**

Every compartment door opening shall have add-on Polished Aluminum drip rail.

## ***EBERHARD LOCKING PULL HANDLES LATCHES***

There shall be provided locking grabber latches on each exterior door. The door handle shall be bolted into place to allow for easy repair or replacement if damaged. The latches shall be controlled with connecting rods.

*NO CABLES SHALL BE NEEDED OR SUPPLIED.*

The handles shall be chrome Eberhard "EASY GRABBER SERIES 2100," or equivalent, grabber with large, easy to use handles. Bidders offering other than these style door handles will not be acceptable. These handles are available to all manufacturers.

## **STAINLESS STEEL DOOR HINGES**

There shall be provided a stainless steel continuous hinge on each of the exterior doors. The hinges shall extend the full length of the door and shall contain a minimum 1/4" stainless steel pin.

All hinges shall be bolted to the door and door frame using 1/4" stainless steel bolts for easy removal if damaged. The hinge shall be separated from the door and frame by a Mylar strip which shall act as a corrosion barrier.

## **DOOR SPRING HOLD BACKS**

There shall be provided a door spring opener and closer on each exterior compartment and side entry door. The door spring shall be bolted to the door using a fabricated spring hold bracket.

The door spring hold back shall operate on a '50/50 principal': if the door is partially opened, it shall close or if the door is over halfway open, the door will open fully.

Manufacturers that offer gas style hold openers will not be accepted due to the failure rate of gas holders. **NO EXCEPTIONS.**

# ***TYPE I AMBULANCE SPECIFICATION***

## **CAST DOOR GRABBERS**

There shall be provided two (2) cast door grabbers installed on the rear entry doors. The cast grabbers shall consist of two parts: a loop and receiver.

The loop shall be installed on the lower portion of the rear entry door. The corresponding receiver shall be installed on the rear wall.

When the rear doors are opened, the door grabbers shall securely hold the doors open.

## **MODULE, FLOOR AND ENTRY DOOR INSULATION**

The ambulance flooring system shall be insulated with 3" thick expanded Polystyrene Fiber insulation. The poly fiber shall be cut to closely fit the spaces between the structural framing and shall be attached to the underside of the floor skin with a spray adhesive suitable for use on EPS insulation.

After the insulation is in place, an aluminum weather shield (.060" aluminum) cover is to be bonded to the entire bottom side of the floor framing to protect the insulation from road splash.

To enhance the insulation, all exterior inner compartments will be wrapped in an Aluminum Reflectix Material; this is to include the wheel wells also.

In addition to the Poly Fiber inside the module, ALL Exterior Compartment Doors, including Side and Rear Entry Doors shall be insulated with the Poly Fiber.

The insulation must meet ASTM E84 20/30 guidelines for flame and smoke.

Photos of this type insulation will be required. **NO EXCEPTIONS.**

## **FENDER FLARES**

A polished aluminum fender flair shall be installed around the rear wheel well openings. They will be installed so as not to interfere with tire rotation, movement, or replacement. A layer of butyl self-sealing tape will be applied between the fender flares and the body panels for corrosion protection.

## **FUEL FILL BEZEL**

The fuel tank fill will be protected by a cast aluminum fuel fill guard with polished flanges.

## **Fuel Fill Splash Guard, Brushed Stainless Steel**

The fuel tank fill will be protected by an aluminum fuel fill guard with polished flanges.

# ***TYPE I AMBULANCE SPECIFICATION***

## **REAR BUMPER**

The rear bumper sub-structure must be constructed from 1-1/2" x 3" steel channels and 10 gauge steel plate. The components must be fully welded and coated with automotive water based undercoating to prevent rust, and then bolted to the OEM frame rails.

Aluminum diamond plate bumper pods, approximately 23" wide x 11" deep x 4" high shall be constructed to fit over the outboard ends of the sub-structure and must be bolted in place using stainless steel fasteners.

The middle portion of the bumper assembly (approximately 48" wide) shall incorporate a fold up section of aluminum grip strut material. The hinge must be stainless steel and installed so that the step folds toward the body to facilitate stretcher loading. NOTE: The bottom must be closed off on the flip up section, leaving sides open for drainage.

The rear bumper shall meet the requirements set forth in the AMD Standard 018-Rear Step and Bumper Test. The bumper shall be able to accommodate a 500 lb. load with maximum deflection of 1-inch and no more than ¼-inch permanent deformation.

## **DOCK BUMPERS**

Two (2) rubber dock bumpers shall be provided and installed on the rear of the vehicle, to cushion the vehicle against impact. These dock bumpers shall be addition to the specified rear bumper. The bumpers will be full length.

## **CAB TO PATIENT COMPARTMENT PASS-THRU**

A 17" wide x 17" high pass-through opening with a hinged Plexiglas window shall be framed into the front wall. It shall have a head bumper for occupant safety and shall coincide with an opening of equal size framed into the back wall of the chassis-cab. The space between the cab and module shall be sealed by the installation of a flexible rubber "accordion" style enclosure. Inflatable or rigid seals shall not be acceptable.

## **EXTERIOR COMPARTMENTS**

### **DRIVER'S SIDE COMPARTMENT L1**

This compartment shall be located on the forward driver's side of the ambulance body. The compartment floor shall be of a 'sweep out' style.

The compartment shall be designed to house two (2) oxygen cylinders and shall contain an approved oxygen cylinder retention system. There shall be proved access to this compartment from within the patient compartment.

# ***TYPE I AMBULANCE SPECIFICATION***

The compartment shall have a single, vertically hinged door with a “scorpion” style interior surface and a LED strip compartment light that activates upon opening of the compartment door.

## **COMPARTMENT L2**

This compartment shall be located aft of compartment “A”. The compartment floor shall be of a ‘sweep out’ style.

There shall be one (1) adjustable shelf provided.

This compartment shall have single vertically hinged doors with a “scorpion” style interior surface and a LED strip compartment light that activates upon opening of the compartment door.

## **COMPARTMENT L4**

This compartment shall be located aft of the rear wheel well of the apparatus. The compartment floor shall be of a ‘sweep out’ style.

The compartment shall have dual vertically hinged doors with “scorpion” style interior surface and LED strip compartment light that activates upon opening of the compartment door.

There shall be one (1) adjustable shelf provided, ½ depth to allow for Stair Chair Storage.

## **PASSENGERS SIDE COMPARTMENT R1**

This compartment shall be located on the forward passenger’s side of the ambulance body. The compartment shall be 74” High x 22” Wide x Full Depth (ALS). The entire compartment shall be open from the inside and the outside. Additionally there shall be provided access to this compartment from within the patient compartment.

The compartment shall have two each adjustable shelves “aluminum”, on uni-strut tracks.

The compartment shall have a single, vertically hinged door with an interior LED strip compartment light that activates upon opening of the compartment door.

## **PASSENGER SIDE COMPARTMENT R3**

This compartment shall be located aft of the rear wheels.

The compartment shall have two each adjustable shelves “aluminum,” on uni-strut tracks.

# ***TYPE I AMBULANCE SPECIFICATION***

The compartment shall have a single, vertically hinged door with an interior LED strip compartment light that activates upon opening of the compartment door.

## **PASSENGER SIDE COMPARTMENT R4**

This compartment shall be the rearmost compartment and shall be 74" High x 22" Wide x 22" Deep.

The compartment shall have a single vertically vented hinged door with "scorpion" style interior surface. The compartment shall contain a LED strip compartment light that activates upon opening of the compartment door.

In addition there shall be one (1) vertical divider. All shelves and dividers shall be scorpion lined.

All exterior patient compartment doors shall be keyed alike.

## **DOOR LATCHING HARDWARE**

All module doors, compartment and entry, shall utilize two (2) rotary style latches per door leaf, closing onto two (2) "Nader" striker pins with capped heads and adjustable cage nuts. Construction using other latching methods, striker pins without capped ends, or single striker pins is NOT acceptable.

## **COMPARTMENT DOOR HANDLES**

All exterior compartment doors shall have chrome plated Eberhard Model # 21000 "E Grabber Series," or equivalent, locking handle with neoprene gasket. There shall be 2-pt locking

Pull handle assembly shall be made out of die cast material. The handle shall be large and easy enough to use. The assembly shall include a double-bitted key cylinder in locking versions, factory installed gasket and free-wheeling feature, water resistant, and blind mounting brackets for security and appearance. The handle will be connected to the latching mechanism by threaded rods. Latching systems using cables or pinned rods will NOT be acceptable.

Since these door handles are readily available to all manufacturer's there will be no exceptions to this section.

## **COMPARTMENT DOOR PUNCHED LOUVER(S)**

# ***TYPE I AMBULANCE SPECIFICATION***

One (1) exterior compartment door shall be provided with machine stamped louvers in the exterior skin and the interior diamond plate liner. The punched door louver shall be located on the street side forward compartment. Add on style louvers will not be acceptable and your bid will be deemed non-responsive and will be ground for rejection.

## **EXTERIOR COMPARTMENT FLOOR TILE**

The floor of each exterior compartment shall be covered with Dri-Deck material that shall be black in color.

## **SIDE ENTRY DOOR**

A side entry door to the patient compartment shall be provided, sized and located as shown in the attached prints. It shall have a full length stainless steel hinge, with pin not less than 1/4" in diameter, on the forward edge of the door and a stainless steel spring controlled door check which will hold the door at not less than 90 degrees when open.

Side entry door shall be double insulated to reduce noise. Using Poly Fiber and the entire door will be covered.

## **CURBSIDE ENTRY DOOR HANDLES**

The curbside module entry door shall have a chrome plated Eberhard locking handle, or equivalent, with neoprene gasket on the exterior of each door. On the interior of this door, a Tri-Mark automotive lever style handle with slide lock lever and black plastic bezel will be installed.

These handles will be connected to the rotary latching mechanism by steel rods with an anti-corrosion coating factory applied. Latching systems using cables or pinned rods for latch activation will NOT be acceptable.

Rear Patient Entry Doors shall be double insulated to reduce noise. Using Poly Fiber and the entire door will be covered.

## **REAR ENTRY DOORS**

Double leaf rear entry doors to the patient compartment shall be provided, sized and located as shown in the attached prints. They shall have full length stainless steel hinges with pins not less than 1/4" in diameter.

Rear Patient Entry Doors shall be double insulated to reduce noise. Using Poly Fiber and the entire door will be covered.

# ***TYPE I AMBULANCE SPECIFICATION***

One (1) pair of Cast Products "Grabber," or equivalent, door hold open devices shall be installed on the exterior of the doors to hold them open when necessary. The devices shall be located at the top of the rear doors. The rubber insert into the "female" side of the hold open device shall be replaceable. They shall be fastened to the door and doorframe with self-locking stainless steel screws. NO EXCEPTIONS WILL BE ALLOWED.

## **REAR ENTRY DOOR HANDLES**

Each rear module entry door shall have a chrome plated Eberhard, or equivalent, locking handle with neoprene gasket on the exterior of each door. On the interior of each door, a Tri-Mark, or equivalent, automotive lever style handle with slide lock lever and black plastic bezel will be installed.

These handles will be connected to the rotary latching mechanism by steel rods with an anti-corrosion coating factory applied. Latching systems using cables or pinned rods for latch activation will NOT be acceptable.

## **ENTRY DOOR GRAB BARS**

A 1.25" diameter stainless steel grab bar with 120 degree "V"-style bend shall be provided and installed on the inside of each entry door.

## **ENTRY DOOR FINISHES and COMPONENTS ENTRY DOOR UPPER LINERS**

Above the kick plate, the entry doors shall be finished using vinyl wrapped and 1/8" aluminum panel. The vinyl shall match the seating color selection and the padding shall be approximately 1/4" thick. The upper liner shall be secured to the inside of the entry doors using stainless steel screws.

## **CENTER DOOR LINER**

An aluminum plate covered in matching formica shall be utilized and attached to each entry door. The cover shall be secured to the inside of the center of each entry door with stainless steel screws and a "J" channel slot so that it allows easy removal to access the door latching mechanism.

## **ENTRY DOOR KICK PLATES**

A piece of .063" smooth aluminum plate will be installed on the lower inside portion of each door to serve as a kick panel. The kick plates will be attached to the door pan and liner using stainless steel screws. The kick plate shall be covered in Reflective BLUE/WHITE Chevron's.

# ***TYPE I AMBULANCE SPECIFICATION***

## **STAINLESS STEEL DOOR SILL PROTECTION**

There shall be 22 gauge formed stainless steel compartment doorsill protection for all exterior compartments. The stainless protector shall be affixed with heavy duty double side tape to the top surface of the doorsills and extend over the radius edge.

## **SIDE ENTRY DOOR WINDOW**

An 18" x 24" powdered coated aluminum framed window is to be centered in the entry door, with the top of the window about 6" down from the top of the door. The window will be double pane and will have a Mirror Tint. The window shall be capable of opening via a sliding section of the glass. The sliding section must be positively latched when in the closed position to prevent it from being opened from the outside. It must also include a sliding screen section to cover the opening.

## **ENTRY DOOR WINDOW**

Two (2) 14" wide x 24" high powdered coated aluminum framed windows are to be centered in the entry door, with the top of the windows about 6" down from the top of the door. The mirror tinted windows will be double paned. The mirror tinted window shall be single piece fixed glass.

## **EXTERIOR MODULE COMPARTMENT COMPLIANCE**

Checking Yes to the Compliance here indicates the bidder complies with the above exterior module compartment and equipment section **in its entirety** and will provide the above mentioned compartment dimensions, accessories additional options and equipment as specified. As mentioned previously in this document, exceptions to the compartment dimensions, accessories and additional equipment and options may be taken. Exceptions will not necessarily be cause for rejection in this section as not all manufacturers can meet these compartment dimensions to the exact inch. If exceptions are taken, documented dimensions and specifications must be provided of what the bidder is choosing to provide in lieu of what is specified here. **Failure to provide this information will be cause for rejection.**

## **SECTION 3.0 - PATIENT COMPARTMENT INTERIOR MODULE**

### ***INTERIOR CABINERY***

#### **CONSTRUCTION REQUIREMENTS**

In general, the interior of this ambulance shall incorporate features to mitigate injuries to passengers caused by sudden hard braking or accident impact. Exposed edges shall be protected by radius or chamfer trim and, where possible, corners shall be rounded with radius trim. All devices and equipment will be mounted as flush as possible with its surrounding

# ***TYPE I AMBULANCE SPECIFICATION***

surface. Padding shall be installed in areas where features may obstruct head movement as attendants work within the patient compartment.

The layout of interior cabinetry for this ambulance shall be as indicated in the enclosed drawings. Variation from this design may not serve the needs and requirements of this agency and may be cause for rejection of the bid. As stated earlier in this document, the bidder must supply drawings which will be considered when determining whether a particular design meets those needs.

The cabinets in this vehicle shall be constructed of 3/4" cabinet grade plywood which has been covered by a commercial grade high pressure plastic laminate prior to its use in fabricating the cabinetry. Plastic, fiberglass, or composite wood will not be acceptable for use in the cabinetry structure.

All cabinets will be fastened together by the use of aluminum angles set into the inside corners and fastened with wood screws. Construction that glues the components together and uses wood screws driven into the edge of the plywood is NOT acceptable due to the reduced holding capability of screws driven into the veneered edge. Additionally, cabinetry shall be firmly bolted to mounting plates welded to the body side structure.

All cabinet trim, 'head-knocker' pads and various other trim pieces shall be covered in color coordinated vinyl upholstery.

Additionally there shall be provided full dry eraser board material on the interior side walls.

## **INTERIOR PATIENT COMPARTMENT COMPONENTS**

**Patient Compartment Sound Levels:** The vehicle shall provide an interior working environment in which the ambient noise level is less than 80 dB as measured according to AMD Standard 006, Sound Level Test Code for Ambulance Compartment Interiors.

**Patient Compartment Carbon Monoxide Levels:** The vehicle shall provide an interior working environment in which the carbon monoxide level is less than 10 ppm as measured in accordance with AMD Standard 007, Carbon Monoxide Levels for Ambulance Compartment Interiors.

## **CABINET DOORS**

All cabinets along the street and curb side of the vehicle shall have a mitered framed, sliding transparent Plexiglas door assembly. 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 rubber track to prevent the door from sliding free during transit. Additionally the corners of the assembly shall have a supporting corner angle. All extrusions shall be anodized.

Color shall be **SMOKE**.

# ***TYPE I AMBULANCE SPECIFICATION***

## **INTERIOR SHELVING**

All shelving in the interior module shall be aluminum and painted white with a black rubber edge. The shelving shall have adjustable struts that are bolted in and not screwed. No wood is desired or will be acceptable. NO EXCEPTIONS.

## **CABINET LATCHES**

Stainless Steel Round Southco, or equivalent, locking latches shall be provided on each door where applicable.

## **SS CABINET ABOVE FORWARD ACTION AREA**

There shall be one cabinet located above the forward action area. The cabinet shall have one (1) aluminum shelf painted white. The dimension shall be 38-1/2" W x 16" High and as deep as possible.

The cabinet shall be angled for safety.

## **SS CABINET ABOVE SECOND ACTION AREA**

There shall be a cabinet located above the rearward action area directly above the counter. The cabinet shall have one (1) painted aluminum adjustable shelf. The dimension shall be 30-1/2" W x 20" High and as deep as possible.

## **SS CABINET DIRECTLY BELOW THE UPPER CABINET**

There shall be an open cabinet with no doors directly above the second action area.

## **SS SLIDE OUT DRAWERS BELOW SECOND ACTION AREA COUNTER**

There shall be two (2) pull out drawers located below the second action area counter.

Both drawers shall have Southco, or equivalent, Chrome Locking Latches.

## **SS CABINET REAR UPPER AREA**

There shall be one cabinet located in the upper rear area of the street side cabinet. The cabinet shall have one (1) aluminum painted adjustable shelf. The dimension shall be 23" W x 20" High and as deep as possible.

## **SS CABINET REAR CENTER AREA**

# ***TYPE I AMBULANCE SPECIFICATION***

There shall be a cabinet located directly aft of the second action area counter. The cabinet shall have one (1) aluminum painted adjustable shelf. The dimension shall be 33-1/2" W x 23-1/2" High and as deep as possible.

## **GRAB BAR ABOVE COT**

One (1) 1.25" diameter x 72" long stainless steel Powdered Coated Safety Yellow grab bar shall be provided and securely fastened to the ceiling over the primary cot. The grab rails shall be fastened with bolts, washers and nuts of the appropriate dimension, through the interior ceiling panel and through the .090" aluminum accessory plate welded into the roof structure.

Assist rails fastened with self-tapping machine screws are not acceptable. These grab rails must meet or exceed AMD Standard 008, Load Test for Ambulances Patient Compartment Grab Rail.

## **UPHOLSTERY**

All vinyl upholstery shall be vacuum formed seating, applied over high density foam. For seat cushions, the foam must be 2.5" thick. For back and head rests, it shall be 2" thick.

Because of this agency's concern for reducing the exposure of stitched seams to fluid borne pathogens - all seat cushions, back, arm, head rests and header pads shall be vacuum formed seamless design. Designs using piping, welts, stitched seams, or heat sealed joints to join upholstery panels are not acceptable. Each cushion shall be backed by 1/4" laminated wood. All upholstery must be easily removable to facilitate cleaning in case of contamination.

Exact color shall be determined at the pre-build meeting.

## **SEAT CUSHION ATTACHMENT**

To further aid in easy removal for cleaning and disinfecting, all seat cushions shall be attached to seat bases using Velcro or 3M Dual-Lock fastening systems.

## **PADDED TRIM**

To mitigate injury to passengers there shall be trim pieces consisting of antimicrobial high density foam that is solid throughout the material and wraps around the edges and corners for protection. Trim shall match seating upholstery:

- A. At the vertical outside corner of the cabinet forward of the attendant seat
- B. At the upper horizontal and vertical corners above the action area
- C. At the upper horizontal and vertical corners above the defibrillator shelf

# ***TYPE I AMBULANCE SPECIFICATION***

NOTE: A sample of this material must be provided with the bid.

## **FLOOR COVERING**

There shall be provided a heavy duty commercial grade vinyl floor covering the interior patient compartment. The floor covering shall be Lonplate II, or equivalent, heavy-duty safety vinyl. The floor covering shall be constructed of multiple layers composed of polyvinyl chloride (PVC) resin, plasticizers, fillers and pigments. The co-calendar war layer shall be formulated to provide maximum resistance to foot traffic and most commercial and healthcare chemicals. The middle layer shall provide dimensional stability, sound-absorbing properties and resiliency under foot. The floor shall be heavy duty insulated with sound proofing. The flooring shall extend the full length and width of the patient compartment consisting of a minimum of ¾ inch plywood, seven ply exterior grade. The flooring shall be covered with a no wax commercial heavy duty vinyl covering, diamond shape Lon plate, or similar product (Gunpowder Gray #424TX). The framing system and framing welding techniques shall be in accordance with manufacturer's specifications. Aluminum sub floor shall be 1/8 inch between the frame and plywood floor shall be installed. The vinyl flooring is to be extended up the sidewall a minimum of three inches (3").

Flooring shall meet or exceed all ASTM and / or NFPA Standards as pertains to friction, flame spread, smoke density, abrasion resistance, flexibility and chemical resistance.

This agency is concerned with ambulances built utilizing plywood in the interior flooring, so for that reason the purchasing agency is requesting that all bidders provide the following type of flooring material. Due to the industries' standard plywood and the fact that this agency may elect to remount the modular body at some time in the future, it is our concern that plywood flooring has the tendencies of rotting and mildew and thus we have elected to go with the following floor composite material. This material is readily available to all ambulance manufacturers. **NO EXCEPTION**

The sub flooring shall be Coosa Composite "Bluewater Series 26," or equivalent, boards that consist of polyurethane foam filled throughout with layers of continuous strand glass and woven roving fiberglass:

- The flooring density shall be 26 lbs. pcf. - (ASTM C271).

- *BENEFITS:*

- \* 30% to 40% lighter than plywood
- \* NO water rot or insect infestation
- \* Less than 1% water absorption
- \* Dimensionally stable.
- \* Mold, mildew and algae resistant.

Bidders must provide third party laboratory testing for equality to the proposed sub-floor material set forth by the National Highway Traffic Safety Administration. In addition the composite material must meet the guidelines set forth by the SAE standard J369a. **NO EXCEPTIONS.**

# ***TYPE I AMBULANCE SPECIFICATION***

## **REAR THRESHOLD**

There shall be a 6" wide, 16 ga. Formed, waterfall style stainless steel threshold protector installed on the rear interior of the body. The protectors shall run the entire width of the floor at the door opening. A 2" wide, adhesive-backed non-skid material shall be installed on the threshold piece to assist with safe entry and exit from the vehicle.

## **CEILING HEADLINER**

The patient compartment headliner shall be constructed of durable, white glossy Formica. The headliner shall be securely affixed to the roof bows. There shall be a full-length inspection access/wire race in the center of the ceiling, which provides access to the wiring harness and antenna bases/leads. In areas where the overhead assist rails are mounted, a 1/3 aluminum plate shall be installed. The access shall have a removable padded vinyl cover.

Headliners with padded vinyl or un-backed fiberglass materials will not be acceptable due to their potential for contamination, tears, cracking and spalling, thus involving costly repairs.

## **CABINET LAMINATE COLOR**

The laminate color for the outside finish of all cabinets shall be determined at the pre-build conference.

Exact color shall be determined at the pre-build conference.

## **ACTION AREA**

This area shall have inside / outside access to the on board medical oxygen cylinder.

Directly attached to the above area shall be the action area. This area shall have a STARON, or equivalent, countertop, equal to Corian brand.

Bidders that offer ABS or Formica covered countertop will be considered non-responsive and that bid will be rejected. NO EXCEPTION.

The action area shall be located on the forward driver's side of the module. The action area shall contain a switch panel that controls the lighting, AC/Heat, exhaust fan and other specified equipment.

The action area shall also contain connections for a suction device, oxygen regulators and electrical connections. There shall be provided a LED light located underneath the overhead cabinets. There shall also be provided access to compartment through a window covered with a hinged Plexiglas door.

The action area shall have a counter top that provides the maximum sized work area possible.

# ***TYPE I AMBULANCE SPECIFICATION***

There shall be a second action area counter aft of the CPR seat location. It shall contain the same type countertop as the forward area.

## **OXYGEN VIEWING PORT**

There shall be a contoured Plexiglas viewing door on the forward section of the Action Area allowing access to the main oxygen storage cylinder. The door shall be flush on the wall and have a hinge.

## **CPR SEAT**

To the rear of the first action area, there shall be provided a CPR seat on the driver's side 16" high x 46" wide x 21.5" in depth. This area is intended for use as a technician seat for administering aid to a patient when the center mount cot position is used.

There shall be an EVS 5-Point Safety Seat installed in lieu of standard cushions.

There shall be a storage area below the CPR seat. This area shall be accessed via a flip-up CPR seat cushion and shall have a paddle latch installed on the face of the CPR seat front.

## **SIDE ENTRY STEP WELL**

There shall be provided inside the module side entry door, a step well utilizing two steps. The two-step step well shall be fabricated using heavy duty aluminum diamond plate.

The step well shall be approximately 32 inches in width x 20 inches in depth. The step platforms shall be a minimum 9 inches deep and the steps approximately 7 inches in height.

## **ATTENDANT'S SEAT**

An EVS rear-facing, high back attendant seat shall be located at the head end of the primary cot. The material shall be sixty (60) ounce vacuum formed, seamless vinyl compliant with OSHA regulations for easy removal of blood-borne pathogens. The seat shall be mounted on a swivel, two (2) – position swivel base with the ability to lock in the forward and rear facing positions and shall be securely bolted through the subfloor structure. The seat shall incorporate a built-in Child Safety Seat equipped with a five (5) – point harness. An integrated three (3) – point, retractable adult lap/shoulder ALS seat belt shall also be provided.

There will be two (2) arm rests on the attendant seat. The mounting hardware, seatbelt materials and configuration shall be in compliance with the most current applicable revision of FMVSS and KKK-A-1822. Seating constructed of or containing cloth, machine-stitching and/or welt shall not be allowed. NO EXCEPTIONS.

# ***TYPE I AMBULANCE SPECIFICATION***

## **PASSENGER'S SIDE ALS CABINET**

The ALS cabinet is located in the front of the module on the passenger side.

Exact layout will be the responsibility of the bidder to capture.

Additionally, the cabinet shall be accessible from outside. The exact layout shall be determined at the customer's requirements.

Storage for Portable oxygen cylinder shall be provided in this compartment on a "V" type platform.

## **CABINET BEHIND THE ATTENDANT SEAT**

There will be a storage cabinet located directly behind the attendant and just below the pass-thru window at the bulkhead area. The top of this cabinet will be utilized for additional storage. The top shall be covered with solid surface material with a lip.

The cabinet shall have lift up storage. Radio conduit will be run to this cabinet.

## **GLOVE BOX CABINET**

A cabinet shall be built and installed above the side entry door to house three boxes of protective gloves. The cabinet shall have a single, clear Plexiglas door with three oval cutouts to allow gloves to be removed without opening the door.

The bottom edge of the glove box shall be covered by padded vinyl trim to protect occupants.

## **SQUAD BENCH**

The squad bench shall be 22" deep x 73" long, and have a split lids with storage under the forward section. The front face of the squad bench shall be fabricated from 3/4" plywood. The forward lid shall have a gas prop style hold-open device and a latch that automatically holds the lid closed (preventing opening in case of accident). The lid shall automatically open when the latch is released.

Three [3] sets of retractable seat belts are required for back board location. The retractors shall be automotive style with plastic housings.

Two (2) EVS 5-Point Safety Seats mounted on the squad bench.

# ***TYPE I AMBULANCE SPECIFICATION***

Other seating configurations will be considered.

The flooring of the storage under the squad bench shall be lined with a black textured rubber automotive style mat permanently adhered to the floor.

## **SEATBELT BUCKLES ON SQUAD BENCH FACE**

Three (3) sets of retractable seat belts shall be installed on the face of the squad bench to restrain a patient on a secondary litter.

## **SAFETY WEB CARGO NET AT FORWARD END OF SQUAD BENCH**

A cargo net shall be installed at the head of the squad bench. This net shall be securely mounted from floor to ceiling and also to the vertical wall through ¼" aluminum backer plates. This net must not be manufactured by the ambulance manufacturer but by a 3<sup>rd</sup> part certified to manufacture and distribute restraint systems. All equipment used in the manufacturing process must simulate dynamic, static and environmental conditions to insure compliance with SAE and FMVSS regulations. Individual components shall be pre and post tested to ensure product integrity.

The Safety Net shall be Yellow.

**NO EXCEPTIONS ALLOWED FOR THIS REQUIREMENT**

## **SHARPS / WASTE DISPOSAL AT HEAD OF SQUAD BENCH**

A 4" sharps drop and waste storage shall be provided in the squad bench lid. The opening shall align with sharps and trash container (specified elsewhere in this specification) installed beneath the bench lid. The opening shall be covered with a hinged 1/4" thick Red Plexiglas door. A vinyl biohazard sticker shall be applied to the Plexiglas door in accordance with OSHA regulations.

## **CS UPPER SQUAD BENCH CABINET**

A cabinet shall be located over the squad bench at the ceiling level, rearward of the entry/egress door opening. This cabinet shall be divided into two (2) separate sections. The cabinet shall be finished in the same material as the rest of the interior cabinets. These cabinets shall have sliding Plexiglas doors and full length extruded aluminum handles.

## **SECTION 4.0 - COT EQUIPMENT AND MOUNTS COT FASTENER SYSTEM**

# ***TYPE I AMBULANCE SPECIFICATION***

A Stryker #6370, or equivalent, dual position, floor cot mount shall be supplied (department shall specify model number for positioning during pre-construction conference). Additionally, this vehicle must meet or exceed AMD Standard 004, Litter Retention System.

In addition the Stryker, or equivalent, Safety hook shall be mounted in the center position.

## **SECTION 5.0 - MEDICAL EQUIPMENT AND COMPONENTS**

### **IV HOLDER**

There shall be two (2) each Cast Products 2008-1, or equivalent, recessed IV holders supplied. These shall be located at the head and foot areas, two (2) over the primary cot. They shall have a rubber, foldaway storage when not in use. Each holder must have the capacity to hold two (2) bottles and have Velcro securing straps.

### **SUCTION SYSTEM ASPIRATOR**

A RICO RS4X, or equivalent, disposable aspirator will be recessed into the lower action area and connected to the vacuum inlet by a quick connect coupler. A semi-rigid pharyngeal suction tip and 10 feet of clear plastic tubing will be included.

The system shall be located in the Action Area. Additionally, the system shall be connected to the 12 volt electrical system and be controlled by a switch in the Action Area.

### **VACUUM PUMP**

An electric suction pump shall be supplied and installed in the street side #2 compartment and be covered with a protective metal grating. The self-sealing vacuum outlet shall be mounted on the action area wall next to the oxygen outlets. To prevent premature fatigue of the suction plumbing, the line from the vacuum pump to the wall outlet shall be .375" I.D. double braded neoprene hose. This suction aspirator shall have the capability of attaining a vacuum of 300 millimeters of mercury within four (4) seconds. The vacuum control regulator panel shall be installed on the action area wall adjacent to the vacuum outlet and the oxygen outlets. This control panel shall contain a vacuum gauge calibrated on a dual scale, to 750 mmHg or 30 in HG. A quarter-turn adjustment vacuum control and shut-off valve to adjust the vacuum levels or to discontinue suction immediately shall be integral to the control panel. Unit shall include transparent non-kinking clear plastic tubing and an operator's manual.

### **VACUUM OUTLET**

One (1) Ohio style quick disconnect vacuum outlet shall be provided and installed in the Action Area.

# ***TYPE I AMBULANCE SPECIFICATION***

## **SECTION 6.0 - OXYGEN EQUIPMENT AND COMPONENTS**

### **OXYGEN SYSTEM**

The medical oxygen system shall be capable of storing and supplying a minimum of 3,000 liters of oxygen. A suitable high-pressure hose shall be provided. The concealed oxygen supply hose shall be .250" ID, .50" OD nylon based with polyester reinforcing. This electrically conductive hose shall be certified to 1,875 psi and a 7,500 pound bursting rating.

The fittings shall be DISS and Flare, and securely crimped to the barbed fitting by means of compressed copper sleeves. Oxygen supply hose shall be routed through the ceiling of the ambulance body and be secured with non-abrasive plastic clamps.

The entire system shall be subjected to a 200-psi leak test for 24-hours before installation of panels or covers that may obscure or hide the system components. After the vehicle is completed, a test as prescribed by AMD Standard 015 shall be conducted for a period of two (2) hours to insure system integrity. This test shall be conformed utilizing nitrogen gas to purge the lines of all moisture and foreign debris. Upon completion of the test, the lines shall be bled free of nitrogen and capped. This medical oxygen system shall meet or exceed AMD Standard 012, Ambulance Main Oxygen System Test.

### **OXYGEN OUTLETS**

The oxygen system shall have three [3] self-sealing outlets securely mounted on the 1<sup>st</sup> action area wall, one on squad bench and one on the rear ceiling area. The bidding agency shall specify the brand of quick-connectors to be used.

An exterior storage compartment shall house the certified oxygen tank retention system as described and certified. The retention system shall be located in the street side front compartment "A1." The purchaser {Buyer} shall provide the Oxygen Tank.

Oxygen outlets to be Amvex brand with Ohio style fittings. (Or Equal)

### **OXYGEN REGULATOR**

One [1] 50 psi, preset medical oxygen regulator shall be provided and installed on the supply end of the oxygen system hose. This regulator shall be certified by the equipment manufacturer to meet the appropriate FDS standards for medical oxygen flow meters. Regulators that are shipped loose shall not be accepted.

### **MAIN OXYGEN CYLINDER BRACKET**

There shall be two (2) Universal Zico Cylinder Bracket QRM-V O2 bottle mounts, or equivalent, to allow the department to utilize both "M" cylinder and "H" Cylinder bottles. There will be stainless steel straps.

# ***TYPE I AMBULANCE SPECIFICATION***

One (1) Oxygen Wrench shall be provided and mounted in the main oxygen compartment on a tethered line.

## **SECTION 7.0 - ENVIRONMENTAL SYSTEMS AND COMPONENTS HEATING / AIR CONDITIONING DUCTED SYSTEM**

Heating and air conditioning for the patient compartment will be provided by a combination heat/ac unit.

The heater portion will have a BTUH capacity of 35,000; the air conditioner will have a BTUH capacity of 32,000. A three-speed blower fan capable of 650 CFM on the highest setting will be included.

To reduce the potential for condensate leakage, dual 3/8" ID drain hoses shall be installed on the AC drain pan. The drain hoses shall terminate below and outside the ambulance body.

The combo system shall be provided with an electrically controlled water shutoff valve which shall close to stop the flow of hot water to the heater whenever the air conditioning is operating.

NOTE: An additional Complete Shut Off/On valve on from the rear.

The combo heat/air conditioning unit shall be installed over the walk through and be ducted with (8) vents, four on each side.

### **THERMOSTAT**

A hose-line digital low voltage heating and air conditioning thermostat shall be provided to control the specified environmental systems. The thermostat shall be installed in the action area as indicated in the attached prints.

### **AUXILIARY AC CONDENSER**

There shall be an auxiliary AC Condenser mounted under the module body. NO EXCEPTIONS.

The AC/HEAT System shall be certified to meet the KKK guidelines.

### **EXHAUST FAN**

The patient compartment of this ambulance will be ventilated with fresh outside air via one (1) static intake vent and one (1) power exhaust vent. The system shall be capable of completely

# ***TYPE I AMBULANCE SPECIFICATION***

exchanging the air volume within the patient compartment every two (2) minutes. The location of the intake and exhaust vents shall be as indicated in the attached drawings.

## **SECTION 8.0 -ELECTRICAL COMPONENTS 12 VOLT DC ELECTRICAL SYSTEM**

The electrical system and associated equipment shall comply with all Federal Motor Vehicle Safety Standards, Federal Motor Carrier Safety Regulations, and shall also conform to all applicable SAE recommended standards and practices.

The apparatus body and accessory electrical equipment shall be served by circuits separate and distinct from the chassis circuits. All wiring shall be permanently color coded and marked to identify each wire for its entire length.

Wiring shall be routed in conduit or loom that is rated to a minimum of 300° Fahrenheit and shall include a service loop of wire that will permit replacement of wire terminals. All conduits, looms and wiring harnesses shall be securely fastened to the body or frame with insulated metal cable straps.

All electrical system components and wiring shall be located and installed in such a manner that facilitates easy removal and servicing.

## **LOW VOLTAGE MONITORING SYSTEM**

There shall be installed, as an integral function of the ambulance conversion main power board, circuitry that continually monitors electrical system voltage. This system shall activate an audible alarm warning to indicate that the system voltage has reached or fallen below the 11.7 volts. There shall be a push button switch to deactivate the audible alarm. The audible alarm shall be located in the drivers control console below the main switch panel.

## **VOLT & AMP METER**

There shall be a Volt and Amp meter LED type installed on the front console.

## **MARKER LIGHTS**

There shall be provided the proper number of LED ICC / marker lights located on the apparatus body above the drip rails.

The bidding agency requires Whelen OS LED Marker lights or equivalent.

# ***TYPE I AMBULANCE SPECIFICATION***

## **MODULE POWER DISCONNECT SWITCH**

An "On/Off" style master module disconnect switch shall be installed in the left side of the floor console recessed for ease of access. The switch must be capable of carrying the load of both OEM batteries when in the "On" position, as well as completely disconnecting both batteries when in the "Off" position. This switch shall NOT disconnect battery power to the chassis circuits, but to the module, or converter added circuits only. The switch shall be recessed so as to not interfere with anything. Switches that have multi-position settings allowing power from either battery independent of the other will be unacceptable.

## **Warning Light Sequencer System WARNING LIGHT SEQUENCER**

The electrical system shall be provided with the ability to sequence warning light loads both on "startup" and "shutdown" in order to reduce load shock caused by the sudden activation or deactivation of loads.

## **CUSTOM CENTER CONSOLE – CAB**

There shall be provided a custom ALUMINUM center console in the cab, which shall replace the OEM center console, and shall be located between the driver and passenger seats. The console shall have a flip-up door w/12V under the lid. The console shall come complete with the necessary switch panels and other controls as required by these specifications.

The switch panel shall incorporate rocker style switches, door and compartment indicator lights, voltmeter and amp gauges.

The console shall be constructed to make the maximum use of the space available. As the Department requires, the console shall contain room for various map books and glove boxes.

The front console shall have two (2) Cup Holders.

The console shall be covered with a scorpion paint-type material.

NOTE: Exact layout to be determined by the purchasing agency.

## **ATTENDANT'S SWITCH PANEL**

The attendant's switch panel shall house eleven (11) Carling Contura, or equivalent, rocker switches with tactile rubber switch caps and internal lighting to indicate relay status. The controls are to be arranged in a single row and shall be as follows: (left to right)

- a) MODULE MASTER - Momentary - serves as a master control switch for all non-emergency module conversion circuits

# ***TYPE I AMBULANCE SPECIFICATION***

- b) LEFT DOMES - On/Off/On - switches the left (street side) patient compartment dome lights to low or high intensity
- c) RIGHT DOMES - On/Off/On - switches the right (curbside) patient compartment dome lights to low or high intensity
- d) Spare Switch - On/Off - for option/future use
- e) ATTENDANT'S LIGHT - On/Off - activates the light in the action area
- f) Spare Switch - On/Off - for option/future use
- g) HEAT/AC - On/Off/On - Allows manual selection of heat or AC - middle switch position sets system to switch automatically via thermostat
- h) HEAT/AC BLOWER FAN - On/On/On - controls the heat or AC fan speed - low/medium/high
- i) POWER VENT FAN - On/Off - switches the rear dual power vent fans
- j) Spare Switch - On/Off - for option/future use
- k) VACUUM - On/Off - switches the on-board electric vacuum system

Below each switch a white plastic translucent panel shall be installed, engraved with nomenclature defining the switch function. The engraved lettering must be filled with permanent black ink or paint. Spare switches shall include a blank panel for future engraving. Behind each panel, incorporated into the switch circuit board, amber LED lights shall serve as back-lighting.

## **Driver's Control Console Gauges DRIVER'S CONTROL CONSOLE GAUGES LICENSE PLATE HOLDER**

A cast aluminum license plate bracket with polished flanges shall be recessed into the rear riser. It shall be provided with two (2) LED license plate lights.

## **BACK UP ALARM**

An audible alarm shall be installed to activate when the vehicle is placed into reverse gear. There shall be installed on the front console and wired through the vehicle electrical system, a momentary cutoff switch to disable the alarm. The switch shall automatically reset each time the vehicle is placed into reverse gear.

## **12 VOLT OUTLETS**

Three (3) 12VDC outlet power source for cigarette lighter shall be provided; Location TBD.

## **PATIENT COMPARTMENT CLOCK**

# ***TYPE I AMBULANCE SPECIFICATION***

One (1) 12 volt Intellitec "Emergency Time Manager," or equivalent, digital clock shall be provided on the rear wall of the squad bench area. It shall feature a digital display of time (hours: minutes), a sweep second hand, elapsed time counter (hours: minutes), preset alarm intervals at one (1) minute, two (2) minutes, five (5) minutes and ten (10) minutes and shall have approximate dimensions of 4.75" high x 6.75" wide x 1" deep. 12 volt power to this clock shall be constant. **NO EXCEPTIONS**

## **PATIENT COMPARTMENT LIGHTS INTERIOR DOME LIGHTING**

General lighting for the patient compartment shall be as follows: Eight (8) overhead Whelen LED 9-Diode Lights, or equivalent, dome lights shall be mounted, four (4) over the squad bench side and four (4) over the primary cot side. These lights must be recessed into the ceiling headliner, protruding not more than 1 1/2".

These lights are to be controlled by switches in the attendant's switch console. Additionally, four on curbside shall automatically light on their "low" setting when either the side or rear entry doors are opened.

Any lighting system using a rheostat to control lamp intensity is NOT acceptable to this agency.

## **STEPWELL LIGHT**

There shall be provided an LED stepwell light located at the curbside entry interior door step well.

## **CHECKOUT TIMER SWITCH**

A 15 minute spring wound mechanical timer shall be provided and installed to control the squad bench side LED lights specified above. The timer shall be installed in the curbside wall adjacent to the side entry door.

## **ACTION AREA LIGHT**

There shall be provided three (3) 4 inch round LED lights mounted above the work surface, underneath the overhead cabinets. Two forward action area and one second action area.

The action area light shall be controlled by a switch located in the action area switch panel.

# ***TYPE I AMBULANCE SPECIFICATION***

## **COMPARTMENT LIGHTS**

There shall be provided LED strip lights in each exterior compartment that activates upon opening of the compartment doors.

## **HANDHELD SPOTLIGHT**

To aid in night operation, one (1) Optronics Blue Eye, or equivalent, 400,000 candle power hand held spotlight with momentary "on" switch shall be provided. This light shall be hard wired to connections beneath the switch console in the cab. This spotlight shall be "shipped loose," but shall include a mounting bracket to allow this agency to mount the light in a location of its own choosing.

## **SHORE POWER**

One (1) Kussmaul, or equivalent, "Auto Eject" system inlet, or "shoreline inlet," shall be installed where shown in the attached drawings. It must contain a male inlet connection rated and labeled for 20 amps, be suitable for wet conditions, and be protected by a yellow spring loaded plastic cover. A properly sized female mating plug must also be provided for connection to this agency's wiring.

To protect this device from arcing during connection or disconnection, a time delay and interrupter device shall be installed.

## **INVERTER PRE-WIRE**

Wiring will be furnished and installed for an inverter Vanner:

## **INVERTER / BATTERY CHARGER**

A Dimension brand or equal, 1200 watt inverter with a 50 amp battery charger and internal transfer switch shall be provided and connected to wiring provided in the cabinet behind the attendant seat. It shall be UL listed, KKK certified and wired to power the interior 110 volt receptacles.

## **110 VOLT AC WIRING AND COMPONENTS**

This vehicle shall be furnished with a two (2) wire plus ground 110 volt AC wiring system completely separate from its 12 volt DC system. It must comply with Article 551 of the National Electrical Code and is to be used for powering maintenance devices, battery chargers, etc. while on standby.

# ***TYPE I AMBULANCE SPECIFICATION***

The 110 volt system must include two (2) 15 amp GFI circuit breakers mounted in a circuit breaker box located in the electrical cabinet. One breaker shall control and protect the 110 volt outlets located in the patient compartment. The second breaker will control the OEM engine block heater connection and can be used as a "summer switch" to turn off the engine block heater when operation is not desired. Systems that require unplugging the block heater are not acceptable. These circuits shall be powered from the shoreline inlet included in this specification.

## **110 VOLT RECEPTACLES LIGHTED HOSPITAL GRADE**

FOUR (4) hospital grade 110 volt AC duplex receptacles with green internal pilot lights and stainless steel face plates shall be installed in the patient compartment as follows:

All 110V AC duplex wall outlets shall be GFI protected with energized indicator light and wired to shoreline.

Exact Location to be determined.

## **ZICO ELECTRIC STEP**

There shall be a Zico Brand Electric Step, or equivalent, mounted below the Curbside Entry Door Step.

The step shall be wired battery hot.

There shall be an override switch located on curbside entry door that is labeled to override the step. The switch will have a safety cover over it.

## **POWER ELECTRIC DOOR LOCKS ALL EXTERIOR COMPARTMENTS.**

All Exterior Compartment doors, including Patient and Curbside Entry Doors shall have power locks.

A Stealth Switch to be provided and installed at a specified location to be determined at pre-build conference.

NOTE: The agency is concerned with bidder's that utilize springs and/or rubber cords in their application of the power door locks. For this reason Warren County is specifying what they require.

Sterling Door loops, or equivalents, that are Stainless steel will be the preferred mechanism for installation.

## **INTERIOR BRAKE/TURN SIGNAL**

# ***TYPE I AMBULANCE SPECIFICATION***

There will be a Whelen, or equivalent, Brake/Turn Signal located above the rear entry doors, mounted in the padding.

The light shall be wired to the chassis Brake and Turn Signals, so it will notify the attendant in the back of the patient compartment.

## **RADIO SPEAKERS**

Two AM/FM radio speakers shall be mounted above the rear doors.

A fader switch will be located in the forward action area counter wall.

## **SECTION 9.0 - EMERGENCY WARNING LIGHT PACKAGE EMERGENCY LIGHTING**

There shall be provided a complete LED emergency lighting system. This lighting system shall include the following minimum:

All lens covers to be CLEAR.

- Seven (7) Whelen, or equivalent, M9 Series LED lights across front of module w/chrome flanges
  - Two (2) M4 Series LED Grill Lights Red/Clear with bezels.
  - Two (2) M7Series LED Front Intersector Lights Red with bezels
  - Two (2) M7Series LED Rear Wheel Intersector Lights Red with bezels
  - Four (4) M9 Series Red LED Lights with chrome flanges - Two each per Side
  - Six (6) M9 Series Red LED Lights with chrome flanges - Rear Mount
  - One (1) M9 Series Amber LED Light with chrome flanges - Rear Mount

All lights shall come complete with chrome bezels.

## **SCENE LIGHTS**

There shall be provided six (6) each Whelen, or equivalent, M9 series LED scene lights. The lights shall be located each side and rear of the ambulance. In addition each light will have a chrome flange.

The right side scene lights shall activate upon opening of the curbside door. The rear scene lights shall activate by opening the rear door or upon putting the vehicle in reverse.

## **REAR BRAKE, BACK UP AND TURN SIGNAL LIGHTS**

There shall be provided a set of Whelen, or equivalent, M6 series LED tail lights on the rear of the ambulance body. Additionally there shall be provided a set of amber turn signals with arrows.

# ***TYPE I AMBULANCE SPECIFICATION***

Additionally there shall be provided a cast aluminum recessed tag holder with LED tag light.

All tail lights shall come complete with individual chrome bezels. **NO EXCEPTIONS**

## **RUB RAIL LED LIGHTS**

There shall be twelve (12) Whelen, or equivalent, O2 Amber Steady burn Lights in the Rub rail, six per side.

OS lights to be spaced evenly in rub rail.

## **WHELEN, OR EQUIVALENT, M4 SERIES LED LIGHTS**

There will be four (4) Whelen, or equivalent, M4 Series LED with clear lens mounted in or above the rub rail.

Wired to the Secondary to turn off.

## **WIG WAG HEADLIGHTS**

The chassis shall have wig wag headlights installed and there will be a rocker switch on the front console labeled "WIG WAG."

## **SECTION 10.0 - COMMUNICATION COMPONENTS**

### **SIREN**

There shall be provided and installed a Whelen, or equivalent, WS 295HFSA7 dual tone 200-watt siren with full function including PA, Wail, Yelp, Phaser and horn override. In addition the siren shall have the Q2B tone added thru the scan lock.

The unit shall provide horn/siren switch on control panel for siren to horn.

### **RADIO PRE-WIRE**

Two [2] 10-gauge power and two [2] ground wires, two [2] RG58U coax cables, and two [2] PL 259 connectors shall be installed as 'prewired' for the installation of radio communications equipment. Power, ground, and coax shall be terminated and bundled behind the passenger seat. There shall be an 18" service loop at the antenna base locations and a 36" service loop at the terminations in the cab. The PL259 connectors shall be shipped loose in the New Vehicle Owner's Manual pocket.

Exact layout and location of radio prewire shall be determined during pre construction conference.

# ***TYPE I AMBULANCE SPECIFICATION***

## **BACK UP CAMERA WITH 2<sup>ND</sup> CAMERA**

A Pro-Vision, or equivalent, camera system shall be utilized. The system will have a 7" inch mirror mounted color monitor.

The reverse camera shall be wired to the chassis transmission when placed in reverse.

There shall be a second camera provide that will be mounted in the patient compartment.

## **SECTION 11.0 - PAINT/LETTERING/DECALS AMBULANCE BODY AND CHASSIS PAINTING**

The chassis shall be OEM White. The cab roof shall remain the OEM white. The module body shall be painted with PPG white to match the cab/chassis.

### **MODULE SURFACE PREPARATION**

A corrosion inhibitor shall be used on specified exterior surfaces and on specified fasteners, hinges and accessories that are subject to the effects of corrosion due to the electrolytic process that occurs between dissimilar metals. The product designated is ECK (or equal), and is a petroleum-based substance with a very slow rate of desiccation. The substance functions as a barrier to water and thus minimizes the electrolytic process.

### **PAINT PROCESS**

Prior to initiating the surface preparation process, all hardware, handles, light fixtures, door hinges, corner trim, etc. shall be removed from the module body and chassis (if applicable), and which do not require refinishing, shall be protected from the ensuing process.

To rid the aluminum body of any extraneous materials or material impurities the entire surface shall be washed and wiped dry with a PPG certified wax and grease remover. Excess weld material shall be removed by grinding all welds, seams and any other body imperfections. The entire surface shall then be sanded with 80 – 150 grit dry sandpaper to provide good adhesion for any fillers and primers, and sanding with 150 grit or finer for the final sand. The required areas shall be filled with approved PPG premium light-weight filler and sanded smooth. A premium two component glazing putty shall be applied directly over these areas to ensure adequate base for application of primers.

**NOTE:** Before final cleaning of the metal surfaces before painting, any new holes shall be drilled prior to final cleaning and painting. The entire surface shall be cleaned again with certified wax and grease remover before application of any primers. A two component premium PPG Delfleet, or equivalent, epoxy primer shall be applied to provide a base for adequate adherence of materials to be applied in subsequent steps of this process. A high quality urethane PPG Delfleet, or equivalent, primer surface shall then be applied. The entire surface to receive a topcoat will be sanded smooth to ensure a level and defect free surface.

# ***TYPE I AMBULANCE SPECIFICATION***

Door edges and doorjambs shall be prepared similarly to other body surfaces and finished paint with a certified color coat paint. Clear coat shall be applied per recommendation of paint manufacturer. The entire surface of vehicle body shall be DA finished sanded with no coarser than 320 grit dry sandpaper. The surface shall be washed and wiped once again with a certified wax and grease remover and tacked for application of epoxy sealer.

Bidder must provide a certificate from their prospective paint manufacturer that his/her facility has been certified for this process. **NO EXCEPTIONS.**

## **LETTERING**

Lettering installed per (Purchasing Agency) specifications  
The paint, striping and lettering design proposal shall match the layout specified above.  
**NO EXCEPTION.**

Paint Stripe and Lettering to be determined at the pre-construction conference. Bidder must provide pricing and it will be the responsibility of each bidder to insure that their bid contains the correct information.

## **AMBULANCE MARKING PACKAGE**

The vehicle shall be supplied with lettering and "Star of Life" symbol decal package as described in Federal Specifications KKK-A-1822D 3.16.4. The "ambulance marking package" is to be installed per department required locations.

Decals: Install 32" Star of Life decal on Module Roof.

## **MODULE UNDERCOATING**

A non-flammable / non-combustible water based automotive undercoating shall be applied to the underside of the body.

Manufacturers must not undercoat the underside of the body until after final inspections, this will allow for inspection of the under body without the undercoating applied. Manufacturers that undercoat prior to this inspection will be grounds for non-acceptance of the vehicle.

Above section bid exactly as written: Yes \_\_\_\_ No \_\_\_\_

## **ADDITIONAL SIGN/DECALS**

Two [2] self-adhesive "NO SMOKING OXYGEN EQUIPPED" AND "FASTEN SEATBELTS" signs (1) shall be installed in the 1<sup>st</sup> Action Area.

# ***TYPE I AMBULANCE SPECIFICATION***

## SECTION 12.0 - MISCELLANEOUS

### FIRE EXTINGUISHER

There shall be one (1) Five pound (5#) A-B-C type fire extinguisher provided and shipped loose with the vehicle on delivery.

### OPERATOR'S MANUAL

A vehicle owner's manual (reference handbook) for the ambulance shall be provided in an 8-1/2" x 11" three-ring, hard cover, loose-leaf binder. It shall contain copies of the chassis manufacturer's warranties and chassis owner's manual, copies of the ambulance manufacturer's warranties and New Vehicle Owners Manual, component manufacturer's equipment information, installation, operating, service instructions, warranties, etc.,

Above section bid exactly as written: Yes \_\_\_\_ No \_\_\_\_

# **TYPE I AMBULANCE SPECIFICATION**

## **STANDARD TYPE 1 REMOUNT**

**The below is an overview of the work to be performed on a current unit belonging to Warren County EMS. The refurbished module shall be mounted to a new Freightliner M-2 106 emergency prep chassis. (Chassis Specifications attached)**

This Request of Bid (RFB) is intended to provide vendors with a common, uniform set of specifications to assist them in the development of their bids and to provide a uniform method for the bidding agency to fairly evaluate bids and subsequently select a vendor from which to purchase these ambulances.

The following specification describes a remount/rechassis ambulance that is expected to be acquired by this purchaser. The specification describes the needs of this purchaser as far as chassis configuration and module body design. However, manufacturers that utilize prototype equipment will not be considered. The builder's manufacturing history shall be supported by documentation where applicable, and by the reference section within this specification. The benchmark for the initial configuration of this ambulance shall be the current KKK Federal Specification for Ambulances. However, most requirements in this specification exceed the federal specifications because of the specific needs of this purchaser. Please note that the following specifications represent minimum general terms or requirements. While it is not the intent of this purchaser to preclude any qualified bidder from submitting a proposal, it must be clear that any bidder deviating in any substantial manner from these specifications will be rejected as being non-compliant.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

Considerable time and effort has been invested to design these specifications to the specific needs of this agency. Therefore, alternate bids will not be considered. NO EXCEPTIONS to this will be allowed.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

In responding to this RFP, vendors should follow the prescribed format and use the forms included, thus providing the County with data that is easily compared with data submitted by other vendors in order to fairly and objectively evaluate the proposal.

Every Bidder must provide his/her own detailed specifications as well so that the bidding agency can determine what is exactly being offered in their bid package. Simply checking Yes or No and initialing each item will not be allowed.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

# ***TYPE I AMBULANCE SPECIFICATION***

The Bidding Agency assumes no responsibility for conclusions or interpretations derived from the information presented in this RFB, or otherwise distributed or made available during this procurement process. In addition, the Bidding Agency will not be bound by or be responsible for any explanation, interpretation or conclusions of the RFB or any documents provided by the Bidding Agency other than those given in writing by the Bidding Agency through the issuance of addenda. In no event may a vendor rely on any oral statement by the Bidding Agency or its agents, advisors or consultants. It is the full responsibility of the vendor to thoroughly investigate the needs, requirements of the Bidding Agency not necessarily assumed in this RFB and to submit a bid for:

## **BASIS FOR REJECTIONS AND AWARD**

The bidding agency reserves the right to accept or reject all bids or parts of bids, to waive informalities, and to request rebids. The County also reserves the right to award the contract on such material the county deems will best serve its interest.

Bidders should take note that this agency does not have to accept the lowest bid. The agency is looking for a responsive bidder that meets the intent of the bid which is in accordance with the Terms, Conditions, and Specifications of the bid.

## **INSTRUCTIONS FOR BIDDERS**

To insure complete understanding of the ambulance remounting process and since Federal Specifications KKK-A-1822F is considered the premiere guidelines in the ambulance industry; (Insert Customers Name) is concerned about the quality and competency of the different bidders for this project. Because of the unique nature of an ambulance and the liability of such, (Insert Customers Name) prefers to work with remounters whom have a full understanding of all required ambulance regulations. Since the current guideline for ambulances is the Federal Specification KKK-A-1822F, please provide a copy of your third party certification where your company has been tested and certified to that standard. Since this process is open to all reputable manufacturers and remounters. (Insert Customers Name) will give extra credit preference to full time companies which meet these requirements. (Insert Customer Name) is not seeking a garage, body shop or unqualified ambulance dealers for this project.

This specification establishes standards for the design, construction and performance of a (Type I) Modular ambulance. The completed vehicle and components must comply with the current version of Federal Specification KKK-A-1822F unless specifically requested otherwise in the following document. As the criteria for compliance with KKK-A-1822F are well established, this document will not contain redundant references to their content.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

# ***TYPE I AMBULANCE SPECIFICATION***

**Bids will not be accepted after the date and time stated in the invitation to bid.**

Payment shall be made in accordance with these specifications and the Bid Proposal submitted by the Bidder. Payment will be made upon acceptance of the vehicle(s) and equipment specified in this document.

Bids received shall be evaluated by the Purchaser. This evaluation will be based on, but not limited to, completeness of proposal, exceptions, price, and delivery schedule.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

**Bid Proposals taking total exception to these specifications will not be accepted.**

Any exception to the provisions in these specifications must be marked in the body of this document and itemized on a separate attached page(s) titled EXCEPTIONS. Referenced by section number and paragraph, a detailed explanation of the exception shall be provided along with by the bidder's alternative proposal.

Bids not following this format shall not be considered. **NO EXCEPTIONS TO THIS SECTION.**

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

The Contractor shall indemnify and save the Purchaser harmless from any and all claims, liability, losses, and causes of actions which may arise out of the fulfillment of this agreement. The Bidder shall pay all claims and losses of any nature whatsoever in connection therewith, and shall defend all suits, in the name of the Purchaser when applicable, and shall pay all costs and judgments which may ensue thereafter.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

Failure to deliver any part of the order to the terms required may be considered by the Purchaser as a breach of contract. In such case the vehicle(s) and equipment may be rejected and the purchaser shall retain the right to require forfeiture of the full amount of the Performance Bond (if required) as liquidated damages.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

# ***TYPE I AMBULANCE SPECIFICATION***

When submitting their Bid Proposal, Bidders must return all pages of these specifications as part of the Bid Proposal as it will form the Contract between the Contractor and the Purchaser. Caution should be taken by the Bidder that all questions are answered in the spaces provided and that all information requested is provided.

Is this requirement understood and met? Yes \_\_\_ No \_\_\_ Bidder's initials: \_\_\_\_\_

It is the Bidder's responsibility to be familiar with all federal, state, and local laws, ordinances, codes, and regulations concerning the submission of this bid and the work it effects. Ignorance of said enactments shall not relieve the Bidder of responsibility to comply or complete the bid work

Is this requirement understood and met? Yes \_\_\_ No \_\_\_ Bidder's initials: \_\_\_\_\_

In the event a clarification is requested on the contents of this specification, the question shall be addressed in writing to: Warren County Finance Department, 201 Locust Street, Suite 2, McMinnville, TN 37110.

The vehicle(s) shall, at the time of delivery, conform to the minimum requirements of the latest standards covering vehicles of this type. This shall include federal, state and local requirements.

Is this requirement understood and met? Yes \_\_\_ No \_\_\_ Bidder's initials: \_\_\_\_\_

By signing this document, the Bidder agrees that this Bid is made without any understanding, agreement or connection with any other person, firm or corporations making a bid for the same purpose, and that this bid is in all respects fair and without collusion or fraud.

Is this requirement understood and met? Yes \_\_\_ No \_\_\_ Bidder's initials: \_\_\_\_\_

It is the intent of this agency to enter into a contract with the successful bidder to allow that contract to be extended for 2 years, in order to add additional units to the contract. This contract shall allow for chassis model year increases, only if and when the successful bidder provides documentation from its chassis supplier on their letterhead indicating an increase to the chassis.

Is this requirement understood and met? Yes \_\_\_ No \_\_\_ Bidder's initials: \_\_\_\_\_

# ***TYPE I AMBULANCE SPECIFICATION***

This contract shall allow any other agency within the State of this contract, or any other State outside of this state to purchase off of contract. However, prospective purchasers shall enter into separate agreements for product being offered. The Bidding Agency does not control this contract outside of what it is intended on.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

The bidding agency is required to submit detailed specifications on the unit proposed. This shall be included with the proposal submittal. NO EXCEPTIONS.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

## **TYPE OF BIDS TO BE SUBMITTED**

The information requested within the bid must be furnished in full. Any bidder not completing this proposal or not furnishing any required information will not be considered. If a bidder will not furnish a material or fabrication process exactly as described in this specification, then those differences must be designated in the list of exceptions. If a substitution is being proposed, then the bidder must note the section to which the alternative is being proposed and provide technical data, supported by an engineer, supporting the fact that the substitute is equal to or better than the item as specified. If this data is not submitted with the bid, then the bid shall be rejected as being non-compliant. Bidder added narrative describing a substitution as being clarification, exceeding, being equal to, etc., will not be accepted. Statements such as these, with or without the technical data described in this section, will cause the bid to be rejected as being noncompliant.

This purchaser reserves the right to require samples of any deviating material to be provided for evaluation.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

## **GENERAL REQUIREMENTS**

Payment shall be made on delivery of the purchased item, or upon completion of all work contracted (whichever occurs later), and when the project is deemed by the purchaser to be completed satisfactorily.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

All bid prices shall quote F.O.B. destination basis, at the Purchaser's specified location. Bid prices shall be complete and include all warranties and equipment specified. After bid allowances will not be made for incorrect or incomplete bids proposals.

# ***TYPE I AMBULANCE SPECIFICATION***

All prices, terms and conditions must be specified on the Bid Proposal Form.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

## **INSPECTION TRIPS**

### ***PRE-CONSTRUCTION CONFERENCE***

There shall be a required pre-construction conference at the successful bidder's manufacturer's facility before any construction can begin.

NOTE: The pre-construction conference meeting shall be conducted at the "*primary builder*" of the apparatus. No meeting shall take place at the dealership's place of business. This will be the only acceptable way to conduct the pre-construction meeting. NO EXCEPTIONS.

Three (3) department personnel along with a dealer or representative of the successful bidder shall attend.

At this meeting both parties shall again go over the specifications to insure that the apparatus is built to meet or exceed all requirements.

After this meeting the representative of the successful bidder shall present the department with detailed drawings and work order to be used in the production of the apparatus being bid.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

### ***MID POINT INSPECTION***

There shall be a midpoint inspection trip at the factory of the successful bidder. The inspection trip shall consist of three (3) members from the Department who shall inspect the progress of the apparatus to insure compliance to all specifications.

Do you comply with all inspection trips? Yes \_\_\_\_\_ No \_\_\_\_\_

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

### ***PRE-DELIVERY INSPECTION (FINAL)***

# ***TYPE I AMBULANCE SPECIFICATION***

There shall be a pre-delivery inspection trip at the factory of the successful bidder. The inspection trip shall consist of three (3) members from the department along with the representative of the successful bidder, to insure compliance to all specifications.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

NOTE: All expenses relating to the Pre-Construction, Mid-Point and Final inspection trips shall be at the cost of the successful bidder and be at no cost to the Department. This is to include all meals and lodging while at the inspection along with travel allowances (round trip coach air flight), for up to 3 representatives for any factory that is over 260 miles from Bidding Agency facility.

NOTE: "PRIVATE PLANE," is unacceptable and will not be considered.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

Under no circumstances shall the completed ambulance leave the manufacturer's facility unless everything is completed at the factory. Bidders that make allowances for units to be completed at their service facility or office shall not be acceptable to this bidding agency. **NO EXCEPTIONS.**

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

## **ONE MONTH SERVICE CALL**

After the vehicle has been in service for approximately one month, the successful vendor shall send a trained "FACTORY" employee to bidding agency for a service and warranty review.

The Factory technician shall check all operating systems and repair or replace any items found defective or in need of re-work.

However should a problem occur before the one month service call, the bidding agency will require immediate service from the FACTORY technician, at the Department's location. **NO EXCEPTIONS**

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

# ***TYPE I AMBULANCE SPECIFICATION***

This agency seeks the highest level of quality assurance and liability protection. To ensure that these standards are met, Bidders must submit documentation that they are a current member of the Ford QVM (Qualified Vehicle Modifier) program.

The QVM certification applies even in cases where the chassis bid is not a Ford Motor Company product. In addition the bidder must have certification with International/Navistar Diamond Logic. They must be able to show that they have been factory trained. Bids not meeting this requirement cannot be considered.

Since the QVM program is open to all qualified remounters, no exception to this requirement is allowed.

NOTE: If you are not QVM certified, please do not go any further as your proposal will not be processed.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

## **WARRANTY (NEED TO INSERT WHAT WE COVER)**

The proposal shall include all warranties that are required in the following detailed specifications. The minimum acceptable warranty periods are noted below. In the blank lines the bidder shall note the terms of the warranty that apply to the manufacturer being proposed.

Bidding Agency shall provide a minimum 36 month/36,000 mile Limited Warranty on the vehicle conversion, which covers defective parts and/or components, improper choice of materials, parts and/or components, improper design or engineering and poor or improper workmanship or quality control techniques. This warranty shall cover the complete vehicle, exclusive of the chassis, and shall include any and all costs for labor and parts or materials required to correct deficiencies. It is not the intent of this requirement that items such as light bulbs, or equipment installed in or on the vehicles which are covered by their own separate and specific warranty statements, be included in this warranty.

State the General warranty terms you are bidding:

Number of years: \_\_\_\_\_ Mileage: \_\_\_\_\_

Since it is the purpose of these specifications to provide for a modular body that will offer many years of service, the Manufacturer of the vehicle(s) bid shall warranty the structural modular body for the life of the unit. This warranty shall be in writing and shall be included with the Bid Proposal. Bidders who fail to meet this requirement shall not be considered responsive.

State the Structural warranty terms you are bidding:

# ***TYPE I AMBULANCE SPECIFICATION***

Number of years: \_\_\_\_\_ Mileage limitations (if applicable): \_\_\_\_\_

There shall be a six year/72,000 mile electrical warranty provided on the ambulance conversion electrical system. Lifetime Electrical Warranty will not be accepted unless it covers the entire electrical system. A copy of the warranty statement shall be submitted with this Bid Proposal.

State the Electrical warranty terms you are bidding:

Number of years: \_\_\_\_\_ Mileage limitations (if applicable): \_\_\_\_\_

A seven (7) year paint warranty shall be provided on the paint and its application. A copy of the painter's warranty statement shall be included with this Bid Proposal. All warranties shall begin at the acceptance of the vehicle(s) by the Purchaser.

State the Paint warranty terms you are bidding:

Number of years: \_\_\_\_\_ (NO MILEAGE LIMITATIONS ACCEPTED)

For verification of the completed warranty terms stated above the bidder must include printed manufacturer's warranty certificates that meet or exceed the minimum required periods stated below.

Are the manufacturer's warranties included? Yes \_\_\_\_\_ No \_\_\_\_\_

All warranties shall be from the manufacturer as opposed to a distributor or service center. This is necessary for the protection of the purchaser, and to guarantee a certain known level of service and warranty. If, however, the bidder feels that it is necessary to modify the manufacturer's warranties, then the bidder shall state why this modification is necessary. In addition, the bidder shall provide a full descriptive warranty certificate describing the warranty modification and the fact that it takes specific precedence over the warranty offered by the manufacturer. If no such certificate is provided, then the modified warranty shall be considered invalid and the manufacturer's warranty shall remain in force. If the manufacturer states that no party is permitted to modify its warranty, then any warranty modification provided by the bidder, despite being in writing, shall automatically be rejected.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

In order to simplify the evaluation process the following questions must be answered and this section must be initialed by the bidder.

Are the warranties pro-rated in any manner? Yes \_\_\_\_\_ No \_\_\_\_\_

If yes explain:

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# ***TYPE I AMBULANCE SPECIFICATION***

Are the warranties transferable? Yes\_\_\_\_\_ No\_\_\_\_\_

If yes explain:

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Has the bidder modified the manufacturer's warranties? Yes\_\_\_\_\_ No\_\_\_\_\_

If yes explain:

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If 'yes' was chosen above, has the bidder included modified written warranties? Yes\_\_\_ No\_\_\_

If no explain:

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If 'yes' was chosen above, has the bidder included financial statements, for the last five (5) years of the warranty modifier? Yes\_\_\_\_\_ No \_\_\_\_\_

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Bidder shall initial that this section is understood and has been answered truthfully. Initials: \_\_\_\_\_

Note: Bidders, who are found to be untruthful in this, or in any other section of this bid, will have their bid automatically rejected.

## **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 - Aggregate policy limit of one million dollars.

# ***TYPE I AMBULANCE SPECIFICATION***

Automotive Liability – Any Hired and Non-owned Autos  
Combined Single Limits of One million dollars.

Garage Liability - Any Auto  
Auto only – Each accident: limit of one million dollars.

Workers Compensation and Employer's Liability -  
Each Accident: limit of five hundred thousand dollars.  
Disease policy: limit of five hundred thousand dollars.  
Disease - Each Employee: limit of five hundred thousand dollars.

Excessive/Umbrella Liability –  
Each Occurrence: limit of nine million dollars

Automotive Damage, Physical Liability Damage  
Comprehensive Deductible:

Since these specifications describe an emergency vehicle that may be used under adverse conditions, this agency seeks to reduce its future liability exposure. Therefore, all bidders responding to these specifications shall submit a proper and verifiable Certificate of Insurance. This shall certify that the Manufacturer of the bid vehicle has in force, Product Liability insurance in the minimum amount of ten million dollars (\$10,000,000.00). This insurance shall have been issued by a Company rated "A+" as reported in the current edition of Best's Key Rating Guide, published by Alfred M. Best Company, Inc.

The amount of Product Liability must be adhered to by ***both*** manufacturer and dealer, who will be providing the bid. Utilizing the ambulance manufacturer's insurance will be acceptable if the bidder is an authorized dealer, they also must have coverage.

Bidders failing to submit proof of the above requirement cannot be accepted and their Bid Proposal will be rejected.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

The bidding agency has concerns with bidders not having the complete unit built by the manufacturer/remounter. With that said, the bidding agency will not accept units that are not built and completed at the manufacturer's facility. This will eliminate split responsibility for service or warranty repairs. Add-on equipment shall be furnished by the manufacturer and not their representatives, to avoid warranty issues. If the bidder makes any claim to adding equipment at the dealership, then your bid will be considered non-responsive and rejected. **NO EXCEPTION.**

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

# ***TYPE I AMBULANCE SPECIFICATION***

It is the intent of this agency to have the vehicle completed and ready for service once it leaves the ambulance manufacturer's facility. **NO EXCEPTIONS.**

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

All equipment furnished shall be guaranteed to be new and of current manufacture; meet all requirements of this specification; and be in proper operating condition at the time of delivery. All parts shall be of high quality workmanship and construction.

No part or attachment shall be substituted or applied contrary to the manufacturer's recommendations and standard practices.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

## **SERVICE AVAILABILITY**

Service will be a major factor in the award of this proposal. Convenience and experience will be determining factors in defining acceptable service. A service facility within a radius as described below will be required. Personnel performing the service shall be trained by the manufacturer with emphasis in the area of electrical service. In order to evaluate the proposed service facility the following information shall be provided on the appropriate lines.

Radius from Purchaser: Not more than 150 miles.

Facility Name (If not the manufacturer): \_\_\_\_\_

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

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

Contact: \_\_\_\_\_

Phone: (Toll Free Preferably): \_\_\_\_\_

Training Description: \_\_\_\_\_

The bidder shall utilize these specifications and return their proposal in the same format as the specifications are provided. Failure to submit the bid specifications in the following format will be grounds for rejection.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

# ***TYPE I AMBULANCE SPECIFICATION***

## **CHASSIS MODIFICATIONS**

**RUNNING BOARDS** - There shall be provided a set of heavy duty aluminum diamond plate running boards. The running boards shall securely fasten to the cab chassis.

The running boards shall start at the rear of the front wheel well opening and shall extend to the rear wall of the cab chassis.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

**STAINLESS STEEL WHEEL COVERS** - There shall be provided a set of Phoenix style, or equivalent, stainless steel wheel covers.

The wheel covers shall be specifically made for a Chevrolet, or equivalent, chassis with dual rear wheels.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

**ENGINE BLOCK HEATER** - The chassis OEM block heater shall be wired to a 110 volt shoreline adapter.

Additionally there shall be provided a new Kussmaul, or equivalent, auto-eject shoreline adapter. The shoreline adapter shall be mounted on the modular body and shall come complete with a hard plastic weatherproof cover.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

**FUEL FILLER NECK MODIFICATIONS** - The chassis fuel tank filler neck shall be modified to fit the modular body. There shall be supplied new fuel filler hoses and plumbing.

As necessary, there shall be provided aluminum body patches and repairs should there be required new fuel filler locations or should the remounted body have additional fuel filler cut outs not required.

# ***TYPE I AMBULANCE SPECIFICATION***

All fuel filler neck modifications shall be performed per General Motors requirements.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

**EXHAUST MODIFICATIONS** - The chassis O.E.M. tail pipe shall be extended to behind the dual rear wheels.

The exhaust modifications shall be on the curbside.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

## **REMOVAL OF MODULAR BODY**

**MODULE DISMOUNT AND INSPECTION** - The modular body and all sub systems including wiring harnesses and air conditioner/heater hoses shall be disconnected.

The modular body shall then be lifted and removed from the original cab chassis. A full inspection of the under structure shall be performed. The inspection shall consist of checking all exposed structures and framing for cracks, corrosion or excessive wear.

All questionable areas shall be treated with a dye specially manufactured to penetrate the area and expose any cracks. All defects shall be repaired to like new condition.

There shall be provided a written check list documenting the inspection and repair process. One copy of the documentation shall be provided to the Department and one copy filed in the master folder kept by Custom Works.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

**MODULAR EXTERIOR PAINT PREPARATION** - After the module has been dismantled and passed the inspection and repair procedures, it shall be mounted on a roll around platform to enter the paint prep stage.

Prior to repainting the module, all hardware, lights, door handles, stone guards, skirt rails, kick panels, diamond plate, etc. shall be removed. All module doors shall also be removed to be painted separately from the module body.

After all hardware is removed, the module shall be fully inspected as to any minor body damage or electrolysis / corrosion damage.

# ***TYPE I AMBULANCE SPECIFICATION***

All body damages are to be professionally repaired and brought back to like new condition. Any electrolysis / corrosion damage shall be treated to prevent further deterioration.

The module surfaces shall then be chemically treated and the surfaces sanded and prepared for repainting per paint manufacturer's specifications. The complete module body and module doors shall then be repainted to meet Department's specifications.

Additionally all exterior storage compartments shall be stripped of rubber seals then sanded, prepped, and repainted using a splatter type material. Exact color and style of exterior storage compartment paint shall be determined during pre-construction conference.

All painting is to be done in house as per paint manufacturer's instructions and guidelines and shall be painted by a certified paint technician.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

**PAINT STRIPE PACKAGE** - There shall be provided a painted stripe package to match the current Department fleet.

The stripe shall come complete with 1/4" vinyl pinstripe located above and below the painted stripe.

Exact layout and color of paint stripe shall be determined during pre-construction conference.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

**LETTERING PACKAGE** - There shall be provided a custom lettering package to match the Warren County fleet.

Exact wording, layout and location of reflective lettering package shall be determined during pre-construction conference.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

**STAR OF LIFE DECAL PACKAGE** - There shall be provided a complete set of Star of Life decals.

# ***TYPE I AMBULANCE SPECIFICATION***

Exact layout of decals shall be determined during pre-construction conference.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

## **TRANSFER OF BODY TO NEW CHASSIS**

After full inspection from paint process, the module body will be transported to the chassis remounting area. The module will then be mounted on a new chassis. This procedure shall utilize Ford Motor Co. OEM, or equivalent, rubber spacers between the module frame and the chassis frame.

There shall then be installed a non-electrolytic rubber boot between the cab and module to serve as an interface to eliminate air and water leaks. The boot shall be constructed of heavy weatherproof weatherized material and shall be attached using stainless steel bolts and components.

The module body shall be squarely mounted on the new chassis and shall conform to all Ford Motor Co. QVM requirements.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

## **NEW EXTERIOR BODY TRIM**

**STONE GUARD** - There shall be provided four each stone guards mounted on each exterior corner. The stone guards shall be fabricated using new aluminum diamond plate and shall conform to the module corner post.

The stone guards shall be attached to the module using stainless steel fasteners.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

**SKIRT / RUB RAIL**- There shall be provided full length skirt /rub rails mounted on each side

# ***TYPE I AMBULANCE SPECIFICATION***

of the module. The skirt /rub rails shall be fabricated using new aluminum diamond plate.

The skirt /rub rail shall be attached to the module using stainless steel fasteners.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

**REAR KICK PANEL** - There shall be provided a new rear kick panel. The kick panel shall be full width of the rear compartment doors and full height from the bottom of the doors to the bottom of the module body.

The rear kick panel shall be fabricated using new aluminum diamond plate and attached to the module using stainless steel fasteners.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

**REAR STEP BUMPER** - The rear step bumper frame shall be inspected as to any defects and refurbished if necessary to like new condition.

All aluminum diamond plate bumper tips and grip strut inserts shall be replaced. The rear step bumper shall be bolted to the chassis frame rails using steel outriggers and stainless steel bolts.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

**FENDERETTE** - There shall be supplied new highly polished fenderettes. The fenderettes shall match the contour of the wheel well opening.

The fenderettes shall be attached to the module body using stainless steel

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

## **ELECTRICAL SYSTEM**

**CAB CONSOLE** - There shall be provided a new console in the cab area. The console shall house a new front switch panel and siren and shall have space for Department supplied maps and cup holders.

The switch panel shall incorporate new rocker style switches and door and compartment lights.

# ***TYPE I AMBULANCE SPECIFICATION***

Also provided shall be a new hand help spotlight and new map light.

Layout of cab console shall be determined by chassis layout and customer requirements. Exact style and location of cab console shall be determined during pre-construction conference.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

**12 VOLT POWER PANEL** - There shall be performed a complete operation check of the current 12 volt electrical system. The system shall be upgraded to meet all current needs and requirements.

All circuit breakers, relays, solenoids, etc. on the power distribution panel that are not operating properly shall be replaced with new components. *This unit will require a new power inverter with a 2 bank on board battery charger.*

Upon completion, the 12 volt power panel and system shall be 100 per cent operable.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

**NEW CAB CHASSIS WIRING** - There shall be provided a new under hood harness and new battery cables.

The harnesses shall be built with new power wiring conforming to SAE requirements and Ford QVM guidelines. All wiring shall be color coded and function labeled for ease of trouble shooting.

All wiring shall be routed in high temperature loom with a minimum rating of 300 degrees Fahrenheit. All wiring shall additionally be accessible and shall be secured to the body or frame using insulated metal clamps.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

**NEW SIREN SPEAKERS** - There shall be provided two each new 100 watt siren speakers.

The speakers shall be mounted one each side in the front chassis bumper area.

# ***TYPE I AMBULANCE SPECIFICATION***

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

**NEW FRONT INTERSECTOR LIGHTS** - There shall be provided new Whelen 700 series, or equivalent, LED intersector lights on the new cab chassis. The lights shall be installed one each side in the front fender area of the cab chassis.

The intersector lights shall come complete with chrome bezels.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

**NEW GRILL LIGHTS** - There shall be provided new Whelen 500 series LED grill lights. The lights shall be installed in the front grill area of the cab chassis.

The grill lights shall come complete with chrome bezel or housing.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

**NEW MODULE WARNING LIGHT SYSTEM** - There shall be provided all new LED module warning light system.

The new LED system shall consist of a new LED Liberty lights bar and all new 900 series Whelen, or equivalent, LED lights. Also provided shall be a new 700 series amber LED light on the rear and a new 700 series clear LED on the front.

Additionally there shall be provided six each new scene lights. The lights shall mount two each per side and rear and shall be controlled by separate switches located on the new front switch panel.

Also the current taillights shall be replaced with new Whelen 600 series, or equivalent, LED STOP/TAIL and TURN Signal and new halogen BACKUP lights. All tail lights to have new bezels.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

**NEW REAR BACK UP ALERT**- There shall be provided a new rear back up alert with a minimum of 97 db.

The back-up alert shall activate any time the vehicle is placed in reverse.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

# ***TYPE I AMBULANCE SPECIFICATION***

## **EXTERIOR COMPARTMENTS**

NEW WEATHER STRIPPING / DOOR SEALS - All weather stripping and door seals shall be replaced with new rubber or equivalent seal.

All old material shall be completely removed to allow proper installation and seal.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

EXTERIOR COMPARTMENT DOORS - All exterior doors shall be removed prior to repainting the module. Each door shall be inspected for conditions and repaired or replaced as necessary.

Upon reinstallation, the doors shall be checked as per alignment and ease of closure. All door latches and hardware are to be lubricated to insure proper operation. Any latch or lock not working properly shall be replaced.

Additionally any patient entry doors windows or sliding side windows shall be repaired or replaced if damaged.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

## **INTERIOR PATIENT COMPARTMENT**

NEW FLOOR COVERING - There shall be provided a new heavy duty commercial grade vinyl floor covering in the interior patient compartment. The floor covering shall be installed and rolled up the side walls approximately 4 inches.

Before the new floor covering is installed, the old floor covering shall be removed and the sub floor shall be inspected for any damage. Sub floor shall be repaired or replaced as necessary.

The new floor covering shall be Lonplate II color number 424, or equivalent. Because of the resilience and design of this style floor cover, no exceptions are allowed.

# ***TYPE I AMBULANCE SPECIFICATION***

Also provided shall be a new stryker cot fastener with new plates.

Is this requirement understood and met? Yes \_\_\_ No \_\_\_ Bidder's initials: \_\_\_\_\_

**NEW THRESHOLDS** - There shall be provided two each new thresholds to replace the side and rear door thresholds.

The new threshold shall be sealed for sanitation purposes and shall have non-skid tape attached for safety.

**NEW UPHOLSTERY** - Any worn or torn upholstery in the interior patient compartment shall be replaced with new heavy duty material.

At the squad bench, the current wheel and post cups shall be removed and the squad bench and rear head bumpers shall be reattached more securely.

Exact color of new upholstery shall be determined during pre-construction conference.

Is this requirement understood and met? Yes \_\_\_ No \_\_\_ Bidder's initials: \_\_\_\_\_

**PATIENT COMPARTMENT CABINET** - All interior patient compartment cabinets shall be checked for problems and defects.

Included in checklist are insuring mounting bolt are properly tighten and all shelves are secure.

Additionally any trim missing or screws that are rusted are to be replaced.

Is this requirement understood and met? Yes \_\_\_ No \_\_\_ Bidder's initials: \_\_\_\_\_

**SEAT BELTS** - All patient compartment seatbelt mounts are to be inspected for proper stability and wear.

# **TYPE I AMBULANCE SPECIFICATION**

All defective seat belts shall be replaced with new.

Additionally there shall be provided seat belts at the squad bench area to secure Department supplied back boards.

Is this requirement understood and met? Yes \_\_\_ No \_\_\_ Bidder's initials: \_\_\_\_\_

PLEXIGLAS - All Plexiglas and sliding track for interior compartments shall be inspected for proper operation.

All broken or defective sliding windows can be replaced with new Plexiglas.

Is this requirement understood and met? Yes \_\_\_ No \_\_\_ Bidder's initials: \_\_\_\_\_

NEW DOOR SWITCHES - All defective exterior door switches shall be replaced with new switches.

Is this requirement understood and met? Yes \_\_\_ No \_\_\_ Bidder's initials: \_\_\_\_\_

NEW INTERIOR LED DOME LIGHTS- There shall be provided all new LED dome lights. The new LED dome lights shall fit into the current dome light locations.

Is this requirement understood and met? Yes \_\_\_ No \_\_\_ Bidder's initials: \_\_\_\_\_

NEW SWITCHES ON REAR PANEL - There shall be provided new rocker style switches on the rear control panel.

Additionally all function labels shall be replaced with new.

Is this requirement understood and met? Yes \_\_\_ No \_\_\_ Bidder's initials: \_\_\_\_\_

## **HEATING /A.C. SYSTEM**

There shall be supplied a new complete Heat /Cool system.

The new Heat /Cool system shall come complete with all new hoses and fittings. The new system

# ***TYPE I AMBULANCE SPECIFICATION***

shall be thoroughly tested for peak performance. In addition an Auxiliary AC Condenser will be required in the system and a digital thermostat.

There shall be supplied in the vehicle owner's manual, a copy of the testing and certification on the performance of the system.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

**POWER VENTILATOR** - The power ventilator shall be treated to insure proper operations.

The unit shall be repaired or replaced as necessary.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

## **OXYGEN / VACUUM SYSTEMS**

**OXYGEN SYSTEM** - The current piped oxygen system shall be tested to insure proper operations and replaced if necessary.

Testing shall include a minimum four hour nitrogen leak test. The system including outlets and lines shall be repaired or replaced as necessary.

Documentation concerning the oxygen testing shall be provided in the vehicle owner's manual.

Is this requirement understood and met? Yes \_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

**VACUUM SYSTEM** - The current piped vacuum system shall be tested to insure proper operations.

The system including outlets and piping shall be repaired or replaced as necessary.  
Documentation concerning the vacuum / suction system shall be provided in the vehicles owner's manual.

Is this requirement understood and met? Yes \_\_\_\_\_ No \_\_\_\_\_ Bidder's initials: \_\_\_\_\_

**Specifications must meet or exceed the following specifications.**  
**Equipment bid must be comparable to specified equipment**

**S P E C I F I C A T I O N**

Data Code	Description	Weight Front	Weight Rear	Retail Price
<b>Price Level</b>				
PR09M	M2 PRL 09M (EFFOS/0512014)			STD
<b>Data Version</b>				
DRL 005	SPECPR021 DATA RELEASE VER 005			N/C
<b>Vehicle Configuration</b>				
001-172	M2 106 CONVENTIONAL CHASSIS	5,775	3,535	\$97,371.00
004-215	2015 MODEL YEAR SPECIFIED			STD
002-004	SET BACK AXLE • TRUCK			STD
019-002	STRAIGHT TRUCK PROVISION			STD
003-001	LH PRIMARY STEERING LOCATION			STD
<b>General Service</b>				
AA1-002	TRUCK CONFIGURATION			STD
AA6-002	DOMICILED, USA (EXCLUDING CALIFORNIA AND CARB OPT-IN STATES)			STD
A85-006	RESCUE AND EMERGENCY SERVICE			N/C
A84-1EV	EMERGENCY VEHICLES BUSINESS SEGMENT			N/C
AA4011	FIXED LOAD COMMODITY			N/C
AA5-002	TERRAIN/DUTY:100% (ALL) OF THE TIME, IN TRANSIT, ISSPENT ON PAVED ROADS			STD
AB1-008	MAXIMUM 8% EXPECTED GRADE			STD
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE			STD
995-091	MEDIUM TRUCK WARRANTY			STD
A60-99D	EXPECTED FRONT AXLE (S) LOAD : 8000.0lbs			
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 21000.0lbs			
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 29000.0 lbs			

Data Code	Description	Weight Front	Weight Rear	Retail Price
<b>Truck Service</b>				
AA3-024	AMBULANCE BODY			N/C
A88-99D	EXPECTED TRUCK BODY LENGTH : 0.0 ft			
AF7-99D	EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME XX INCHES : 32.0in			
<b>Engine</b>				
101-2N7	CUM ISB 6.7-300 300 HP @ 2600 RPM,2600 GOV, 660 LB/FT @ 1600 RPM			\$6,471.00
<b>Electronic Parameters</b>				
79A-075	75 MPH ROAD SPEED LIMIT			N/C
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT			N/C
79K-007	PTO MODE ENGINE RPM LIMIT - 1100 RPM			N/C
79M-001	PTO MODE BRAKE OVERRIDE SERVICE BRAKE APPLIED			N/C
79P-002	PTO RPM WITH CRUISE SET SWITCH - 700 RPM			N/C
79O-003	PTO RPM WITH CRUISE RESUME SWITCH - 800 RPM			N/C
79S 001	PTO MODE CANCEL VEHICLE SPEED - 5 MPH			N/C
79U-007	PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND			N/C
80002	PTO MINIMUM RPM - 700			N/C
80J 002	REGEN INHIBIT SPEED THRESHOLD * 5 MPH			N/C
<b>Engine Equipment</b>				
99C-013	2013 ONBOARD DIAGNOSTICS/2010 EPA/CARB/GHG14			STD
99D-010	NO 2008 CARB EMISSION CERTIFICATION			STD
13E-001	STANDARD OIL PAN			STD
105-001	ENGINE MOUNTED OIL CHECK AND FILL			STD
133-004	ONE PIECE VALVE COVER			STD
014-099	SIDE OF HOOD AIR INTAKE WITH FIREWALL MOUNTED DONALDSON AIR CLEANER			STD
1241CE	LN 12V 320 AMP 4962PA PAD MOUNT ALTERNATOR	10		\$1,022.00
292-098	(2) ALLIANCE MODEL 1231, GROUP 31,12 VOLT MAINTENANCE FREE 2250 CCA THREADED STUD BATERIES			\$43.00
290-017	BATIERY BOX FRAME MOUNTED			STD
281-001	STANDARD BATIERY JUMPERS			STD
282-001	SINGLE BATIERY BOX FRAME MOUNTED LH SIDE UNDER CAB			STD

Data Code	Description	Weight Front	Weight Rear	Retail Price
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN			STD
289-001	NON-POLISHED BATTERY BOX COVER			STD
295-029	POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER	2		\$111.00
107-032	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE			STD
108-002	STANDARD MECHANICAL AIR COMPRESSOR GOVERNOR			STD
131-013	AIR COMPRESSOR DISCHARGE LINE			STD
152-039	GVG, FIRE AND EMERGENCY SERVICE VEHICLES ENGINE WARNING			N/C
016-1DD	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH LH HORIZONTAL TAILPIPE EXITING FORWARD OF REAR TIRES	15	15	\$417.00
28F-007	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD ACTIVE REGENERATION AND DASH MOUNTED SINGLE REGENERATION REQUEST/INHIBIT SWITCH			\$5.00
239-001	STANDARD EXHAUST SYSTEM LENGTH			STD
237-027	LH HORIZONTAL TAILPIPE, EXIT FORWARD OF REAR TIRES	20	20	N/C
N 23U-001	6 GALLON DIESEL EXHAUST FLUID TANK			STD
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL			STD
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION			STD
23Y002	DIESEL EXHAUST FLUID PUMP MOUNTED AFT OF DIESEL EXHAUST FLUID TANK			\$32.00
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP			STD
273-035	HORTON HT650 FRONTAL AIR ON/OFF ENGINE FAN CLUTCH			STD
276-001	AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED			STD
110-003	CUMMINS SPIN ON FUEL FILTER			STD
118-001	FULL FLOW OIL FILTER			STD
266-078	950 SQUARE INCH ALUMINUM RADIATOR			STD
100004	ANTIFREEZE TO -34F, NOAT EXTENDED LIFE COOLANT			STD
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT			STD
172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES			STD
270-016	RADIATOR DRAIN VALVE			STD

Data Code	Description	Weight Front	Weight Rear	Retail Price
168 002	LOWER RADIATOR GUARD			STD
138-010	PHILLIPS-TEMRO 750 WATT/115 VOLT BLOCK HEATER	4		\$108.00
140-022	CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR			\$14.00
134-001	ALUMINUM FLYWHEEL HOUSING			STD
132-004	ELECTRIC GRID AIR INTAKE WARMER			STD
155-058	DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH			\$39.00
<b>Transmission</b>				
342 1KD	ALLISON 3000 EVS AUTOMATIC TRANSMISSION WITH PTO PROVISION	200	60	\$8,854.00
<b>Transmission Equipment</b>				
343-322	ALLISON VOCATIONAL PACKAGE 170 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODEL RDS AND EVS			N/C
84B-003	ALLISON VOCATIONAL RATING FOR FIRE TRUCK/EMERGENCY VEHICLE APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES			N/C
84C-022	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 5, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			N/C
84D-022	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 5, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			N/C
353-026	VEHICLE INTERFACE WIRING AND PDM WITH BODY BUILDER CONNECTOR, BACK OF CAB			\$772.00
34C-002	ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR MOUNTED BACK OF CAB			\$106.00
362-035	CUSTOMER INSTALLED CHELSEA 277 SERIES PTO			N/C
363-001	PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION			N/C
341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN			STD
345-003	PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED			N/C
97G-004	TRANSMISSION PROGNOSTICS .ENABLED 2013			N/C
370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK			STD
346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK			N/C
35T 001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)			STD

Data Code	Description	Weight Front	Weight Rear	Retail Price
<b>Front Axle and Equipment</b>				
4001EW	DETROIT DA-F-8.0-3 S.000# FF1 71.5 KPV3.74 DROP SINGLE FRONT AXLE			(\$38.00)
40221	MERITOR 15X5 O+ CAST SPIDER CAM FRONT BRAKES,DOUBLE ANCHOR ,FABRICATED SHOES	20		\$140.00
40226	FIRE AND EMERGENCY SEVERE SERVICE, NON-ASBESTOS FRONT LINING			N/C
419-023	CONMET CAST IRON FRONT BRAKE DRUMS			STD
409-006	FRONT OILSEALS			N/C
40801	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS ·OIL			STD
41622	STANDARD SPINDLE NUTS FOR ALL AXLES			STD
40503	HALDEX AUTOMATIC FRONT SLACK ADJUSTERS			\$54.00
536-050	TRW THP-60 POWER STEERING			STD
539-003	POWER STEERING PUMP			STD
534-015	2 QUART SEE THROUGH POWER STEERING RESERVOIR			STD
40702	SYNTHETIC 75W-90 FRONT AXLE LUBE			\$8.00
<b>Front Suspension</b>				
620-032	8,000# TAPERLEAF FRONT SUSPENSION	-30		(\$33.00)
61905	MAINTENANCE FREE RUBBER BUSHINGS · FRONT SUSPENSION			STD
62904	FRONT SWAYBAR	60		\$503.00
410 001	FRONT SHOCK ABSORBERS			STD
<b>Rear Axle and Equipment</b>				
N	420 1C3	DETROIT DA-RS-13.0 2 13,000# F-SERIES SINGLE REAR AXLE	185	\$89.00
N	42478	4.78 REAR AXLE RATIO		N/C
	424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		STD
	38679	MXL 16T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	-10	40 (\$359.00)
N	423-001	MERITOR 15X6 O+ CAM REAR BRAKES, DOUBLE ANCHOR ,FABRICATED SHOES	20	N/C
	43225	FIRE AND EMERGENCY SEVERE SERVICE NON- ASBESTOS REAR BRAKE LINING		\$7.00
	43405	BRAKE CAMS AND CHAMBERS ON FORWARD SIDE OF DRIVE AXLE(S) WITH AUXILIARY SUPPORT BRACKETS		STD
	451-018	WEBB CAST IRON REAR BRAKE DRUMS	50	N/C
	440-006	REAR OIL SEALS		N/C

Data Code	Description	Weight Front	Weight Rear	Retail Price
426-074	HALDEX GOLDSEAL LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS			STD
428-003	HALDEX AUTOMATIC REAR SLACK ADJUSTERS			\$39.00
41T-002	SYNTHETIC 75W-90 REAR AXLE LUBE			\$68.00
<b>Rear Suspension</b>				
N 622-1CY	AIRLINER 15,000# REAR SUSPENSION		-40	(\$36.00)
621-046	AIRLINER MID POSITION RIDE HEIGHT			N/C
431-001	STANDARD U-BOLT PAD			STD
888-050	IGNITION CONTROLLED ELECTRIC DUMP SWITCH FOR AIR SUSPENSION WITH GAUGE			\$196.00
87D-014	REAR AIR SUSPENSION DUMP VALVE AUTOFILL WITH IGNITION OFF OR >5 MPH WITH BUZZER AND INDICATOR LIGHT			N/C
910-009	DUAL INSTANT RESPONSE REAR SUSPENSION LEVELING VALVES WITH PING TANK AND RESERVE TANK FOR 10'12'115,000# AIRLINER	20	40	\$731.00
623-002	TRANSVERSE CONTROL RODS			STD
630-006	10,000/15,000# AIRLINER REAR SUSPENSION STABILIZER BAR		50	\$816.00
439-004	REAR SHOCK ABSORBERS - ONE AXLE (AIR RIDE SUSPENSION)			STD
<b>Brake System</b>				
018-002	AIR BRAKE PACKAGE			STD
490-100	WABCO 4S/4M ABS WITHOUT TRACTION CONTROL			STD
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES			STD
904-001	FIBER BRAID PARKING BRAKE HOSE			STD
412-001	STANDARD BRAKE SYSTEM VALVES			STD
46D-001	STANDARD AIR SYSTEM PRESSURE PROTECTION AND 85 PSI PRESSURE PROTECTION FOR AIR HORN(S)			N/C
413-002	STD U.S. FRONT BRAKE VALVE			STD
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE			STD
480-009	BW AD-9 BRAKE LINE AIR DRYER WITH HEATER	20		N/C
479-012	AIR DRYER MOUNTED UNDER HOOD			N/C
460-001	STEEL AIR BRAKE RESERVOIRS			STD
607-001	CLEAR FRAME RAILS FROM BACK OF CAB TO FRONT REAR SUSPENSION BRACKET, BOTH RAILS OUTBOARD			\$63.00
477-006	BW DV-2 AUTO DRAIN VALVE WITHOUT HEATER ON ALL TANK(S)			\$85.00

Data Code	Description	Weight Front	Weight Rear	Retail Price
<b>Trailer Connections</b>				
296-010	PRIMARY CONNECTOR/RECEPTACLE WIRED FOR SEPARATE STOP/TURN,ABS CENTER PIN POWERED THROUGH IGNITION			N/C
297-005	SAE J560 7-WAY PRIMARY TRAILER CABLE RECEPTACLE LH FRAME MOUNTED AFT CAB			N/C
335-004	UPGRADED CHASSIS MULTIPLEXING UNIT			STD
32A-002	UPGRADED BULKHEAD MULTIPLEXING UNIT			STD
<b>Wheelbase &amp; Frame</b>				
545-442	4425MM (174 INCH) WHEELBASE			N/C
546-092	1 1/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8/0.344X10.94 INCH) 80KSI	10	120	\$304.00
552-030	1600MM (63 INCH) REAR FRAME OVERHANG			STD
55W-006	FRAME OVERHANG RANGE :61 INCH TO 70 INCH			N/C
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 108.45 in			
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) - 105.45 in			
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 266.39			
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 108.45 in			
FSS-OLH	CALCULATED FRAME SPACE LH SIDE : 115.72 in			N/C
FSS-ORH	CALCULATED FRAME SPACE RH SIDE : 121.66 in			N/C
553-001	SQUARE END OF FRAME			STD
550-001	FRONT CLOSING CROSSMEMBER			STD
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER			STD
562-001	STANDARD MIDSHIP #1 CROSSMEMBER (S)			STD
572-001	STANDARD REARMOST CROSSMEMBER			STD
565-001	STANDARD SUSPENSION CROSSMEMBER			STD
<b>Chassis Equipment</b>				
556-IAR	THREE-PIECE 14 INCH CHROMED STEEL BUMPER WITH COLLAPSIBLE ENDS	30		\$347.00
558-001	FRONT TOW HOOKS - FRAME MOUNTED	15		\$96.00
574-001	BUMPER MOUNTING FOR SINGLE LICENSE PLATE			STD
586-024	FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS			STD
551-007	GRADE 8 THREADED HEX HEADED FRAME FASTENERS			STD

Data Code	Description	Weight Front	Weight Rear	Retail Price
<b>Fuel Tanks</b>				
204-217	34 GALLON/128 LITER SHORT RECTANGULAR ALUMINUM FUEL TANK - LH			\$72.00
218-00S	RECTANGULAR FUEL TANK(S)			STD
21S-00S	PLAINALUMINUM/PAINTED STEEL FUEUHYDRAULIC TANK(S) WITH PAINTED BANDS			STD
212-007	FUEL TANK(S) FORWARD			STD
664-001	PLAINSTEP FINISH			STD
20S-001	FUEL TANK CAP(S)			STD
122-084	ALLIANCE FUEL FILTER/WATER SEPARATOR WITH PRIMER PUMP			STD
216-020	EOUIFLO INBOARD FUEL SYSTEM			STD
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE			STD
093-0ES	MICHELIN XZE 24S/19S 16 PLY RADIAL FRONT TIRES	-82		(\$226.00)
094-1FT	MICHELIN XDS2 24S/70R19S 16 PLY RADIAL REAR TIRES		-144	(\$160.00)
<b>Hubs</b>				
418-0S6	CONMET PRESET PLUS IRON FRONT HUBS			STD
4S0-014	WEBB IRON REAR HUBS		-20	NC
<b>Wheels</b>				
S02-1ES	ALCOA 77362X 19S X7.S0 10-HUB PILOT S.23 INSET ALUMINUM DISC FRONT WHEELS	-80		\$366.00
S0S-1ES	ALCOA 77362X 19S X7.S0 10-HUB PILOT ALUMINUM DISC REAR WHEELS		-160	\$732.00
496-011	FRONT WHEEL MOUNTING NUTS			STD
497-011	REAR WHEEL MOUNTING NUTS			STD
<b>Cab Exterior</b>				
829-071	106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB			STD
682-0S0	WALK THROUGH OPENING IN BACK OF CAB WITHOUT BOOT			\$1,6S7.00
6S0-009	RUBBER CAB MOUNTS			STD
70S-012	CAB ROOF REINFORCEMENTS FOR ROOF MOUNTED COMPONENTS	2		\$72.00
648-002	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE			\$46.00
678-018	LH AND RH EXTERIOR GRAB HANDLES WITH SINGLE RUBBER INSERT			\$131.00

Data Code	Description	Weight Front	Weight Rear	Retail Price
646-023	HOOD MOUNTED CHROMED PLASTIC GRILLE			\$99.00
65X-003	CHROME HOOD MOUNTED AIR INTAKE GRILLE			\$51.00
644-004	FIBERGLASS HOOD			STD
690-002	TUNNEUFIREWALL LINER			\$30.00
727 1B0	DUAL 25 INCH ROUND STUTTER TONE HOOD MOUNTED AIR HORNS	8		\$598.00
726-002	DUAL ELECTRIC HORNS			\$10.00
728-002	DUAL HORN SHIELDS			N/C
657-001	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME			STD
575-001	REAR LICENSE PLATE MOUNT END OF FRAME			STD
312-038	INTEGRAL HEADLIGHT/MARKER ASSEMBLY WITH CHROME BEZEL			N/C
302-047	LED AERODYNAMIC MARKER LIGHTS			\$40.00
311-001	DAYTIME RUNNING LIGHTS			\$21.00
294-090	OMIT STOP/TAILBACKUP LIGHTS AND PROVIDE WIRING FOR COMBINED STOP/TURN LIGHTS TO FOUR FEET BEYOND END OF FRAME		5	(\$30.00)
300-015	STANDARD FRONT TURN SIGNAL LAMPS			STD
744-1BC	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE			\$330.00
797-001	DOOR MOUNTED MIRRORS			STD
796-001	102 INCH EQUIPMENT WIDTH			STD
743-204	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS			N/C
729-001	STANDARD SIDE/REAR REFLECTORS			STD
768-998	NO REAR WINDOW	20		N/C
661-003	TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS			STD
654-011	RH AND LH ELECTRIC POWERED WINDOWS	4		\$218.00
663-013	TINTED WINDSHIELD			STD
659-019	2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, FRAME MOUNTED			STD
<b>Cab Interior</b>				
707 1AM	OPAL GRAY CLOTH INTERIOR			STD
706-013	MOLDED PLASTIC DOOR PANEL			STD
708-013	MOLDED PLASTIC DOOR PANEL			STD
772-006	BLACK MATS WITH SINGLE INSULATION			STD
785-001	DASH MOUNTED ASH TRAYS AND LIGHTER			\$12.00

Data Code	Description	Weight Front	Weight Rear	Retail Price
691-008	FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING			STD
694-010	IN DASH STORAGE BIN			STD
742-007	(2) CUP HOLDERS LH AND RH DASH			STD
680-006	GRAY/CHARCOAL FLAT DASH			STD
700-002	HEATER, DEFROSTER AND AIR CONDITIONER			STD
701-001	STANDARD HVAC DUCTING			STD
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH			STD
170-045	STANDARD HEATER PLUMBING WITH BALL SHUTOFF VALVES AT SUPPLY LINES ONLY			\$41.00
130-036	(1) DENSO HEAVY DUTY AND (1) SANDEN COMPACT REFRIGERANT COMPRESSORS	20		\$521.00
702-002	BINARY CONTROL, R34A			STD
739-033	STANDARD INSULATION			STD
285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES			STD
280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM			STD
324-014	DOMELIGHT WITH 3-WAY SWITCH ACTIVATED BY LH AND RH DOORS			STD
655-005	LH AND RH ELECTRIC DOOR LOCKS			\$99.00
284-023	(1) 12 VOLT POWER SUPPLY IN DASH			\$16.00
756-1J1	BASIC HIGH BACK NON SUSPENSION DRIVER SEAT WITH FORE AND AFT ADJUSTMENT			STD
760 1DC	BASIC HIGH BACK NON SUSPENSION PASSENGER SEAT			STD
759-006	DUAL DRIVER SEAT ARMRESTS AND INBOARD PASSENGER SEAT ARMREST	6		\$104.00
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS			STD
758-036	VINYL WITH VINYL INSERT DRIVER SEAT			STD
761-036	VINYL WITH VINYL INSERT PASSENGER SEAT			STD
763-012	3 POINT HIGH VISIBILITY ORANGE RETRACTOR DRIVER AND PASSENGER SEAT BELTS			\$26.00
532 002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN	10		\$478.00
540-015	4-SPOKE 18 INCH (450MM) STEERING WHEEL			STD
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS			STD
<b>Instruments &amp; Controls</b>				
732-004	GRAY DRIVER INSTRUMENT PANEL			STD
734-004	GRAY CENTER INSTRUMENT PANEL			STD

Data Code	Description	Weight Front	Weight Rear	Retail Price
87L-003	ENGINE REMOTE INTERFACE WITH PARK BRAKE AND NEUTRAL INTERLOCKS			\$35.00
870-001	BLACK GAUGE BEZELS			STD
486-001	LOW AIR PRESSURE LIGHT AND BUZZER			STD
840-002	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES			STD
198-025	INTAKE MOUNTED AIR RESTRICTION INDICATOR WITHOUT GRADUATIONS			STD
721-003	PRECO 1040 87 DB TO 112 DB AUTOMATIC SELF-ADJUSTING BACKUP ALARM		3	\$104.00
149-013	ELECTRONIC CRUISE CONTROL WITH SWITCHES IN LH SWITCH PANEL			STD
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY			STD
811-011	ODOMETER/TRIP HOUR/DIAGNOSTIC VOLTAGE DISPLAY: 1X7 CHARACTER, 26 WARNING LAMPS, DATA LINKED, ICU3			STD
160-025	DIAGNOSTIC INTERFACE CONNECTOR, 9 PIN, SAE J1939, LOCATED BELOW DASH			STD
844-001	2 INCH ELECTRIC FUEL GAUGE			STD
148-070	ENGINE REMOTE INTERFACE WITH PRESET FAST IDLE			\$285.00
163-001	ENGINE REMOTE INTERFACE CONNECTOR AT BACK OF CAB			N/C
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE			STD
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE			N/C
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY			STD
372-051	CUSTOMER FURNISHED AND INSTALLED PTO CONTROLS			N/C
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE			STD
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER			STD
817-001	STANDARD VEHICLE SPEED SENSOR			STD
812-001	ELECTRONIC 3000 RPM TACHOMETER			STD
162-011	IDLE LIMITER, ELECTRONIC ENGINE			STD
264-025	(1) RH FOOT SWITCH WITH DASH SWITCH FOR HORN BUTTON TO CONTROL AIR HORN, DEFAULT TO ELECTRIC <85 PSI			\$206.00
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY			STD

Data Code	Description	Weight Front	Weight Rear	Retail Price
660-008	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY			STD
304-001	MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH			STD
882 018	ONE VALVE PARK BRAKE SYSTEM WITH DASH VALVE CONTROL AUTONEUTRAL AND WARNING INDICATOR			\$115.00
29013	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE			STD
29039	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS			STD
<b>Design</b>				
065-000	PAINT: ONE SOLID COLOR			STD
<b>Color</b>				
980-5F6	CAB COLOR A: L0006EB WHITE ELITE BC			STD
986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT			STD
<b>Certification / Compliance</b>				
99001	U.S.FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS			STD
<b>Secondary Factory Options</b>				
998-001	CORPORATE POI CENTER IN-SERVICE ONLY			NC
<b>Sales Programs</b>				
	NO SALES PROGRAMS HAVE BEEN SELECTED			

**TOTAL VEHICLE SUMMARY**

**Adjusted List Price**

Adjusted List Price \*\*

**Weight Summary**

	Weight Front	Weight Rear	Total Weight
Factory Weigh(	6029 lbs	3309 lbs	9338 lbs