



TOWN OF RIVERHEAD
Sean M. Walter, Supervisor

200 Howell Avenue
Riverhead, New York 11901-2596
631-727-3200

AMB-2016

**BID FOR: 2016 AMBULANCE FOR RIVERHEAD
VOLUNTEER AMBULANCE CORP**

BIDDERS NAME

BIDDERS ADDRESS

CITY, STATE, ZIP

EMAIL ADDRESS

DATE

(_____) _____
PHONE NUMBER

In compliance with your advertisement for bids to be opened on **July 2, 2015** and subject to all conditions thereof, the undersigned hereby proposes to furnish the item(s) and/or service(s) itemized in this proposal in accordance with the Notice to Bidders, General Information Agreement and Specifications contained herein on the Bid Proposal Form attached.

Bidder certifies that the prices quoted herein do not include Federal Excise Tax or any Federal, New York State or City Sales Tax and are not higher than prices charged to any governmental or commercial consumer for like merchandise and/or service; and all prices include shipping and freight charges to any Municipal building or site within the Town of Riverhead.

Respectfully submitted,

SIGNED BY

TITLE

BIDDERS ARE INVITED TO ATTEND BID OPENING

TOWN OF RIVERHEAD
NOTICE TO BIDDERS

Sealed proposals for the purchase of **2016 AMBULANCE FOR RIVERHEAD VOLUNTEER AMBULANCE CORP** will be received by the Town of Riverhead in the Office of the Town Clerk, 200 Howell Avenue, Riverhead, New York until **2 p.m. July 2, 2015** at which time they will be publicly opened and read aloud.

Specifications may be examined and/or obtained on **JUNE 11, 2015** on the Town of Riverhead website at www.townofriverheadny.gov, click on bid requests.

Each proposal must be submitted on the form provided and must be in a sealed envelope clearly marked, with the bid number as on the **“2016 AMBULANCE FOR RIVERHEAD VOLUNTEER AMBULANCE CORP”**. Any and all exceptions to the specifications must be listed on a separate sheet of paper, bearing the designation “EXCEPTIONS TO THE SPECIFICATIONS” and attached to the bid form.

The Town Board reserves the right and responsibility to reject any and all bids or to waive any formality if it believes such action to be in the best interest of the Town.

BY ORDER OF THE RIVERHEAD TOWN BOARD
OF THE TOWN OF RIVERHEAD
DIANE M. WILHELM, TOWN CLERK

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INSTRUCTIONS AND INFORMATION FOR BIDDERS

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- Read all documents contained in the bid specifications.
- Bidders are responsible for submitting their bids to the appropriate location at or prior to the time indicated in the specifications. **No bids will be accepted after the designated time or date indicated in the bid specifications.** It is suggested that registered mail be used to submit bids. Delay in mail delivery is not an exception to the receipt of a bid.
- Any questions or clarification to the bid specifications or technical specifications must be submitted in writing to the Purchasing Agent at 200 Howell Ave., Riverhead, NY 11901 or by email to: tague@townofriverheadny.gov prior to the bid opening, **unless otherwise stated***. Such questions must be in the possession of the Purchasing Agent at least 72 hours prior to the bid opening, **unless otherwise stated***. **Verbal questions will not be entertained.**
- Bidders shall indicate, on the outside of their sealed bid, the following information:
 1. Title of the BidFailure to do so may result in rejection of the bid as being unresponsive.
- **The following forms are necessary to be submitted as a bid, as well as any additional forms requested in the detailed specifications:**
 1. **Bid proposal form/price page(s)**
 2. **Non-Collusion Affidavit**, completed, signed and dated.

It is not necessary to submit our technical specifications with the bid. They should be retained by the bidder for their records.

- Official bid copies are obtained on the following website:
www.townofriverheadny.gov
- **Bidders must submit one original copy of their bids.** The original must be clearly marked. All bids must be filled out in ink, or be typewritten. Bids submitted in pencil will be rejected as unresponsive. Bids which have been corrected by white out or cross out, and have not been initialed and/or dated will be rejected as unresponsive.
- Samples may be requested by the Town for the purpose of product evaluation. It is understood that samples will be provided at **no charge** to the Town and will be returned, when requested, within 30 days after the evaluation is completed, at the expense of the vendor. All samples left longer than 30 days after the evaluation period will be discarded.

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- Specifications and bid forms are attached hereto. All bids will be sealed and **distinctly marked “PROPOSAL FOR BID FOR 2016 AMBULANCE FOR RIVERHEAD VOLUNTEER AMBULANCE CORP.”**
- The Town of Riverhead official bid documents are obtained from the Towns website at www.townofriverheadny.gov. In addition to obtaining the official bid documents, any and all addendum pertaining to a particular bid or RFP are posted on the same website that the official bid documents are obtained. It is incumbent upon all potential bidders to view all posted addenda prior to the bid close date.
- Should the bidder find discrepancies or omissions in the specifications, he shall notify the Purchasing Agent, at once. The Purchasing Agent will not assume responsibility for any oral instructions, or interpretations of meaning of the specifications or other contract documents to any bidder by any person or persons.
- The Purchasing Agent, and/or his designee, shall be the only one authorized to make changes or alterations to anything contained in these specifications. Such changes shall be posted as an addendum on the following website: www.townofriverheadny.gov. All bids shall be made out on the proposal forms attached hereto and all the attached certificates must be completed and signed in compliance with the provisions of Section 103-d of the New York State General Municipal Law.
- The Purchasing Agent reserves the right to reject all bids, parts of all bids, or all bids for any one or more items or contractual services included in the proposed contract, when such rejection is in the best interest of the Town.
- No bidder may withdraw a bid within forty-five (45) days after the actual date of the bid opening. Any bidder who does not honor their bid within the forty-five (45) days may be barred from bidding in any jurisdiction in New York State.
- Upon acceptance of any bid, the successful bidder shall execute a contract, in accordance with the specifications, with the Town of Riverhead, State of New York.
- Any bidder, contractor, or manufacturer who, in the course of his work, uses or supplies products which may be toxic or harmful, shall provide an MSDS to the Town of Riverhead Purchasing Department prior to the use of those products by the Town or the contractor.
- Bidders who are required to adhere to the prevailing wage schedule shall obtain and maintain a current schedule from the New York State Department of Labor for the entire term of the contract. The Town may audit adherence to this schedule at any time during or after the contract period.

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- By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to paragraph (b) of subdivision 3 of section 165-a of the state finance law.
- The Town of Riverhead, a governmental entity and political subdivision of the State of New York, upon an award, by resolution of the Town Board, to the lowest responsible bidder consistent with GML §103, shall extend the terms and conditions of these bid specifications to all such governmental entities qualified to participate in the exception to competitive bidding set forth in General Municipal Law §103 (16) subject to the following: (1) the bid is for the purchase of apparatus, materials equipment or supplies or the bid is for services related to the installation, maintenance or repair of apparatus, materials, equipment and supplies; (2) the successful bidder agrees and consents to extend the terms and conditions set forth in the bid specifications to the qualified governmental entities shall constitute a distinct and separate agreement of contract by and between the successful bidder and the qualified governmental entity such that no claim or cause of action may be commenced against the Town related to any matter whatsoever relating to the agreement or contract by and between successful vendor and qualified governmental entity.

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IRAN DIVESTMENT ACT CERTIFICATION

As a result of the Iran Divestment Act of 2012 (Act), Chapter 1 of the 2012 Laws of New York, a new provision has been added to the State Finance Law (SFL), § 165-a, effective April 12, 2012. Under the Act, the Commissioner of the Office of General Services (OGS) will be developing a list (prohibited entities list) of “persons” who are engaged in “investment activities in Iran” (both are defined terms in the law). Pursuant to SFL § 165-a(3)(b), the initial list is expected to be issued no later than 120 days after the Act’s effective date, at which time it will be posted on the OGS website.

By submitting a bid in response to this solicitation or by assuming the responsibility of a Contract awarded hereunder, Bidder/Contractor (or any assignee) certifies that once the prohibited entities list is posted on the OGS website, it will not utilize on such Contract any subcontractor that is identified on the prohibited entities list.

Additionally, Bidder/Contractor is advised that once the list is posted on the OGS website, any Contractor seeking to renew or extend a Contract or assume the responsibility of a Contract awarded in response to the solicitation, must certify at the time the Contract is renewed, extended or assigned that it is not included on the prohibited entities list.

During the term of the Contract, should the TOWN OF RIVERHEAD receive information that a person is in violation of the above-referenced certification, the TOWN OF RIVERHEAD will offer the person an opportunity to respond. If the person fails to demonstrate that it has ceased its engagement in the investment which is in violation of the Act within 90 days after the determination of such violation, then the TOWN OF RIVERHEAD shall take such action as may be appropriate including, but not limited to, imposing sanctions, seeking compliance, recovering damages, or declaring the Contractor in default.

The TOWN OF RIVERHEAD reserves the right to reject any bid or request for assignment for an entity that appears on the prohibited entities list prior to the award of a contract, and to pursue a responsibility review with respect to any entity that is awarded a contract and appears on the prohibited entities list after contract award.

Signature: _____

Print Name: _____

Title: _____

Company Name: _____

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Date: _____

NON-COLLUSIVE CERTIFICATE
(MUST BE COMPLETED, SIGNED, NOTARIZED AND RETURNED WITH BID)

UNDER PENALTIES OF PERJURY:

_____ (BIDDER), BEING DULY SWORN,
DEPOSES AND SAYS:

This bid or proposal has been independently arrived at without collusion with any other bidder or with any competitor or potential competitor;

This bid or proposal has not knowingly been disclosed, prior to the opening of bids or proposals for this project, to any other bidder, competitor, or potential competitor;

No attempt has been made or will be made to induce any other person, partnership, or corporation to submit or not to submit a bid or proposal;

The person signing this bid or proposal certifies that he has been fully informed regarding the accuracy of the statements contained in this certification, and under penalties of perjury, affirms the truth thereof, such penalties being applicable to the bidder as the person signing on its behalf; and

That the attached hereto (if a corporate bidder) is a certified copy of a resolution authorizing the execution of this certificate by the signatory of this bid or proposal on behalf of the corporate bidder.

Corporation: _____
(PRINT CORPORATION NAME)

(SIGNATURE)

(TITLE)

Address: _____

Sworn to before me this

_____ day of _____, 20_____

NOTARY PUBLIC

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1. SCOPE: **Bidder Complies YES** _____ **NO** _____

This specification pertains to a commercially produced ambulance. The ambulance shall be a self-propelled, cab over engine chassis, designed with a patient compartment to accommodate a medical crew and two supine patients so positioned that at least one patient can be given intensive life-support during transit. Furthermore, these specifications are in general accord with the Ambulance design criteria of the National Highway Traffic Administration, United States Department of Transportation, and Washington D.C. The following specifications describe an ambulance suitable for use by this organization. These specifications are intended to provide a common standard to which all parties may bid. For this reason, the bidder must respond to each individual item indicating Y for COMPLY, or N for EXCEPTION. If a category is left blank it will be interpreted as a No, indicating an exception. All exceptions MUST be noted with page number and paragraph heading. A detailed explanation must accompany all exceptions even if you feel your proposal exceeds what has been called for. NO EXCEPTIONS. A complete set of standard construction specifications showing how the vehicle you are proposing is constructed is to be included. This is to include all areas of the manufacturing process. This is a requirement, and not an option. This requirement is set forth to allow for this organization ease in comparing their specifications as written to that of what has been proposed.

2. CLASSIFICATION: **Bidder Complies: YES** _____ **NO** _____

This specification requires an ambulance with the most current KKK-A-1822 classification: Type I, Class I, Floor Plan "A" ambulance.

3. APPLICABLE DOCUMENTATION: **Bidder Complies YES** _____ **NO** _____

Anyone responding to this bid invitation shall include a letter of certification with the bid. The letter of certification shall be written by an independent engineer certifying that the ambulance type required by this bid specification has been examined and tested for compliance to the most current Federal KKK-A-1822 standards; and that this type ambulance fully complies with the requirements applicable to this standard. Bidder shall certify that this vehicle also fully complies with all New York State Part 800-vehicle construction standards.

4. MATERIALS: **Bidder Complies YES** _____ **NO** _____

This medical emergency vehicle, chassis and modular body, medical accessories, and electronic equipment to be delivered under this contract shall be standard commercial products, which meet or exceed the requirements of this specification. This medical emergency vehicle shall comply with all Federal Motor Vehicle Safety Standards (FMVSS) and Federal regulations applicable for the year of manufacture. The modular body, chassis components and optional items required in this specification shall be as represented in the manufacturers current technical data. The supplier shall provide total standardization and

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interchangeability between similar vehicles and like equipment items and accessories specified. Materials used in the construction shall be new and free of defects.

5. NOTICE:

Bidder Complies YES_____ NO_____

Although this specification is patterned after the most current Federal KKK-A-1822 specifications, this specification varies from the Federal KKK-A-1822 specifications. This specification requires a more advanced design than the minimum standards provided by the present Federal specifications.

These advanced design features and more stringent performance standards are required in order to provide greater ambulance reliability and improved operation. Therefore, bidders must carefully review every requirement listed in this specification and respond in detail if offering equipment, which is not in compliance.

The vehicle being bid must have been in standard production for at least forty (40) years. Bidder may be required to provide a list of Medical Emergency Vehicles delivered within this time period. If such a list is asked for and cannot be produced your proposal may be disqualified from contention.

6. EXCEPTIONS:

Bidder Complies YES_____ NO_____

Bidders offering "equal or better" equipment must provide detailed engineering data to substantiate their claims. For each exception taken, the bidder must include a detailed description of what he intends to furnish as itemized in these specifications. Not marking yes or no will be assumed to be an exception. All exceptions shall be listed by page number and noted on an exception sheet; said sheet is to be attached to these specifications. Bids offering "equal or better" equipment, which is not in 100% full compliance with these specifications as written and do not provide with supporting documentation for evaluation by this organization, will be rejected. Bids taking total exception to these specifications will be rejected. An item that is NOT marked with an exception and/or marked yes indicating that you comply, will be understood to mean that you are going to meet the specification paragraph 100% with NO degree of deviation.

7. INFORMATION AND DESCRIPTIVE MATERIAL:

Bidder Complies YES_____ NO_____

Bidders must furnish all information requested and in the space provided on the bid form. In addition, bidders shall submit a copy of their manufacturers' current NFPA certification, current NTEA certification, current QVM certification (The QVM requirement must be met no matter what chassis this vehicle is being proposed on) and a copy of their most current KKK-A-1822 certification letter for the model being bid. Your bid must include a certificate of good standing from the state where BOTH the manufacturer and bidder are incorporated. You must also provide at least One (1) Complete Set of Drawings, Descriptive Literature and Complete Detailed Specifications covering the product you are offering. All of this documentation is a requirement, and not an option. It must be provided to show your company's ability to build this emergency vehicle and to allow this organization to easily compare your proposal to these specifications and other

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proposals. The specifications you submit for your standard truck **MUST** be in the same format, and in the same order, as what is enclosed in this package. Bids not meeting this requirement and or that do not include the required documentation will be considered non-responsive and rejected, **NO EXCEPTIONS**.

8. TESTING: **Bidder Complies YES** ___ **NO** ___

This organization reserves the right to test the products and equipment being bid for quality and compliance with this specification. Tests shall be made on a similar vehicle as called for in this specification. Should the equipment fail to meet the requirements or be unavailable for evaluation the bid will be rejected. No prototypes will be accepted.

9. WARRANTIES: **Bidder Complies YES** ___ **NO** ___

Bidder shall furnish all data pertinent to the warranties or guarantees, which may apply to the items required by this specification. In the event of a conflict between the specifications and the delivered product, these specifications will govern. Products provided by the bidder for this contract shall conform to the standards established by the U.S. Government, CFR29 Sect. 571, and other standards under the Occupational Safety and Health Act (OSHA) of 1970. In the event that the product delivered does not conform to these standards, where applicable, this organization reserves the right to return the product for correction or replacement at the bidder's expense. All bidders must include copies of the manufacturers' standard body warranties for this organization to evaluate.

There shall be provided a **LIFETIME transferable modular Body Structural Warranty** including but not limited to, the body frame, sub-floor, exterior skin, and the structural integrity of the interior cabinetry and exterior compartments. The electrical system warranty shall carry a **LIFETIME Warranty**, including but not limited to, the main wiring harness' circuit breakers, relays, switches, solenoids, power distribution panel, voltmeter, and ammeter. A **minimum of a TEN (10) year transferable Exterior Paint Finish Warranty. A minimum of FIVE (5) years (3 yrs./36k 100% no prorated, year 4/48k miles 50% coverage and year 5/60k miles 25% coverage)** to repair defects resulting from crevice corrosion and dissimilar metal reaction on the exterior finish. The term transferable is to cover the transfer of the warranty to the second purchaser should this vehicle be sold in the future. The structural, electrical and paint warranty period shall also remain in effect should the modular body be remounted onto a new chassis by the original manufacturer and/or an up fitter authorized and certified by the original manufacturer.

The **Base Conversion** warranty period shall be a minimum of **THREE 3 years or 36,000 miles**. The conversion warranty shall cover as a minimum items such as molding and windows, upholstery and flooring, cabinet, ceiling and wall finish material, door securing hardware and latches, oxygen outlets, hoses and fittings, and the on board aspiration system.

All warranties **MUST Cover 100% Parts and Labor** for the time period of which they are in effect. Other than that of specified above **NO Pro-Rated warranties** will be acceptable. All warranties are to be from the manufacturer and not from the selling agent. No warranties from the manufacturer that are extended by the selling agent will be acceptable.

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10. QUALITY ASSURANCE: **Bidder Complies YES**____ **NO**____

It is not the intent of these specifications to call for an unusual or experimental vehicle. Nor is it the intent of the purchasing agency to accept such proposals. As proof of the ability to manufacture ambulances of the type as called for in these specifications, the manufacturer of the ambulances being bid must include a list of at least one hundred (100) agencies who have purchased ambulances of the same type as called for in this specification over the past twenty four (24) months. Lists must include name, address, and phone numbers of the purchaser.

11. ASSIGNMENT: **Bidder Complies YES**____ **NO**____

The successful bidder may not assign, sell or otherwise transfer this contract without written permission from this agency. The modular body of the vehicle **MUST** be manufactured and the warranties provided by the vehicle manufacturer listed on the bid sheet.

12. NON COLLUSIVE BIDDERS STATEMENT: **Bidder Complies YES**____ **NO**____

By signing this bid, the bidder agrees that this 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 this bid is in all respects fair and without collusion or fraud. Bidder must include a non-collusive certificate.

13. PRODUCT LIABILITY INSURANCE: **Bidder Complies YES**____ **NO**____

All bidders must have proof of their represented manufacturers' product liability insurance with coverage of at least \$10,000,000.00 in effect on the date this bid is submitted and also at the time that the Emergency Medical Vehicle is accepted. A copy of the valid insurance binder naming this agency as the insured must be included with this bid.

If the bidder is not the manufacturer than the bidder must also submit proof of product liability insurance with coverage of at least \$3,000,000.00 in effect on the date this bid. A copy of the valid insurance binder naming this agency as the insured must be included with this bid. Bidders failing to submit proof of this insurance requirement cannot be accepted and will be rejected.

14. WORKERS COMPENSATION INSURANCE: **Bidder Complies YES**____ **NO**____

All bidders must provide a valid Certificate of Workers Compensation Insurance with their proposal. This certificate **MUST** name this organization as the certificate holder. The policy **MUST** cover **ALL** employees of the bidding agency including but not limited to service technicians, sales representatives and vehicle transporters. The policy must cover the entire obligation of the bidder (also known as the policyholder) for workers compensation under the New York Workers' Compensation Law with respect to all operations in the state of New York. Bidders failing to submit proof of this insurance requirement cannot be accepted and will be rejected.

15. LICENSING - NYS AUTO DEALER: **Bidder Complies YES**____ **NO**____

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Bidder must be a legally licensed New York State Automobile Dealer. Bidders shall include a copy of the valid NYS DMV license with the bid documents. Failure to provide proof of licensing shall deem the bid non-responsive and will be rejected. Bidder must also be the franchise dealership for the product being bid. Bids and/or licenses from facilities which represent a non-franchised dealer and/or a sub dealer and/or an independent factory representative, will be rejected.

15a. LICENSING - NYS AUTO REPAIR SHOP: Bidder Complies YES____ NO____

Bidder must be a legally licensed New York State Automobile Repair Shop. Bidders shall include a copy of the valid NYS DMV repair shop license with the bid documents. Failure to provide proof of licensing shall deem the bid non-responsive and will be rejected. Bidder must also be the franchise dealership for the product being bid. Bids and/or licenses from facilities which represent a non-franchised dealer and/or a sub dealer and/or an independent factory representative, will be rejected.

16. LETTER OF MANUFACTURERS AUTHORIZATION TO BID & SERVICE:
Bidder Complies YES____ NO____

All bidders must submit a letter from their respective manufacturer authorizing the said bidder (NOT sub-contractor) to bid, sell and service on behalf of the said manufacturer. Bidders failing to submit proof of this requirement cannot be accepted and will be rejected

17. DELIVERY: Bidder Complies YES____ NO____

The bidder shall specify the number of calendar days, after the award of the contract, in which the ambulance will be completed. Since delivery proposals by the bidder will weigh heavily in the determination of this bid award, the delivery schedules that are being submitted by the bidder will automatically become binding upon the award of this contract to the successful bidder. The bidder or manufacturer will not be held liable for delay in delivery caused by floods, accidents, strikes, or any events not subject to its control. The completed Emergency Medical Vehicle must be delivered to headquarters with full instructions provided for personnel on the operation, care, and maintenance of the vehicle. The delivered vehicle must include a full tank of fuel. The vehicle must be driven from the manufacturing facility and not trucked or shipped. Delivery of the completed vehicle MUST be within 270 days of bidders' receipt of notice of award of bid, a completed order with no open questions and/or issues and/or receipt of chassis.

17a. LIQUIDATED DAMAGES FOR DELAY: Bidder Complies YES____ NO____

Time being of the essence of this contract, and the time limit established herein for the completion of the work being of importance, in the event of failure to complete the "New Ambulance" in the manner, and within the time specified in is document, the contractor agrees that the EMS Agency may; and is hereby authorized to deduct and retain from the monies due, or that become due, to the contractor under the contract documents, the sum of Five **Hundred (\$500.00) Dollars** per day for each and every day beyond the completion date fixed, which amount is hereby agreed upon, fixed and determined by the parties hereto as liquidated damages, and not as a penalty that the EMS Agency shall suffer by reason of said delay due in part, or in full, for any

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additional inspection costs, loss of revenue, or other costs to the EMS Agency. It is the contractor's responsibility to complete the "**New Ambulance**" within the time period specified in this contract.

NOTE: The Liquidated Damages as described above will be effect the next day after that of what is quote by the bidder herein on page 11 "The Bid Page", and not after the 270 days maximum allowance as specified in paragraph 17 above.

18. SERVICE: **Bidder Complies YES**____ **NO**____

Bidder must have a service facility within 45 miles of user's location headquarters. Any service facility being used must be approved and certified by the manufacturer of the vehicle being bid, and the technicians working on the vehicle must be factory trained. As proof of a factory certified service center and qualified technicians this organization may require the bidder to produce a factory certification for their service center and/or ASE and/or EVT certifications for the technician(s) that are trained and certified by the manufacturer of the emergency vehicle. In the event that the vehicle is out of service and/or unable to be driven and/or unsafe to drive, the bidder must also provide on-site road service. The onsite technicians must meet the same qualifications as the criteria required above.

In addition to an authorize and trained service center the bidder must maintain within 15 miles of the users headquarters a factory trained and certified paint and body repair shop. Any paint/body repairs both warranty and non-warranty must not void and/or change the original manufacturer's warranty unless making it better. Chassis related repair work is to be performed by the chassis dealership chosen by this organization. The bidder must have a 24-hour emergency on call service. This service must provide the end user with a live person to speak with, and cannot rely on cell phones, pagers, answering machines, or phone paging systems.

19. DEALERS/SALES AGENCIES, MULTIPLE MANUFACTURERS REPRESENTED: **Bidder Complies YES**____ **NO**____

In the event that the bidder represent more than one manufacturer meeting the requirements outlined herein, then the bidder shall only bid the highest quality manufacturer that the bidder represents. In the event that the bidder feels all manufacturers represented are equal than such items as warranty coverage, location of the manufacturing facility in proximity to the purchaser, and time frame that the bidder has represented the manufacturer shall be the deciding factor as to which vehicle is being proposed. Under no circumstances will multiple bids from the same bidder (even if a different sales person signs the bid) on different manufacturers be accepted. Should the bidder submit two or more bids representing more than one manufacturer, then all bids submitted by that bidder will be rejected as being non-compliant with the requirements of this specification. The purchaser is seeking only the highest quality equipment available and therefore bidders are asked to bid their product of highest quality level.

20. FACTORY INSPECTION TRIPS: **Bidder Complies YES**____ **NO**____

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Four (4) inspection trips to the manufacturing plant shall be included in the bid price. The inspection trips shall be made during regular business hours during the week. This will be required so that the entire manufacturing crew is available for questions or to make any needed modifications. Trips shall be timed as one (1) Pre Construction, one (1) upon receipt of chassis, one (1) Mid Construction Inspection, and Final Inspection

The inspection trips shall be set up for ten (10) representatives per trip. A representative of the local dealer must be part of each trip. The trips shall include air transportation and lodging if the trip is in excess of 150 miles one way. All Meals for the length of each of the trips will be included. These inspections are a requirement and not an option and must be included as a part of the bid price and not a separate line item. No Exceptions.

21. BID GUARANTEE: **Bidder Complies YES** _____ **NO** _____

All bidders are required to furnish with their bid a surety bond in the amount of twenty percent (20%) of the total bid price. Surety must be provided in the form of a bond only, any surety in the form of a cashier's check, certified check or money order will be considered non-responsive and rejected. NO EXCEPTIONS.

NOTE: The bonding company must have an "A" rating or better and must be listed with their rating in the "AM Best Rating Service", www.ambest.com

22. PERFORMANCE BOND OPTION: **Bidder Complies YES** _____ **NO** _____

The successful bidder shall furnish UPON REQUEST a 100% performance bond at contract signing. The performance is not to be part of the bid price; rather all bidders are to advise the cost of such bond if it is so desired by the purchaser. NO EXCEPTIONS.

NOTE: The bonding company must have an "A" rating or better and must be listed with their rating in the "AM Best Rating Service", www.ambest.com

Cost to add optional performance bond: \$ _____

23. QUALIFIED VEHICLE MODIFIER: **Bidder Complies YES** _____ **NO** _____

It is the requirements of this organization to have the most qualified builder construct this emergency vehicle for them. It is for this reason that only manufactures that are Currently QVM CERTIFIED will be considered. A Current QVM certificate must be submitted with your proposal.

24. MANUFACTURING FACILITY & LOCATION: **Bidder Complies YES** _____ **NO** _____

This agency requires that the manufacturer of the vehicle being bid be a 100% American owned company. American owned defines the manufacturer as well as any equity owners of the manufacture as headquartered with the United States of America. In addition the manufacturing facility must be within the United State of America. Any proposals submitted for vehicles built outside of the United States of America will be rejected. NO EXCEPTIONS.

25. NO BIDS TAKING TOTAL EXCEPTION **Bidder Complies YES** _____ **NO** _____

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Bidders are required under this bid invitation to give, for the consideration of the purchaser, a proposal that will comply with the written specifications, drawings (if included), and schedules supplied herein.

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

26. INTER-AGENCY AGREEMENTS (PIGGY-BACK) Bidder Complies YES_____ NO_____

It is the intent of this bid document to make available to other government entities, EMS Agencies, fire departments, fire companies and/or ambulance companies/squads by mutual agreement with the successful bidder, the right to purchase the same or like equipment and or products, at the prices quoted for the period of the contract model year and if within the next model year a not to exceed average of 3% increase.

27. DETAILED MATERIAL REQUIREMENTS: Bidder Complies YES_____ NO_____

This agency may opt to ask any and/or all bidders for detailed material samples that would match exactly to these specifications or the exceptions that may be taken. The following material samples as a minimum shall be clearly labeled and submitted within 5 days of request. Additional samples may be requested.

- 6061-T6 Aluminum Primary & Secondary Floor Tubes (Or that of what you build with) (Must include a material certification)
- 6061-T6 Aluminum Corner Extrusions (Or that of what you build with) (Must include a material certification)
- 6061-T6 Side Impact Rail (Or that of what you build with) (Must include a material certification)
- 6061-T6 Wall Tubes (Or that of what you build with) (Must include a material certification)
- 6061-T6 Wall Tubes With Extruded Door Jambbs (Or that of what you build with) (Must include a material certification)
- Rub Rail Sample
- Exterior Compartment Door
- Roof Sheet (Must include a material certification)
- Exterior Side Skins (Must include a material certification)
- Body Mounting Sample (Or that of what you build with)
- Sound Deadened Aluminum Sample (Or that of what you build with)
- Subfloor Sample
- Interior Hinged Cabinet Doors and Stainless Steel Latches (Or that of what you build with)
- Electrical Dill Board Section (Or that of what you build with)
- Modular Plug That Is Used With Main/Primary Harness' & Modular Wiring That Goes Into Exterior Compartment Doors
- Thinsulate Insulation (Or that of what you build with)

Riverhead Town Volunteer Ambulance Corps, Inc.
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BIDDER: (As specified earlier to be qualified as the bidder you must have a current dealer and repair shop license within the state of New York)

Printed & Signed: _____ Title: _____

Company: _____

Address: _____

Telephone: _____

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Experience:

- Date of bidders' incorporation is _____
- Number of years' experience the bidder has in the design and building of this type of Emergency Medical Vehicles is _____.
- Number of years' bidder has represented the manufacturer they are proposing _____
- As required previously in the bid specifications, the Bidder is a licensed NYS Auto Dealer Y___ N___;
- License Number: _____; Expiration Date: _____

NOTE: The dealer's license must be for the bidding agent and cannot be for a master dealer, a sub dealer or the manufacturer, unless they are the bidder. (Copy of license **must be included with bid documents** or your bid will be considered non responsive and will be rejected)

SERVICE CENTER:

- Does the bidder employ full time mechanics and service technicians certified by the manufacturer to repair the vehicle body being bid? Y___ N___
- How many technicians are employed that are certified for this type of repair work? _____
- Are the technicians ASE and/or EVT certified? Y___ N___
- Does the bidder provide pick on site service (as needed) for ALL body related service items? Y___ N___
- Distance in mileage to nearest service center: _____
- Does the bidder rely on sublet service centers NOT owned and operated by the bidder for service? Y___ N___
- Does the bidder have a 24-hour emergency call service with a live person to answer, (Not relying on cell phones/pagers or answering machines) Y___ N___;
- Telephone Number of Call Service: _____
- As required previously in the bid specifications, the Bidder is a licensed NYS Auto Repair Shop Y___ N___;
- License Number: _____; Expiration Date: _____

NOTE: The repair facility license must be for the bidding agent and cannot be for a master dealer, a sub dealer or the manufacturer, unless they are the bidder. (Copy of license **must be included with bid documents** or your bid will be considered non responsive and will be rejected)

Riverhead Town Volunteer Ambulance Corps, Inc.
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If a sublet service center is being used:

Company: _____

Address: _____

Phone Number: _____

Contact Person: _____

Does the sublet meet ALL of the requirements for an authorized service center including but not limited to the licensing requirements as called for in the specifications? Y___ N__;

PAINT & BODY SERVICE CENTER:

Company: _____

Address: _____

- Has the paint & body shop been certified by the manufacturer to perform paint and/or body work, both warranty and non-warranty related? Y___ N__
- Does the bidder provide towing if needed? Y___ N__
- Distance in mileage to nearest paint & body service center: _____

Riverhead Town Volunteer Ambulance Corps, Inc.
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MANUFACTURER OF EMERGENCY VEHICLE BEING BID: (As specified earlier the manufacturing facility and ownership MUST be within the United States of America)

Contact: _____ Title: _____

Company: _____

Address: _____

Telephone: _____

- Distance in miles from this agency headquarters to manufacturing facility: _____ miles
- Year of incorporation is _____.
- Number of years' experience the bidder has in the design and building of Emergency Vehicles is _____
- Number of years' under current ownership _____
- Number of ownership changes within the past twenty five (25) years _____
- Is this manufacturer or has this manufacturer within the past ten (10) years been under investigation by any state Department of Health agency and/or any federal agency for any inconsistencies and/or deficiencies including but not limited to structural or electrical failure(s)? Y___ N__.
- If yes you must disclose the issue(s) within this bid package even if listed separately. If you are not sure you are required to ask the question of the manufacturer you are submitting a bid for. If answer is found to be untrue your bid will be rejected.

MANUFACTURER SERVICE CENTER:

- Does the manufacturer employ mechanics and service technicians trained to repair the entire vehicle (including but not limited to the chassis and body conversion) being bid? Y___ N__
- Does the manufacturer rely solely on sublet service centers NOT owned and operated by themselves for service? Y___ N__
- Does the manufacturer have a 24-hour call service? Y___ N__

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If you are not in 100% full compliance than a separate sheet or sheets must be submitted explaining your exception(s) in detail. In addition to your explanation a complete set of detailed construction and option specifications explaining how you are proposing to construct this emergency vehicle MUST be included. Not complying with these requirements will cause your bid to be rejected, NO EXCEPTIONS

Delivery:

Proposed delivery of completed vehicle _____ . (Not to exceed 270 days)

Riverhead Town Volunteer Ambulance Corps, Inc.
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CHASSIS SPECIFICATIONS

Bidder Complies YES _____ NO _____

2016 TYPE III E-450 158" W.B. – FORD

2016 Ford E-450 Super Duty Cutaway Cab and Chassis (GAS)

Wheelbase 158" CA 100"

G.V.W. 14,500 lbs.

Powertrain/functional:

Engine: 6.8L Electronic Fuel Injected Triton V10 Gasoline Engine

305 HP / 420 ft.-lb. torque

Engine Block Heater

Transmission:

Ford TorqShift Five Speed Automatic Transmission

Auxiliary Trans Oil Cooler; Oil to Air and In-tank

Front Axle 5,000 lbs. Twin I Beam

Rear Axle 9,500 lbs. Dana 10.75" HD

Brakes: Four-wheel disc

Four-wheel anti-lock brake system (ABS)

Parking Brake Foot Operated, push to apply, pull release lever to Disengage

Fuel Tank - 55 gallons aft of rear axle

Suspension:

Front Springs 5,000 lbs.

Rear Springs 9 600 lbs.

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Stabilizer Bar, front and rear

Shock Absorbers - Heavy Duty, front & rear

Steering: Power, Ford XR-50 H.D. Gear

Interior/Exterior Appearance Upgrade

Air Conditioning

Power Door Locks and Windows

Chrome front bumper and grille

Daytime Running Lights

Dual Seal Beam, fixed-lens headlamps

Dual cloth captain's chairs

Color keyed carpeting & headliner

Color keyed cloth sun visor

Dual Electric Horns

Mirrors - Power Adjust/Manual Telescoping Trailer Tow (will be removed as specified later in bid spec)

Light & Convenience Group

Interval windshield wipers

Gauges: Voltmeter, Oil Pressure, Temperature, Trip Odometer, Tachometer

Speed Control & Tilt Steering Wheel

AM/FM Radio w/CD/Clock

Message Center in Dash

Ambulance Prep Package 47A

225 Amp Heavy Duty Alternator

(1) 650 and (1) 750 CCA Heavy Duty Batteries

4:56 Rear Axle Ratio Limited Slip

Auxiliary Heater - A/C Connector Package

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ETM52 Electronic Throttle control

Safety/Security:

Airbag - driver and front passenger

Safety belts - medium flint with height adjustable D-ring

Tires: LT225/75R 16E (six) All Season

Spare Tire: LT225/75R 16E All Season

Steel Valve Stems

Wheels: 8 hole 16" x 7" Steel - painted white

Exterior Color: Oxford White #YZ

Interior Color: Medium Flint

FILL FUEL TANK:

Bidder Complies YES____ NO____

The fuel tank shall be filled at the time of vehicle delivery.

CHASSIS EQUIPMENT

STAINLESS STEEL WHEEL INSERTS:

Bidder Complies YES____ NO____

High Quality "Phoenix" or equal polished stainless steel light duty wheel inserts shall be installed on all four wheels, front and rear.

FRONT STABILIZER BAR:

Bidder Complies YES____ NO____

A heavy duty Roadmaster front stabilizer bar shall be installed to improve handling of the vehicle. The bar shall be completely bolted and meet all the criteria of Ford QVM for mounting equipment to Ford frame rails. Any installation which includes drilling or welding to the vehicle frame flanges shall be cause for immediate rejection of bid due to potential frame cracks and warranty problems.

REAR STABILIZER BAR:

Bidder Complies YES____ NO____

A heavy duty Roadmaster 1 3/8" rear stabilizer bar shall be installed to improve handling of the vehicle. The bar shall be completely bolted and meet all criteria of Ford QVM for mounting equipment to Ford frame rails. Any installation which includes drilling or welding to the vehicle frame flanges shall be cause for immediate rejection of bid due to potential frame cracks and warranty problems.

RESERVE AIR TANK:

Bidder Complies YES____ NO____

A welded, steel reserve air tank is to be installed inside of the driver side frame rail. The tank size shall be 26 1/2" Long x 12" diameter. The tank shall be properly secured and plumbed, complete with a pressure relief valve

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VELVAC MODEL 2020XG, HEATED/MOTORIZED HEAD MIRRORS: Bidder Complies YES____ NO____

The vehicle OEM Mirrors shall be removed and replaced with high quality Velvac mirror assemblies and brackets, the color shall be black.

The mirrors shall include both a heating element in both mirror heads, and motorized control from the driver's console. The mirrors shall be powered by an independent circuit breaker and harness.

Mirrors Heated and Motorized with switch controls on driver's door.

RUBBER MUD FLAPS: Bidder Complies YES____ NO____

Rubber mud flaps shall be provided behind the rear wheels of the vehicle. They shall be Light Duty Truck type and bolted to the inner fender liners of the modular body, behind the rear tires.

CAB FLOOR MATS: (RUBBER) Bidder Complies YES____ NO____

High Quality Rubber floor mats shall be installed in both the drivers and passenger side of the cab. The mats shall be custom shaped and made to fit the exact vehicle, rectangular or generic mats are not acceptable. The color shall match the vehicles interior colors.

FRONT END CASTER CAMBER ALIGNMENT: Bidder Complies YES____ NO____

The Chassis front end shall be checked and adjusted for proper caster camber alignment after the ambulance body is mounted and the vehicle is ready for delivery.

VALVE EXTENDERS: Bidder Complies YES____ NO____

The inside tires of the vehicle shall have a valve extender mounted to the outer wheel with a metal stand-off bracket.

CAB DOOR STRAPS: Bidder Complies YES____ NO____

2" nylon cab door limit straps on driver and passenger cab doors to limit doors when opening to reduce chance of springing cab door hinges.

BODY CONVERSION

Riverhead Town Volunteer Ambulance Corps, Inc.
Type III Emergency Vehicle Specifications

VEHICLE DIMENSIONS:

Bidder Complies YES___ NO___

Overall Vehicle Dimensions:

Length: 281" Width: 99" Height: 110"

Exterior Modular Body Dimensions:

Length: 176" Width: 97" Height: 92"

Interior Modular Body Dimensions:

Length: 166" Width: 90 3/4" Height: 75"

EXTERIOR MODULAR BODY

FRAME PHOTOS:

Bidder Complies YES___ NO___

All bids MUST include photos of the vehicles frame work as they are being proposed. As a minimum the photos are to show the corner extrusion, horizontal and vertical frames, including but not limited to both upper and lower side impact rails, and the frame work of the front body wall and floor. In addition photos show the body insulation in place shall also be included. Bids submitted that do not include the required photos will be rejected, NO EXCEPTIONS.

EXTERIOR, ALUMINUM BODY CONSTRUCTION:

Bidder Complies YES___ NO___

The module body shall consist of an electric welded, unitized aluminum roll cage structure throughout. The framework shall consist of six individual frames that are constructed in such a manner to insure squareness and flatness before being assembled into a box configuration.

ALL FRAME STRUCTURE MEMBERS SHALL BE SQUARE OR RECTANGULAR, NO HAT SECTION OR OPEN END TUBES WILL BE PERMITTED. Only extruded bodies will be accepted whereas the properties, strength, integrity and squareness of an extruded body exceeds that of a non-extruded and/or unibody style of construction. The side body panels must be smooth and show no signs of bending and/or warping from welds.

MATERIAL:

Bidder Complies YES___ NO___

All material used on any frame member, corner and upper cove shall be high strength aluminum alloy. This alloy shall be 6061-T6 with a tensile strength of 45,000 psi. The use of lesser materials such as 6063 is not allowed due to its lesser mechanical properties. The ultimate strength of 6061-T6 is approximately 25% greater than 6063 alloy. Material certifications showing 6061-T6 alloy shall be provided upon request to verify the use of this material for all frame members.

WELDING:

Bidder Complies YES___ NO___

All welding done on any part of the frame structure shall be done by welders tested in welding this alloy and type of structure. Welders testing certifications shall be provided upon request. All butt welds shall have 100% weld penetration using a filler wire approved for this alloy aluminum. All welding shall be done in accordance with American Welding Society (AWS), Structural Welding Code.

FLOOR FRAME:

Bidder Complies YES___ NO___

The main floor structure shall consist of a primary load bearing support frame. This primary frame shall consist of 2"x2"x.250" square wall tubular aluminum. This primary frame is of critical importance to the structural integrity of the module. The use of channel sections or frame members less than 2" x 2" x .250" is not acceptable due to its moment of inertia and section modulus calculations are less than minimum acceptable. The secondary support frames of the floor frames shall consist of 2" x 2" x .250" (square) and 1 1/2" x 2" x .250" (rectangular) wall tubular aluminum. Areas between exterior compartments and sub-floor support members shall be a minimum of 2" x 2" x .125 (square).

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A heat shield made of 22 GA galvanized steel is attached to the underside of the Floor Frame. The shield is creased for stiffness and deflects the heat of the exhaust from the modular body. The heat shield is required for compliance with Ford QVM and good practice design.

NOTE: Any construction method that does not include door jambs that are integral and part of the frame extrusion will be rejected. Door jambs that are welded to the framework or secured in any other manor will not be accepted.

VERTICAL FRAMES:

VERTICAL FRAMES, Left and Right Sides: Bidder Complies YES _____ NO _____

The vertical left and right side frames shall consist of heavy duty custom aluminum extrusion members. The vertical corner and horizontal upper "Main Beam" shall consist of an extrusion with the minimum dimensions of 5 3/4 by 3 7/8 inches with a cross section across the web of .1875 inches. Built into the inside edge of the vertical and horizontal section shall be an area where the exterior door seal shall mate. This door jamb area shall be designed into, and be part of the main corner extrusion. Door jamb sections which are welded in place are unacceptable due to the possibility of the welds cracking which in turn leads to door and or exterior paint cracking and failure. NO EXCEPTIONS. The inside door jamb which is part of the structural member (not a welded section) shall have minimum dimensions of 1 inch wide by 1 1/4 inches deep and have minimum side vertical wall thicknesses of .1875 inches. This door seal and jamb section shall be recessed behind the exterior surface of the body approximately 7/8 of an inch to allow the door seal to be placed outboard of the door latches and to provide for a full uninterrupted hollow core door seal mounted on every door. Each door of the vehicle shall seal on this integrated section of the extrusion. The outer exterior mounted finish trim shall be sealed to the body during fabrication. The sealant used shall be a high strength automotive product which can be painted. All parts which utilize sealant shall not be structural members but just trim sections. The FMVSS 206 Rated door closure bolt shall be mounted directly to this structural member and not to a welded door jamb section. Door alignment shall be maintained by discrete alignment grooves extruded in the custom shape. This designed in feature eliminates the need for excessive adjustment allowance which could become maintenance issues at some future time. The area of the structural member which is in contact with the roof box beams shall incorporate a 1/2 inch flange to carry the load of the roof structure and resulting static load when applied. This support flange is utilized to prevent the need for the roof and roof structure to be held in place by the welds only.

The main support, structural members around the door openings shall incorporate a built in door seal and jamb surface similar to the one found around the main corner extrusion, with all the strength and design features the same. Two distinctly different types of structural members shall be used for different types of door configurations. Doors which are placed in the modular body which are not adjacent to any other door shall utilize an extrusion with the overall dimensions of 3 inches wide by 2 inches deep. This extrusion shall form the two vertical and two horizontal door seal, and jamb surfaces. Doors of this type which are placed on the forward most or rear most positions of the body, shall utilize the main corner extrusion with its built in door seal to act as one side of the structural door seal and jamb surface. For the same reason a door which extends the full height of the modular body shall utilize the upper most main corner extrusion for the top horizontal door seal and jamb surface. Door configurations which have two doors adjacent to one another shall utilize a structural body extrusion with minimum dimensions of 4 inches wide by 2 inches deep. Between each door shall be a minimum of a 2 inch structural wall and floor support. Under no circumstances shall two adjacent compartments not include this 2 inch structural member. Similar to previous door structural extrusions this member shall incorporate two built in door sealing surfaces without the need for welding additional parts.

The remaining structural members of the vertical side frames shall utilize 2 inch by 2 inch by .125 inch thick wall and 1 1/2 inch by 2 inch by .125 inch thick wall structural box beam members. All members of the side vertical frames shall be placed at a maximum of 12 inches on center. Closer spacing shall be utilized in areas of critical strength requirements. Along the floor line, a 2 inch by 2 inch by .1875 inch structural angle shall be attached to the side frame, which then during assembly into a module shall be fully welded to the floor frame. These members shall act as the main attachment point for the side frames, where the vertical frames meet the floor frame, and at this point of attachment full welds shall be utilized.

VERTICAL FRAMES, Front and Rear: Bidder Complies YES _____ NO _____

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The front and rear frames shall be fabricated utilizing the same main structural corner extrusion as the side vertical frame along the horizontal top edge. The remaining structural members of this frame shall utilize 2 inch by 2 inch and 2 inch by 1 1/2 inch by .125 inch structural box beam members. These structural members shall be placed on a minimum of 20 inches on center. A closer spacing shall be utilized in areas of critical strength. Rear facing door openings shall utilize custom aluminum extrusions in place of box beam members as required. The door openings shall be exactly as specified for the doors located on the vertical side frames as described previously.

ROOF FRAME:

Bidder Complies YES_____ NO_____

The roof frame of the vehicle shall be fabricated from 2 inch by 1 1/2 inch by .125 inch box beam structural members. The transverse frame members shall be spaced a maximum of 12 inches on center.

MODULE ASSEMBLY:

Bidder Complies YES_____ NO_____

The six frames as previously stated shall be assembled into a module, including the floor, front, rear, two sides and roof sub frame before any of the exterior skin is applied. The structural frame work shall be a self-supporting body and not require the use of the exterior skin for structural integrity. The framed body, without the skin shall be capable of supporting the required static load of the vehicle per A.M.D. 001 specifications.

The floor frame shall be welded to the two vertical side frames at the area of the floor, in front and behind the wheel box area. This welding shall be 100% continuous in these areas.

The full perimeter welding and center bonding of the exterior panels shall enhance the overall strength of the modular body.

SIDE IMPACT PROTECTION:

MODULAR BODY PROTECTION:

Bidder Complies YES_____ NO_____

Per Federal Motor Vehicle Safety standards, the vehicle shall be designed to protect the occupants or equipment from side impacts. This shall be accomplished by: (a) Two side impact rails with minimum dimensions of, 2 inch by 5 inch by .125 inch 6061-T6 aluminum alloy, structural box beam member located approximately 24 inches from the lower side rail; and approximately 18 inches from the upper side and (b) full structural members which extend across the body in the transverse direction between the compartments. Modular bodies that do not provide this protection at each compartment location shall be cause for rejection of the vehicle.

MODULAR BODY DOOR PROTECTION

Bidder Complies YES_____ NO_____

In addition to the vertical body sides, each door with a vertical height greater than 30 inches (on the left and right sides of the vehicle) shall be constructed with a 2 inch by 5 inch by .125 inch 6061-T6 aluminum alloy, structural box beam member. Each member shall be welded to the interior door extrusions. The structural members shall be placed approximately 24 inches from the lower side rail. There shall be no exceptions to side impact protection in modular body doors.

EXTERIOR PANELS:

Bidder Complies YES_____ NO_____

The two sides, front and rear shall be covered with .125" thick 5052-H34 stretcher leveled aluminum alloy sheet with tensile strength of 38,000 psi. The center areas of the sheets shall be applied using "Very High Bond" structural bonding tape. Before any tape is applied to the structure, both the sheets and the structure shall be thoroughly cleaned with an approved solvent. In addition to the structural bonding tape the exterior skin shall be welded along the perimeter corners and along all door openings. This welding is only done in areas that will not show dimple on the finished body module. The side panels of the vehicle shall be single piece and not welded or fabricated.

Additional welding shall be done at the lower rub rail area where the body exterior panels meet the lower structural support members. This welding is done to completely bond the exterior panel to the substructure in an area where weld dimples will not show on the finished vehicle.

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NOTE: The side, front and rear panels of the vehicle shall be one single piece and not welded, overlapped, joined or fabricated. This is to include all areas of the body skin including but not limited to areas between and/or above/below exterior compartments and/or body entry doors. Two or more sheets joined by any method including welding will not be permitted. Any body work that is completed to give the single sheet look will not be permitted. NO EXCPTIONS

ROOF SHEET: Bidder Complies YES ___ NO ___

The roof sheet shall be a one piece sheet of .125 5052-H34 aluminum. There shall be no seams in the roof panel or any overlapping seams. The roof sheet shall be fully welded to the roof sub-frame from the inside. The outside perimeter of the roof sheet where it meets the upper cove shall be 100% welded prior to painting. This 100% welding eliminates the need for caulks or sealers and the possibilities of water leaks into the body.

CORNER AND ROOF CORNER EXTRUSIONS: Bidder Complies YES ___ NO ___

The exterior body corners and coves shall be an extruded aluminum section made of 6061-T6 aluminum. Both the corners and roof corner extrusions shall have a 1 5/8" radius hollow extrusion design with an inside flat mating surface. The exterior surface shall be designed to form a smooth transition at all corners of the body. The corners shall be designed in such a way as to provide an interlocking surface with the "Main Beam" extrusion. This surface contact shall provide a weld surface to attach the corners to the main beam. The process of attachment shall include threaded mechanical fasteners to pull the two surfaces tight prior to the welding. This provides a completely tight interface surface. To enhance the corner waterproof integrity a recessed sealant groove shall be incorporated into the exterior flanged surface which is in contact with the body and roof exterior panels. This groove allows the surfaces to be sealed to prevent water infiltration and prevent corrosion. The corners shall be designed so they are NOT a structural component of the body, but means to provide a smooth exterior transition and water tight surface. Designs which include an integral exterior corner surface/structural member are unacceptable.

CORNER CASTINGS: Bidder Complies YES ___ NO ___

The upper four corners of the module shall have a cast aluminum ball corner that matches the radius of the corner extrusions. This ball corner shall be completely 100% welded in place to prevent water leaks and finished to have a smooth transition at the corner.

EQUIPMENT MOUNTING LOCATIONS & REINFORCEMENTS: Bidder Complies YES ___ NO ___

Areas within the body that have equipment mounted or items bolted shall have additional structural members welded in place. The areas are as follows:

1. A .187" thick 1.0" by 2.0" structural angle to mount squad bench shall be installed on the side interior walls, including left side attendant seat. Documentation shall be provided upon request.
2. Cot mounts shall be mounted/bolted to structural members welded within the floor structure. Cot mounts shall be tested and meet A.M.D. standard A.M.D-004. Documentation shall be provided upon request.
3. Rear facing attendant seat pedestal shall be mounted to a reinforced structural channel members between the frame members of the floor structure. The entire assembly shall be tested to and certified to F.M.V.S.S. 210. Documentation shall be provided upon request.
4. The oxygen bottle retention bracket shall be bolted to a reinforcing structure within the storage compartment. Under No Circumstances shall an oxygen bottle be secured to interior cabinets only, they must always be bolted to a structural member of the module body. The entire assembly shall be tested to A.M.D-003.
5. Reinforcing plates for ceiling dome lights shall be installed between the roof frame members.
6. Double laminated reinforcing plates shall be installed in the front body frame for added strength in the areas where the body is bolted to the cab, in addition to structural angles in the front frame above the cab roof.

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WHEEL WELL CONSTRUCTION:

Bidder Complies YES____ NO____

The rear wheel well housings shall be designed to OEM manufacturers recommended clearances. The inner well shall be formed to follow the contours of the wheel and be fabricated from .125 aluminum sheet, and extend down to the lower body skirt level. Tolerances shall include clearance for full tire chains. All wheel well housings shall be completely sealed and undercoated prior to mounting the body.

LIFETIME STRUCTURAL WARRANTY

Bidder Complies YES____ NO____

Manufacturer will warranty to original purchaser that the new emergency vehicle body (exclusive of paint finish) is structurally sound and free from all structural defects of both material and workmanship, and further warrants that it will maintain such structural integrity for the life for the body. Warranty transferable subject to inspection by manufacturer. Bidder must include statement of warranty policy with bid.

FINITE ELEMENT ANALYSIS

Bidder Complies YES____ NO____

The Manufacturer shall certify that a Finite Element Analysis, using COSMOS, has been successfully performed to simulate side impact crash testing to the ambulance body. Loading shall conform to the Code of Federal Regulations, Title 49, Section 571.208, Section 8.2.2, Section 8.3.5, and Section 8.3.6.

The analysis shall show that the ambulance body will not experience a localized displacement of greater than 3 inches in critical areas.

Documented proof of the analysis shall be provided at the time of the bid submission. Detailed specifications and the results of FEA shall also be provided with your bid. This analysis shall be in addition to certification of conformance to KKK-A-1822, revision F. Bids submitted without this documentation will be rejected.

EXTERIOR COMPARTMENT CONSTRUCTION:

Bidder Complies YES____ NO____

The exterior compartments shall be fabricated from fully enclosed aluminum sheets. The floor and ceiling material shall be fabricated from .125" aluminum sheets. Each compartment shall be its own independent unit with two sides, rear, top and bottom, and not share a common wall with an adjoining compartment. All vertical seams of the compartment shall be continuous one piece bend or 100% welded construction. Overlapping caulked vertical seams are unacceptable. Each compartment unit shall be welded to the inside of the structural door jamb.

All compartments shall incorporate a flush sweep out design. No compartment floor lips or door gaskets shall come above or protrude into the compartment opening at all.

STEPWELL COMPARTMENT:

Bidder Complies YES____ NO____

Inside the side entrance door shall be a recessed stepwell compartment. The compartment shall extend into the body approximately 12" and be the full width of the side entrance door. The vertical sides of the compartment shall be fabricated from .100 polished aluminum diamond plate. The floor shall include non-skid turtle tile, removable with a drain/sweep out plug for ease of cleaning. Aluminum diamond plate on the floor is unacceptable due to the slippery surface when wet.

The sub-floor of the compartment shall be fabricated from 3/16" aluminum plate to provide a heavy duty walk surface which will not flex under foot. The upper edge where the stepwell meets the flooring material shall include non-slip polished aluminum threshold trim which is screwed in place.

EXTERIOR COMPARTMENT SHELVES:

Bidder Complies YES____ NO____

All shelves as specified in exterior compartments shall be fabricated from .125" formed aluminum diamond plate with a 1" flange bent up on both the front and rear of the shelf. The shelf shall be mounted to heavy duty UNISTRUT shelving standards to allow for full adjustment. The front edge of the shelf shall be finished with a Trim-Lock snap on vinyl edging.

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EXTERIOR COMPARTMENT FINISH: Bidder Complies YES____ NO____

The rear and two side walls of the interior surface of the exterior compartments shall be fabricated from 100% welded, .080" polished aluminum diamond plate panels.

CAB TO BODY RECESS, 8": Bidder Complies YES____ NO____

The bulkhead directly behind the driver and passenger seats shall be recessed into the body for a minimum of 8" on driver side and a minimum of 7" on passenger side. This will allow for greater seat recline for drivers seat and provide space for placement of radio transmitters and rain or turnout gear. The recess shall be an integral part of the body construction and formed of aluminum tubing and .090 aluminum sheeting. The outer surface of the wall shall be covered with auto-motive carpet that matches the color of the cab interior. These panels shall not exhibit any sharp edges or corners.

BODY MOUNTING, TYPE III: Bidder Complies YES____ NO____

The ambulance body shall be mounted to the chassis utilizing the chassis manufacturer supplied donut mounting system. This system does not require additional welding, drilling or bolting to the frame rail. The body is designed to mount utilizing the position of the OEM provided mounting isolation donuts. Mounting devices shall be a minimum of twelve (12) high strength Grade 8 bolts six (6) on each side. These bolts shall secure the body to the frame via the approved OEM required rubber isolation mounts. A 2" x 3" x .250 (1/4") mounting tube is attached with the grade 8 bolts through the donuts. Body floor frame is fully welded to the mounting tubes at all cross members. Primary floor frame tubes are a minimum of 2" x 2" x .250 (1/4") tubular aluminum 6061T6.

Cab and body shall be firmly bolted together as one integral unit. The cab and body shall be bolted together with Grade 8, 5/16" bolts, lock washer, with the nut secured with blue locktite. The design allows the bolts to be unfastened from the cab and the nut side of the fastener will remain intact for remounting of another chassis. No interior cabinets shall need to be removed when doing a remount. THIS MOUNTING SYSTEM MEETS OR EXCEEDS ALL OEM AND FMVSS REQUIREMENTS AND IS THE ONLY MOUNTING SYSTEM ALLOWED. U-BOLT TYPE MOUNTING SYSTEMS WILL NOT BE CONSIDERED DUE TO THEIR NOISE AND VIBRATION TRANSMISSION INTO THE MODULAR BODY.

LOWERED SIDE SKIRTS: Bidder Complies YES____ NO____

The right and left side skirts of the body, forward of the rear wheels, shall be lower than the right and left skirts aft of the rear wheels. This is to allow easier access into the side entrance door and the left side forward compartment of the vehicle.

**STEPWELL COMPARTMENT/
INTERMEDIATE STEP:** Bidder Complies YES____ NO____

Inside the side entrance door shall be a recessed step well compartment. The compartment shall extend into the body approximately 20" and be the full width of the side entrance door. An intermediate step shall be fabricated as part of the step well area. This intermediate step shall be a 7" step from the floor of the step well, and the actual floor of the ambulance shall be another 7" step.

The vertical sides of the compartment shall be fabricated from .080 polished aluminum diamond plate. The floor shall include non-skid turtle tile, removable with a drain/sweep out plug for ease of cleaning. The intermediate step shall also be provided with the same nonskid turtle tile on the horizontal stepping surface. Aluminum diamond plate on the floor is unacceptable due to the slippery surface when wet.

The sub-floor of the compartment shall be fabricated from 3/16" aluminum plate to provide a heavy duty walk surface which will not flex under foot. The upper edge where the step well meets the flooring material shall include non-slip polished aluminum threshold trim which is screwed in place.

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CUSTOM BODY LENGTH

Bidder Complies YES____ NO____

The layout of this vehicle has been carefully designed and the exterior modular body of the ambulance shall be 176" long. No exceptions will be permitted

Bidder Complies YES____ NO____

DOOR CONSTRUCTION:

All doors including personnel and compartment doors shall be constructed of a custom designed extrusion made of 6061-T6 aluminum alloy, used in combination with a "Bent Box Pan" exterior door panel. The bent exterior door panel shall be fabricated from .125" 5052-H34 aluminum alloy panels that have the exact properties and quality as the exterior side panels. Each door pan shall be manufactured with a 3/4" sharp inside corner bend to minimize outside bend radius. The custom extrusion shall be 45 degree miter cut and fit into the 3/4" recessed area of the pan. An epoxy seal shall be applied between the door pan and the extrusion to seal each door in addition to 100% welding on the outside corners of the door pan. The door shall have an overall dimension of 2 1/2", with the primary door seal being mounted to the door at the 3/4" dimension of the door exterior pan. The door latching hardware shall be mounted inboard of the seal in all cases. The door shall have gussets welded from the inside and shall be reinforced in areas where windows are to be installed and for areas where heavy objects might be hung from them.

The door extrusion shall be designed in such a way to provide two surface grooves which are used for proper alignment of the door hardware concealed within the door. The grooves shall be used for proper in-out placement of the hardware so that proper alignment is always maintained. All slots and cutouts required for the rotary latches shall be machined or stamped prior to the construction of the door.

Door configurations requiring double doors, shall utilize a structural member attached to the adjoining edge of the second opening door. This structural member shall match the seal surface of the door jambs on the balance of the door opening. This member shall be welded in place and be a permanent member of the door. Add-on or bolted double door dividers are unacceptable.

DOOR SEALS:

Bidder Complies YES____ NO____

The door shall incorporate a continuous seal permanently attached around the entire perimeter of the door. Automotive latching hardware shall not interrupt the seal surface. The seal shall be a custom designed hollow core seal specifically designed for hinged doors. It shall be a "Dynamic" type seal with vent holes on the outside edge to allow for easier closing of door against seal. Flat open or closed cell solid rubber "Static" seals are not acceptable for hinged doors.

DOOR HINGES:

Bidder Complies YES____ NO____

Each door shall be hung with stainless steel continuous hinges. The hinge shall have a 1/4" pin which is staked every six inches to prevent the pin from sliding. The hinges shall be held to the door and to the body using 1/4-20 stainless steel threaded machine fasteners every, 4" on both sides, use of rivets on hinges is not acceptable. All hinges installed on the body shall include a Dielectric barrier between the dissimilar stainless steel hinge surface and the painted aluminum body. Only dielectric tape specifically designed for this purpose is acceptable. The tape shall have a dielectric barrier of .0035" and have a dielectric strength of 10,000 volt. A close cell gasket shall be added between hinge and body to seal any gaps caused by securing the hinge.

DOOR LATCH HARDWARE:

Bidder Complies YES____ NO____

Every door shall utilize an automotive type rotary slam latch. All doors used for personnel access shall utilize two latches; one located on the top of the door the other at the bottom. Single point hardware for this type or any other type of door hardware is unacceptable. The latches shall meet FMVSS 206 standard and shall not be modified in any way to jeopardize its integrity. Latch pins without heads intact shall be cause for immediate rejection of vehicle.

All rotary slam latches shall be activated by adjustable steel rods. Cable activated rotary latches are unacceptable. All door hardware and rod assemblies shall be designed to minimize hardware rattle.

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Compartments that require double opening doors shall incorporate (2) point latches on first closing door in addition to second closing door. The latches shall be activated by a handle in each compartment door on the exterior which matches the other exterior handles on the vehicle.

All door hardware, including rods and latches, shall be concealed within the inner door panel. Doors with any exposed latching hardware are unacceptable.

All door systems, including latches, hinges and body/door components shall be tested and certified to meet AMD-002. Test documentation shall be provided upon request.

ANODIZED ALUMINUM DRIP MOLDINGS: Bidder Complies YES____ NO____

Anodized extruded aluminum drip moldings shall be provided above all exterior compartment and entrance doors. The moldings shall be attached without the use of unsightly screws and shall be easily replaceable if damaged. This molding shall direct excess water away from the compartment and entrance door opening.

COMPARTMENT DOOR BUMPERS: Bidder Complies YES____ NO____

Heavy duty tape on type rubber (Styrene butadiene rubber, SBR) bumpers shall be installed on all compartments that may come in contact with one another.

DOOR SWEEP GASKET: Bidder Complies YES____ NO____

All modular body entrance doors shall be equipped with a door sweep EPDM rubber gasket. The rubber shall be attached to the top of the door and prevent water from collecting on the top of the door extrusion and dropping on the operator when the door is opened. The gasket/sweep material shall be installed in such a way as to prevent being torn off and increase its sealing potential when hit with a stream of water.

ECK: Bidder Complies YES____ NO____

All exterior door hinge bolts, inner door panels on both compartment and entrance door panel, and door latching bolts shall be installed with the use of ECK thread locking material. (Vehicles that are built without the use of ECK will be cause for rejection of the vehicle).

TRIMARK POWER LOCKING ENTRANCE DOOR HANDLES: Bidder Complies YES____ NO____

The right side and right and left rear entrance doors shall incorporate a Trimark automotive style paddle handle. This handle shall activate an F.M.V.S.S. approved rotary style automotive door latch, two latches per door. Single point door latches for entrance doors are unacceptable. The exterior handle shall have a black housing and chrome release paddle. There shall be no mounting hardware exposed to the outside for security reasons. The inside handles on all entrance doors including the left rear door, shall be a matching automotive design, flush paddle release type designed specifically for use with this system.

Door hardware shall incorporate a rod activated power door locking system. This system shall be used in at least 500 Ambulances in service. Prototype systems are unacceptable. All rods used for interior door release mechanisms shall incorporate anti-rattle devices to prevent door hardware noise.

All entrance doors shall incorporate a power locking - unlocking feature. The control of the power door locks shall be from the power door lock switches located on the driver and passenger doors. All handles shall have a key activated override of power locking feature.

TRIMARK POWER LOCKING COMPARTMENT DOOR HANDLES: Bidder Complies YES____ NO____

All compartment doors shall incorporate automotive style paddle handles. This handle shall activate an F.M.V.S.S. approved rotary style automotive door latch. The exterior handle shall have a black housing and chrome release paddle. Mounting hardware shall not be exposed to the outside for security reasons. Door hardware shall incorporate a rod

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activated power door locking system. This system shall be use in at least 100 Ambulances in service. Prototype systems are unacceptable. NO EXCEPTIONS

All compartment doors shall incorporate a power locking - unlocking feature. The control of the power door locks shall be from the power door lock switches located on the driver and passenger doors. All handles shall have a key activated override of power locking feature. These doors shall lock - unlock at the same time as the cab doors and entrance doors.

GAS SPRING DOOR HOLDERS: Bidder Complies YES _____ NO _____

All hinged compartment doors and right side entrance door shall incorporate a pneumatic gas spring door holder. The mounting bracket, piston end for the door side, shall be secured to the 1/4" gusset within the door. The door holder gas spring end shall be attached to compartment ceiling. The gas spring shall be installed with a 10 degree pitch downward to improve function and extend life of gas spring.

EXTERIOR COMPARTMENT TO CHECK PAST 90 DEGREES Bidder Complies YES _____ NO _____

The Gas spring door check on the following exterior compartments shall be set beyond the standard 90 degree, open default position to allow easier access into this compartment.

Compartments "A", "C", "D" and "E"

REAR ENTRANCE DOOR HOLDER, "GRABBER": Bidder Complies YES _____ NO _____

The rear entrance doors shall incorporate a Cast Products, Grabber door holder device. This device shall hold the door at approximately 170 degrees. The door holders shall be securely bolted to the vehicle substructure of the body.

BODY ENTRANCE DOOR DIMENSIONS: Bidder Complies YES _____ NO _____

The body entrance doors are to have the following minimum dimensions:

- Side entrance door: 83" high x 29" wide (Full Height)
- Rear entrance doors: 61" high x 44.25" wide

COMPARTMENTS - Exterior compartment dimensions reflect wall to wall measurements.

STREETSIDE COMPARTMENTS:

COMPARTMENT "A" Bidder Complies YES _____ NO _____

Left front compartment with dimensions of 20w x 83h x 21d.

COMPARTMENT "B" Bidder Complies YES _____ NO _____

Left side half high storage; in front of left rear wheel, with compartment dimensions of 43w x 39h x 20d.

COMPARTMENT "C" Bidder Complies YES _____ NO _____

Left rear half high compartment with compartment dimensions 31w x 36h x 20d.

COMPARTMENT "F" Bidder Complies YES _____ NO _____

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Left side over rear wheel compartment, with aluminum diamond plate pull out drawer, with the dimensions 32w x 5h x 16d. The drawer shall have a gas spring hold open on the bottom of the drawer to hold the drawer in the out position. The pull out drawer shall have a capacity of 300 lbs.

CURBSIDE COMPARTMENTS:

COMPARTMENT "D" **Bidder Complies** YES ___ NO ___

Right front inside/outside storage compartment, with the width and height dimensions of 20w x 49h. Above the vehicle floor level, access shall be from either the exterior or the interior of the vehicle with a depth of 33". Below floor level shall be outside only access, of the lower compartment with a depth of 20" used for vehicle battery storage.

COMPARTMENT "E" **Bidder Complies** YES ___ NO ___

Right rear compartment; behind right rear wheels to be custom sized. Dimensions: 30 1/2" wide, 80" high, 21 1/4" deep.

SECURING DEVICES FOR EQUIPMENT

COMPARTMENT DOOR PANELS: **Bidder Complies** YES ___ NO ___

Interior door panels on compartment doors shall be made of .100" polished aluminum diamond plate held on with threaded fasteners that provide access for repairs or replacement of hardware.

STAINLESS STEEL DOOR SILL PROTECTION PLATES: **Bidder Complies** YES ___ NO ___

Heavy duty stainless steel protection plates shall be installed on the lower edge of all entrance and compartment door openings. The plates shall be a formed polished stainless steel angle with dimensions of 1/2" x 1", by full width of the door opening. The angle plates shall be permanently mounted without the use of screws and be removable for replacement if necessary. All edges shall be filed and deburred for a finished appearance.

COMPARTMENT VENTING: **Bidder Complies** YES ___ NO ___

The exterior compartments shall be vented to the exterior of the vehicle. The vents shall be located in the lower portion of the compartments. Vents are installed to allow air to escape and allow the compartment door to close with ease. The vents are added to an area above floor level to prevent road debris from entering the compartment. The vents shall have a total of 25 square inches.

DRI-DEK FLOOR MATTING: **Bidder Complies** YES ___ NO ___

Dri-Dek material shall be installed on all floors of the exterior compartments. The Dri-Dek shall be custom cut to fit around oxygen bottles and mounted equipment. The flush sweep-out floor edges shall include the Dri-Dek tapered edges.

RUBBER MATTING SHELVES: **Bidder Complies** YES ___ NO ___

A .125" rubber mat material shall be installed on all shelves of the exterior compartments. The rubber matting material shall be custom cut to fit each compartment shelf.

SIDE ENTRANCE DOOR STEPWELL: **Bidder Complies** YES ___ NO ___

The floor of the step well compartment shall be lined with nonskid Turtle Tile mat. The mat shall be removable for ease of cleaning.

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The right rear full height compartment shall be provided with three (3) black rubber friction mounts for securing three (3) backboards. The mount shall be fabricated from an "L" shaped (45"h x 16"d) 2" aluminum channel. The channel will be bolted to the interior compartment. The rubber friction mount shall be press fitted onto each side of the 2" channel, full length. Proper spacing shall be provided to allow for Long Boards with runners. NOTE: Exact placement and spacing will be determined with the successful bidder at the pre-con meeting

MOUNTING HANGER FOR SCOOP STRETCHER: Bidder Complies YES____ NO____

The right rear full height compartment shall be provided with a rubber coated "Ferno EXL" Scoop hanger for hanging of a Ferno Washington #65 Scoop Stretcher or Ferno #65 EXL Scoop Stretcher.

EQUIPMENT SECURING DEVICE: Bidder Complies YES____ NO____

The compartment(s) as listed below shall be provided with nylon strap(s) with metal buckle for securing the following equipment;

Qty :(1), Location: Compt "E", divider to rear wall

EQUIPMENT SECURING DEVICE: Bidder Complies YES____ NO____

The compartment(s) as listed below shall be provided with a holder fabricated from .125" aluminum to support a Pediatric Immobilization board. The holder shall have nylon straps with plastic buckle for securing.

Qty :(1), Location: On backside of divider in Compartment "E"

REAR STEP BUMPER: Bidder Complies YES____ NO____

A full length reinforced rear bumper shall be installed on the rear of vehicle. The bumper shall be fabricated from 3" aluminum 6061-T6 structural channel and securely bolted to the vehicle frame using high strength, grade 8, 1/2" bolts. The bumper shall have contoured ends and be covered with polished aluminum diamond plate end caps. In addition, two full end gussets shall be provided to support the bumper ends in the event of minor impact. The gussets shall be fabricated from 3" x 2" x 1/4" structural aluminum tube 6061-T6. No exceptions to size of gussets.

The bumper shall incorporate a design that allows it to be recessed under the rear of the body. Any rear bumper design that does not have a recessed design shall be unacceptable. The under body recessed bumper design allows the chassis frame to absorb minor impact without any damage to ambulance body.

LIFT-UP REAR STEP: Bidder Complies YES____ NO____

The rear step bumper shall incorporate a 44" long by 9 1/2" deep, lift-up center section made of extruded aluminum, "Diamond Back" safety grating. The step shall hinge on a full length stainless steel piano hinge. Note: When the step is in the load position the step shall be totally within the exterior of the body and shall not protrude beyond the door sill.

Bidder Complies YES____ NO____

DOCK BUMPERS:

Two (2) Heavy duty black rubber dock bumpers shall be installed on the rear bumper ends, (1) each side. The bumpers shall be 2" high, 10" long and protrude 2" outward from rear bumper. The dock bumpers shall be bolted to the structural channel of the rear step bumper.

ALUMINUM DIAMOND PLATE ACCESSORIES

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FRONT STONE GUARDS: Bidder Complies YES____ NO____

High polished .100 aluminum diamond plate stone guards shall be installed on the front body corners. The guards shall be one piece & contoured to fit the 1 5/8" outside radius of the body. The stone guards shall be removable for repair in event of damage. The edges of the diamond plate panels shall be sealed with a closed cell gasket around the perimeter, to prevent moisture from getting behind panels. All panels shall be removal if required.

OFFSET DIAMOND PLATE RUB RAILS: Bidder Complies YES____ NO____

Heavy duty polished aluminum diamond plate rub rails shall be installed on the lower body skirt panels under the door line. The rub rails shall be fabricated from .19 thick (3/16"), aluminum bent in channel form. The ends shall be capped with a polished cast aluminum shape that will blend with channel. The rub rails shall be attached to the body with 1.5" x 1.25" diameter, polyurethane spacers that hold the channel and end caps off the body. This design prevents debris from accumulating between the Rub Rails and the painted body. Designs that are not offset from the body are unacceptable due to their tendency to accumulate debris.

CAB RUNNING BOARDS W/GRIP STRUT INSERTS: Bidder Complies YES____ NO____

Polished aluminum NFPA Certified diamond plate running boards with grip strut inserts shall be installed on both cab entrance step areas. The running boards shall have a 2" bent outside flange for strength, and be bolted to the lower cab rocker panel. The running boards shall incorporate into the design an aluminum wheel splash guard on the forward edge, for protection from the front wheel splash.

REAR DIAMOND PLATE PANEL & CORNER GUARDS: Bidder Complies YES____ NO____

A polished aluminum diamond plate kick panel shall be installed above the rear step bumper and below the rear doors. The panel shall overlap. The step riser panel shall be removable.

Polished aluminum diamond plate panels shall be installed on the rear body corners. Panels shall extend to the rear step riser, and protect the lower area of the body around the rear recessed bumper step. The panel height shall be approximately 4" in height (dependent on vehicle type)

EXTERIOR TRIM

REAR WHEEL FENDERETTES: Bidder Complies YES____ NO____

Polished Stainless Steel, rolled fenderettes shall be installed around the rear wheel opening sized to allow for proper tire clearance. They shall be installed with an EPDM 90 Durometer rubber gasket and shall be bolted on for easy removal. All hardware shall be concealed. Exposed mounting hardware is unacceptable.

LICENSE PLATE HOLDER: Bidder Complies YES____ NO____

A recessed Cast Products polished aluminum license plate holder shall be installed in the left rear body panel of the ambulance. The housing shall be installed with an EPDM 40 to 60 Durometer rubber gasket. It shall include (2) recessed license plate lights activated with the running/headlights of the vehicle.

FUEL FILL HOUSING: Bidder Complies YES____ NO____

A Cast Products Polished Aluminum fuel fill housing shall be installed in the street side body panel. The fuel fill shall be designed to match the O.E.M. mounting procedures and shall not cause any undue stress on any of the fuel components. The fuel fill housing shall be completely sealed from the inside of the vehicle and shall be installed with an EPDM 40 to 60 dourometer rubber gasket.

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ADDITIONAL EXTERIOR:

BODY UNDERCOATING: Bidder Complies YES ___ NO ___

The entire under side of the modular body, including all frame members, compartment lower panels and aluminum sub floor, shall be undercoated. The undercoating shall be applied to insure proper and complete coverage. The undercoating shall be a high quality automotive type.

EXTERIOR BODY WINDOWS

SLIDING SIDE DOOR WINDOW: Bidder Complies YES ___ NO ___

A Transportation Products, Inc. 18"W x 22"H window shall be installed in the side entrance door. It shall have sliding, 31% tinted automotive safety glass and be mounted within an aluminum black anodized frame. The window shall be completely sealed and held to the door via an inside clamp ring which matches the exterior of the window. The window shall incorporate a sliding removable screen.

FIXED REAR DOOR WINDOWS: Bidder Complies YES ___ NO ___

Two (2) Transportation Products, Inc. 16"W x 22"H windows shall be installed in the rear entrance doors. They shall have fixed automotive 31% tinted safety glass and be mounted with an aluminum black anodized frame. The windows shall be completely sealed and held to the door via an inside clamp ring, which matches the exterior of the window.

INTERIOR MODULAR BODY CONSTRUCTION TYPE

STANDARD CABINET CONSTRUCTION: Bidder Complies YES ___ NO ___

The interior cabinets of the vehicle shall be completely constructed of 3/4" and 1/2" premium grade, cabinet birch plywood. All cabinets shall be held together with glue, staples and threaded screw fasteners. Each cabinet shall include a reinforced attachment point where it is secured to the vehicle framework. All cabinets shall be attached directly to the vehicle framework and all mounting bolts shall be used, on a maximum of 12" centers for any cabinet.

All cabinets shall be covered with high pressure plastic laminate and trimmed with aluminum moldings for a finished appearance. Raw wood or unfinished edges of any kind including aluminum panels are unacceptable.

When a full height left front cabinet, full height right rear cabinet, or a full height cabinet in the right front exists in the vehicle, it will have rounded corners of radius 1.5" on the inboard vertical edges. The rounded corner will be constructed from two extrusions made from 6061-T6 aluminum. The interior extrusion is designed to attach two perpendicular sheets of furniture grade laminated plywood. The exterior or visible extrusion will be satin anodized and designed to snap into the interior extrusion, so that it may be replaced if damaged. If the full height left front cabinet, right rear cabinet, or full height cabinet in the right front have specific components preventing the cabinet from incorporating the rounded corner design it will have the edge of the cabinet finished with anodized aluminum three quarter round molding.

NOTE: Cabinets constructed from materials other than specified above (i.e. aluminum or wood of lesser quality and/or thickness) and/or assembled differently will be rejected. The materials and method of construction have been carefully chosen due to its superior sound deadening characteristics, its thermal characteristics and the overall long-term strength and durability. All cabinets MUST include integral backs. Cabinets that have backs that are not integral; i.e. Velcro and/or secured with fasteners thumb screws or other will be rejected.

WALLS: Bidder Complies YES ___ NO ___

All walls of the vehicle shall be fabricated using 1/4" plywood covered with color coordinated high pressure plastic laminates. All walls shall be held on using threaded fasteners.

ADJUSTABLE SHELVES: Bidder Complies YES ___ NO ___

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All adjustable shelves within the interior cabinets shall be mounted to Unistrut shelving standards. Each cabinet shall be equipped with four adjustable standards for each cabinet and have (4) retaining clips for each shelf. The shelf will have 2 securing screws attached to retaining clips. The shelf shall be the full width and depth of the cabinet, have a 1" lip on the front edge.

HINGED DOORS: Bidder Complies YES____ NO____

All hinged doors shall be equipped with hinges and a locking Southco positive latching device to prevent opening while in motion. All surfaces of the door including the edges shall be finished to match the interior of the vehicle cabinets.

WIRE RACEWAY: Bidder Complies YES____ NO____

A full length drop down wire raceway shall be installed down the center of the ceiling. It shall be finished with padded vinyl material to match the upholstery in the vehicle. Vehicles which utilize wire raceways above or behind interior cabinets are unacceptable.

SOFFIT TRIM: Bidder Complies YES____ NO____

A vinyl covered soffit trim piece shall be installed around the perimeter of the interior cabinets where they meet the ceiling. This trim shall be added to allow access to the cabinet mounting bolts and provide a finished transition between the ceiling and cabinet surfaces.

CUSHION AND UPHOLSTERY FOAM PADDING: Bidder Complies YES____ NO____

The foam padding on all head bumpers and upper padded surfaces shall be a Volara 2A, closed cell foam which is laminated and layered to a ½" thickness, to provide both compression resistance and compression density. This laminated, closed cell foam creates a padded surface that acts as an air-spring when compressed. This specialty foam naturally resists force and will not "bottom out" upon impact and provides positive resistance to pressures applied in any dimension,

The foam padding on all side attendants, squad-bench seating and all seating backrests shall be a 3" Nimbus open cell foam with a # 1865 grade standard, which provides maximum rigidity while still maintaining comfortable seating upon a variety of weight compression. This grade of open cell foam allows the air to escape the foam under compression, thus providing a comfortable seating surface. Also, the density of the foam does not allow the foam to "bottom out" upon compression. The foam types used have low water absorption and vapor transmission rating and excellent thermal insulation and chemical resistant properties

ADDITIONAL FOAM PADDED SURFACES: Bidder Complies YES____ NO____

A 1/8" thickness of Valera 2A closed cell foam shall be applied to the radius area of the ceiling Heat and Air Conditioning duct work to provide a softer surface while enhancing the thermal properties of the heating and cooling system.

The upholstered center section of the side and rear body entrance doors shall also include the 1/8" Valera 2A closed cell foam to provide a uniform appearance and a softer surface with an increase in thermal resistance.

INSULATION

MODULAR BODY INSULATION: Bidder Complies YES____ NO____

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The entire inside surface of the modular body, including walls and ceiling, shall be insulated with a minimum of 1.7" (44mm) thick, AU 6020-2 High Performance Acoustic, Thinsulate. The thermal property of this insulation is R, 5.8 at 44mm thickness. Areas behind heat generating light fixtures shall not be insulated. The insulation shall completely fill the voids between the frame members and the exterior skin.

In addition to the modular body insulation the interior surfaces of the rear wheel wells and the exterior surface of the side entrance door stepwell shall be sound deadened with a composite acoustical sound deadening material. This material is specifically designed for the reduction of transmitted sound in single skin aluminum panels and shall not be substituted with other spray on products or undercoating type material.

MODULAR BODY ENTRANCE DOOR INSULATION: Bidder Complies YES____ NO____

All exterior entrance doors shall be sound deadened with a composite acoustical sound deadening material. The entire exterior skin surface of the interior door shall have this material bonded to it. The modular personnel entrance doors shall have an additional thermal insulation of 2" thick "Thinsulate" bonded in place, with clearance provided for door hardware.

MODULAR BODY COMPARTMENT DOOR INSULATION: Bidder Complies YES____ NO____

All exterior compartment doors shall be insulated and sound deadened with a slow rise foam in place insulation and sound deadening material. The entire exterior skin surface of the interior of the door shall have this material bonded to it. The use of fiberglass or undercoating type material is unacceptable in an exterior door application.

FLOOR: Bidder Complies YES____ NO____

The floor shall consist of ¾" Expanded PVC Polymer material. This material shall have .016 lbs. per cu in density and be impervious to fluid intrusion. An aluminum sub-floor shall be installed between the floor material and the floor frame members.

HEATER/AIR CONDITIONER CABINET: Bidder Complies YES____ NO____

The Heater/Air Conditioner cabinet shall be provided in the upper most area, centered above the cab to body pass-thru. This cabinet shall be designed in such a way to allow for quick easy removal of Heater/Air Conditioner unit without the removal of any other equipment. The interior of the cabinet shall be designed to allow fresh air intake from the front of the exterior body and exit to a closable vent located under the cabinet platform.

The vent allows fresh air from the exterior of the vehicle to shut off in the summer months for maximum air conditioning performance. The lower platform shall also allow adequate return air flow to the Heater/Air Conditioner unit. The air return shall have a minimum air opening in the cabinet for two 6" by 10" filtered return grills.

ELECTRICAL DISTRIBUTION CABINET: Bidder Complies YES____ NO____

The Electrical Distribution Cabinet shall be located on the front left wall of the body. The cabinet shall be approximately 16" deep x 18" wide and run from the floor to the underside platform of the heater/air conditioner cabinet. The cabinet shall have a main cover, and a smaller access panel. The main cover shall be secured with four threaded fasteners. The smaller access panel, within the main cover, shall have (2) flush trigger latches. The size of the access panel shall be approximately 12" wide by 24" high. This door will latch in the closed position by two flush mounted trigger latches, and be vinyl covered to blend in with the other components in the vehicle. All the main wiring harnesses shall terminate within this compartment. Cabinet shall be provided adequate compartment ventilation. Both the main cover and access panel shall be covered in heavy duty vinyl to match interior upholstery.

An LED light shall be mounted on the ceiling of the electrical distribution cabinet. The light shall have a switch on the flange. In addition, the light comes with a standard connector for easy maintenance.

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FRONT BULKHEAD INTERIOR WALL & STORAGE CABINET

Bidder Complies YES____ NO____

In the front bulkhead area shall be a cabinet with (2) 1/2" acrylic doors with a Southco latch. Included are 2 shelves. The interior dimension of the cabinet shall be approximately 15" high x 13" wide x 15" deep

COUNTER TOP FRONT BULKHEAD CABINET:

Bidder Complies YES____ NO____

The counter surface in the right side front shall be covered with genuine "Silver Mist" color, Meganite counter top material. The Meganite shall be permanently bonded and sized to cover the entire surface of the counter area. The counter top shall be a flat style top surface. The counter dimension will be (match existing) 16" wide x 18" deep with no lip to accommodate mounting of customer supplied cooler. ABS or other plastic counter surfaces are not acceptable.

RIGHT FRONT INTERIOR CABINET (Upper Section)

RIGHT FRONT UPPER CABINET,

Bidder Complies YES____ NO____

MEDI-KOOL CLIMATE CONTROL SYSTEM:

The right front upper interior access cabinet shall incorporate a Mermaid Medi-Kool MK-Pelican climate controlled cabinet system. This polished stainless steel unit is designed to cool and/or heat within one degree tolerance and averages 35-45 degrees off ambient. Unit shall be supplied with Codelock Electronic Camlock.

1. Compressor on Rear
2. Door to be hinged on the right side to open towards curbside.
3. Includes Mermaid Codelock/Elec. Camlock

RIGHT FRONT LOWER, IN/OUT ACCESS STORAGE COMPARTMENT:

Bidder Complies YES____ NO____

The interior right front storage cabinet of the vehicle shall be designed to provide access from both the inside of the vehicle or through the exterior compartment door. The size of the compartment shall align with the exterior height and width of the exterior compartment door area above the floor level of the vehicle. The width of the compartment from the inside shall extend to the pass thru area to the cab. Approximate dimensions 31 3/4" high x 30.5" wide x 20" deep.

RIGHT FRONT CABINET, ADJUSTABLE SHELVES:

Bidder Complies YES____ NO____

The right front inside/outside compartment shall be equipped with two (2) adjustable shelves. The shelves shall be fully adjustable within the inside area of the cabinet. Shelves to be lined with ribbed rubber mat.

RIGHT FRONT IN/OUT COMPARTMENT HINGED DOORS:

Bidder Complies YES____ NO____

The right front inside/outside access cabinet shall incorporate double hinged 1/2" acrylic transparent doors. The doors shall have hinges that resist motion when moved to prevent doors from swinging freely when the vehicle is moving. The doors shall also incorporate (1) Southco Polished Stainless Steel positive type locking latch in each hinged door.

Bidder Complies YES____ NO____

RIGHT FRONT COMPARTMENT PULL-OUT TRAY:

One (1) Pullout aluminum tray shall be provided on the cabinet floor of the right front inside/outside compartment. The tray shall slide on 300 lb. bottom mounted chassis tracks. The tray shall be fabricated of .125" minimum brushed

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aluminum plate and incorporate a 2" flange on all sides. Tray shall be lined with black nonskid rubber matting and incorporate a pull handle on outside edge, inside the exterior compartment door. The tray shall include a catch device to hold the tray in its closed position until used.

PULL-OUT DRAWER RIGHT FRONT IN/OUT CABINET: Bidder Complies YES____ NO____

The right front inside/outside access cabinet shall incorporate an interior access wood pullout drawer. The entire drawer shall be fabricated from wood, and laminated to match interior. The drawer face to be made of 1/2" tinted acrylic w/ radiused edges (like hinging doors). The face will be thru bolted to a wooden drawer with flat head screws (bolt heads are visible on the exterior). The drawer size is to approximately match the size of the standard RF drawer.

RIGHT SIDE SQUAD BENCH

SQUAD BENCH: Bidder Complies YES____ NO____

A full length squad bench shall be provided on the right side wall. It shall have dimensions of approximately 74" long x 19" high x 20" deep. The squad bench shall be bolted to reinforced members of the framework utilizing 7/16" high strength bolts. The storage area of the squad bench shall be accessible by lifting the seat cushions. The inside area of the squad bench shall be laminated with high pressure plastic laminates.

The bench shall have upholstered padded 3" thick seat cushions. The seat cushions shall be approximately 18" wide x 72" long. The lower cushion shall be removable and easily cleaned or replaced if damaged. The cushions shall be held to the platform with #8 screw type mechanical fasteners, which is permanently attached to the underside of the cushion and platform surface of the squad bench. The cushion/lid shall be held open and closed by two (2) gas spring hold opens and hinged at the rear with full length piano hinges. The mounts for the gas spring shall be installed into reinforced areas within the seat lid platform.

POST & WHEEL CUPS: Bidder Complies YES____ NO____

Surface mounted post and wheel cups shall be installed in the seat cushion area of the squad bench. The alignment of the cups shall be placed for a Ferno Washington #11 cot.

SQUAD BENCH BACKREST, FIXED: Bidder Complies YES____ NO____

The backrest shall be vinyl covered, fixed (non-drop down) rectangular in shape. The backrest shall match the color and width of the squad bench cushion, and be mounted so that it can be removed.

PADDED ARMREST/BENCH SEAT STOP: Bidder Complies YES____ NO____

A specially designed polished stainless steel squad bench armrest and seat stop shall be installed at the head of the squad bench. It shall be fabricated from 1" satin stainless steel welded tube and bolted onto the forward end of the squad bench. It shall also include a wraparound vinyl padded cover on the squad bench face and top surface. A vinyl storage pouch with an elastic opening shall be included. The color of the padded vinyl shall match the seat upholstery color.

RECESSED STORAGE AT HEAD OF BENCH: Bidder Complies YES____ NO____

Recessed storage shall be provided at head of the squad bench. The stepwell area shall be integrated into the head, (forward portion) of the squad bench thus providing a diamond plated, recessed storage area. The approximate dimensions of this recessed area shall be 5"d x 12"w x 24"h.

SQUAD BENCH AUXILIARY SWITCH PANEL ABOVE Bidder Complies YES____ NO____

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BACKREST:

There shall be an auxiliary switch panel mounted above the backrest in a vinyl covered switch pod. The panel shall consist of (6) momentary contact switches to control lighting, climate control fan speed, door locks, and Oxygen Solenoid. The function shall provide "3-way" style switching with the lighting controls at the life support station.

Switches to be mounted horizontally above backrest in laminate covered switch pod.

CARGO NET HEAD OF SQUAD BENCH: Bidder Complies YES ___ NO ___

At the head of the squad bench there shall be a floor to ceiling (cargo style) net in place. The net will be secured to the bench seat, ceiling and the side wall. The net is to be adjustable and must be able to be disconnected in the event a patient needs to be removed from the side body entrance door. The net is designed to prevent seated personnel from sliding off the bench into the step well or front bulkhead cabinet area. The net is certified to sustain a 2000 lbs. load.

SQUAD BENCH LID HOLD DOWN DEVICE: Bidder Complies YES ___ NO ___

The lid of the squad bench shall be equipped with a slam type positive closure device. This closure device shall prevent opening of squad bench lid in the event of an accident. The release shall be a stainless steel slam type Trimark paddle handle located on the outside surface of the squad bench, and incorporate a catch device on the underside of the lid.

COMBINATION SLIDE-OUT TRASH AND SHARPS BIN: Bidder Complies YES ___ NO ___

A Combination slide-out trash bin and 8qt. Sharps container shall be provided under the squad bench cabinet, forward of wheel well. It shall be custom built into the bench, provide a slide-out drawer, and flush Southco Polished Stainless Steel latch to access a removable Rubbermaid plastic trash pail and disposable sharps container which is mounted to the drawer. Trash/Sharps bin shall slide into aisle, toward the center of the vehicle. The trash/sharps bin shall be designed to include an aluminum door laminated to match the interior cabinets. The trash/sharps bin shall be a totally self-contained unit and be sealed on all sides to contain its contents during transit.

OVERHEAD STORAGE ABOVE SQUAD BENCH WITH RESTOCKING LIFT-UP CABINET DOOR: Bidder Complies YES ___ NO ___

An overhead storage cabinet shall be provided and installed in the area above the squad bench. The cabinet shall have two (2) shelves, one on each side of the center support / divider. The interior cabinet shall be provided with a full framed sliding transparent cabinet door which is also capable of lifting for full restocking access to the cabinet. The door shall be held open with two gas springs and held closed with two positive slam latches. The frame shall be made of a custom designed aluminum extrusion and held together with (4) #10 mechanical fasteners in each corner; glued or epoxied construction is unacceptable. The entire lower edge corner shall be padded to prevent sharp corners. The area in the forward portion shall incorporate the right side oxygen outlet. Approximate cabinet dimension shall be 76" long x 12.75" high x 8.75" deep

RIGHT SIDE, RADIO CUTOUT: Bidder Complies YES ___ NO ___

The right side middle cabinet shall include a radio cutout for the specified radio head.

Remote Head radio

Model: Motorola XTL-2500 (Remote Head)

RIGHT SIDE, MIDDLE CABINET, PADDING: Bidder Complies YES ___ NO ___

Padding shall be cut around ALL components including the glove box storage area. When sitting on the bench seat the tech's head is to be completely protected by padding. Note: The intent is to match the existing ambulance.

Bidder Complies YES ___ NO ___

RIGHT SIDE, MIDDLE CABINET, CUSTOM

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A cabinet shall be installed above the backrest and below the overhead cabinet. It shall run the length of the squad bench up to the point where the switch panel and oxygen outlet are located. Those parts shall be installed in the wall and not the cabinet. The cabinet shall have a lift up door, with (6) hand holes to access gloves.

LEFT SIDE ATTENDANT SEAT: **Bidder Complies** YES ___ NO ___

A left side attendant seat shall be built into the left wall cabinets. It shall incorporate a 24" wide x 20" deep seat area with a cushion which is 21" above the floor, a backrest, and a separate headrest. In order to prevent injury during vehicle motion both the forward and rear cabinets that are immediately adjacent to the left side attendant, seat shall include full size padded head bumpers with a 1" thick padding. Designs which do not include this padding are unacceptable.

All vertical surfaces to the front and rear of the seat cushion shall be fully padded and wrap around the top of the counter to provide a full armrest.

LEFT SIDE ATTENDANT SEAT BACKREST: **Bidder Complies** YES ___ NO ___

A left side attendant seat shall include a full height backrest cushion which extends from the seat to the ceiling. The backrest cushion shall be approximately 2" thick.

FIXED LEFT SIDE ATTENDANT SEAT CUSHION: **Bidder Complies** YES ___ NO ___

The left side attendant seat cushion shall be permanently fixed to the base of the cabinet.

LIFE SUPPORT STATION

LIFE SUPPORT STATION/SWITCH PANEL: **Bidder Complies** YES ___ NO ___

The rear Life Support control and switch panel shall be mounted to the underside of the upper cabinet. The oxygen outlets shall be mounted in the panel to provide use of a ball type flow meter with humidifier bottle attached. The entire panel shall be hinged to provide full access of components for servicing. An adequate area shall be provided alongside the switches for permanent built-in installation of two-way communications radio.

SWITCH PANEL COVERING: **Bidder Complies** YES ___ NO ___

The switch panel shall be covered with padded vinyl covering which matches the upholstery in the vehicle. The padding shall be 1/8" thick and glued in place prior to the installation of the custom made stitched vinyl cover.

(1) RADIO CUT-OUT IN LSS: **Bidder Complies** YES ___ NO ___

The ambulance manufacturer shall provide (1) custom fit cutout in the Life Support Station, including the required mounting brackets for customer's radio components. This shall not include any routing of wiring or technical installation of radio equipment. The cut outs will be provided as follows:

Radio Model: Motorola XTL-2500 (Remote Head)

This radio cut-out, will be on the right, lowermost area of the LSS

STORAGE CABINET, HEAD OF LSS: **Bidder Complies** YES ___ NO ___

A storage cabinet shall be provided at the head of the Life Support Switch Panel. The cabinet shall be divided into 2-independent sections. The storage cabinet shall have (2) hinged 1/2" acrylic doors, each with a locking Southco Polished Stainless Steel positive latch.

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The cabinet will be divided into 2-independent sections, one above the other with an approximate overall height of 21" x 12" wide x 16" deep

**LIFE SUPPORT STATION UPPER STORAGE CABINET Bidder Complies YES ___ NO ___
WITH RESTOCKING LIFT-UP DOOR:**

A storage cabinet shall be provided above the Life Support Control Panel. The rear most edge shall have a 45 degree angled panel to eliminate any obstructive corners in the area of the Life Support Station working area. The rear surface shall be covered with a padded head bumper surface. The storage cabinet shall be provided with a full framed sliding transparent cabinet door which is also capable of lifting for full restocking access to the cabinet and one (1) adjustable shelf within the cabinet. The door shall be held open with two gas springs and held closed with two positive slam latches. The frame shall be made of a custom designed aluminum extrusion and held together with (4) #10 mechanical fasteners in each corner; glued or epoxied construction is unacceptable. The entire lower edge shall be padded to prevent sharp edges.

The Interior Height of this cabinet will approximately be 16.25" high (pass-thru) x 50.75" wide x 16" deep

MEGANITE COUNTER TOP FRONT COUNTER AREA: Bidder Complies YES ___ NO ___

The counter surface in the front Life Support Station shall be covered with genuine "Silver Mist" color, Meganite counter top material. The Meganite shall be permanently bonded and sized to cover the entire surface of the counter area. The counter top shall have a 1" built-in lip around the entire perimeter for containment purposes. The edge of the counter top facing inboard shall be a 1.5" radius. ABS or other plastic counter surfaces are not acceptable.

LEFT SIDE BELOW COUNTER STORAGE DRAWERS: Bidder Complies YES ___ NO ___

A two (2) drawer storage cabinet shall be installed below the counter area forward of the left side attendant seat. Each drawer to secure closed using locking Southco latches. Each drawer to have a minimum approximate dimension of 20" wide x 5" high. The drawers at their maximum opening will not hit the cot.

NOTE: The drawers are to be positioned directly forward of the left side attendant seat and extend to the exterior second compartment. The drawers are not to be boxed into the exterior compartment.

**LEFT REAR INTERIOR CABINET, UPPER Bidder Complies YES ___ NO ___
WITH RESTOCKING LIFT-UP DOOR:**

A storage cabinet shall be provided in the upper left rear corner of the body, the forward most edge shall have a 45 degree angled panel. The storage cabinet shall be provided with a full framed sliding transparent cabinet door which is also capable of lifting for full restocking access to the cabinet. The door shall be held open with two gas springs and held closed with two positive slam latches. The frame shall be made of a custom designed aluminum extrusion and held together with (4) #10 mechanical fasteners in each corner; glued or epoxied construction is unacceptable. One (1) adjustable shelf shall be provided within the cabinet. The entire lower edge shall be padded to prevent sharp edges.

The forward most edge shall have a 45 degree angled panel to eliminate any obstructive corners in the rear area of the left side attendant seat. The 45 degree angle shall have an overlapping white acrylic door, which may act as a dry-erase, writing surface. The door shall open to a storage area with in the 45 degree angled. Approximate cabinet dimension shall be 30.5" long x 20.5" high x 20" deep

LEFT REAR INTERIOR CABINET, LOWER: Bidder Complies YES ___ NO ___

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A storage cabinet shall be provided in the lower left rear corner of the body above counter level. The cabinet shall have two (2) 1/2" acrylic hinged transparent doors, each with a Southco Polished Stainless Steel positive latching device and one (1) adjustable shelf. Approximate cabinet dimension shall be 22.5" long x 19.75" high x 20" deep

Bidder Complies YES____ NO____

MEGANITE COUNTER TOP REAR COUNTER AREA:

The counter surface in the rear counter area shall be covered with genuine "Silver Mist" colored, Meganite counter top material. The Meganite shall be permanently bonded and sized to cover the entire surface of the counter area. The counter top shall have a 1" built-in lip around the entire perimeter for containment purposes. The edge of the counter top facing inboard shall be a 1.5" radius. ABS or other plastic surfaces are not an acceptable substitution.

GLOVE STORAGE, LEFT REAR, 45 DEG CABINET: **Bidder Complies** YES____ NO____

The left rear 45 degree cabinet door shall incorporate storage for three glove boxes. Storage of (3) Large size Glove Boxes on inside of door with hand holes cut on door to access gloves. Additional storage will be provided in cabinet with a shelf sized to allow for the gloves stored on the door. A SouthCo Latch will be located at the base of opening, near CPR seat. Locate hinge to rear side of vehicle.

COMBINATION SLIDE-OUT TRASH AND SHARPS BIN: **Bidder Complies** YES____ NO____

A Combination slide-out trash bin and 8 qt. Sharps container shall be provided. It shall be custom built into the cabinet, provide a slide-out drawer, and flush Southco Polished Stainless Steel latch to access a removable Rubbermaid plastic trash pail and disposable sharps container which is mounted to the drawer. Trash/Sharps bin shall slide into aisle, toward the center of the vehicle. The trash/sharps bin shall be designed to include an aluminum door laminated to match the interior cabinets. The trash/sharps bin shall be a totally self-contained unit and be sealed on all sides to contain its contents during transit. The trash/sharps storage unit shall be partially 'boxed in' into the "C" compartment due to width.

TINTED TRANSPARENT DOORS: **Bidder Complies** YES____ NO____

All transparent doors where specified within this specification shall be tinted. All sliding doors shall be Lexan and shall be installed in double, anodized aluminum tracks with Standard Products rubber flocked inserts to prevent movement and inadvertent sliding. All hinged transparent doors will be provided as 1/2" Acrylic and shall include a stainless steel locking Southco positive closure latches

FULL LENGTH HANDLES ON TRANSPARENT DOORS: **Bidder Complies** YES____ NO____

All sliding doors shall have anodized aluminum full length pull handles installed on the leading outside edge of the door. An anodized trim shall be installed on the edge of the following side of the door for a finished appearance. The use of finger holes or screw on cabinet handles is unacceptable.

POSITIVE CLOSURE DEVICES ON HINGED DOORS: **Bidder Complies** YES____ NO____

All hinged doors shall be equipped with a positive closure device such as a polished stainless steel Southco slam latch. Magnet or roller type catches are unacceptable hardware for this application. The use of positive latching types of hardware will prevent inadvertent opening when in motion.

INVENTORY CONTROL TAGS: **Bidder Complies** YES____ NO____

The interior cabinets as listed below shall be provided with eyelets in the cabinet handles for use with inventory control lock tags.

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Qty: 3

(1) L/R Upper

(1) L/S/S Upper

(1) Squad Bench

**UNISTRUT SHELVING STANDARDS,
INTERIOR CABINET SHELVES:**

Bidder Complies YES_____ NO_____

The interior cabinets of the vehicle shall be provided with Unistrut shelving standards. The standards shall be aluminum with the approximate dimensions of 3/8" by 1" wide. The Unistrut shall be securely fastened to the interior of the cabinets with #10 threaded fasteners.

INTERIOR ENTRANCE DOORS

Bidder Complies YES_____ NO_____

All entrance door panels shall be mounted with machine screw threaded fasteners which are installed with thread locking, Loc-Tite material.

**INTERIOR ENTRANCE DOOR PANELS,
w/BRUSHED ALUMINUM LOWER PANELS :**

Bidder Complies YES_____ NO_____

The inside surface of the entrance doors shall have three (3) sections. The upper shall be an aluminum panel covered with high pressure plastic laminates which matches the interior cabinets. The center area which covers the door hardware shall be a padded vinyl. The side Entrance and the rear LOWER panels shall be brushed aluminum to accommodate Chevron Striping. The panels shall be held in place with threaded mechanical fasteners and be removable for servicing of door hardware.

SIDE ENTRANCE DOOR HEAD BUMPER:

Bidder Complies YES_____ NO_____

Cushioned, matching vinyl covered "bump protection" head bumper shall be mounted in the interior of the side entrance door area. It shall be designed to provide both onward and upward contact protection

REAR ENTRANCE DOOR HEAD BUMPER:

Bidder Complies YES_____ NO_____

A cushioned, matching vinyl covered "bump protection" head bumper shall be mounted in the interior above the Rear entrance doors. It shall be designed to provide both onward and upward contact protection

INTERIOR GRAB RAILS

GRAB RAIL RETENTION:

Bidder Complies YES_____ NO_____

All ceiling grab rails installed in the ambulance shall meet the requirements of the A.M.D grab rail retention test. Test documentation shall be provided upon request.

72" CEILING GRAB RAIL OVER COT:

Bidder Complies YES_____ NO_____

A satin finish stainless steel grab rail shall be installed in the ceiling over the cot. It shall be 72" long x 1 1/4" in diameter with welded stanchions every 24". It shall have fully radiused ends to eliminate a head injury hazard. The use of grab rails which do not have fully welded construction is unacceptable. The grab rail shall be bolted directly to the structure members of the ceiling frame work.

**FULL LENGTH CEILING GRAB RAIL OVER
SQUAD BENCH:**

Bidder Complies YES_____ NO_____

A 96" full length satin finish stainless steel grab rail shall be installed in the ceiling over the squad bench. It shall be full length of the interior x 1 1/4" in diameter with welded stanchions every 24". It shall have fully rounded ends to eliminate a head injury hazard. The use of grab rails which do not have fully welded construction is unacceptable. The grab rail shall be bolted directly to the structural members of the ceiling frame work.

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**18" STAINLESS STEEL GRAB HANDLES
REAR DOORS:**

Bidder Complies YES_____ NO_____

One (1) 18" satin finish stainless steel grab handle shall be installed at each rear entrance door. Each shall be fabricated from 1 1/4" diameter tube and have radiused ends, which match the over-head grab rail.

SIDE ENTRANCE DOOR GRAB RAIL, 45 DEGREE:

Bidder Complies YES_____ NO_____

The side entrance door shall be equipped with a custom built 45 degree grab handle which extends from under the door window in the horizontal plane and then diagonally to the lower outside corner of the door. The grab rail shall be fabricated from satin finish stainless steel 1 1/4" diameter tube with fully welded construction. The grab handle shall be bolted directly to the structural members with the door with the use 1/4-20 threaded fasteners.

DOOR GRAB HANDLES:

Bidder Complies YES_____ NO_____

A Spring Loaded Grab handle shall be installed under the window of each rear entrance door. The grab handles shall be bolted to reinforced members welded within each door.

SEAT BELTS

SEAT BELTS, SQUAD BENCH:

Bidder Complies YES_____ NO_____

Three (3) sets of lap seat belts shall be installed for persons seated on the squad bench. All seat belts shall have enclosed automatic locking retractors with push button releases. All seat belts and seat belt mounts shall be tested to F.M.V.S.S. 210 and Federal Specifications KKK-A-1822. Documentation shall be available upon request.

SEAT BELT, REAR FACING ATTENDANT SEAT:

Bidder Complies YES_____ NO_____

One (1) lap seat belt shall be installed at the rear facing attendant seat. The seat belt shall have enclosed automatic locking retractors with push button releases. The seat belt and seat belt mount shall be tested to F.M.V.S.S. 210 and Federal Specifications KKK-A-1822. Documentation shall be available upon request.

SEAT BELT, LEFT SIDE ATTENDANT SEAT:

Bidder Complies YES_____ NO_____

One (1) Seat belt shall be installed at the left side attendant seat. The seat belt shall have enclosed automatic locking retractors with push button releases. The seat belt and seat belt mount shall be tested to F.M.V.S.S. 210 and Federal Specifications KKK-A-1822. Documentation shall be available upon request.

SQUAD BENCH PATIENT RESTRAINTS:

Bidder Complies YES_____ NO_____

Three (3) matching seat belts shall be installed on the face of the squad bench which can be used for securing a second patient. The belts shall be securely attached to the structure of the ambulance and be automatic adjusting.

COT MOUNTING

COT MOUNT, STRYKER:

Bidder Complies YES_____ NO_____

A single position STRYKER, completely removable Model #6370 cot mount shall be installed in the center position of the ambulance. The mount shall be aligned to hold a STRYKER cot and the mounting to the vehicle shall be certified to meet AMD standard 004 litter retention test. Test documentation shall be provided upon request. All cot mount components STRYKER.

Mounting hardware installed to secure a Stryker Model 6080MX-PRO with floor mounted safety hook.

Includes floor mounted safety hook; Hardware Only - Cot not included

PERMANENT MOUNTED IV HOLDER

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RECESSED DUAL IV HOLDER, OVER COT: Bidder Complies YES___ NO___

One (1) Cast Products Rubber "Recessed" dual IV holder shall be installed in the ceiling over cot. The holder shall be bolted to reinforcing plates located within the ceiling and include a Velcro strap for securing IV during transport.

RECESSED DUAL IV HOLDER, OVER SQUAD BENCH: Bidder Complies YES___ NO___

One (1) Cast Products Rubber "Recessed" dual IV holder shall be installed in the ceiling over squad bench. The holder shall be bolted to reinforcing plates located within the ceiling and include a Velcro strap for securing IV during transport.

INTERIOR SURFACE FINISHES AND COLORS

CEILING PANEL: Bidder Complies YES___ NO___

The ceiling panel of the ambulance shall be Kydex-T, high impact thermoplastic panel laminated to a 1/4" subpanel. The entire assembly shall be bolted directly to the ceiling structural framework. The panel shall be the fire retardant grade of Kydex-T. All components (Including Lights, IV Holders and Grab Rails) mounted to the ceiling shall be mounted to the structural frame work of the ceiling. Under no circumstances shall anything be mounted to the ceiling panel only. The ceiling panel shall be attached to the vehicle framework without the use of visible hardware.

INTERIOR COLORS: Bidder Complies YES___ NO___

The interior color of the upper laminated cabinets shall be Fashion Grey.
The interior color of the lower laminated cabinets shall be North Sea.

INTERIOR UPHOLSTERY AND PADDED SURFACES

HEAD BUMPERS: Bidder Complies YES___ NO___

Vinyl padded head bumpers shall be installed in areas where head injury can occur. One (1) located at the rear door, one (1) at the side door and one (1) at the cab to body door. Full padding shall be provided around the cabinets on the left side attendant seat area.

HEAVY DUTY UPHOLSTERY, SEAMLESS: Bidder Complies YES___ NO___

All upholstery used in the vehicle shall be a High Quality Automotive Grade Vinyl Upholstery. All upholstery shall be seamless flat upholstery utilizing minimal stitching on the outside corners. All material shall meet the requirements of FMVSS 302.

Upholstery Color: Brt. Blue

REAR FACING ATTENDANT SEAT

**ATTENDANT SEAT, EVS WITH CHILD SEAT,
3 POINT HARNESS, ABS BACK, SEWN VINYL, BLUE:** Bidder Complies YES___ NO___

The ambulance shall be provided with an EVS brand, model 18703 rear facing attendant seat. The seat shall include a built-in child seat, three point harness, ABS seat back and be mounted on an EVS brand, model SB-2 base. Seat shall have forward and back adjustment. All seats and seat installations shall be tested and certified to meet FMVSS standards. It shall be covered in sewn blue upholstery to match the balance of the vinyl in the ambulance.

INTERIOR FLOORING FINISH

LONPLATE II DIAMOND PLATE FLOORING: Bidder Complies YES___ NO___

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A Commercial Quality LONSEAL Mfg. Lonplate II diamond plate floor covering shall be installed. It shall be applied over a prepared Polymer floor surface, with all seams filler patched, to eliminate holes or bubbles in the flooring surface. Color shall be Gunpowder

ROLL-UP FLOORING 3": Bidder Complies YES ___ NO ___

The flooring on both the left side wall and right side squad bench shall incorporate a three inch roll-up section of the vinyl flooring material. The flooring material shall be finished with an anodized aluminum trim. The trim shall be secured in place with mechanical fasteners and have a tapered top surface to prevent accumulation of dirt and foreign material. The underside shall be designed in such a way to prevent infiltration behind the trim. This is required to eliminate the possibility of foreign liquid material from becoming trapped behind the flooring where it cannot be disinfected.

DRIVERS CAB CONSOLE

CAB CONSOLE, FORD ECONOLINE: Bidder Complies YES ___ NO ___

An individually designed Cab Console shall be provided and mounted to the engine cover of the cab. It shall be equipped with (4) thumb screws for quick release to remove it when servicing the engine. The console shall follow the contours of the engine cover to minimize its protrusion and have a slight pitch to favor the driver's side. The console shall be fabricated from 0.090" aluminum. The console shall be covered with a 1/8" padded black vinyl cover. All switches and controls shall be within easy reach of both the driver and passenger, while providing a sloped low profile, to allow driver and passenger to pass by easily.

**CAB CONSOLE, FORD ECONOLINE,
WITH TUBE MOUNTS FOR COMPUTER:** Bidder Complies YES ___ NO ___

An individually designed Cab Console shall be provided and mounted to the engine cover of the cab. It shall be equipped with (4) thumb screws for quick release to remove it when servicing the engine. The console shall follow the contours of the engine cover to minimize its protrusion. The console shall be fabricated from 0.090" aluminum. The console shall be covered with a 1/8" padded black vinyl cover. All switches and controls shall be within easy reach of both the driver and passenger, while providing a sloped low profile, to allow driver and passenger to pass by easily. This custom Console includes the Gamber Johnson, lower and upper tube mounts (with swivel motion control) which allows the mounting of a computer cradle or docking station.

SIREN / RADIO CONSOLE: Bidder Complies YES ___ NO ___

A custom designed siren/radio console shall be provided and installed to the front section of the switch console. The siren/radio pod shall be constructed of aluminum and covered with black padded vinyl. The console shall not protrude further than required to provide for access to walk through to patient compartment. The console shall allow for flush mounting of communication equipment and prevent any exposed wiring harnesses or power wires.

(3) RADIO CUT-OUTS IN CONSOLE: Bidder Complies YES ___ NO ___

The ambulance manufacturer shall provide (3) custom fit cutouts in Radio /Siren Cab Console, including the required mounting brackets for customer's radio components. This shall not include any routing of wiring or technical installation of radio equipment. The cut outs will be provided as follows:

- Models and Cutout order (from top to bottom)
- Radio Model #1: Motorola CDM-1250 (Self Contained)
- Radio Model #2: Motorola CDM-1250 (Self Contained)
- Radio Model #3: MCS-2000 Model I (Self Contained)

MAP BOX W/CUP HOLDERS: Bidder Complies YES ___ NO ___

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A map box shall be fabricated and installed between the front cab seats. The box shall be fabricated and laminated white on the interior and black on the exterior. The map box shall have a storage slot between itself and the rear walk-thru opening to store a binder and/or maps. There shall be a second storage slot between the passenger seat and the console allowing for additional storage of a binder and/or maps. The area between the radios and the rear map slot shall include two (2) 3 3/4" holes for cup holders.

INTERIOR MOUNTED EQUIPMENT

**STAINLESS STEEL WALL PROTECTOR,
RIGHT SIDE:**

Bidder Complies YES_____ NO_____

A full length by 7 1/2" high polished stainless steel wall protection panel shall be installed along the right side squad bench base above the rolled up floor. The panel shall be held in place without the use of visible screws or fasteners and shall have all edges completely deburred prior to installation.

"FASTEN SEAT BELT" AND "NO SMOKING" SIGNS:

Bidder Complies YES_____ NO_____

Two (2) large face "No Smoking" signs and one (1) Fasten Seat Belt sign shall be installed in the patient compartment of the ambulance.

OXYGEN AND ASPIRATION SYSTEMS

OXYGEN SYSTEM:

Bidder Complies YES_____ NO_____

The Oxygen delivery system shall consist of a permanent mount DOT approved Medical Oxygen Cylinder. The oxygen line from the cylinder to the distribution outlets shall be oxygen cleaned, high pressure electrically conductive, "Green" hose with swaged fittings. All fittings and hardware used shall be Medical Oxygen Quality and cleaned for oxygen use.

All oxygen hose shall be encased in high temperature protective loom to avoid chafing and physical damage. All fittings shall be completely accessible for service or inspection without the removal of any cabinets or wall panels.

The entire system shall be installed, inspected, tested and labeled per the requirements of Federal Specifications KKK-A-1822.

The oxygen storage cylinder shall be accessible through a transparent door for manual on/off control of the main valve and to visually monitor the tank pressure on the regulator gauge.

OXYGEN SYSTEM:

Bidder Complies YES_____ NO_____

The oxygen, vacuum and air systems in the vehicle shall be compatible with OHIO equipment unless otherwise specified.

DUAL OXYGEN OUTLET:

Bidder Complies YES_____ NO_____

One (1) Amico AMIZTH0202 dual oxygen outlet shall be flush mounted within the Life Support Station panel. The distance from the primary patient to the Life Support Station shall not exceed 35" per the requirements of KKK-A-1822.

SINGLE OXYGEN OUTLET RIGHT SIDE WALL:

Bidder Complies YES_____ NO_____

One (1) single Amico AMIZTH0101 oxygen outlet shall be provided on the right side of the ambulance in the right side wall above the squad backrest, below the overhead cabinet (if present) the outlet shall be built in flush and not protrude more than 1" beyond the wall.

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CEILING MOUNTED OXYGEN OUTLET: **Bidder Complies** YES___ NO___

An Amico AMIZTH0101 oxygen outlet shall be installed in the front ceiling raceway 88" off rear doors. The outlet shall be near flush in the ducted climate control center wire raceway and not protrude more than 1/2" below the ceiling panel.

OXYGEN SHUT OFF SOLENOID: **Bidder Complies** YES___ NO___

An Amico AMIZTH0120 electric powered oxygen shut off solenoid shall be installed and mounted on the output of the oxygen bottle regulator. It shall be controlled by a switch located at the rear Life Support Panel. The solenoid shall be approved for medical oxygen use and be equipped with a manual override valve (in the event the electric solenoid may fail to open the valve). An electrical rectifier shall be installed in the circuit to prevent voltage spikes from entering the electrical system.

ELECTRIC SUCTION/ASPIRATION SYSTEM: **Bidder Complies** YES___ NO___

The vehicle shall be equipped with a permanently installed Suction/Aspiration System. The system shall be equipped with a high volume Thomas electric suction pump certified for use in all states, with a 30 liter per minute flow rate. The pump shall be activated from a relay controlled circuit and switch, on the Life Support switch panel. The pump shall be mounted in an enclosed compartment using rubber isolators to minimize any noise and vibration when in use. The pump shall be connected to an onboard collection bottle permanently attached to the counter near the primary patient. The connecting hose shall be fiber reinforced medical hose and loomed to prevent chafing. The entire system shall be tested and meet the criteria of KKK-A-1822. Test Documentation shall be available upon request. As with the oxygen delivery system all fittings and lines shall be accessible for inspection and service without the removal of cabinets or walls.

SSCOR DISPOSABLE COLLECTION SYSTEM: **Bidder Complies** YES___ NO___

On Board suction shall be provided with a SSCOR disposable system. System shall include SSCOR wall mounted white faced, regulator and disposable Bemis collection bottle mounted in stainless steel bracket mounted on wall per customer location.

OXYGEN PRESSURE GAUGE, TANK PRESSURE: **Bidder Complies** YES___ NO___

An oxygen pressure gauge; 2" analog dial for tank pressure shall be installed in the Life Support Station area of the vehicle. The gauge shall be full scale type for Medical oxygen use. It shall be connected to the main oxygen cylinder with a high pressure (3,000 PSI working pressure) Parflex flexible line with high pressure fittings. (Braided stainless steel not acceptable). The actual location of the gauge shall be determined by the selection of the upper storage cabinet.

OXYGEN CYLINDER MOUNT, "M": **Bidder Complies** YES___ NO___

The vehicle shall be equipped with a mount for a steel "M" oxygen cylinder in the oxygen storage compartment. The mount shall be of a design which allows the bottle to be released from the mount by releasing a single point, and quickly remove the bottle. The mount shall be fabricated from 1/4" steel channel and firmly hold the bottle in the installed position to eliminate the possibility of a loose bottle and rattling. The mount shall be held to the vehicle framework with four high strength 3/8-16 bolts. The mount shall be located on the "aft" wall of the compartment. The bottle must be removable without the use of tools, with the exception of the bottle nipple nut. The bottle mount must be certified to meet the minimum requirements of AMD standard, AMD-003.

The Bracket is located on the "Aft" wall, when installed in the "A" compartment.

LARGE TANK OXYGEN REGULATOR: **Bidder Complies** YES___ NO___

One (1) Model #12-001540 (aka 1633-2), large tank oxygen bottle regulator shall be provided and installed.

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OXYGEN CYLINDER WRENCH:

Bidder Complies YES ___ NO ___

An oxygen cylinder wrench shall be permanently attached to the wall of the oxygen compartment in a custom wrench holder. There shall be a permanent lanyard attachment to both the wrench and the compartment, designed to prevent loss of the wrench.

ELECTRICAL SYSTEMS

LIFETIME ELECTRICAL SYSTEM WARRANTY

Bidder Complies YES ___ NO ___

Manufacturer will warranty to original purchaser that the supplied electrical equipment as listed below are sound and free of all defects of both materials and workmanship, for the life of the vehicle or 100,000 miles whichever occurs first. This electrical equipment includes body door post switches, all wire terminals and crimps, main vehicle wiring harness and battery harness cables, relays, switches, automatic/manual reset circuit breakers, voltmeter, ammeter, battery disconnect switches, solenoids, all terminal strips, manufacturer installed electrical connections and power distribution panel. Warranty transferable subject to inspection by manufacturer. Bidder must include statement of warranty policy with bid.

ELECTRICAL 12 VOLT:

Bidder Complies YES ___ NO ___

The entire 12 volt Electrical System shall comply with the recommended standards and practices per FMVSS, Federal Specifications KKK-A-1822 & SAE where applicable.

Electrical system provided by the ambulance Manufacturer shall have Lifetime Electrical Warranty.

The entire 12 volt DC Electrical System shall incorporate GXL High Temperature Copper wire. Each wire shall be color coded with function imprinted every four inches for immediate identification. All exposed wiring shall be covered with Packard Flec or equal, black with gray stripe, convoluted loom with minimum of 300 degree F. Temperature rating. Loom with a lower temperature rating is cause for rejection. Large Heyco type or rubber insulators shall be used where wires pass through sheet metal or structural members. All circuits shall be protected with circuit breakers suitable to the circuit demand. Any wire carrying a load to an appliance in the 12 volt Electrical System shall be 16 gauge wire minimum.

Electrical System shall consist of five main wiring harnesses which terminate at the Electrical Distribution Panel. Distribution Panel shall be centrally located with connections resulting through 45 pin Connectors. Harnesses shall include:

- (1) Rear body, referred to as Harness #1 (standards: dome, fluorescent, floods, vent, compt. lights/ switches)
- (1) Rear body, referred to as Harness #2 (flashing lights, air compressors, cancel switches, options)

- (1) Rear switch panel, referred to as Harness #3
- (1) Front console, referred to as Harness #4
- (1) Cab/ chassis/ under-hood, referred to as Harness #6

All Electrical components shall be mounted using a "plug in" type assembly which affords speedy replacement of failed components. The entire unit shall be housed in a readily accessible maintenance cabinet built into front wall of the personnel compartment. Attached to inside of door shall be complete documentation of 12 volt Electrical System. The use of exterior compartment mounted electrical distribution panel is unacceptable.

The main power distribution panel shall consist of a plug-in modular system which includes locations for 42 plug-in circuit breakers and 60 plug-in relays, as standard equipment. This type of system is utilized to have standard circuit configuration while remaining totally flexible for custom circuits when required. All circuits shall consist of plug-in relays and plug-in circuit breakers only. The use of diodes, rectifiers, heat sinks, or other than automotive type relays is unacceptable.

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CIRCUIT BREAKERS: Bidder Complies YES ___ NO ___

All circuit breakers 30 amp or less, shall be plug in Manual and or Auto Reset type. All circuits which require greater capacity shall utilize a Cooper Electric or equal 40 or 50 amp "MAXI-AMP" manual or auto reset circuit breaker, dependent on electrical application.

RELAYS: Bidder Complies YES ___ NO ___

Devices being switched with loads in excess of one (1) amp (12 watt) shall be accomplished through Potter & Brumfield or equal, 40 amp SPDT 12 volt automotive relay switching devices. All relays used in the panel shall be of the same type to insure complete compatibility and ease of re-placement. Relays shall be controlled through a ground signal from all switches, including door post switches. All relays shall be plugged into the modular panel assembly including the 70 amp power relays where required. All relay circuits utilizing the SPDT relays and SPST 70 amp relay shall include internal suppression to eliminate voltage spikes in the electrical system.

GROUNDING: Bidder Complies YES ___ NO ___

All Modular Bodies shall be grounded to the vehicle chassis with two (2) 0 GA braided, tinned copper grounding straps Circular copper conductors (battery cables) shall not be used. These ground straps meet requirements of both KKK-1822-F and Ford QVM Bulletin Q-18.

Each appliance (i.e. Lights, fans) shall be grounded to the body structure in close proximity to its location or by a ground harness as required. The ground shall be equivalent to its feed wire size and be minimized in length. Each ground attached directly to the vehicle structure shall use machine screws with star washers or ring terminals with serrated ring to insure a positive contact at all times.

All Body harnesses shall be contained within the body. Harnesses shall not run on the underside exterior of the body. Under hood harness shall be protected within high temperature convoluted loom. All connections exposed to the elements, or under hood, shall be made within "waterproof" heat shrink connections. This type of connection shall also be used on all heavy duty battery cables. All battery cables, both positive and ground shall be machine crimped and fully soldered prior to addition of waterproof heat shrink tubing. Any exposed connections not in heat shrink and battery connections not soldered shall be rejected.

All Electrical Systems shall include three (3) spare relays and spares of the correct size circuit breakers utilized, shall be mounted within the Electrical Distribution Panel.

12V - 110 VOLT CIRCUIT SCHEMATIC DOCUMENTATION: Bidder Complies YES ___ NO ___

All harnesses, relays, circuit breaker terminal junction points and circuits shall be drawn on individual 8 1/2 x 11 size drawings. Each individual circuit shall be on (1) drawing, for ease of troubleshooting. A single drawing overall schematic is unacceptable. All electrical systems shall be designed for each vehicle. Generic or similar drawings are cause for rejection of vehicle. All schematics shall include only what circuits are provided in the proposed vehicle.

ELECTRICAL ANALYSIS: Bidder Complies YES ___ NO ___

Proper balance of the electrical system output and vehicle draw is critical in the design of all emergency vehicles. Vehicle proposed shall be provided with a detailed electrical analysis generated by the manufacturer of the ambulance and specific to this proposed vehicle and specific electrical equipment requested. General statements will not be acceptable.

DOOR POST SWITCHES ENTRANCE AND COMPARTMENT DOORS: Bidder Complies YES ___ NO ___

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Sealed door post switches shall be installed in all entrance and compartment doors. All switches shall be sealed from the elements to prevent moisture damage and to prolong service life. The switches shall be warranted for lifetime of vehicle. All door post switches shall activate the grounds of relays only. Under no circumstances shall the door post switch carry more than 140 milliamp of electrical current.

CAB AND CHASSIS ELECTRICAL MODIFICATIONS

ALTERNATOR: **Bidder Complies** YES ___ NO ___

The alternator shall be installed by Ford Motor Company in the approved Ambulance Prep Chassis. The alternator shall be a single 225 amp system. The charging system shall not be modified in any way to void its warranty.

BATTERIES: **Bidder Complies** YES ___ NO ___

Two (2) high cycle, heavy duty truck batteries shall be provided with (1) located in the right front exterior compartment below floor level on a pull out tray. Battery tray shall lock in the "in" position and be sealed from the upper area of the compartment.

(1) OEM battery mounted on pull out tray in lower section Compt "D"

MODULE DISCONNECT IGNITION CONTROLLED: **Bidder Complies** YES ___ NO ___

A high current disconnect device shall be installed per the requirements of KKK-A-1822 to power all ambulance vehicle conversion and modular body functions. The device shall be activated by the chassis ignition signal, and shall have a 5 minute off delay for module functions when the chassis ignition switch is turned off

WATERPROOF DEUTSCH TYPE CONNECTORS: **Bidder Complies** YES ___ NO ___

Electrical connectors used on added circuits of less than 20 Amps under the chassis hood and the chassis fenders shall be high quality, waterproof Deutsch type. Unsealed connectors in these areas are unacceptable. Sockets and pins shall be machined type. Stamped contacts are unacceptable.

FRONT AND REAR SWITCH PANEL EQUIPMENT AND SYSTEMS

VOLTMETER: **Bidder Complies** YES ___ NO ___

An analog type voltmeter shall be installed within easy view of driver. The voltmeter shall be circuit breaker protected. The use of digital voltmeters is unacceptable due to its difficulty to read at a glance. The voltmeter shall be tied to the battery side of the master disconnect switch to allow a constant reading on the voltmeter when the switch is off.

LOW VOLTAGE ALARM: **Bidder Complies** YES ___ NO ___

A Low Voltage System with a dual indicator light green/red shall be installed in the driver's console. The Green indicates voltage system is above 11.8 volts. The Red shall indicate when system voltage drops below 11.8 volts for more than 2 minutes and vehicle needs to reduce load. At that time an audible alarm will sound. The alarm will be provided with a cancel switch to momentary silence the alarm. The red light will remain on both the switch legend and the indicator until the system returns to 12.8 or above.

SWITCHES: **Bidder Complies** YES ___ NO ___

All switches shall be 12 volt two (2) or (3) position heavy duty Carling Contura X, Full size, Euro-Look Rocker switches, with a black matte finish. Small rocker switches or push style switches are not acceptable substitution. Each switch shall have an integral pilot light which shall activate in the "On" position, including the Horn/Siren switch. The only switches that shall not have a pilot light are momentary switches, where they are not available. No switch shall carry more than one (1) Amp of power, (12 watts).

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For ease of service and supporting a lifetime electrical warranty, all switches shall have a plug in connector on the bottom of the switch contacts.

All switches shall be mounted in a custom designed one piece panel for each vehicle. The switch panel shall be backlit Light Emitting Diode lighting behind the individual switch legends. The switch panels shall be finished in a black matte finish. All custom legends shall be made of matte black Lexan inserts with translucent lettering to designate each function. When complete, the surface of the panel shall have a look of a homogeneous surface without the need for white legends which appear to be an added on feature. Due to the superior backlighting of the LED, no exception is allowed. All switch circuits shall be designed for the life of the vehicle.

BATTERY "ON" INDICATOR: Bidder Complies YES____ NO____

A Master battery "On" indicator shall be installed on the driver's console of vehicle. The indicator shall be a minimum of 1/2" in diameter and glow whenever the batteries are connected to the system.

DOOR OPEN INDICATOR LIGHT: Bidder Complies YES____ NO____

A Red indicator light shall be installed in the drivers switch console to indicate that an entrance door is ajar. The light will activate whenever the master battery disconnect switch is activated and an entrance door is opened. The indicator shall be a minimum of 1/2" in diameter. The door open indicator shall be relay controlled and the door post switches shall activate the relay.

COMPARTMENT OPEN INDICATOR LIGHT: Bidder Complies YES____ NO____

An Amber indicator light shall be installed in the drivers switch console to indicate that a compartment door is ajar. The light will activate whenever the master battery disconnect switch is activated and a compartment door is opened. The indicator shall be a minimum of 1/2" in diameter. The compartment open indicators shall be relay controlled and the door post switches shall activate the relay.

AUDIBLE DOOR/COMPARTMENT OPEN ALARM: Bidder Complies YES____ NO____

A high decibel, electronic beeper alarm shall be installed and activate, when a module entrance door or compartment door is opened. The alarm shall sound only when the vehicle is placed in drive or reverse and be independent of the door open/compartment open warning lights in the console. The warning lights shall activate anytime an entrance or compartment door is opened.

PARKING BRAKE ALARM AND INDICATOR: Bidder Complies YES____ NO____

The vehicle shall be equipped with a Dual-Mode alarm that will sound when the vehicles shift lever is in Neutral and the Parking Brake is not applied. Secondly the alarm will sound when the vehicle gear selector is in reverse or a forward drive gear and the Parking Brake is applied. The alarm shall include an indicator light in the drivers console and an audible alarm that will sound when the condition exists when the vehicle is in the run mode and when the emergency sequencer switch is on.

ELECTRONIC THROTTLE, FORD: Bidder Complies YES____ NO____

The Ford Chassis shall be equipped with an Intermotive electronic throttle, which is specifically designed for use in emergency vehicles. This pre-programmed fast idle unit is designed to elevate the high idle speed to 1300 RPM. The unit shall be added to the chassis provided by Ford. The unit shall be mounted in a concealed location in the underside of the drivers switch console.

BACK-UP ALARM WITH DISABLE SWITCH: Bidder Complies YES____ NO____

An audible backup alarm shall be installed under the rear step area of the vehicle. The back-up alarm shall be activated any time the vehicle is shifted into reverse gear. A relay controlled momentary cancel switch shall be installed in the drivers console to disable the backup alarm when it may not be required. The circuitry shall be designed to allow the alarm to be reset automatically and function the very next time the vehicle is placed in reverse. On-Off type switch is not acceptable.

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UNITY SPOTLIGHT, WITH (UNMOUNTED) BRACKET: Bidder Complies YES____ NO____

A 12v plug in handheld spotlight shall be provided and shipped loose.

LOAD MANAGER/ SEQUENCER: Bidder Complies YES____ NO____

A combination Load Manager/Sequencer shall be installed in the driver's console. The Load Manager shall automatically shed load to maintain balance between alternator output and draw, by turning predetermined functions to the off position. The Load Manager shall include an override emergency bypass switch in the main electrical panel. The sequencer function turns the emergency lighting on, one at a time in a predetermined order, and turns them off in reverse order.

RESPONSE AND SCENE AMPS CANNOT EXCEED 230 AMP - FULL TIME Load Management of Emergency Lights

IN PARK LOAD MANAGEMENT Bidder Complies YES____ NO____

All white warning lights shall be shut down when the vehicle is placed in park.

BUELL AIR HORN SYSTEM: Bidder Complies YES____ NO____

Two (2) 12" Chrome plated Buell air horns shall be provided and mounted to the vehicle. They shall be supplied high pressure air via a 12 volt electric air compressor(s) with reserve tank located under the vehicle. The air compressor shall be tied to the load side of the master disconnect and have circuit breaker protection. The momentary control of the air horn shall be through an electric solenoid activated by a momentary switch. The compressor(s) shall be mounted in a protective box attached to the vehicle frame rail. The box shall be insulated with a sound deadening material to reduce compressor noise and vibration. All plumbing and wiring shall utilize quick-disconnect fittings for ease of servicing

AIR HORN ACTIVATION SWITCH: Bidder Complies YES____ NO____

The air horn electric solenoid shall be activated by a "plunger style" switch labeled "Air Horn" located in the driver's console of the cab. Only electric operated systems are permitted, a Mechanical Air Valve is unacceptable.

ENTRANCE DOOR POWER DOOR LOCK SWITCHES: Bidder Complies YES____ NO____

The power door lock mechanisms (if so equipped) shall be controlled by the OEM door switches

REMOTE KEYLESS ENTRY: Bidder Complies YES____ NO____

The power door lock switch located on the drivers' and passengers' side cab doors shall be wired to activate the power lock/unlock function of the ambulance body entrance doors (and compartment doors when power feature is specified). The switch shall be tied to the battery side of the master disconnect switch and function whenever depressed.

In addition to the cab door control of the power door locks, a remote keyless entry system shall be installed. The system shall lock and unlock the cab and ambulance doors as specified above. The vehicle shall be delivered with two remote keyless entry devices and programmed to operate with the vehicle. The remote device shall be capable of being attached to the key ring of the vehicle.

OEM door switches control cab & body doors.

POWER DOOR LOCKS OVERRIDE SWITCH: Bidder Complies YES____ NO____

A concealed emergency override switch shall be provided and located in the front grille area.

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HELLA GOOSENECK LIGHT: **Bidder Complies** YES ___ NO ___

A "Hella" gooseneck LED light with 6" flexible shaft shall be permanently installed in the driver's console. The light shall have a swivel head and an on/off switch located at the light. The light shall be dual color red / white.

NOTE: Please provide (4) spare covers.

EMERGENCY WARNING SYSTEMS

OPTICOM PROGRAMMING **Bidder Complies** YES ___ NO ___

Opticom shall be programmed as follows: Unit will power up with ignition & operate with emergency master and drive gear engaged.

INSTALL CUSTOMER SUPPLIED OPTICOM GPS SYSTEM **Bidder Complies** YES ___ NO ___

A customer supplied Opticom GPS system shall be installed as follows:
Customer is responsible to supply all required components for installation. Customer to supply "thick roof adapter" for proper installation of GPS radio antenna. Programming, set-up, and operational testing will be the responsibility of the Customer. GPS antenna will be mounted on module roof, and will be 18" from any other antenna, for optimal performance
Vehicle control module shall be mounted (cut in) in lower radio console. Radio GPS unit shall be mounted in electrical cabinet.

The following inputs shall be wired:
Left turn
Right turn
Unit shall disable when placed in park.

SIREN WARNING SYSTEM

ELECTRONIC SIREN, WHELEN, 295HFSA1: **Bidder Complies** YES ___ NO ___

A Whelen Engineering Company Model 295SLSA1 Siren shall be provided and installed flush in the driver's console. The siren shall include standard siren tones, public address, air horn, and radio rebroadcast. The siren shall be backlit for night operation and include a hard wired microphone. Siren shall include a self-diagnostics mode which warns the driver of a potential problem with the siren or speaker system.

LIGHTED HORN/SIREN SWITCH: **Bidder Complies** YES ___ NO ___

A switch shall be installed in the drivers console to select between OEM Horn ring function of the vehicle Horn or Horn ring activation of the Siren. The switch shall have a lighted indicator and control a SPST relay located within the electrical distribution cabinet. A relay controlled circuit is required to eliminate any potential voltage drop problems due to high amperage draw of the OEM Horns.

SIREN SPEAKER SYSTEM

IN THE BUMPER SIREN SPEAKER SYSTEM: **Bidder Complies** YES ___ NO ___

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Two (2) Cast Products SAD4319/SAP4319 Speaker assemblies shall be installed in the front bumper of the vehicle. The system shall include two (2) 100 speaker drivers and be mounted per Manufacturers recommendations and instructions.

FRONT LIGHTBAR WARNING EQUIPMENT

FRONT LIGHT BAR: Bidder Complies YES____ NO____

A Code 3 LED Defender, 58" long Light Bar shall be installed on the cab roof of the vehicle,

Light bar to include Front Takedown Feature and alley lights

Layout: R/W/R/W/W/R/W/R

When front takedowns are switched on the entire bar forward facing will be steady burn white.

NOTE:

Light bar to include RX 2700CC LED alley lights in the left and right side facing position of the light bar

**WHELEN 500 TIR6 SPLIT SUPER LED LIGHTS
IN GRILLE** Bidder Complies YES____ NO____

The vehicle shall be equipped with LED flashing warning lights. In the grille. Whelen 500 series TIR6 split Red/White Qty: (4) - (2) Upper, (2) Lower

GRILL FLANGE: Bidder Complies YES____ NO____

Specific fitted grille flanges shall be provided for Grill lights selected.

LED FLASHING WARNING LIGHTS, INTERSECTION: Bidder Complies YES____ NO____

The vehicle shall be equipped with LED flashing warning lights. Two lights shall be installed, one each side front fender as far forward as possible. All lights shall include integrated metalized flange chrome housing, designed for this fixture. Cast aluminum housings are unacceptable. The lights shall be Whelen M7 Super LED, Split Red/White with a Clear lens cover.

BODY LIGHTING

WHELEN DIRECTIONAL, AMBER ARROW LIGHTS, FRONT: Bidder Complies YES____ NO____

The vehicle shall be equipped with Whelen M6, Super-LED Amber Arrow lights with clear lenses. The vehicle shall include (2) Light assemblies located on the upper area of the front body. All lights shall include a metalized M6FC, flange chrome housing, designed for this fixture.

FRONT BODY WARNING LIGHTS: Bidder Complies YES____ NO____

The (2) lights, outboard of the Center light position, shall operate from (1) console switch.

INDEPENDENT, BODY LIGHT FLASH: Bidder Complies YES____ NO____

All Body & Cab flashing LED flashing lights will be provided a switched primary /secondary circuit, which will supply a steady source of power instead of a flashing output to the flashing lights.

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All Body and cab warning lights will flash in an unsynchronized, random pattern, as set by the internal flash of each individual light head. The Flashing lights shall be considered compliant with KKK recognized alternate flash patterns. Primary is all warning lights on, secondary mode will shut down all lower level lights (beltline and below)

WHELEN M9 SERIES LIGHT, FLANGES: Bidder Complies YES ___ NO ___

All Whelen M9 vehicle lights shall be equipped with a Whelen M9FC Chrome flange.

WHELEN SUPER-LED FLASHING WARNING LIGHT, FRONT, UPPER LEFT: Bidder Complies YES ___ NO ___

The vehicle shall be equipped with a Whelen M9 Series Super-LED warning light. The vehicle shall include one (1) light assembly on the front, upper left portion of the body. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be a vertical split light, Red/ White with a clear lens cover.

WHELEN SUPER-LED FLASHING WARNING LIGHT, FRONT, UPPER LEFT: Bidder Complies YES ___ NO ___

The vehicle shall be equipped with a Whelen M9 Series Super-LED warning light. The vehicle shall include one (1) light assembly on the front, upper left portion of the body, and located inboard of the outermost flashing light. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be a vertical split light, Red/ White with a clear lens cover.

WHELEN SUPER-LED FLASHING WARNING LIGHT, FRONT, UPPER LEFT: Bidder Complies YES ___ NO ___

The vehicle shall be equipped with a Whelen M9 Series Super-LED warning light. The vehicle shall include one (1) light assembly on the front, upper center of the body. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be a horizontal split light, Red/White with a clear lens cover.

WHELEN SUPER-LED FLASHING WARNING LIGHT, FRONT, UPPER LEFT: Bidder Complies YES ___ NO ___

The vehicle shall be equipped with a Whelen M9 Series Super-LED warning light. The vehicle shall include one (1) light assembly on the front, upper right portion of the body, located inboard of the outermost flashing light. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be a horizontal split light, Red/White with a clear lens cover.

WHELEN SUPER-LED FLASHING WARNING LIGHT, FRONT, UPPER LEFT: Bidder Complies YES ___ NO ___

The vehicle shall be equipped with a Whelen M9 Series Super-LED warning light. The vehicle shall include one (1) light assembly on the front, upper left portion of the body. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be a horizontal split light, Red/White with a clear lens cover.

WHELEN SUPER-LED FLASHING WARNING LIGHT, UPPER LEFT SIDE, FORWARD: Bidder Complies YES ___ NO ___

The vehicle shall be equipped with a Whelen M9 Series Super-LED warning light. The vehicle shall include one (1) light assembly on the left side, upper left, forward portion of the body. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be a vertical split light, Red/Blue with a clear lens cover.

WHELEN SUPER-LED FLASHING WARNING LIGHT, UPPER LEFT SIDE, AFT: Bidder Complies YES ___ NO ___

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The vehicle shall be equipped with a Whelen M9 Series Super-LED warning light. The vehicle shall include one (1) light assembly on the left side, upper aft portion of the body. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be a vertical Split light, Red/Blue with a clear lens cover.

**WHELEN SUPER-LED FLASHING WARNING LIGHT, Bidder Complies YES ___ NO ___
UPPER RIGHT SIDE, FORWARD:**

The vehicle shall be equipped with a Whelen M9 Series Super-LED warning light. The vehicle shall include one (1) light assembly on the right side, upper forward portion of the body. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be a vertical split light, Red/Blue with a clear lens cover.

**WHELEN SUPER-LED FLASHING WARNING LIGHT, Bidder Complies YES ___ NO ___
UPPER RIGHT SIDE, AFT:**

The vehicle shall be equipped with a Whelen M9 Series Super-LED warning light. The vehicle shall include one (1) light assembly on the right side, upper aft portion of the body. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be a vertical split light, Red/Blue with a clear lens cover.

**WHELEN SUPER-LED FLASHING WARNING LIGHT, Bidder Complies YES ___ NO ___
REAR, UPPER LEFT:**

The vehicle shall be equipped with a Whelen M9 Series Super-LED warning light. The vehicle shall include one (1) light assembly on the rear, upper left portion of the body. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be a vertical split light, Red/Blue with a clear lens cover.

**WHELEN SUPER-LED FLASHING WARNING LIGHT, Bidder Complies YES ___ NO ___
REAR, UPPER CENTER:**

The vehicle shall be equipped with a Whelen M9 Series Super-LED warning light. The vehicle shall include one (1) light assembly on the rear, upper Center of the body. All lights shall include metalized flange chrome housing, designed for this fixture. The light shall be Amber with a clear lens cover.

**WHELEN SUPER-LED FLASHING WARNING LIGHT, Bidder Complies YES ___ NO ___
REAR, UPPER RIGHT:**

The vehicle shall be equipped with a Whelen M9 Series Super-LED warning light. The vehicle shall include one (1) light assembly on the rear, upper right portion of the body. All lights shall include metalized flange chrome housing, designed for this fixture. The light shall be a vertical split light, Red/Blue with a clear lens cover.

**WHELEN SUPER-LED FLASHING WARNING LIGHT, Bidder Complies YES ___ NO ___
WINDOW LEVEL, REAR, LEFT PANEL:**

The vehicle shall be equipped with a Whelen M9 Super-LED warning light. The vehicle shall include one (1) light assembly on the Rear left panel. The light is situated so when the back door is open, the light shall be visible through the center portion of the door window. All lights shall include metalized flange chrome housing, designed for this fixture. The light shall be a vertical split light, Red/Blue with a clear lens cover.

**WHELEN SUPER-LED FLASHING WARNING LIGHT, Bidder Complies YES ___ NO ___
WINDOW LEVEL, REAR, RIGHT PANEL:**

The vehicle shall be equipped with a Whelen M9 Super-LED warning light. The vehicle shall include one (1) light assembly on the Rear right panel. The light is situated so when the back door is open, the light shall be visible through the center portion of the door window. All lights shall include metalized flange chrome housing, designed for this fixture. The light shall be a vertical split light, Red/Blue with a clear lens cover.

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SECONDARY BODY MOUNTED LIGHTS: Bidder Complies YES ___ NO ___

The "secondary" body mounted lights, shall be considered any the warning lights that are placed below the horizontal plane of the "rear flashing lights at rear window level.

WHELEN LED FLASHING WARNING LIGHTS, OVER REAR WHEEL: Bidder Complies YES ___ NO ___

The vehicle shall be equipped with M7 Whelen LED, Mini-Size flashing warning lights. Two lights shall be provided, one over each rear wheel area. Red/Blue Split Color with clear Lens.

The lights shall incorporate integrated metalized flange chrome housing. Cast aluminum or other flanges are unacceptable.

LOWER SIDE BODY OS LED WARNING LIGHTS: Bidder Complies YES ___ NO ___

Additional warning lights, Whelen Model OS as listed below shall be installed on the lower sides of the ambulance body. The lights shall be installed just above the lower rub rails. Lights shall random Flash on/off.

Street side: (1) forward of "A" door, (1) on 1st opening "B" door, (1) forward and (1) rear of wheel well, (1) on "C" door

Curb side: (1) forward of "D" door, (1) on side entrance door, (1) forward and (1) rear of wheel well, (1) on "E" door.

There will be Red and Amber OS lights arranged as follows: Red/Amber/Red/Amber/Red

FLASHING WARNING LIGHT EQUIPMENT

LED COMPARTMENT DOOR SAFETY LIGHTS: Bidder Complies YES ___ NO ___

Each rear facing hinged exterior compartment door shall include a flashing warning light. The light shall be an amber, 4" LED round recessed light. The lights will activate when the vehicle's master switch is on and the compartment doors are open. Each door shall operate each light independently. The lights shall be installed as follows;

Safety lights to operate independently with each compartment door open and master battery switch on.

Qty :(5), Loc: All rear-facing compartment doors.

CAB DOOR SAFETY LIGHTS: Bidder Complies YES ___ NO ___

The Cab entrance doors shall each be equipped with (2) Whelen OS Series LED flashing lights. (Two light per door, four lights total) When the vehicle's red flashing warning lights are operating, the red light on the door will automatically activate when the door is opened. The light shall be surface mounted on the outside edge of the molded interior door panel. The operation of the light assembly shall be dedicated to the door circuit independently.

LED REAR ENTRANCE DOOR SAFETY LIGHTS, (FULL TIME): Bidder Complies YES ___ NO ___

The Rear entrance doors, (2 doors total) shall be equipped with Three (3) OS Series LED flashing light. The lights will activate and randomly flash when the vehicle's master switch is on and the entrance doors are open. Each door shall operate their lights independently. The lights shall be semi-recessed with chrome housings, with 3 lights spaced on the lower portion of each door. The operation of each light assembly shall be dedicated to each door circuit independently.

Colors to be: Amber, Blue, Amber on each door.

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LED SIDE ENTRANCE DOOR SAFETY LIGHTS, (FULL TIME): Bidder Complies YES ___ NO ___

The Side entrance doors, shall be equipped with Three (3) OS Series LED flashing lights. The lights will activate and randomly flash when the vehicle's master switch is on and the entrance doors are open. Each door shall operate their lights independently. The lights shall be semi-recessed with chrome housings, with 3 lights spaced on the lower portion of each door. The operation of each light assembly shall be dedicated to each door circuit independently.
Colors to be: Amber, Blue, Amber

EXTERIOR VEHICLE LIGHTS AND EQUIPMENT

Bidder Complies YES ___ NO ___

LIGHTHEAD LENSES:

Exterior vehicle Rear Stop/Tail & Turn light heads will have Clear Lenses.

WHELEN LED VEHICLE TAIL LIGHTS: Bidder Complies YES ___ NO ___

The vehicle shall be equipped with two (2) Whelen M6 Super LED red stop/tail lights. The lights shall be located on the lower outboard corners of each side of the rear of the vehicle. The body shall be designed in such a way to eliminate the lights from being exposed to the elements from the backside.

VEHICLE BACK-UP LIGHTS: Bidder Complies YES ___ NO ___

The vehicle shall be equipped with two Whelen M6 Super LED, rear backup lights, one each side on the inboard side of the lower panel. The lights shall operate any time the vehicle is placed in reverse. The light shall include integrated metalized chrome housing. The body shall be designed in such a way to eliminate the lights from being exposed to the elements from the backside.

WHELEN LED POPULATED AMBER DIRECTIONAL LIGHTS: Bidder Complies YES ___ NO ___

A pair of Whelen M6 Super LED amber arrow directional signal lights shall be installed on the rear of the vehicle directly above the stop/tail and back-up lights. The lights shall include integrated metalized chrome flange housing on each fixture.

MARKER/CLEARANCE LIGHTS: Bidder Complies YES ___ NO ___

LED Marker and Clearance lights shall be installed on the front rear and both sides of the body to meet all Federal lighting requirements FMVSS 108.

LOWER FLASHING MARKER LIGHTS: Bidder Complies YES ___ NO ___

Two (2) Lower marker clearance lights shall be installed on each side at the belt line area of the vehicle, one front, and one rear. The lights shall be wired to the side directional lights and activate any time the vehicles directional switch is activated. The marker clearance light shall also include an integrated reflex reflector into the lens.

RUNNING BOARD ILLUMINATION LIGHTS, LED: Bidder Complies YES ___ NO ___

The vehicle shall be equipped with two four inch LED lights recessed into the front of the body at the level just above the cab running boards. The lights shall activate when the drivers or passenger side cab doors are open. The circuit shall be relay controlled and include an independent circuit breaker.

REAR EMERGENCY FLASHING LIGHTS, BRAKE LIGHTS: Bidder Complies YES ___ NO ___

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The two (2) rear red sections of the red/amber flashing warning lights located at the rear, window level portion of the body, shall be activated whenever the vehicles service brake is applied and the red flashing warning lights are on. These lights shall be activated through a transfer relay circuit which under no circumstances shall they be powered by the vehicles stop lamp switch only. The stop lamp switch shall power the coil of the transfer relay only.

The red lights of the split LEDS will be programmed for Flasher/Brake Priority.

EXTERIOR 12 VOLT FLOOD LIGHTS

WHELEN SIDE M9, LED SCENE LIGHTS: Bidder Complies YES ___ NO ___

Two (2) Whelen M9 Series Super LED Scene lights shall be installed two (2) on the left upper side of the vehicle. The scene lights shall include metalized chrome flange housings specifically designed for each light. Cast aluminum housings are unacceptable.

WHELEN SIDE M9, LED SCENE LIGHTS: Bidder Complies YES ___ NO ___

Two (2) Whelen M9 Series Super LED Scene lights shall be installed two (2) on the Right upper side of the vehicle. The scene lights shall include metalized chrome flange housings specifically designed for each light. Cast aluminum housings are unacceptable.

Bidder Complies YES ___ NO ___

WHELEN SIDE M9, LED SCENE LIGHTS:

Two (2) Whelen M9 Series Super LED Scene lights shall be installed on the upper rear of the vehicle, above the rear entrance doors. The scene lights shall include metalized chrome flange housings specifically designed for each light. Cast aluminum housings are unacceptable.

RIGHT SIDE SCENE LIGHT, CONTROL: Bidder Complies YES ___ NO ___

The right side scene lights of the vehicle shall be controlled by two modes. The first mode of operation is the right side scene lights shall function from the relay controlled circuit and lighted switch located in the driver's console. The second mode is the scene lights shall be activated when the right side entrance door is opened. All circuits shall be relay controlled. No load current shall pass through the door post switch.

LEFT SIDE SCENE LIGHT, CONTROL: Bidder Complies YES ___ NO ___

The left side scene lights of the vehicle shall function by the relay controlled circuit activated by the left scene lighted switch in the driver's console.

REAR SCENE LIGHTS: Bidder Complies YES ___ NO ___

The rear scene lights shall automatically activate when the rear door is opened or when the vehicle is placed in reverse. All scene light circuits shall be relay controlled.

REAR SCENE LIGHT SWITCH: Bidder Complies YES ___ NO ___

The rear scene lights mounted on the rear of the vehicle shall be controlled "on/off" by a single pole lighted switch located in the driver's console. The rear scene light switch shall override both backup function and the scene lights "on" with the door open function, and shall not be affected by those circuits.

RIGHT SIDE SCENE LIGHT CANCEL SWITCH: Bidder Complies YES ___ NO ___

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A right side scene light cancel switch shall be installed directly inside the side entrance door. The switch shall be mounted within the interior wall or cabinet. The switch shall be a single pole momentary switch. The circuit shall automatically turn off the right side scene lights and the step well light with a single touch of the switch. The circuit shall automatically re-arm itself the next time the side entrance door is opened. The circuit shall be relay controlled. The use of a manual cancelling door post switch is unacceptable substitution.

REAR SCENE LIGHT CANCEL SWITCH: Bidder Complies YES ___ NO ___

A scene light cancel switch shall be installed directly inside the rear entrance door. The switch shall be mounted within the cabinet adjacent to the door. The switch shall be a single pole momentary switch. The circuit shall automatically turn off the flood lights with a single touch of the switch. The circuit shall automatically re-arm itself the next time the rear entrance doors are opened. The circuit shall be relay controlled. The use of a manual cancelling door post switch is an unacceptable substitution.

REAR SIDE FLOOD LIGHTS: Bidder Complies YES ___ NO ___

The left and right, rear side, flood lights shall activate when the vehicle is placed in reverse. The lights shall illuminate to provide better side illumination when backing up the vehicle during periods of darkness. The circuit shall be relay controlled, without the use of voltage reducing diodes or rectifiers. All flood and reverse circuits shall function independently when the vehicle is not in reverse.

RIGHT SIDE FLOOD SWITCH: Bidder Complies YES ___ NO ___

The right side flood cancel switch shall be moved to the right side wall, at the head of the squad bench.

CLIMATE CONTROL SYSTEM: Bidder Complies YES ___ NO ___

The Ambulance Climate Control System in the chassis shall only function when the vehicle is in the run mode. This shall be done to reduce the electrical load on the vehicle when the engine is not running.

FLOW-THRU VENTILATION: Bidder Complies YES ___ NO ___

A high volume power exhaust ventilation system shall be installed on the left rear side panel of the vehicle. It shall consist of a 280 CFM, (2) speed blower motor, connected to a welded aluminum, transfer plenum. This plenum is directly connected to a set of dual closeable intake vents mounted in the face of the interior rear corner cabinet. On the exterior, a Cast Products polished aluminum cowl vent with an internal, rubber back flow flap shall be installed on the exterior of the modular body. The cowl vent shall be installed using an EPDM 40 to 60 durometer rubber gasket. Single speed blowers or blowers with resistor type speed control are unacceptable. Installations which produce excessive noise due to vibration shall be cause for rejection.

DUCTED HEATER AND AIR CONDITIONING SYSTEM: Bidder Complies YES ___ NO ___

The unit shall have a minimum capacity of 38,000 BTU Air Conditioner and 60,000 BTU Heat operating with 12 volt power. The unit will have a high performance 650 CFM Brushless blower fan. NO EXCEPTIONS.

The system shall carry a five (5) year warranty. A receiver-dryer shall also be installed on the evaporator case to remove moisture from the refrigerant system. The climate control unit shall be permanently attached to the double ductwork system running full length of the ceiling of the vehicle. Each duct shall be fully contoured with approximate dimensions of 5" wide and not protrude more than 2 3/4" from the ceiling. In addition each duct shall have four (4) equally spaced from front to rear, fully adjustable 4-way adjustable louvers with shut off feature at each register. The duct work shall be covered with a fully padded vinyl covering and incorporate the vehicles drop down wire raceway cover in the center. The heater/air

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conditioner unit shall be located in the front of the vehicle centered above the cab to body pass through. An air cleaner filter shall be installed in the return air grille located in the underside of the cabinet.

The climate control unit shall include a twin air return system. One mounted high and one mounted low for full air re-circulation. In addition the entire climate control unit shall be double insulated first by the standard body insulation and secondly by a fully encompassing 5/16" thick reflective insulation. The reflective insulation shall also extend the full length of the raceway duct, front wall and ceiling of the climate control cabinet.

All heater hoses provided shall be OEM style EPDM rubber type. The use of lesser quality hose or silicone hose is an unacceptable substitution. The systems heater shall include an electric 2-way, internally piloted, normally closed solenoid valve which only opens when the heater unit is "On" and when the vehicle is running. The heater shut off valve shall also include an emergency shut off switch located within the rear power distribution panel.

All Air Conditioner hoses shall be Goodyear Galaxy Type 4890. Barrier type hose shall be unacceptable.

No exceptions or deviations to this system will be allowed due to its superior air distribution system and low noise characteristics. An exception will be cause for rejection of bid. Bidder/manufacturer must provide proof that this is an operating climate control system, offered as a standard component in their emergency vehicle production. Prototype systems are not acceptable. A user list of vehicles utilizing this system shall be provided with the bid.

ELECTRONIC DIGITAL DISPLAY THERMOSTAT Bidder Complies YES_____ NO_____

CONTROL:

A digital electronic Climate Control thermostat shall be used to monitor and control both air conditioning and heating in the rear patient compartment. The following features are included:

- A 1/2" backlit digital display, which displays both ambient and set temperatures. Ambient readout is displayed by default.
- Temperature adjustment is 50° F to 99° F or 10° C to 37° C.
- Seven (7) fan speeds standard. Three (3) or Five (5) speed options also available.
- The fan speed is easily controlled by using the color coded tactile up or down arrows.
- Manual mode and two (2) Automatic operation modes which maintain $\pm 2^\circ$ ambient temperature from the set point.
- In Auto 1 mode the fan speeds shall be automatically increased or decreased depending on the temperature differential in the vehicle. Fan speeds are also manually selectable.
- In Auto 2 mode the fan speeds shall be automatically increased or decreased depending on the temperature differential in the vehicle. Fan speeds are NOT manually selectable.
- LED Indicators- Auto-Light Blue, A/C-Blue, Heat-Red
- Operation shall be activated by chassis ignition with two (2) start-up modes available:
 - o "PA" mode- Thermostat turns on using settings from the last use, including the 'OFF' condition.

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- o "PL" mode- Thermostat turns on in Auto 1 mode with a set temperature of 72° regardless of previous settings.
- The thermostat unit temperature probe shall be located mid-level in the patient compartment.
- An additional control panel and remote fan speed switch are available.

The use of spring or bimetallic household thermostat is unacceptable. Only automotive type units shall be used.

AUXILIARY COOLANT PUMP CLIMATE CONTROL SYSTEM: Bidder Complies YES _____ NO _____

An auxiliary coolant pump shall be added to increase coolant flow to the rear heater core. The pump shall be exactly sized to provide required heat to rear unit, while not reducing the effective heat in the vehicle cab. The pump shall be controlled by the vehicle climate control system thermostat. The pump shall be located in a protected location and easily serviceable if required in the future.

INTERIOR AND COMPARTMENT UTILITY LIGHTING

DOME LIGHTING: Bidder Complies YES _____ NO _____

Six (6) Whelen 80C0EHCR, Multiple-LED dome lights shall be equally spaced down both sides of the ceiling. Each light shall include the High/Low intensity feature. The lights shall be relay controlled and have a lighted double throw switch in the rear Life Support panel. All lights to be mounted to vehicle frame work, not to ceiling panel material.

DOME LIGHTS WITH DOOR OPEN: Bidder Complies YES _____ NO _____

The dome lights mounted in the ceiling of the vehicle shall be activated to the low intensity position when the personnel entrance doors are open. The circuit shall be relay controlled and the dome light current shall not be controlled by the door post switch.

ROM LED CEILING LIGHTS Bidder Complies YES _____ NO _____

Four (4) rectangular Durolumen White LED light fixtures shall be installed and equally spaced in between the (6) dome lights. The fixtures shall have reinforced housings which lock in place. The lights shall be relay controlled and switched by a lighted single pole switch in the rear Life Support switch panel. All lights shall be mounted to the vehicle ceiling structural members and not to the ceiling panel material alone.

EXTERIOR COMPARTMENT LIGHTING: Bidder Complies YES _____ NO _____

All exterior compartments shall be lighted by one or two (as required) 4" recessed light fixtures. The compartment lights shall be controlled by an automatic door post switch in each door. The lights shall be located near the top of the compartment for full compartment illumination. The compartment open indication light shall activate anytime any compartment door is opened. The door post switch shall activate the compartment lighting relays. The door post switch shall not carry the current of the compartment lights.

WHELEN LED STRIP-LITE Right Front, In/Out: Bidder Complies YES _____ NO _____

An indirect light located in the Right front In/Out compartment area. The light shall be a Whelen Level 3 intensity LED Strip light. The light will be controlled by the opening and closing of compartment doors.

WHELEN (LSS Area) LED STRIP-LITE: Bidder Complies YES _____ NO _____

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An indirect light located above the Life Support Station counter shall be used to illuminate the action area. The light shall be a LED 10" high intensity model and be switched by a switch in the rear switch panel. The rear panel light switch shall also activate the light in the oxygen storage compartment.

DIRECTIONAL INDICATOR LIGHTS: Bidder Complies YES ___ NO ___

Two (2) LED Marker lights shall be installed on the inside of the vehicle over the rear body doors. The lights shall be tied to the vehicles directional lights which will indicate the direction the driver is turning.

BRAKE INDICATOR LIGHT: Bidder Complies YES ___ NO ___

One (1) LED Marker light shall be installed on the inside of the vehicle over the rear body doors. The light shall be tied to the vehicles brake lights which will indicate the when the driver is applying the brakes

REAR STEP "UP" INDICATOR LIGHT: Bidder Complies YES ___ NO ___

One (1) LED Marker light shall be installed on the inside of the vehicle over the rear body doors. The light shall be tied to the vehicles rear step and will flash if the rear step is in the UP position.

STEPWELL LIGHT: Bidder Complies YES ___ NO ___

An independent, recessed LED step well light shall be provided in the rear side of the diamond plate step well and be automatically activated whenever the side entrance door is open. The exterior shall be protected from weather and damage. All connections shall be weatherproof, sealed connectors.

RETANGULAR LIGHT; "CHECK OUT" TIMER: Bidder Complies YES ___ NO ___

A 60 minute mechanical timer shall be provided at the side door of the vehicle to allow the Rectangular lights to be turned to the on position when the vehicle exterior power source is connected and shall be powered by the vehicles 12 volt battery charger. The lights shall be controlled by an additional transfer relay to prevent the lights from discharging the vehicle batteries when the shoreline is not plugged in. The timer shall only function when the shoreline is plugged in, and will not function when the battery switch is activated.

RIGHT SIDE RECTANGULAR LIGHTS "CHECK OUT TIMER": Bidder Complies YES ___ NO ___

The right side rectangular light check out timer shall be moved to the right side wall, at the head of the squad bench.

DUAL DOME LIGHT SWITCHES: Bidder Complies YES ___ NO ___

Per the requirements of KKK-A-1822, two independent dome light circuits with two independent switches shall be provided to control two banks of (3) dome lights each. The switches shall be marked in the Life Support panel as left dome light and right dome light. Each switch shall power the low mode of the fixtures independently.

THREE-WAY DOME/FLUORESCENT LIGHT SWITCHES FOR 2 LOCATIONS: Bidder Complies YES ___ NO ___

A three-way master dome light switch shall be provided in the front and rear LSS switch panel. The switch shall act as a master control of all dome lights in the rear of the ambulance, including the fluorescent light assemblies. The lights can be controlled "on" or "off" from either location. The light switches in the rear switch panel must be in the "on" position for the lights in the rear of the ambulance to function.

Cab Console and LSS Switch Panel

12 VOLT UTILITY AND MEDICAL OUTLETS

12 VOLT MEDICAL OUTLET: Bidder Complies YES ___ NO ___

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One (1) 12 volt Power Point outlet shall be provided. The outlet shall be circuit breaker protected and provide a source directly from the vehicle batteries, and bypass the vehicles master battery disconnect switch. **The outlet shall be located at the Life Support Station.**

12 VOLT MEDICAL OUTLET: Bidder Complies YES___ NO___

One (1) 12 volt Power Point outlet shall be provided. The outlet shall be circuit breaker protected and provide a source directly from the vehicle batteries, and bypass the vehicles master battery disconnect switch. **The outlet shall be located in the right front in/out access compartment.**

12 VOLT MEDICAL OUTLET: Bidder Complies YES___ NO___

One (1) 12 volt Power Point outlet shall be provided. The outlet shall be circuit breaker protected and provide a source directly from the vehicle batteries, and bypass the vehicles master battery disconnect switch. **The outlet shall be located on the left rear wall of the vehicle.**

12 VOLT MEDICAL OUTLET: Bidder Complies YES___ NO___

One (1) 12 volt Power Point outlet shall be provided. The outlet shall be circuit breaker protected and provide a source directly from the vehicle batteries, and bypass the vehicles master battery disconnect switch.

Qty: (3) Loc: (2) Front Bulkhead Cabinet/Desk, (1) Front console

ANTENNA AND COMMUNICATION RADIO EQUIPMENT

ANTENNA: Bidder Complies YES___ NO___

A Coaxial Antenna lead shall be prewired from a location in the wire raceway to the location of the two-way communication radios.

The antenna lead in the roof shall include a connector soldered to end of cable for install of two-way communication radio antenna.

ANTENNA LEADS: Bidder Complies YES___ NO___

Three (3) coaxial cable antenna leads shall be installed; they shall be positioned within the body roof, in numerical order. They shall terminate in the following locations;

(1) Front console, (1) L/S/S, (1) Behind driver seat.

ANTENNA LEADS; ADDITIONAL: Bidder Complies YES___ NO___

Additional antenna leads shall be installed in numerical order as shown within the attached PDF picture file. The leads shall run from the body roof to the radio location.

(1) Behind Driver Seat

RADIO POWER LEAD: Bidder Complies YES___ NO___

A 10 gauge constant power positive lead and 10 gauge ground shall be provided with 30 amp circuit protection located in the rear Life Support Panel.

Includes: (1) Red 10 gauge marked radio 12 volt Hot, 30 amp, (1) Black 10 gauge marked radio ground, (1) Orange 12 gauge marked 12 volt switched, 20 amp.

RADIO POWER LEADS: Bidder Complies YES___ NO___

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A 10 gauge constant power positive lead and 10 gauge ground shall be provided with 30 amp circuit protection.

Includes: (1) 12 volt Hot wire with 30 amp circuit protection, (1) 12 volt switched wire with 20 amp circuit protection.

RADIO POWER LEADS: **Bidder Complies** YES _____ NO _____

An 8 gauge constant power positive lead and 8 gauge ground shall be provided with 40 amp circuit protection.

Includes: (1) 12 volt Hot wire w/fuse holder & 40 amp fuse, (1) 12 volt switched wire w/fuse holder and 40 amp fuse.

12 VOLT ELECTRICAL EQUIPMENT

REAR STEREO SPEAKERS: **Bidder Complies** YES _____ NO _____

Two (2) low profile, flush mounted, AM-FM Stereo Radio Speakers shall be installed in the ceiling in the forward portion of the vehicle. The speakers shall be spaced with other equipment provided, (1) each side. The speakers shall be connected to the stereo radio within the cab dashboard. A "Volume Control" rheostat shall be provided in the rear switch panel to allow speakers to operate independent of front speakers.

INTELLITEC CLOCK W/SWEEP SECOND HAND: **Bidder Complies** YES _____ NO _____

An Intellitec digital clock with sweep second hand and elapsed timer shall be installed over the rear doors. The clock shall be powered by a constant, protected, 12 volt source directly from the batteries.

The clock shall have a 4-digit display to allow for easy viewing when seated in any position in the rear of the ambulance. The clock is 6.75 x 4.75 x 1.25 mounted in a 6" x 5" panel cut out using 4 screws.

KENWOOD 4- CAMERA NAVIGATION SYSTEM: **Bidder Complies** YES _____ NO _____

A Kenwood #DNX9990HD (or most current model) in dash navigation system with Backup Camera shall be installed in place of the OEM radio. The system shall include a total of four (4) cameras

The backup and interior patient compartment cameras are to be Kenwood CMOS cameras or equal. The backup camera shall be mounted over the rear doors centered as much as possible. The interior camera (mounted above rear doors) will be facing the head of the cot. The body side cameras will be ASA tear drop style and are to include ASA 31300006 voyage camera composite input connectors. Each body side camera will be triggered by the turn signal inputs.

CUSTOMER SUPPLIED DRIVE CAM SYSTEM: **Bidder Complies** YES _____ NO _____

A customer supplied Drive Cam System shall be installed in the vehicle according to specifications.

115 VOLT AC ELECTRICAL: **Bidder Complies** YES _____ NO _____

The vehicle shall include a 115 volt AC Electrical system separate and distinct from the vehicles 12 volt electrical system.

The entire system shall be designed and tested to meet the requirements of the NFPA National Electrical Code (NEC) where applicable and use the balance of the NEC for general practices and procedures associated with high voltage 115/230 volt AC Electrical wiring and devices.

The vehicle shall also meet and be tested to all requirements of AMD standard 009. Test Documentation and verification shall be provided upon request.

115 VOLT ELECTRICAL SCHEMATICS: **Bidder Complies** YES _____ NO _____

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A complete wiring schematic shall be provided which indicates the systems entire 115 volt Electrical System. The schematic shall be done in the same format as the 12 volt wiring schematics and be provided upon delivery of the vehicle.

115 VOLT WIRING: Bidder Complies YES ___ NO ___

All wiring shall be three (3) conductors, 10 GA or 12 GA minimum stranded copper cable as required by the circuit requirements. All conductors shall have a 105 degree Celsius rated insulation, with tinned conductors rated at 600 volt. All cable wiring shall be encased in high temperature protective loom where exposed.

KUSSMAUL "SUPER AUTO-EJECT" SHORELINE: Bidder Complies YES ___ NO ___

A 20 Amp Kussmaul "Super Auto-Eject" Shoreline Male Motor Base Model 091-55-20-120 shall be installed on the left side of the body over compartment "B". The Shoreline shall be waterproof type with spring loaded gasketed cover. The Shoreline shall be wired to the junction circuit breaker box located within the power distribution panel compartment. The Shoreline auto-eject solenoid shall be connected to the starter solenoid of the vehicle and only be activated when the key is in the start mode. The Shoreline shall be equipped with a matching female connector designed for use with the auto-eject shoreline and shipped loose with the vehicle.

SHORELINE POWER / BATTERY CHARGER INDICATOR LIGHTS; Bidder Complies YES ___ NO ___

Dual operation indicator lights shall be provided to indicate both live power of the shoreline and battery charger "charging". This shall be located at the shoreline input connector. The "Live Power Shoreline" indicator shall be a "rounded" 3/8" LED amber indicator and the "Battery Charger" indicator shall be a "rounded" 3/8" green LED. The 115 volt indicator shall indicate power has reached the interior outlets, not just the shoreline.

115 VOLT POWER DISTRIBUTION BOX: Bidder Complies YES ___ NO ___

A 115 volt power distribution box shall be installed in the vehicles main electrical cabinet. The distribution box shall consist of an enclosure with a 20 amp magnetic type circuit breaker installed. The circuit breaker shall power duplex receptacles also mounted within the distribution box. All wiring and circuits provided shall be sized for a 20 amp capacity, 12 gauge conductor minimum.

ENGINE BLOCK HEATER (If so Equipped): Bidder Complies YES ___ NO ___

If the supplied chassis is OEM equipped with an engine block heater, then the Block Heater shall be powered by the exterior shoreline power of the vehicle. A 115 volt Electrical conductor encased in high temperature loom shall be routed to the engine compartment and have a quick connect, Female plug on the end to plug into the engine block heater.

Note: Includes block heater switch in Electrical cabinet. The heater should only be switched on during (cold weather) as per chassis owner manual guidelines.

ENGINE BLOCK "SHUT-OFF" SWITCH: Bidder Complies YES ___ NO ___

A 115 volt AC toggle switch, 15 amp rated, shall be located with the area of the electrical compartment to disconnect the engine block heater from the shoreline input feed. The wiring shall be done in accordance with NFPA, NEC applicable codes.

115 VOLT GFCI RECEPTACLE INTERIOR: Bidder Complies YES ___ NO ___

115 volt AC Duplex Ground Fault Circuit Interrupter receptacle shall be installed in the vehicle for protection of personnel. The GFCI shall be "Lighted" duplex type. The Green light within the outlet shall glow when live power is at the outlet, and extinguish to indicate when the GFCI is tripped. All other outlets within the vehicle shall be wired downstream, and be GFCI protected. The location of the GFCI shall be as follows, one (1) located on the back wall of the Life Support Station.

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15 VOLT OUTLET INTERIOR: Bidder Complies YES___ NO___

115 volt AC Duplex Electrical outlet shall be installed in the vehicle. The outlets shall be "Lighted" hospital grade duplex type. The Neon light within the outlet shall glow when live power is at the outlet. All outlets within the vehicle shall be GFCI protected. The location of the outlet shall be as follows, one (1) located on the left rear wall of the vehicle.

115 VOLT OUTLET INTERIOR: Bidder Complies YES___ NO___

115 volt AC Duplex Electrical outlet shall be installed in the vehicle. The outlets shall be "Lighted" hospital grade duplex type. The Neon light within the outlet shall glow when live power is at the outlet. All outlets within the vehicle shall be GFCI protected. The location of the outlet shall be as follows, one (1) located in the right front compartment.

115 VOLT OUTLETS INTERIOR: Bidder Complies YES___ NO___

115 volt AC Duplex Electrical outlet shall be installed in the vehicle. The outlets shall be "Lighted" duplex type. The Neon light within the outlet shall glow when live power is at the outlet. All outlets within the vehicle shall be GFI protected.

- (1) Front Bulkhead Cabinet/Desk
- (1) Right Front Lower Interior/Exterior Cabinet - Below Shelf

BATTERY CHARGING EQUIPMENT

BATTERY CONDITIONER/POWER SUPPLY: Bidder Complies YES___ NO___

The vehicle shall be equipped with an IOTA DLS-30, 30 Amp Battery Conditioner/Power Supply to charge the vehicle batteries when plugged into the external shoreline. The battery charger shall be a fully automatic controlled taper charger and provide no charge when the batteries are completely charged. The Conditioner shall be a heavy duty, continuous duty, solid state unit. The use of heavy inefficient transformer type units is unacceptable.

KUSSMAUL STATUS CENTER DISPLAY: Bidder Complies YES___ NO___
DIGITAL & LED DISPLAY

A Kussmaul Model #091-189-12 Auto Charge Status Center shall be installed. The unit shall provide LED digital voltage readout. The left side of the display shall have four (4) LED color coded lights shall indicate battery condition.



VEHICLE PAINTING

PAINTING PROCESS: Bidder Complies YES___ NO___

The entire modular body shall be prepared and painted using the Akzo Nobel Sikkens Paint System. Sikkens products will be used exclusively, and the use of other incompatible products will be cause for rejection of the bidders' response.

REQUIRED PAINT PROCEDURES:

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I. Surface Cleaning

Bidder Complies YES ___ NO ___

2. The vehicle module will be inspected for excess fuser, weld slag, and caulking. All such contaminants will be removed prior to prepping for paint.
3. The module will be surface cleaned with Sikkens OTO Degreaser utilizing the "2-Towel" method. One towel will be used to apply the product (saturate and scrub the surface area being cleaned), and one towel will be used to physically dry the area. All proper HS&E practices will be followed.
4. The surface cleaner will not be allowed to evaporate by working small areas.
5. Both towels will be replaced as they become dirty.
6. Inspect the module body during the cleaning process for any surface defects of irregularities.

II. Polyester Repairs

Bidder Complies YES ___ NO ___

1. If surface imperfections during fabrication require the use of polyester filler, the product must be suitable for the substrate. All manufacturers' recommendations for application must be followed.
2. After recommended dry times, polyester repairs must be sanded P-120 grit dry followed by final sanding with P-180 grit dry utilizing guide coat product.
3. All P-120 grit sand scratch must be removed prior to the application of Primer/Surfacer.
4. All repairs must be primed prior to the surface preparation process.

III. Primer/Surfacer Preparation Process

Bidder Complies YES ___ NO ___

1. Sand/Abrade all areas that require the application of Sikkens High Build Surfacer Gray with P-180 grit or 3M 07447 Red Scotch Brite Pads.
2. Thoroughly clean and degrease with Sikkens OTO Surface Cleaner as per recommended standard practices.
3. Apply AutoPrep Pre-Treatment Wipes (as per TDS S2.06.01) to all bare metal or aluminum surfaces extending slightly into the polyester repaired areas and extending far enough on to the substrate to allow the High Build Surfacer Gray to be applied inside the AutoPrep Pre-Treatment Wipe area.
4. Mix and apply 2-3 coats of High Build Surfacer Gray (as per TDS 04.09.2012) after treated area. Follow TDS for High Build Surfacer Gray for mixing, spraying procedures, and dry time recommendations.

IV. Surface Preparation --- Brightener Process

Bidder Complies YES ___ NO ___

1. Fully rinse module with D.I. water.
2. Mix 35 oz. Brightener to 500 oz. D.I. water.

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3. Apply Brightener solution from the top of the module working down while scrubbing with a brush to insure complete surface contact and mechanical cleaning.
4. Allow approximately 5 minutes dwell time on the surface.
5. Rinse thoroughly with D.I. water. Water must “sheet” cleanly over the aluminum surface. If required, repeat process.

V. Surface Preparation --- Application of Gardobond 4707 Bidder Complies YES ____ NO ____

1. Mix 300 milliliters of Gardobond 4707 to 2 gallons of D.I. water.
2. Apply Gardobond solution starting at the top of the module and working down using approved spray equipment while maintaining at least 50 % overlap application process.
3. Allow 5 minute dwell time on the surface.
4. Rinse thoroughly with D.I. water.
5. Blow off excess water with air blower concentrating on recessed areas and seams.
6. Blow off and bake dry in spray booth (140 degrees for 45 minutes), and recheck for residual water.
7. Tack and proceed with painting process.

VI. Door Preparation Bidder Complies YES ____ NO ____

1. Follow same procedures as for exterior module body preparation.
2. Inner doors must be coated in designated areas with “cavity wax” after finish process has been completed.

VII. Surface Preparation for Small Repairs Bidder Complies YES ____ NO ____

1. Surface clean substrate utilizing Sikkens OTO surface cleaner as per recommended process.
2. Prepare surface using aluminum P-180 grit DA or 3M0774 Red scuff pads.
3. Final surface clean with Sikkens OTO Surface Cleaner as per recommended process.

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4. Apply AutoPrep Pre-Treatment wipes as per recommended process utilizing a “double wipe” method with a 50-75% overlap.
5. Allow one minute dwell time for solution to react with base metal.
6. When completely flashed off, proceed with Sikkens High Build Surfacer Gray.
7. Do not apply any type of polyester products over AutoPrep Pre-Treatment Wipes.

VIII. E-Coat Application Process

Bidder Complies YES _____ NO _____

1. Mix LV260 Primer EP at 3:1 plus 10% utilizing the #9 Sikkens measuring stick.
 - a. 3 parts LV260 Primer EP
 - b. 1 part LV260 Hardener
 - c. 10% (of the A component) Reducer Slow
2. Apply one single flowing coat of LV 260 Primer EP while maintaining a 50 to 75% overlap and a gun distance of 6 to 8 inches.
3. Adjust fan pattern and atomizing air pressure to minimize texture and overspray.

IX. Undercoat Painting Process-LV 650 Sealer

Bidder Complies YES _____ NO _____

1. Mix Autocoat LV 650 Sealer at 5:1: ratio utilizing the #23 Sikkens measuring stick.
 - a. 5 parts LV Sealer
 - b. 1 part LV 650 Hardener
 - c. 1 part LV 650 Reducers
2. Apply one single flowing coat while maintaining a 50 to 75% overlap and a distance of 6 to 8 inches.
3. Adjust fan pattern and atomizing air pressure to minimize texture and overspray.
4. Use SATA RP 1.0-1.1 equipment for best results.

X. Auto Base Plus Color Mixing Process

Bidder Complies YES _____ NO _____

1. Mix Auto Base Plus at 100:5 with LV 650 Hardener utilizing the #14 Sikkens measuring stick. Stir mixture completely.
2. Mix 100 parts of above combination with 80 parts Sikkens HP Reducers.
3. Solvent selection should be slow enough to provide good flow and melt in characteristics.

XI. Application of Auto Base Plus Colors

Bidder Complies YES _____ NO _____

1. For solid colors, apply 2 single coats allowing 5 to 7 minutes flash-off between each coat.

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2. For metallic colors, apply 2 single coats at approximately 6 inches from the module allowing 5 to 7 minutes flash-off between each coat. Even out the metallic pattern an orientation coat after the second coat has flashed off completely.

XII. Autocoat LV650 Clear Coat Mixing Process

Bidder Complies YES _____ NO _____

1. Mix Autocoat LV650 Clear Coat at a ratio of 5:2:2
 - a. 5 parts LV650 Clear
 - b. 2 parts LV650 Hardener
 - c. 2 parts LV650 Reducer
2. Once it is mixed, Autocoat LV650 Clear has a pot life of 1.5 hours at 70 degrees F.

XIII. Sikkens System Dry Film Build Requirements

Bidder Complies YES _____ NO _____

1. High Build Surfacer Gray---2.0 to 2.7 mils per coat. (not included in total film build calculation)
2. E Coat---LV260 Primer EP---One coat at 1.0 to 1.5 mils per coat.
3. Primer Sealer---LV650---One coat at 1.0 to 1.4 mils per coat.
4. Base Coat--- Autobase Plus---Two to three coats at 0.3 to 0.4 mils per coat.
5. Clear Coat---LV650 Clear---Three coats at 0.9 to 1.1 mils per coat.
6. Total Dry Film Build System range---5.7 to 7.4 mils.
7. Total Dry Film Build System after detail/polish---4.7 to 6.4 mils.

8.

PAINT CORROSION PROTECTION:

Bidder Complies YES _____ NO _____

All exterior fastener locations that penetrate the paint on the modular body are to be treated with Electrolysis Corrosion Kontrol (ECK). Every external fastener hole shall have ECK sprayed into the hole for full coverage. The perimeter of the hole shall be covered with a minimum of .5 diameter of ECK. This is to protect the head of the fastener from touching the painted surface. All applications of ECK are to take place before component mounting. The fasteners that are included in this process are for the following components: Lights, Light Bars, Hinges, Diamond plate panels, Fuel fill, License plate holder, Shoreline, Vent Covers, Rain Gutters, Rub Rails, Fenderettes and Door Grabbers. Additional items that are mounted to the painted body will also be included. When an item is cut into the body causing an unpainted edge, the unpainted edge shall be completely coated with ECK prior to component mounting.

TEN YEAR PAINT WARRANTY

Bidder Complies YES _____ NO _____

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Manufacturer will warranty to original purchaser that the Paint is free from specific paint defects for 10 years from date the vehicle is delivered. Manufacturer will warranty 100% labor & materials for the following defects: coating system integrity, coating adhesion and UV related degradation. Gloss retention and color retention. Cracking or checking of the paint film. Delaminating from the substrate or intercoat. Manufacturer will warranty materials and labor to repair defects resulting from dissimilar metals and crevice corrosion for a period of 5 years, 60,000 miles from date of delivery. Bidder must include statement of warranty policy with bid.

PAINT ADHESION TESTING: Bidder Complies YES____ NO____

The manufacturer shall utilize a customized paint adhesion testing procedure to insure and verify that proper bonding of the coatings to the substrate surface, has taken place. This test is performed on an intentional, sacrificial test surface just prior to the final polish stage. The coatings are cross hatch cut down to the substrate on multiple areas of the test surface. An adhesion tape of Permacel 99 (or the equivalent) is bonded and then removed to verify the permanent bond of the coatings. Each test surface panel is dated, logged and saved. The performed adhesion test is designed to exceed the ASTM spec D 3359, "Standard Test Method for Measuring Adhesion by Tape Test".

MODULAR BODY PAINT: Bidder Complies YES____ NO____

The entire modular body will be painted OEM white.

PAINT REAR, SOLID PRIMARY COLOR: Bidder Complies YES____ NO____

The rear portion of the body shall be painted the primary single solid color only.

CAB PAINT : Bidder Complies YES____ NO____

The cab color shall remain OEM manufacturer's Cab color as specified in the chassis spec portion of this document

PAINT STRIPE: Bidder Complies YES____ NO____

A beltline stripe shall be applied to the sides of the modular body. Dimension and stripe color will be specified further in this document

PAINT STRIPE: Bidder Complies YES____ NO____

A beltline stripe shall be applied to the sides of the vehicle including the cab. The stripe shall have kick up design incorporated into the stripe. The kick up will be located on the body.

PAINT STRIPE SIZE: Bidder Complies YES____ NO____

The beltline stripe shall be a total of width of 11"

PAINT STRIPE REAR: Bidder Complies YES____ NO____

There will not be a rear belt painted on the vehicle

BELT LINE PAINT COLOR: Bidder Complies YES____ NO____

The Painted beltline color shall be Blue. Paint code to be determined at pre-con

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REFLECTIVE STRIPE COLOR: Bidder Complies YES___ NO___

The color of the reflective tape stripe shall be Gold.

REFLECTIVE LETTERING: Bidder Complies YES___ NO___

The vehicle shall be provided with custom reflective lettering prior to the delivery of the unit. All bidders are to include an allowance of \$1,500.00 for lettering and graphics.

VINYL REFLECTIVE STRIPE: Bidder Complies YES___ NO___

A 1 ½ " wide vinyl reflective stripe shall be installed on the entire length of the vehicle.

Location: Inset painted stripe

Color: Gold Ref (Match Existing)

VINYL REFLECTIVE STRIPE ON ENTRANCE DOORS: Bidder Complies YES___ NO___

A 3/4" wide vinyl reflective white stripe shall be installed on the outer perimeter edge, of the inner door pan on all (3) entrance doors.

Reflective White 3/4" Outline

This provides the 60 sq. Inch required for both general safety and KKK.

SOLID REFLECTIVE 2-COLOR CHEVRON DESIGN ON REAR BODY, 6": Bidder Complies YES___ NO___

A 6" solid reflective 3M 280 Series, a two color chevron stripe shall be installed on the rear body of the vehicle outside panels only: Does not include rear door(s).

Colors: 1) Blue

2) White

REFLECTIVE CHEVRON DESIGN ON INNER LOWER ENTRANCE DOOR PANELS: Bidder Complies YES___ NO___

A 3" reflective 3M 280 Series, chevron stripe shall be installed on the inside, brushed aluminum door panels on all Entrance doors. The Chevron color shall be Blue/White.

GRAPHICS

VISION SHIELD WINDOW STAR OF LIFE: Bidder Complies YES___ NO___

Two (2) Vinyl Vision Shields with 12" blue Stars of Life shall be installed on the rear windows of the body.

DEALER PROVIDED, RADIO TECHNICAL INSTALLATION: Bidder Complies YES___ NO___

The Dealer shall provide the vehicle with an installed fully functional Communication Radio System. This work shall be performed at the Dealers facility. All control heads shall be flush mounted within the front console and/or rear switch panel. The installed system shall include the mounting of all specified equipment, electrical hook-up and the tuning of equipment and antennas.

Unless stated otherwise all radios, accessories and related wiring will be supplied by the end user.

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AUXILLARY RADIO EQUIPMENT INSTALL AND MOUNTING

RADIO CABLES: Bidder Complies YES _____ NO _____

The ambulance manufacturer shall run radio cable/s during construction of the vehicle; the cables shall be provided to the ambulance manufacturer during the construction of the ambulance.

The ambulance manufacturer will not be responsible for supplying the radio equipment or any electrical and/or cable hookup of the equipment. All cables shall be installed per the radio cable manufactures instructions. Location and Qty as listed below:

Qty: (1)
From: Behind Driver Seat
To: Rear LSS Console

Qty: (1)
From: Behind Driver Seat
To: Rear Radio Cut Out Head of Squad Bench

EQUIPMENT:

ZICO QUICK RELEASE BOTTLE BRACKETS: Bidder Complies YES _____ NO _____

(2) Zico, Quick Release Strapless "D" Bottle Bracket Model QR-D-2 shall be provided and installed in the recessed stepwell area.

ENGINEERING DRAWINGS: Bidder Complies YES _____ NO _____

The Bid shall include a complete detailed set of Engineering Drawings for complete analysis of vehicle proposed and to insure complete understanding of bid requirements. **Drawings of standard and/or generic vehicles NOT representing the vehicle that is being proposed will not be accepted.** The drawings as submitted will be assumed to be the drawings of the vehicle that is proposed to be built. All Drawings shall be submitted on "E" size 36" x 48" paper, showing all exterior and all interior views. Bids submitted on 8 1/2" x 11" or 11" x 17" photo copies shall not be accepted due to the ability to evaluate proposals on an equal basis.

All Drawings shall include the following views as minimum. Exterior: Right side, Left side, Front and Rear. Interior: Left side, Right side, Floor plan, Front wall, and Ceiling layout. Any bid that does not include these views will be considered non-responsive and rejected. Only "Computer-Aided-Designed" Drawings plotted on a pen plotter or equal shall be acceptable. Drawings submitted on a dot matrix printer are unacceptable due to poor quality, and inability to read details. **Submission of similar to or statements referring to later submission of drawings after award of contract is unacceptable and shall be cause of rejection of Bid.**

FINAL DELIVERY: Bidder Complies YES _____ NO _____

The New vehicle shall be cleaned and detailed both inside and out for final delivery. The vehicle shall be delivered with a full tank of fuel or gas. The vehicle shall be delivered with a New York State emissions sticker applied to appropriate spot on the vehicle. All New York State Motor Vehicle paperwork shall be completed by the selling New York State Licensed Dealer. Upon the request of this organization the dealer

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will provide new plates/registration and/or a complete transfer of existing plates/registration. No exceptions to these requirements.

END OF SPECIFICATIONS:

All exceptions MUST be noted with page number and paragraph heading. A detailed explanation must accompany all exceptions even if you feel your proposal exceeds what has been called for. **NO EXCEPTIONS.** A complete set of standard construction specifications showing how the vehicle you are proposing is constructed. This is to include all areas of the manufacturing process. This is a requirement, and not an option. This requirement is set forth to allow for this organization ease in comparing their specifications as written to that of what has been proposed.