

March 30, 2009
TOWN OF LEDYARD
INVITATION TO BID – #2009-08

The Town of Ledyard (Ledyard Volunteer Emergency Services) seeks sealed bids for the purchase of one (1) 2009 Ford E-450 Superduty, 158" Wheelbase, Type III, Class I, Floor Plan A, 167" Long Modular Body, 72" Interior Headroom, Ambulance. Bidding documents and specifications are available at the Ledyard Town Hall, 741 Colonel Ledyard Highway, Ledyard, CT 06339, or by contacting the Mayor's Office at (860) 464-3220.

Sealed proposals will be received until 2:00 P.M. on Monday, April 27, at the above address, at which time they will be publicly opened and read aloud in the office of the Mayor. Proposals received after that time will not be accepted and will be returned to the bidder unopened. Sealed proposals should be clearly marked **"SEALED BID N^o: 2009-08: LVES AMBULANCE."**

The Town of Ledyard reserves the right to waive technical defects in the bids; to reject any bids which do not conform to terms and conditions described in the specifications; to reject any or all bids and again invite bids; and waive informalities or irregularities in the bidding process.

The award of a contract, if awarded, will be to the lowest responsible bidder, provided that the bid is reasonable, and provided that it is in the best interest of the Town of Ledyard to accept such bid, and subject to any choice by the Town of Ledyard as to any alternate specifications as may be agreed upon.

Marcia Hancock
Director of Finance

**AMBULANCE BID
SPECIFICATIONS
FOR
TOWN OF LEDYARD, CT**

**2009 FORD E-450 SUPERDUTY
158" WHEEL BASE
TYPE III, CLASS 1, FLOOR PLAN A
167" LONG MODULAR BODY
72" INTERIOR HEADROOM**

BIDDERS REQUIREMENTS**INTENT OF SPECIFICATIONS**

It is the intent of these specifications to cover the furnishings and delivery to the purchaser; a complete apparatus equipped as hereinafter specified. With a view to obtain the best results and the most acceptable apparatus for service in the EMS field, these specifications cover only the general requirements as to the type of construction and tests to which the apparatus must conform, together with certain details as to finish, equipment, and appliances with which the successful bidder must conform. Minor details of construction and materials where not otherwise specified are left to the discretion of the contractor, who shall be solely responsible for the design and construction of all features. Unless otherwise stated in this bid specification, the vehicle or vehicles supplied must be new, current year models. "Demonstrator" vehicles are not acceptable.

QUALITY AND WORKMANSHIP

The design of the apparatus must embody the latest approved automotive engineering practices. The workmanship must be of the highest quality in its respective field. Special consideration will be given to the following points: accessibility of the various units which require periodic maintenance operations, ease of operation, and symmetrical proportions.

Construction must be rugged and ample safety factors must be provided to carry loads as specified and to meet both on and off road requirements and speed conditions as set forth under traditional EMS conditions.

GENERAL CONDITIONS OF BID

All bid prices shall be in both words and figures. Signature shall be in ink and in longhand. Proposals that are incomplete, conditional or obscure may be rejected as informal.

No oral or telephonic proposals or modifications of proposals will be considered. Proposals shall be submitted in a sealed, opaque envelope marked with the name of the bidder and marked "**SEALED BID N^o 2009-08: LVES AMBULANCE.**"

Bids shall be addressed to:

Finance Director
Town of Ledyard
741 Colonel Ledyard Highway
Ledyard, CT 06339

Bills will be received no later than 2:00 o'clock p.m. on the 27th day of April, 2009, at which time all received bids will be publicly opened and read.

Bidder assumes responsibility for having their bid in the hands of the purchaser on time whether their bid is mailed or hand delivered by courier. Bids will be publicly opened and read aloud in the Mayor's office.

Addenda, if any, issued before opening of bids, shall be taken into account, and included into any proposal.

Verbal answers will not be given to any inquiry in regard to the meaning of the specifications, nor will any verbal instructions be given previous to the award of the bid. No verbal statement regarding the bid by any persons previous to the award of the bid will be authoritative. Any explanation desired by any bidder must be requested in writing. If reply is made it will be communicated to all bidders who have indicated their intention to bid.

All requests pertaining to the above must be brought to the attention of the purchaser not later than ten (10) days prior to the opening of the bids.

The attached specifications describe an emergency medical vehicle suitable for use by the purchaser. These specifications are intended to provide a common standard to which all parties may bid.

AMBULANCE BID SPECIFICATIONS

If the bidder is not going to furnish the item exactly as described, he/she must indicate a deviation even though he/she believes he/she may be exceeding what is described. For each deviation taken, the bidder must include a detailed technical description of what he/she will furnish as well as an explanation of why their deviation equals or exceeds the item in the specifications.

It is the intent to purchase proven equipment. A prototype will not be accepted. Every bidder will be required to demonstrate a vehicle of the requested construction and configuration within 72 hours of request by the purchaser. Failure to do so will result in rejection of the vehicle as a prototype unit. All bids must be completed on the enclosed form. No other forms or specifications are to be used. By rejecting any bids not so submitted, the buyer will insure that all bidders are bidding on the same standard so a fair evaluation can take place.

The purchaser retains the right to reject any and all bids if an error within these bid specifications is found prior to or after the bid date. The purchaser additionally retains the right to reject any and all bids if any or all parts of the specifications are not complied with, regardless of total bid price. Final decision of whether or not a bid complies with these specifications is solely the judgment of the purchaser. Each bidder agrees to accept the decision of the purchaser as final without recourse or prejudice. The purchaser reserves the right to waive any informalities and/or specification requirements that in the opinion of the purchaser best suits the purchaser's interests.

Each bid submitted must contain a non-collusion statement, signed by an officer of the corporation of the bidder. All exceptions and/or deviations to these specifications shall be listed on the form provided.

This specification is written around the needs and requirements of this agency. Where specific equipment or component brands have been specified, it is done with the intent of establishing a level of quality and performance required by this agency. If you propose equipment or components other than named brands, you must take exception in the appropriate spaces and describe in detail how your deviation still meets the performance and quality standards of the named brands.

Where specific materials and production methodology have been specified, it is done with the intent of establishing a level of quality and performance required by this agency. If you propose materials or methodology other than those distinctly specified, you must take exception in the appropriate spaces and describe in detail how your deviation still meets the performance and quality standards of the materials and methods specified in this document. **Any exceptions to or deviations from the methods, materials, and quality specified must be noted and clearly described on the "Exceptions" forms.**

VERIFICATION AND CERTIFICATION INFORMATION

All bidders shall provide in writing from an independent testing facility that their proposed vehicle conforms to federal G.S.A. specifications KKK-A-1822E. In-house certifications will not be accepted due to the nature of their potential bias.

Does your bid comply with this requirement? YES (☐) NO (☐)

As an indication of good quality control processes, bidders must provide proof that they are currently members of the National Truck Equipment Association's (N.T.E.A.) Ambulance Manufacturers' Division (A.M.D.), and enrolled and certified in Ford's Qualified Vehicle Modifier (QVM) Program. Manufacturers must remain enrolled in the QVM program for the duration of the construction period and through delivery.

Does your bid comply with this requirement? YES (☐) NO (☐)

Each bidder shall furnish satisfactory evidence of his ability to construct the vehicle as herein specified, and state the location of his factory where the vehicle is to be built. Each bidder must state ten (10) locations where a similar vehicle, built by the manufacturer, has been delivered and is in operation, thus showing its ability to comply. These ten (10) vehicles must be built on identically sized and type chassis' built by the same chassis manufacturer as specified herein. The names of the organization, date of delivery, and a contact person's name and phone number must be included.

Does your bid comply with this requirement? YES (☐) NO (☐)

In addition, each bidder shall list five (5) vehicles built by the manufacturer which have been re-mounted onto new chassis' by the manufacturer within the last three (3) years. The year of original manufacture, as well as the date of re-mounting must be included along with the name, address, and phone number of the organization that is currently

AMBULANCE BID SPECIFICATIONS

operating the re-mounted vehicle.

Does your bid comply with this requirement? YES () NO ()

The manufacturer must be engaged actively in the business of manufacturing emergency medical vehicles. The manufacturer must have had at least twenty (20) years prior experience in building emergency medical vehicles. Proof must be submitted with bid.

Does your bid comply with this requirement? YES () NO ()

All parts and components not specifically mentioned herein which are necessary to provide a complete well-equipped and safe emergency medical vehicle shall be furnished by the bidder and shall conform in quality, strength, and workmanship. Certification may be required on non-specified component parts.

Does your bid comply with this requirement? YES () NO ()

SERVICE

Bidder must offer on-site service for minor repairs and adjustments, and a drive-to service facility for all conversion warranty items. Drive-to service facility shall be no more than 40 miles from the purchaser's place of business. Pick-up and delivery service to the drive-to service facility shall be included at no additional charge. Service for both the chassis and conversion must be provided. Bidder must state their service provisions and requirements necessary to maintain the manufacturer's warranties and the location of the nearest manufacturer's authorized service facility.

Does your bid comply with this requirement? YES () NO ()

PREVENTIVE MAINTENANCE INSPECTIONS

In addition, the bidder must provide semi-annual Preventive Maintenance Inspections of the entire conversion; including all interior and exterior electrical components, all interior and exterior hardware, interior and exterior door latches, hinges, locks, sliding tracks, handles, weather-stripping, flooring, trim, upholstery, etc. Inspections shall take place at the purchaser's place of business for the first five (5) years of ownership. Documentation of inspections shall be provided to the purchaser and shall be kept on file by the bidder for a minimum of five (5) years. Any repairs necessary shall be performed at the discretion of the purchaser.

Does your bid comply with this requirement? YES () NO ()

Bidder must be a registered and/or licensed automobile dealer within the state of the purchaser. This will assure the purchaser full protection under the laws governing the sale and service of automobiles within the purchaser's state. A copy of the dealer's license must be submitted with the bid.

Does your bid comply with this requirement? YES () NO ()

Bidder shall list all applicable warranties, including the modular body. Stated warranties will be a factor in the bid award.

Does your bid comply with this requirement? YES () NO ()

The manufacturer shall be a member in good standing of the Ambulance Manufacturer's Division (AMD) of the National Truck Equipment Association (NTEA). This is to demonstrate active industry participation in evolving standards processes and technological changes.

Does your bid comply with this requirement? YES () NO ()

MODULAR BODY SAMPLES

Each bidder is required to submit with their bid, the following items either as outlined in the specifications, or as he/she proposes to furnish under the deviation section of their proposal. Failure to include these items with the bid is cause for disqualification of the bid as they are necessary for evaluation.

1. Roof extrusion with integral rain gutter.

AMBULANCE BID SPECIFICATIONS

2. Corner post extrusion.
3. Patient compartment door extrusion.
4. Roof and wall panels.
5. Wall and ceiling frame extrusions.
6. Patient compartment floor extrusion.
7. Painted piece of aluminum per requirement under modular body finish.
8. Ceiling, wall, door, and floor insulation samples.
9. Any aluminum diamond plated material, and/or modular body trim pieces required in the construction.

Note that all required parts must be left with bid proposal for a period of two (2) weeks for a comparative analysis. Failure to meet this requirement will result in rejection of proposal.

Does your bid comply with this requirement? YES () NO ()

PROPOSAL FORMAT

For ease of comparison, all bid proposals must be submitted in the same order as these specifications. **NO EXCEPTION TO THIS REQUIREMENT WILL BE ACCEPTED.**

Does your bid comply with this requirement? YES () NO ()

DRAWINGS

Bidder must include color 8 1/2" x 11" proposal drawings of the vehicle being proposed, showing the locations of all requested equipment, cabinets, and compartments. Views must include front and rear exterior views, street side and curb side exterior views, and interior views of front wall, rear wall, main cabinet wall, bench wall, and overhead. **NO EXCEPTION TO THIS REQUIREMENT WILL BE ACCEPTED.**

Engineering blue prints showing dimensions of all cabinets and compartments must be approved by an authorized agent for the purchaser prior to any metal being sheared or cut for the unit. The purchaser and the manufacturer shall each have a copy of this blue print. This blue print shall then become a part of the total contract.

Both sets of drawings must show, but not be limited to, such items as the chassis being utilized, lights, horns, sirens, all compartment locations and dimensions, etc. In actuality, this blue print is to be a visual interpretation of the unit as it is to be supplied.

Does your bid comply with this requirement? YES () NO ()

PRODUCT LIABILITY INSURANCE

The manufacturer of the Emergency Medical Vehicle being bid must have product liability insurance with coverage totaling at least \$5,000,000.00 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 insurer's binder shall be included with this bid, showing the name and address of the purchaser as Certificate Holder. Bidders failing to submit proof of this insurance requirement cannot be accepted and their bid proposal will be rejected.

Does your bid comply with this requirement? YES () NO ()

BONDING

A ten percent (10%) bid bond shall be properly executed and indicate the name of the bidder. In addition, the cost of a 100% performance bond shall be included in your proposal as a separate cost item and so noted on the "bid form" provided.

Does your bid comply with this requirement? YES () NO ()

LICENSING

Bidder must be a legally licensed Connecticut State New Vehicle Automobile Dealer. Bidders shall include a copy of their valid CT DMV license with the bid documents. Failure to provide proof of licensing shall deem the bid non-responsive and will be rejected.

AMBULANCE BID SPECIFICATIONS

Does your bid comply with this requirement? YES () NO ()

DELIVERY

The completed vehicle must be transported from the manufacturer over-the-road to insure a proper break-in period. Vehicles that are delivered via tow truck, flatbed, trailer, or other means shall not be acceptable. Delivery of the proposed vehicle must be within 180 calendar days from receipt of bid award. Bid price must include delivery to the purchaser's place of business. 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 their control. The bidder will hold him/herself legally responsible if these specifications are not met at the time of delivery.

The successful bidder must provide a training seminar for members of the purchasing organization to familiarize them with the operation of the vehicle upon delivery.

Does your bid comply with this requirement? YES () NO ()

ACCEPTANCE

Should the vehicle being proposed not meet or exceed the specifications called for within this package, the purchaser reserves the right to reject the vehicle penalty free.

Does your bid comply with this requirement? YES () NO ()

PAYMENT

Bid price must remain binding for a period of thirty (30) days from the bid opening date. Payment will be made in full only after delivery and acceptance of the completed unit. A Bill of Sale and both chassis and conversion Manufacturer's Statements of Origin (M.S.O.) must be provided at time of delivery and receipt of payment in full.

Does your bid comply with this requirement? YES () NO ()

BID FORM
(to be used for ambulance bid only)

Bids not submitted on this form will be considered informal and not acceptable.

The undersigned, having a principal place of business at:

Name of company: _____

Address: _____

City: _____ State: _____ Zip: _____

And being experienced and responsible for the performance of same, propose to furnish the following vehicle according to the specifications hereto annexed:

Manufacturer's name: _____

Manufacturer's location (city/state): _____

Number of years manufacturing proposed vehicle: _____

For the sum total of (in words):

(In figures) \$ _____

Cost of 100% performance bond: \$ _____

It is understood that the attached bid specifications, including all instructions and conditions contained herein, shall be considered part of a contract if an award is made, and by submission of this bid, the bidder (signed below) agrees to abide by these specifications in there entirety.

Signature of corporate officer

Date

Name of corporate officer (print or type)

Title

Non-collusive statement must be signed and attached.

NON-COLLUSIVE BIDDING CERTIFICATION

By submission of this bid the bidder certifies that:

- A. This bid has been independently arrived at without collusion with any other bidder, or with any competitor, or potential competitor.
- B. This bid has not been knowingly disclosed prior to the opening of bids for this project to any other bidder, competitor, or potential competitor.
- C. No attempt has been or will be made to induce any other person, partnership, or corporation to submit or fail to submit a bid.
- D. The person signing this bid certifies that he has fully informed him/herself regarding the accuracy of the statements contained in this certification and under penalties of perjury, being applicable to the bidder as well as the person signing its behalf.
- E. That attached hereto (if a corporate bidder) is a certified copy of a resolution authorizing the execution of this certificate by the signer of this bid on behalf of the corporate bidder.

Resolved: that _____ is authorized to sign and submit the bid of this corporation for the following item(s):

And to include in such bid the certificate of non-collusion required by section 103 of the general municipal law as the act and deed of such corporation and for any inaccuracies or mis-statements in such certificate this corporate bidder shall be liable for under the penalties of perjury.

The foregoing is a true and correct copy of the resolution adopted by
_____ at a meeting of its board of directors held on the ____ day of
_____ 20____.

Date

Signature

Title

LIST OF TEN (10) SIMILAR UNITS IN SERVICE

	<u>NAME OF OWNER</u>	<u>DATE OF DELIVERY</u>	<u>CONTACT NAME/PHONE NUMBER</u>
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____
6.	_____	_____	_____
7.	_____	_____	_____
8.	_____	_____	_____
9.	_____	_____	_____
10.	_____	_____	_____

LIST OF FIVE (5) UNITS RE-MOUNTED ONTO A NEW CHASSIS

	<u>NAME OF OWNER</u>	<u>DATE OF DELIVERY</u>	<u>CONTACT NAME/PHONE NUMBER</u>
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____

LOCATION(S) OF AUTHORIZED CONVERSION WARRANTY SERVICE FACILITIES

- 1. _____
- 2. _____
- 3. _____
- 4. _____

MAXIMUM WARRANTY LIMITATIONS

	<u>NUMBER OF YEARS</u>	<u>MILEAGE</u>
1. Modular Body Structural	_____	_____
2. Interior Cabinets	_____	_____
3. Conversion	_____	_____
4. Converter Electrical System	_____	_____
5. Paint	_____	_____
6. Chassis	_____	_____

If any of the above warranty programs are pro-rated by time, mileage, or other condition, please specify below.

SPECIFICATION EVALUATION CHECKLIST

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

AMBULANCE BID SPECIFICATIONS

BODY STYLE

Body exterior shall be a minimum of 167.75" long x 96" wide x 90" high. All body panels, structures, and extrusions shall be fabricated of ALL aluminum construction using alloys consistent with the load requirements of the vehicle. Overall vehicle length, including bumpers, shall be 23'. Overall vehicle height, ground to top of module, shall be approximately 109". All ambulance bodies shall be manufactured on site.

Bidder Complies YES_____ NO_____

CHASSIS

The chassis shall be a Ford Model E-450 cutaway van, 2009 model year.

Bidder Complies YES_____ NO_____

The chassis shall include the Ford Ambulance Prep Package #47A and be modified to meet the Ford QVM standards.

Bidder Complies YES_____ NO_____

Gross Vehicle Weight Rating: 14,500 LBS

Bidder Complies YES_____ NO_____

Wheelbase: 158"

Bidder Complies YES_____ NO_____

Cab to Axle Dimension: 100"

Bidder Complies YES_____ NO_____

Front Sway Bar:

The standard OEM front axle sway bar shall be removed and replaced with a sway bar made of 4140 "chromoly" steel with bushings made of polyurethane. A Roadmaster brand front axle anti-sway bar is preferred.

Bidder Complies YES_____ NO_____

Rear sway bar:

The standard OEM rear axle sway bar shall be removed and replaced with a sway bar made of 4140 "chromoly" steel with bushings made of polyurethane. A Roadmaster brand rear axle anti-sway bar is preferred.

Bidder Complies YES_____ NO_____

Wheel covers:

Polished stainless steel wheel inserts shall be provided for all outside wheels. They shall be removable without removing the lug nuts. Rear wheels shall include stainless steel braided valve stem extensions with stabilizers for both the inside and outside tires.

Bidder Complies YES_____ NO_____

Spare tire:

The OEM spare tire shall be shipped loose.

Bidder Complies YES_____ NO_____

Side View Mirrors:

AMBULANCE BID SPECIFICATIONS

Velvac Model 2020 deluxe heated and motorized side view mirrors shall be supplied. Mirrors shall be black in color and have a built in turn signal on each arm.

Bidder Complies YES_____ NO_____

AM/FM Radio:

Manufacturer O.E.M. AM/FM/CD stereo radio shall be installed with two speakers in the driver's cab and shall include a digital clock.

Bidder Complies YES_____ NO_____

Throttle Manager:

A low voltage throttle manager shall be installed as part of the ambulance package. All safety interlocks must be in place for the manual throttle to activate the high idle function.

Bidder Complies YES_____ NO_____

Hand Held Cab Spotlight:

There shall be a 400,000-watt candlepower "Optronics Blue-Eye" hand held spot light located in the vehicle cab. A "Rhino" covered open top box large enough to accommodate the hand held spot light shall be supplied.

Bidder Complies YES_____ NO_____

Switch Panel Console:

A custom driver's control panel console shall be installed on the chassis engine cover. This console shall be designed to allow easy access from either cab seat. This console shall be manufactured from a color coordinated Polymer and then vinyl wrapped for a softer appearance. The console shall provide space for a front control panel, a siren area, a radio control area, and dual cup holders.

Bidder Complies YES_____ NO_____

Rear Tire Chains:

The ambulance vehicle shall be prewired for the future installation of an automatic tire chain device.

Specify Compressor Location: D-2 Compartment/Lower Left Corner. (Include Mesh Cover Over The Pump).

Specify Switch Location: Top Of Floor Console/Driver's Side. (Right Side of the Air Horn Switch).

Bidder Complies YES_____ NO_____

Battery:

The ambulance shall be equipped with dual Optima yellow-top batteries. The batteries shall have a minimum of 800 CCA.

Bidder Complies YES_____ NO_____

Owner's Manual:

A complete ambulance manufacturer's owner's manual shall be included with vehicle. The manual will include wiring diagrams as well as a wiring narrative about the vehicle. Also included will be all additional manufacturer instructions from options provided.

Bidder Complies YES_____ NO_____

Audible Alarm:

One (1) audible alarm(s) shall be mounted in the cab area.

Specify Function: Parking Brake

Alarm to Sound When the Unit Is Placed Into a Drive Gear.

AMBULANCE BID SPECIFICATIONS

Bidder Complies YES_____ NO_____

Cab Floor:

The O.E.M. chassis shall have a rubber floor matting installed

Bidder Complies YES_____ NO_____

Custom Chassis Option

Install Custom Map Tower on the Cab Side of the Lower Pass-Thru Area Cabinet. To Include 4-5 Angled Removable Polycarbonate Dividers. Use 1/2 x 1/2 Aluminum for Polycarbonate Slides ILO Plastic Stick On.

Bidder Complies YES_____ NO_____

*** MODULAR BODY ***

Module Body Construction

All body panels, structures, and extrusions shall be fabricated of ALL ALUMINUM construction using alloys consistent with the load requirements of the vehicle. Exterior body sides and ends shall be fabricated from .125" thickness 5052-H32 single flat sheet aluminum, a highly corrosive resistant marine grade alloy with 2.5% magnesium and having a tensile strength range of 31,000 to 35,000 P.S.I. All exterior aluminum body panels shall be attached using a perimeter weld and high performance polyurethane two sided tape on all interior supports.

Bidder Complies YES_____ NO_____

Module Mounting

The cutaway module shall be mounted using ladder frame cross members and Ford OEM rubber spacers with steel sleeves. A minimum # 5 grade bolt and locking nut provided with chassis shall be used. There shall be a minimum of 12 mounting points. These mounting points shall utilize existing OEM frame rail holes whenever possible. An extruded EPDM closed cell cab sponge seal shall then be attached to the rear of the cab opening to seal the opening between the module and cab. This flexible seal shall be installed as one continuous piece. The chassis cutaway shall be securely bolted to module by a minimum of 39, 1/4" diameter bolts with KEPS nuts. This Mounting system meets all Ford and FMVSS requirements and shall be the only mounting system allowed. Other mounting systems shall not be allowed due to their noise and vibration transmission into the modular body.

Bidder Complies YES_____ NO_____

Framing

Body wall vertical framing shall consist of 2" x 2" x .125" and 2" x 3" x .125" aluminum extruded tubing of 6063-T6 alloy (6063-T6 is a highly corrosive resistant alloy with 1% magnesium and .6% silicone with a tensile strength range of 31,000 to 35,000 P.S.I.). A minimum 2" x 3" x .125" aluminum tube shall be installed fore and aft of the rear wheel well housings and at the rear of the module.

A horizontal 2" x 3" x .125" extruded tube shall be utilized at the lower edge. A 2" x 2" x .125" tube shall be utilized as a minimum at the midline of all walls to provide superior impact protection. Each side wall shall have at a minimum six horizontal tube supports.

Vertical aluminum radius-type corner extrusions, of a hollow core design, utilizing 6063 T5 alloy, which interlock with the body side sheets and vertical framing shall be utilized. These corner post extrusions must include an integral X-frame running full length of the extrusion for added impact resistance. 2" x 2" x .125" and 2" x 3" x .125" (where applicable) extruded tubes shall be welded to the outside of the X-frame on either side of the corner post extrusion to complete a 7.5" radius corner post design.

Compartment and patient door jam framing shall be made from a minimum 2" x 2" x .125" 6063-T5 extrusions. At the rear of the body a minimum 2" x 3" x .125" 6063-T5 extrusion shall be used. The exterior lip will be flush with the exterior wall skin when installed. The door frame extrusion will be continuously welded to the wall skin and the minimum two inch square framing extrusion around the exterior perimeter. The door jam trim shall also be welded on the interior side where each door pin is located.

AMBULANCE BID SPECIFICATIONS

All seams shall be sealed and caulked.

Bidder Complies YES_____ NO_____

Roof

The roof shall be one piece .090 sheet, 5052-H32 alloy, which is supported by a grid consisting of a minimum 4" x 2" x .150" channel with .230" flanges running longitudinally and 4" x 2" x .125 "hat channels extending transversely from the longitudinal channel to the roof frame extrusions. These hat channels shall be spaced no more than 18" apart. The minimum 4" x 2" x .150" center spine channel shall also function as a wiring raceway. Aluminum plates shall be welded between each "hat channel" to provide support for all ceiling mounted hardware. The roof frame extrusions and corner extrusions shall be the reinforced type, hollow core design. All roof rail extrusions shall be 6061-T6 alloy. No radius corners consisting of a rolled sheet will be accepted.

The roof extrusions shall incorporate a drip rail on all four sides of the body. The roof shall be crowned 1/2" to facilitate water run off. The roof sheet shall interlock with the roof frame extrusions. The roof shall be insulated with two inch plank foam and include a four millimeter vapor barrier.

Bidder Complies YES_____ NO_____

Interlocking and Insulated Modular Floor Base

The floor shall be engineered using interlocking .125" 6063-T6 alloy aluminum extrusions set at a 90 degree angle from the frame rails thereby minimizing the twist felt in parallel mounting systems.

These extrusions shall form a full two inch thick sub floor.

The .125 floor extrusion shall consist of a "C" channel with hollow "V" joint receptacle on one end and an extruded solid "V" edge which mates with the hollow "V" receptacle on the adjoining extrusion.

When the solid "V" edge of one piece is inserted into the hollow "V" receptacle of another, the toothed leg shall lock to form one side of the 2" tubular frame. These integrated extrusions shall form the sub floor with interlocking 2 x 2 tubes every ten inches. A minimum 2 x 3 aluminum angle shall run lengthwise and be welded to each interlocking extrusion.

The floor extrusion shall be welded both on top and on the bottom.

The voids between the 2" x 2" frame members shall be filled with 2" foam plank insulation.

To help dissipate noise and temperature, the bottom side of the sub floor shall be covered by a sheet of .050" aluminum with sealed seams and then undercoated, thus providing a smooth 2" thick integrally insulated double aluminum floor. Insulation sprayed directly onto the underside of the floor shall not be acceptable.

Bidder Complies YES_____ NO_____

Modular Body Warranty

A lifetime, modular body structural, warranty shall be provided. Lifetime is defined as no maximum mileage or time limit.

Bidder Complies YES_____ NO_____

Modular body construction methods and materials must be certified in compliance with AMD Standard 001, "Static load test for ambulance body structure".

Bidder Complies YES_____ NO_____

Undercoating

After the body is assembled, all under body surfaces are to be heavily coated with automotive grade petroleum based undercoating to protect against road salts and to provide additional sound deadening.

AMBULANCE BID SPECIFICATIONS

Bidder Complies YES_____ NO_____

KKK Package:

The ambulance shall include the following required components; 1 Electric oxygen solenoid, 1. Oxygen minder, 1.Oxygen regulator, 1. Suction rinse bottle, 2. Five pound fire extinguishers, 1. Oxygen wrench, 1. Oxygen flowmeter, 1.Additional 115-volt electric outlet (three total), 2. Button style IV holders.

Bidder Complies YES_____ NO_____

Finished Headroom:

The interior of the patient compartment will provide no less than 72 inches of finished headroom from floor to ceiling.

Bidder Complies YES_____ NO_____

Cab to Module Bulkhead Wall:

The cab to module bulkhead wall shall be recessed a minimum of six inches and made of a five-ply marine-grade plywood. It shall then be covered with a 050" aluminum panel wrapped in heavy-duty vinyl.

Bidder Complies YES_____ NO_____

Pass-Thru Window:

A chassis cab to modular body pass through window to the patient compartment shall be provided. It shall be a minimum of 18" wide. This window shall have a latch that latches open and closed only from the cab side. A track shall provide rattle free operation. The window shall be lockable from the cab side.

Bidder Complies YES_____ NO_____

Vents:

There shall be a minimum of three Perko style intake and exhaust vents mounted high on the ambulance body.

Bidder Complies YES_____ NO_____

Wheel Well Trim Rings:

There shall be CPI polished, solid, cast aluminum, three-piece fenderettes installed around the rear body cutout above the rear wheels. These housings shall provide an aesthetically pleasing rounded opening as well as provide impact and paint protection.

Housings shall attach to the modular body utilizing stainless steel bolts with barrier tape and "ECK" applied between the dissimilar metals. Fasteners shall not be exposed. FORMED SHEET METAL, RUBBER, OR FIBERGLASS FENDERS ARE NOT ACCEPTABLE.

Bidder Complies YES_____ NO_____

Fuel Fill Housing:

Chassis OEM fuel-fill assemblies shall be utilized. A cast aluminum fuel fill protector shall be recessed into the body above and behind the street side rear wheel well.

Bidder Complies YES_____ NO_____

*** MODULE DOORS AND WINDOWS ***

Module Entry Door Reflectors:

There shall be two (2) model number B491R red reflectors mounted on each module entry door.

Bidder Complies YES_____ NO_____

Module Entry Doors

There shall be entry doors on the curbside and the rear of the patient compartment. The entry doors shall be recessed into the extruded frame. The entry doors shall be of an extruded pan formed labyrinth style. They shall be a minimum of three inches thick. In addition to the extrusions reinforcing each outer door pan, the extrusions themselves shall be reinforced through a dual joining method. Each mitered corner, where the framed corners join, shall be fitted with an angled gusset and an exterior .125 door pan. The entire corner shall then be welded and finished smooth. All doors shall include a 2" foam plank insulation and a four mil. vapor barrier. Doors that employ square tube and box pan sheet construction are not acceptable.

Bidder Complies YES_____ NO_____

Protective Padding

There shall be protective pads directly above the side and rear doors. These pads shall be a minimum of 2" thick and shall be constructed of high-density foam and heavy-duty vinyl. No piping shall be used and all seams shall be sealed to repel contaminants. The cushions shall be installed with industrial grade plastic hook and loop Velcro allowing easy removal for cleaning. Pads over entry doors shall extend below the Nadar pins to prevent serious head injury. These pads shall be trimmed on the exterior side with stainless steel.

Bidder Complies YES_____ NO_____

Insulation

All entrance doors shall be fully insulated with 2" foam plank insulation. Entrance doors shall also be finished with a 4-mil polyethylene vapor barrier.

Bidder Complies YES_____ NO_____

Door Seals

The door seals must be EPDM hollow core and provide a 360-degree uninterrupted seal with a full 1/2" of compression. Door latches shall be inboard of the seal, therefore protecting latches from dirt, moisture, and weather deterioration. NO EXCEPTION ALLOWED.

Seals shall be mounted in a way to protect them from abuse. All door latch Nadar pins shall be adjustable.

Inner and outer sills of the entrance doorframes shall be trimmed with formed, brushed stainless steel plates to protect painted surfaces. They shall be applied with adhesives. No mechanical fasteners may be used.

Bidder Complies YES_____ NO_____

Door Hardware

Each modular body entrance door shall be equipped with two heavy-duty rotary latches to meet FMVSS 206 standards.

Each rotary latch shall close on a post (Nadar pin) mounted to the doorframe extrusion. A minimum 2" x 2" x .125" frame member shall be placed behind the extrusion for positive two point latching.

Both rear doors must latch onto the doorframe.

All door latch posts shall be adjustable.

A continuous Clean Seal #50512 door gasket shall be installed 360 degrees around the entire door.

Stainless steel sill plates shall be installed on all inner and outer doorsills.

Each door shall have a continuous three inch stainless steel hinge with a .250" pin.

Hinges shall be slotted for adjustment and attached to the door with .250" stainless steel bolts for easy removal. Hinges shall also be bolted to the module body frame. The use of rivets or self-taping screws/bolts will not be acceptable. A dielectric barrier to include "Eck" and anti-corrosive tape shall be provided between the hinge and the door-frame.

AMBULANCE BID SPECIFICATIONS

Bidder Complies YES_____ NO_____

Module Side Entry Door:

The side entrance door shall be equipped with a heavy-duty gas dampening hold open device that shall hold the door open at 90 degrees.

Bidder Complies YES_____ NO_____

Side Entry Door

The side patient entry door shall have a threshold with non-slip tape installed.

Bidder Complies YES_____ NO_____

Side Entry Door Window:

Side entry door shall be equipped with a manufacture sized 16" x 20" sliding, tinted safety plate window in an aluminum frame.

Bidder Complies YES_____ NO_____

Rear Module Doors:

The ambulance module shall have the maximum allowable pass thru height at rear doors. The rear doors shall also have Grabber style hold opens with replaceable rubber catches.

Bidder Complies YES_____ NO_____

Rear Entry Door Window:

Rear entry doors shall be equipped with a manufacturer sized 16" x 20" non-opening, tinted safety plate window in an aluminum frame.

Bidder Complies YES_____ NO_____

Door Latches:

Doors shall be equipped with stainless steel, slam style paddle handles. (A Tri-Mark 30-8 latch is preferred.) A nonskid easy-grip surface shall be applied to the backside of the handle to permit a gloved or wet hand from easily gripping the handle. The right rear and side entrance doors shall be lockable from inside or outside.

There shall be a rubber gasket installed between the paddle handle and the door. All screws shall be coated with an anti-corrosive paste prior to application. All entrance doors and exterior compartment doors shall be keyed alike.

Bidder Complies YES_____ NO_____

Rear Door Latch:

The secondary rear door shall have both an interior and exterior paddle latch.

Bidder Complies YES_____ NO_____

Door Latches:

All exterior module doors shall have a pre-stressed shielded cable as the means to activate door latches and door rotaries. The shielded cable shall have machine crimped ends. The ends shall be crimped at a 100 psi setting and be subject to a minimum 175 peak load, lbf. "Locktite" shall be applied on both ends.

Bidder Complies YES_____ NO_____

Door Panels:

All module door interior panels shall be installed using stainless steel, fine thread, flathead machine screws with locking cage nuts. All areas that will not accommodate a cage nut shall be a minimum quarter inch thick and be tapped. The use of self tapping screws will not be allowed.

AMBULANCE BID SPECIFICATIONS

Bidder Complies YES_____ NO_____

Door Panels:

Each modular body entrance door shall have a removable .100" aluminum inside access panel to facilitate latch adjustment or repair. The lower interior panel shall be .100 polished, bright aluminum tread plate. All upper interior door panels shall be .100" aluminum covered with laminate.

Bidder Complies YES_____ NO_____

Stepwell:

A formed aluminum side entrance doorstep shall be recessed into the body and be lined with bright aluminum tread plate on all exposed surfaces. The stepwell shall be lighted.

Bidder Complies YES_____ NO_____

Side Body Window:

There shall be a sliding window installed in the side of the module body. The window shall be a minimum of 30" x 16".

Bidder Complies YES_____ NO_____

Privacy Panel

The side body module window shall have a single section sliding privacy panel with marker board installed.

Bidder Complies YES_____ NO_____

*** EXTERIOR COMPARTMENTS ***

Module Exterior Compartments:

The exterior compartments shall be formed from a minimum .090" aluminum sheet above the floor line and a minimum .125 aluminum sheet below floor line. The compartments shall be welded to the body floor and sidewall structure for strength and rigidity. All corner seams shall be welded and caulked.

Bidder Complies YES_____ NO_____

Compartment Dimensions:

In order to facilitate common storage locations for all equipment, all compartment dimensions shall be the same as the purchaser's newest ambulance, unless otherwise stated. Newest ambulance is available for inspection during normal business hours. Please call to schedule an appointment.

Bidder Complies YES_____ NO_____

Reflectors

There shall be two model number B491R red reflectors mounted on each full height compartment door. One mounted at the top and one mounted at the bottom. One reflector mounted on each standard height compartment door.

Bidder Complies YES_____ NO_____

Module Compartment Doors

All doors shall be a minimum of 3" thick, framed by aluminum extrusions of labyrinth design. The door jam extrusions shall be made from 6063-T5 aluminum. The door frame extrusion will be continuously welded to the wall skin and a minimum, two-inch square framing extrusion. In addition to the extrusions reinforcing each outer door pan, the extrusions themselves shall be reinforced through a dual joining method. Each mitered corner, where the framed corners join, shall be fitted with an angled gusset and an exterior .125 door pan. The corners shall then be welded and finished smooth.

The compartment door jam shall be welded to a minimum 2" x 2" tube. The door jam trim shall also be welded on the interior where each door pin is located. All doors shall mate with the doorframe extrusion, forming a gasket area for the

pneumatic door seal. The exterior door panels shall be formed to surround the extruded perimeter framing and be welded in place. Door corners shall be welded and ground smooth. The maximum space between each of the three quarter welds shall be fifteen inches. Interior panels shall be recessed into the extruded frame and screwed into place using stainless steel flat head machine screws and locking cage nuts. All areas that will not accommodate a locking cage nut will have screw holes taped into a minimum quarter inch aluminum.

Bidder Complies YES_____ NO_____

Compartment Door Hardware

Doors shall have rotary latches with stainless steel, slam style paddle handles. A nonskid easy-grip surface shall be applied to the backside of the handle to permit a gloved or wet hand from easily gripping the handle.

There shall be a rubber gasket between the paddle handle and the door. All door latch posts shall be adjustable. All compartment doors shall be lockable and keyed alike.

A continuous Clean Seal #50512 door gasket shall be installed 360 degrees around the entire door.

Stainless Steel sill plates shall be installed on all inner and outer doorsills.

All doors, except the battery compartment, and the rear oxygen storage door (if applicable) shall have a heavy-duty gas dampener style hold open device.

The battery compartment, as a minimum shall open near 180 degrees. It shall be equipped with rubber bumpers to protect the doors and finish.

Each door shall have a continuous stainless steel hinge with a .250" pin. Hinges shall be slotted for adjustment and attach to the door with .250" stainless steel bolts for easy removal. Hinges shall not be riveted to body or doors. A dielectric barrier to include both "Eck" and an anti-corrosive tape shall be provided between the hinge and the door-frame. All single compartment doors on sides shall be front hinged for safety and convenience.

All doors taller than the belt line shall have two (2) latches and Nadar pins.

Compartments requiring double doors shall provide frame latching for the second door. Each door shall have an exterior latch.

Bidder Complies YES_____ NO_____

Door Seals

The door seals must be EPDM hollow core and provide a 360 degree uninterrupted seal with a full 1/2" of compression. Door latches shall be inboard of the seal, therefore protecting latches from dirt, moisture, and weather deterioration. NO EXCEPTION ALLOWED.

Seals shall be mounted in a way to protect them from abuse. All door latch Nadar pins shall be adjustable.

Inner and outer sills of the compartment doorframes shall be trimmed with formed brushed stainless steel plates to protect painted surfaces. They shall be applied with adhesives. No mechanical fasteners may be used.

Bidder Complies YES_____ NO_____

Venting

In order to prevent airlock inside compartments, all exterior equipment storage compartments shall be vented. There shall be two stainless steel vents in each compartment, one left side, and one right side. All vents shall be above the floor line to prevent dust from entering the compartment. The only exception (unless otherwise specified) shall be the oxygen compartment, which may have a vent in the door and/or below the floor line. All vents below the floor line shall have a scotch-brite style filter installed to help prevent moisture and dust from entering the compartment. Other vents in compartment doors will not be acceptable.

AMBULANCE BID SPECIFICATIONS

Bidder Complies YES_____ NO_____

Door Panels:

All exterior compartment door panels shall be polished diamond plate aluminum. They shall be recessed into the door extrusion and attached with stainless flathead screws and locking cage nuts. All areas where a locking cage nut cannot be applied, a stainless steel machine screw will be taped into a minimum .250 aluminum.

Bidder Complies YES_____ NO_____

Door Switches:

Door jam switches for interior lights, exterior compartment lights, door ajar lights and rear load lights shall be magnetic style with ground wire activated relays to eliminate hot wires running in door jams.

Bidder Complies YES_____ NO_____

Exterior Compartment Lining:

All exterior compartments shall be lined with a 100% solid elastomeric polyurethane coating. This coating shall have a minimum thickness of .0625" in low wear areas and .125" to .188" in all other areas. The material shall be nonporous and allow for easy cleaning. It must be highly resistant to scratching and scuffing.

The minimum performance specifications for this coating material are:

- | | | |
|----|---------------------|-------------|
| 1. | Shore "A" Hardness | 85 - 90 |
| 2. | Specific Gravity | 1.10 |
| 3. | Tensile Strength | 2,200 PSI |
| 4. | Elongation at Break | 330% |
| 5. | Tear Strength | 430 pounds |
| 6. | Melting Point | 300 degrees |

This material shall be sprayed on all compartment surfaces and finished in a mottled texture to minimize slippage, provide a water/air tight seal and to provide superior noise suppression. Elastomeric Polyurethane (Rhino) Lining will not crack, peel or warp and will resist scratches. The color of this material shall be medium gray.

Bidder Complies YES_____ NO_____

Compartment Lights:

All exterior module compartments except the battery compartment shall have recessed Whelen 2" Round L.E.D. compartment lights.

Install (2) In Each Exterior Compartment except D-2 and D-3. D-2 And D-3 Compartment Will Each Have (4) Lights Due To The Shelves.

Part #T0CACCCR 2" Round LED Compartment Light
Surface Mount Chrome Flange #TFLANGEC

Bidder Complies YES_____ NO_____

Compartment Vents:

All exterior compartments shall be vented using a 5.5" x 12.25" vent cover. All vents shall be installed above floor line. The only exception shall be the oxygen compartment.

Bidder Complies YES_____ NO_____

P-1 Curbside Compartment

There shall be a curbside front backboard compartment.

Includes Fixed Vertical Divider And Horizontal Shelf.

Install The Vertical Divider to allow for a 8.5" wide pocket for stair chair.

Install The Horizontal Divider On The Right Side. Install Horizontal divider 41" up from floor of compartment.

AMBULANCE BID SPECIFICATIONS

Door Height Adjusted To Just Below The Warning Light Level.
Compartment to Be Full Height on the Interior.
20.75" Deep Compartment ILOS.

Bidder Complies YES_____ NO_____

P-2 Curbside Compartment
The Curbside front inside / outside compartment shall be full height.

Bidder Complies YES_____ NO_____

Compartment Shelves
The inside / outside right front cabinet shall have one fixed and two adjustable wood shelves. The shelves shall be covered with laminate

(1) Adjustable In the Upper Section.
(1) Adjustable In the Lower Section.

Bidder Complies YES_____ NO_____

Cabinet Lining
The Inside / Outside right front cabinet shall have a smooth interior laminate lining.

Bidder Complies YES_____ NO_____

P-3 Battery Compartment
There shall be a curbside front exterior battery compartment with slide out tray. It shall be capable of holding a minimum of two batteries. The bottom hinge of the door shall have a stainless guard attached.

Bidder Complies YES_____ NO_____

P-5 Curbside Rear Compartment
There shall be a curbside double door rear compartment.

Bidder Complies YES_____ NO_____

D-1 Streetside Compartment
There shall be a full height streetside front storage compartment.

Door Height Adjusted To Just Below The Warning Light Level.
Compartment to Be Full Height on the Interior.
19.5" Wide (ID) Compartment.

Bidder Complies YES_____ NO_____

D-2 Streetside Compartment
There shall be a double door streetside front intermediate storage compartment.

Floor Is Raised Due To Aux A/C Condenser.
Height Raised To 33" ILOS.

Bidder Complies YES_____ NO_____

D-3 Streetside Rear Compartment
There shall be a streetside double door rear compartment.

Bidder Complies YES_____ NO_____

Shelves

There shall be one (1) diamond plate adjustable shelves installed. Each shelf shall have two inch lips and a ribbed rubber shelf matting.

Specify Compartment:

(1) D-2 Compartment.

Bidder Complies YES_____ NO_____

Vertical Divider

There shall be one (1) fixed .125 inch "Rhino" covered aluminum vertical divider(s).

Specify Compartment:

(1) D-1 Compartment 6" From Wall #1.

Bidder Complies YES_____ NO_____

Shelves

There shall be one (1) fixed diamond plate shelf(s) with two inch lips installed.

Specify Compartment:

(1) D-3 Compartment. 6.75" Deep Shelf Mounted Just Above Full Depth Section Of Compartment.

Bidder Complies YES_____ NO_____

Inside/Outside Compartment

The P-5 compartment shall have inside / outside access.

Bidder Complies YES_____ NO_____

Compartment Straps

Three (3) compartment(s) shall have a set of equipment straps installed.

2" Strap with Seat Belt Buckle ILOS.

Specify Compartment Location:

(1) P-1 across Lower Section.

(1) P-1 across Upper Section

(1) P-1 across Upper Right Section Midway Between Horizontal Divider and Top of Door Jamb.

Bidder Complies YES_____ NO_____

Split Level Compartment

The D-3 compartment shall have split level depth, designed to accommodate bidder's equipment.

Specify Compartment:

(1) Upper D-3 Compartment Is 8" Deep ILOS.

Allows For Lower Rear Base Cabinet.

Bidder Complies YES_____ NO_____

***** REAR STEP AND BUMPER ASSEMBLY *****

Module Rear Bumper:

There shall be a heavy-duty bumper extending to each side of the step. The under carriage shall be constructed of 4-inch aluminum channel and tubing, bolted to the body and the chassis frame rails with a minimum of eight bolts. The bumper

AMBULANCE BID SPECIFICATIONS

framing shall be reinforced with an additional 4 inch aluminum support coming out from the chassis frame rails at a 45-degree angle to the outside corners of the bumper.

There shall be a 45" wide by 10" deep passenger step at the rear of the body. It shall be constructed of open face "Grip-Strut" safety grating, rigidly framed and supported. The rear step shall be hinged to allow it to be folded against the rear of the body.

End sections outboard of the step shall be covered with aluminum diamond tread with all corners TIG welded. The outside corners of the covers shall be tapered 15-degrees to minimize bumper dragging. Two heavy-duty rubber dock bumpers shall be installed on the outer face of the diamond plate bumper pod.

Bidder Complies YES_____ NO_____

Rear Kick Panel:

The vertical surface at the rear of the modular body between the rear step and the floor of the patient compartment shall be faced with a full width 3003 diamond tread aluminum. The rear kick panel shall be attached using stainless flathead countersunk machine screws. The screws shall be tapped and applied with "ECK" prior to installation. The top edge of the rear kick panel shall be caulked using white auto body sealant.

Bidder Complies YES_____ NO_____

Custom Rear Step or Bumper Option

Install A Magnetic Proximity Switch In The Rear Step To Indicate When The Step Is In The Up Position. Install A Red LED Light In The Interior Rear Door Head Pad To Flash Whenever The Rear Step Is In The Up Position (See Section 45-02-30 For Light). Label The Light "REAR STEP UP". Wire This Circuit Hot To Batteries.

Bidder Complies YES_____ NO_____

*** IMPACT RAILS, STONE SHIELDS AND RUNNING BOARDS ***

Lower Impact Rails:

There shall be rigid, two piece 6063-T5 extruded, tubular, anodized aluminum 3" by 1.5" impact rails with cast aluminum end caps installed at the lower edge of each side of the body.

The impact rails are to be mounted to and reinforced by 3" x 2" x .125" rectangular aluminum tubes which shall be the lower structural members of the body framing. Rails shall be designed to absorb impact, minimize body damage, and to be easily replaceable.

For this reason, the lower body tube described above must continuously back all impact rails.

RUB RAILS MUST BE ALUMINUM TWO PIECE EXTRUSIONS. BREAK FORMED "C" CHANNEL OR OTHER FABRICATED RUB RAILS WILL NOT BE ACCEPTABLE.

RUB RAILS ATTACHED ONLY TO THE SKIN OR VERTICAL SUPPORTS WILL NOT BE ACCEPTABLE.

Bidder Complies YES_____ NO_____

Diamond Plate Running Boards:

Bright finished aluminum diamond plate running boards of .125 shall be installed on both the curb and street side of the cab doors. Running boards shall incorporate a center grip strut surface. The running boards shall include front splash shields and shall taper back to the full width of the modular body.

Bidder Complies YES_____ NO_____

LED Running Board Lights:

Running boards shall be illuminated by surface mounted LED lights. These lights shall be installed on the front of the module body.

AMBULANCE BID SPECIFICATIONS

Bidder Complies YES_____ NO_____

Mud Flaps:

The chassis shall have heavy-duty rear rubber mud flaps with metal stabilizers installed.

Bidder Complies YES_____ NO_____

Door Sill Plates:

All compartments and entry doors shall have stainless steel sill plates installed. These plates shall be secured without the use of screws or bolts.

Bidder Complies YES_____ NO_____

Drip Rails:

Polished aluminum drip rails shall be installed over all exterior compartment and modular entry doors. Drip rails shall be installed with double stick tape to prevent corrosion. Drip rails installed with screws shall not be acceptable due to the likelihood of corrosion from dissimilar metals.

Use 1 Piece Section Over The P-1/P-2 Compartments.

Bidder Complies YES_____ NO_____

Front Stone Guards:

There shall be diamond tread aluminum stone shields 24" high wrapped around each front corner of the body and extending into cab depth. The edges shall be sealed.

Bidder Complies YES_____ NO_____

Rear Stone Guards:

There shall be diamond tread aluminum rear corner stone shields at rear kick plate height installed. The edges shall be sealed.

Bidder Complies YES_____ NO_____

Fuel Fill Plate:

Chassis OEM fuel-fill assemblies shall be utilized. When necessary cast aluminum body fuel fill protectors shall be recessed into the body above and behind the street side rear wheel well. There shall be a diamond plate guard mounted under the fuel fill area.

Bidder Complies YES_____ NO_____

*** ELECTRICAL SYSTEM ***

Generating and Control Systems

The electrical system shall be a Transportation Safety Technologies (TST), PDC System 750. A Microprocessor based electrical system with driver's and attendant's control centers. Only systems manufactured independently will be considered. This requirement assures two sources for repair and replacement. NO SYSTEMS MANUFACTURED BY THE AMBULANCE MANUFACTURER WILL BE CONSIDERED.

Bidder Complies YES_____ NO_____

The vehicle electrical system supplied shall have been in active field service for a minimum of five years. The proposed system shall also have a minimum of five-hundred active systems currently in use. NO SYSTEMS WITH LESS THAN FIVE YEARS OF INFIELD USE WILL BE ACCEPTED.

Bidder Complies YES_____ NO_____

The electrical system modules shall be designed for simple, quick replacement. The system shall incorporate a fully programmable design allowing the user to select and define how the system will operate now and into the future.

All electrical and electronic components shall be selected to minimize electrical loads thereby allowing the vehicle's generating system to not only meet the vehicle's electrical load requirements but to maintain an adequate reserve generating capacity. The system shall include automatic load management and automatic high idle control.

Bidder Complies YES_____ NO_____

System Design

The Electrical System shall be designed to continuously monitor all electrical conditions and interlocks, therefore preventing inadvertent operations, or accidental activation of its features. The entire system shall be program configurable to provide lock out security for only authorized access.

The system shall be designed to conduct real-time diagnostics, comparing the configuration memory against that which actually makes up the system. This diagnostic shall test each element of the system and report, or alert any discrepancies. The reports shall include as a minimum, 1) open circuits, 2) manual bypass, and 3) load shed. The alerts shall be incorporated into each switch through an LED indicator. All configuration data shall be stored in a nonvolatile electrically erasable memory. This storage will insure, that any programmed memory not be lost if there is a complete system power failure. The system shall incorporate four RISC (reduced instruction sets commands) and provide for a simple, flexible operation.

The system interface board shall provide for the diagnostic troubleshoot of all input and output functions. Thereby helping to eliminate the need for auxiliary volt/amp meter testing equipment.

Bidder Complies YES_____ NO_____

The Electrical System shall have on board protections, which shall be utilized to provide immunity from transients, over-current and voltage, RFI/EMI interference, and spurious signals that might negatively influence the systems performance.

All inputs and outputs shall be scanned and updated (8) eight times per second to provide an immediate response and insure that all activations were intentional.

The Electrical System shall further provide for user programmable audio responses for all critical functions, warnings and alerts. The tone volume of each audio response shall be fully programmable.

The electrical system shall incorporate status indicators that provide an operational status of all relays. Operational status shall include:

- 1) active relay 2) manual bypass 3) fault condition 4) off 5) load shed

Bidder Complies YES_____ NO_____

The Electrical System shall be designed to handle up to three different meter shunts. This design shall allow each alternator to be checked individually or in combination with the batteries.

The Voltmeter shall have alarm capability and provide both visual high/low and discharge alerts for voltage. The Voltmeter can use the same display as the Ammeter and be set up to display any of the three-meter applications (shunt 1, shunt 2, or, combination) or toggle between all readouts.

The voltmeter input shall be battery direct providing for an accurate state of the battery voltage level and be compatible with the TST, HECS (hall effect current sensor) 200 and 300 devices for inductive pick up of meter inputs

Bidder Complies YES_____ NO_____

AMBULANCE BID SPECIFICATIONS

The Electrical System shall be equipped to receive inputs for various controls. All chassis inputs, except battery power, connected to the Relay Control Board will be done through a dedicated connector for these circuits. LED status indicators will be provided to show whether these signals are present at the connector.

The module portion of the ambulance will have a battery disconnect on its circuitry, which will be controlled by the ignition switch "ignition" and "accessory" modes. The device that controls battery power to the module shall be a Commander 350 with "Extended Life Technology" or equivalent module with a five-minute delay timer built into it. The disconnect shall incorporate extended life technology.

Bidder Complies YES_____ NO_____

STANDARD FUNCTIONS SUPPORTED BY THE SYSTEM SHALL INCLUDE:

"Touch Tek" control panel switching
Switch Backlighting Intensity (Programmable)
Load Management with Alarm
Intelligent digital High/Low Voltage Monitoring, to include monitoring with time delay
Current Metering 200/300 Amp (also available for dual alternators)
Flexible Metering of Various Signal Types
Hall Effects Current Sensor Compatible
LED Diagnostics on the Power Distribution Board
Patient Door Open Warning (Both audible and visual)
Open Compartment Door Warning System (Both audible and visual)
Emergency Warning Lights (Individual or in Sequence Programmable)
Primary / Secondary Flasher Control
Light bar Control
Left, Right and Rear Flood Light Control w/override
Patient Compartment Lighting Control
Oxygen Control
N/Safety Interlock and Override (Programmable)
Load Sequencing Up and Down (Programmable)
Auto Throttle Control (non Ford products)
Master Power Control
Back Up Alarm, Interlock and Override Control
Left and Right Dome Light Control (LO, HI, OFF)
Single Speed Power Exhaust
Patient Status Indicators and Alarms (both front and rear)
Vacuum Pump Control
Inverter Control
Five-Minute Check out Light Control with Patient Door Open
Rear Climate Control Switching to include fan speed and temp. Control
Digital Thermostat (Climate Control)
Other (Spare's)

Bidder Complies YES_____ NO_____

All wiring and cable assemblies shall be totally encased in protective, convoluted, high temperature, 300-degree flame resistant, automotive type, polyethylene loom. Wiring which is routed near potentially sharp edges shall be protected by grommets. Wiring harness shall not run underneath vehicle.

Bidder Complies YES_____ NO_____

All wiring shall be permanently color-coded and permanently embossed with number and function codes, spaced every 4 inches on each wire.

AMBULANCE BID SPECIFICATIONS

Wiring labels that are glued or otherwise attached to the wire shall not be considered permanent and will not be acceptable.

Bidder Complies YES_____ NO_____

Circuits shall serve the ambulance body and accessory electrical equipment separate and distinct from the vehicle chassis circuits.

All wiring used shall be copper with SXL thermoplastic insulation rated to 150 degrees Centigrade. All splices and terminals provided shall comply with SAE J163, J561, or J928 as applicable.

Bidder Complies YES_____ NO_____

All wiring between the cab and module shall be connected to a terminal block located in a special wire terminal compartment with a hinged door for easy access.

This compartment shall be located on the interior of the module.

Bidder Complies YES_____ NO_____

The completed ambulance must meet or exceed AMD Standard 005, Ambulance 12-Volt DC Electrical System.

Bidder Complies YES_____ NO_____

Relay Control Board

The Relay Control Board shall consist of a minimum of (22) twenty-two socket mounted, replaceable "plug in style" automotive relays with status LED's provided to show proper operation of all relay outputs. An additional status LED shall be provided for each relay position to indicate that the relay coil is properly operating. Each relay contained on the Relay Control Board shall be circuit breaker protected using a field replaceable manual reset thermal circuit breaker. Each relay shall be equipped with an output feedback diagnostic used to provide dynamic status indicators on the front and rear panels for all relay activations.

All relays on the Relay Control Board shall be 30 amp. And shall be diode protected to prevent reverse polarity. Zener diodes shall be used to protect the system from excessive current and high voltage conditions.

The electrical system shall be able to allow for a second Relay Control Board to be added, therefore doubling the features of the standard electrical system.

All relays contained on the Relay Control Board shall have a bypass switches that will permit its output to be manually activated. Manual control of a relay shall be allowed to take place at any time during the systems operation and unlikely indicated on the front / rear control panels

Bidder Complies YES_____ NO_____

A copper 600 amp buss shall provide +12 volt DC input to a common input, for a mini-mum of (20) relay positions. Two relays on the Relay Control Board shall have all five terminals available for connection. These relays shall provide for total control of the relay coil and the type of input being transferred through the relay contacts. The normally open (NO) outputs for these relays shall be available through dual screw terminals located on the board. There shall also be a minimum of two spare relays. These spare relays shall have the ability to be either positive or negative in polarity and still provide the function the same status LED indicator as the standard relays.

The Relay Control Board shall feature a disconnect enable output that prevents loads from being "dumped" during shut down operation. Loads "on" during the shut down process shall be sequenced down automatically.

Bidder Complies YES_____ NO_____

Main Power Distribution Center (MPC)

AMBULANCE BID SPECIFICATIONS

The main electrical power distribution center shall be installed in an interior cabinet, in the front of the patient compartment, positioned to allow easy access for inspection or service. The cabinet shall be accessible only from the interior of the patient compartment to preclude exposure to moisture, dirt, and other debris.

Electrical Systems located in an exterior compartment shall be unacceptable due to weather damage.

Bidder Complies YES_____ NO_____

A complete Owner's/Operating/Service Manual shall be provided and mounted in the electrical cabinet for easy reference. It shall contain a complete set of wiring schematics, as well as a complete narrative description of each circuit in the ambulance manufacturer's electrical system. It shall also contain the owner's manuals for all add-on and after-market components supplied by the ambulance manufacturer.

Bidder Complies YES_____ NO_____

Alternator

See chassis specifications for description of alternators. Any alternator offered as part of an ambulance prep package by chassis manufacturer must be supplied. These alternators must be installed and covered under warranty by chassis manufacturer.

Bidder Complies YES_____ NO_____

Battery System

The battery compartment shall be sealed off from the patient compartment, exterior compartments, and cab. Battery cables shall be a minimum of 1/0 gauge. All battery cables shall be run in flexible conduit. See chassis specification for description of size, number and location of batteries

Bidder Complies YES_____ NO_____

High Idle Control

A Manufacturer's throttle control device or equivalent shall be installed. It shall be preset so that when activated it will operate the engine at a speed necessary to maintain proper system voltage. The device shall operate only when the vehicle is in "park" and the parking brake is engaged. The device shall disengage when the service brake pedal is depressed or the transmission is placed in gear. The device shall automatically reengage when the service brake is released or the vehicle is again placed in "park" and the parking brake engaged. (When allowable, the above the throttle system shall interface with the 750 system)

Bidder Complies YES_____ NO_____

Ground Straps

A single ground connection shall exist between the System and the vehicle chassis. Two copper-strand, plated, woven type ground straps with crimped and soldered lugs shall be installed between modular body and chassis frame.

Two copper-strand, plated, woven type ground straps with crimped and soldered lugs shall be installed between cab and chassis frame.

One copper-strand, plated, woven ground strap with crimped and soldered lugs shall be installed between the engine and the chassis frame.

Bidder Complies YES_____ NO_____

Front Control Panel

The Front Control Panel shall incorporate LED backlighting with a cycle life of at least 1 million cycles for all switches and at least 100,000 hours for all high output LED's. The front control panel shall incorporate different color LED's for "on" indication of all switch functions. The high output different color LED's shall provide for clear "on" indication in various lighting conditions by actually changing colors when switch is turned on. A separate DIM switch shall permit a lower level of intensity for "on" indication during nighttime applications. All switch legend inserts shall be reverse embossed and field

replaceable. All switches shall incorporate conductive rubber technology. This technology shall allow for a tactile, visual, and audible response. The switch shall also allow touch contact at all areas and have the ability to be cleaned and disinfected when necessary.

Bidder Complies YES_____ NO_____

The Front Control Panel (FCP) shall have a Mylar color graphic to identify various functional groups on the panel such as warning switches, master control and accessories. The front panel shall offer fully programmable control for all Emergency Master functions. Any non-dedicated switch on the FCP can be programmed into the emergency master switch. At start up, the system switch indicators shall illuminate to provide confirmation that voltage is reaching the switch. The Module Power switch shall be the only switch to come on when the switch is activated. In addition to the visual "on" indication, a single audio response shall be generated to conform that a switch has been depressed. In the event that a fault should exist, an audio alert and an indicator shall flash. This fault indication shall denote and provide this alert should any connection or component within that circuitry fail, or the relay it contacts fails to close.

Bidder Complies YES_____ NO_____

The Primary and Secondary switches shall be mutually exclusive. Likewise, the Strobe Dim function shall be dependent upon the strobe lights being "on"

The backup lamp switch shall be a cut off for the back up alarm and shall automatically reset when the vehicle is taken out of the reverse gear. This switch shall be capable of being set prior to going in reverse, allowing the backup alarm to not activate.

Both banks of dome lights shall capable of being turned "off" from either the front or rear switch panels.

Bidder Complies YES_____ NO_____

The AC/Heat control shall have switches on both front and rear panels that control these system operations and include the fan function. The system shall allow the AC/Heat to be sequenced on when the Emergency Master is activated and stay on even when the Emergency Master is turned off. The AC/Heat shall be turned off by either the ignition off or the AC/Heat switch itself.

Bidder Complies YES_____ NO_____

The door ajar and compartment open indicators on the front panel shall flash anytime a door, or compartment is open. If an ignition signal is present, or when the transmission is removed from the "Park" position the flashing shall be further complimented with an audible alert.

Bidder Complies YES_____ NO_____

The patient status indicators (red, amber, green LEDs) shall also have different audible alerts that provide for attention to changes in the patient status state.

Bidder Complies YES_____ NO_____

The Mode switch shall allow the operator to select the type of display desired on the digital meter. This switch shall allow for the operator to select voltmeter, ammeter or a feature to toggle between these two-meter displays.

Bidder Complies YES_____ NO_____

Rear Control Panel

The Rear Control Panel, like the front, shall incorporate LED backlighting for all switches and high output different color LED's for "on" indication of all switch functions. The high output different color LED's shall provide for clear "on" indication by changing colors when the switch is turned on. All switches shall incorporate conductive rubber technology. This technology shall allow for a tactile, visual, and audible response. The switch shall also allow for over one million cycles and have the ability to be cleaned and disinfected when necessary.

The rear panel shall have three sets of indicators for the climate control system, one each for heat and A/C to indicate which mode is "on," and one each for fan speed indication.

The rear control panel shall incorporate a climate control digital display that can be factory set to read in either Centigrade, or Fahrenheit.

A 16' temperature sensor cable shall be provided to accurately measure temperature within the patient compartment. The thermostat shall be user settable, and by selecting the up arrow or the down arrow it shall switch controls and maintain the set point with or without the need for supply voltage. Once set, the climate control system shall switch from A/C to Heat operation automatically. The fan shall always be on when the A/C Heat Switch is "on", when the A/C Heat Switch is "off" the fan motor shall be "off". The fan speed shall automatically change from lo-med-hi based upon the differential in temperature from the preset point. For example, from 0-2 degrees either side of set point the fan speed shall be on low. From 3-5 degrees either side of set point the fan speed shall be on medium. Six (6) degrees either side of set point and the fan speed shall be in high mode. Three LED status indicators shall show which mode the fan is in at all times. A fan speed override switch shall be provided to manually adjust the fan speed to any level desired. The fan shall still be allowed activate without the A/C-Heat function being on. This shall allow the air to circulate within the patient compartment.

The Climate Control relay module shall incorporate five automotive style "plug in" relays. LED's shall provide the status of all relays.

Bidder Complies YES_____ NO_____

Check Out Light System

A Check out light relay shall be located on the Relay Module and be protected by a 15 Amp mini fuse. This relay is separate from the dome relays but can be connected in parallel to a dome relay allowing check out lighting to be turned on from either the check out relay, or dome light relay. The check out light relay shall receive power from the memory power input to the system.

The check out light feature shall operate when the Module power and ignition power are "off" and/or any entry door is open. The check out light relay will come "on" when it receives a signal from any patient door and remain on for 5-minutes regardless of whether the door(s) is left open or closed. The check out lights used shall be the right bank on high function.

Once the 5-minute check out timer cycle has begun the check out lights will immediately go "off" if the module power is turned "on". If a patient door is open when the module power is turned "on", the regular dome light relay will come "on". If the ignition is "on" and the module power is "off", the check out light relay turns "On" and "Off" when door(s) open and close. The interior dome light switch shall be able to override the door post switch.

Bidder Complies YES_____ NO_____

Warranty

The Electrical warranty shall be for a period of six years or 60,000 miles

Bidder Complies YES_____ NO_____

Dual Rear Control Panels

The Dual Rear Control Panels, like the front control panel, shall incorporate LED backlighting for all switches and high output different color LED's for "on" indication of all switch functions. The high output different color LED's shall provide for clear "on" indication by changing colors when the switch is turned on. All switches shall incorporate conductive rubber technology. This technology shall allow for a tactile, visual, and audible response. The switch shall also allow for over one million cycles and have the ability to be cleaned and disinfected when necessary. The dual panels shall function independently or individually.

Bidder Complies YES_____ NO_____

AMBULANCE BID SPECIFICATIONS

The rear panels shall have three sets of indicators for the climate control system, one each for heat and A/C to indicate which mode is "on," and one each for fan speed indication.

The rear control panels shall incorporate a climate control digital display that can be factory set to read in either Centigrade, or Fahrenheit.

A 16' temperature sensor cable shall be provided to accurately measure temperature within the patient compartment. The thermostat shall be user settable, and by selecting the up arrow or the down arrow it shall switch controls and maintain the set point with or without the need for supply voltage. Once set, the climate control system shall switch from A/C to Heat operation automatically. The fan shall always be on when the A/C Heat Switch is "on", when the A/C Heat Switch is "off" the fan motor shall be "off". The fan speed shall automatically change from lo-med-hi based upon the differential in temperature from the pre-set point. For example, from 0-2 degrees either side of set point the fan speed shall be on low. From 3-5 degrees either side of set point the fan speed shall be on medium. Six (6) degrees either side of set point and the fan speed shall be in high mode. Three LED status indicators shall show which mode the fan is in at all times. A fan speed override switch shall be provided to manually adjust the fan speed to any level desired. The fan shall still be allowed activate without the A/C-Heat function being on. This shall allow the air to circulate within the patient compartment.

The Climate Control relay module shall incorporate five automotive style "plug in" relays. LED's shall provide the status of all relays.

Specify Mounting Location:
Forward End of Bandage Cabinet.

Bidder Complies YES_____ NO_____

The backup lamp switch shall be a cut off for the back up alarm and shall automatically reset when the vehicle is taken out of the reverse gear. This switch shall be capable of being set prior to going in reverse, allowing the backup alarm to not activate.

Bidder Complies YES_____ NO_____

Auto Eject Shoreline
A 20 amp Kussmaul super auto eject device shall be provided which disconnects the shore power plug when the chassis ignition is energized.

The ambulance shall be equipped with a 2-wire plus ground 115 VAC wiring system that is separate and distinct from the vehicle's 12 VDC system. The 115V system shall incorporate a ground fault interrupter (GFI) device and shall have a 20 amp circuit breaker that can be used as a master disconnect switch. The exterior inlet shall have a hinged, heavy duty Hubble spring loaded inlet cover to prevent moisture. The inlet shall be located near the driver door on the ambulance body. The inlet shall be properly marked 115 VAC and shall be provided with a mating plug.

The interior duplex outlets shall have indicator lights at each outlet to indicate when 115 VAC power has been applied. Outlets shall be marked "115 VAC".

Specify Location: Mounted Above The D-2 Compartment.
Specify Inlet Cover Color: White.

Bidder Complies YES_____ NO_____

Inverter
A Vanner model number 20-1050 CUL, 1050 watt inverter with 55 amp. charger and display shall be supplied and installed. The inverter shall be equipped with an automatic transfer relay which disconnects the inverter when the shore power is applied. A remote on/off switch shall be provided in the attendant control panel.

Specify Remote Display Location: Action Area

AMBULANCE BID SPECIFICATIONS

Bidder Complies YES_____ NO_____

12-Volt Outlet

The patient action area shall be furnished with a 12-volt, Cigarette style outlet.

This separately protected circuit shall have one receptacle located in the action area. A Cigarette style connector with mating plug and polarity requirements shall be supplied.

This circuit shall also include a "SCHOTTKY" diode isolator with heat sink to isolate medical equipment and medical equipment batteries from any electrical loads that the remainder of the ambulance electrical system may impose.

Bidder Complies YES_____ NO_____

12-Volt Outlet

The right front stack (RFS) interior cabinet shall be furnished with a 12-volt, Cigarette style outlet.

This separately protected circuit shall have one receptacle located in the RFS area. A Cigarette type connector with mating plug and polarity requirements shall be supplied.

This circuit shall also include a "SCHOTTKY" diode isolator with heat sink to isolate medical equipment and medical equipment batteries from any electrical loads that the remainder of the ambulance electrical system may impose internal 12-volt power.

Bidder Complies YES_____ NO_____

115 Volt Outlet

An Interior duplex outlet shall be installed in the action area. An Indicator light shall be included at the outlet to indicate when 115v AC power has been applied. The outlet shall be labeled "115v AC". This 115v AC system, including wiring and associated equipment, shall comply with AMD Standard 009.

Bidder Complies YES_____ NO_____

115 Volt Outlet

An Interior duplex outlet shall be installed in the R.F.S. Cabinet. An Indicator light shall be included at the outlet to indicate when 115v AC power has been applied. The outlet shall be labeled "115v AC". This 115v AC system, including wiring and associated equipment, shall comply with AMD Standard 009.

Bidder Complies YES_____ NO_____

Engine Block Heater

There shall be an OEM engine block heater installed and wired thru a second 20-Amp Auto-Eject vehicle shoreline. A cab switch shall also be installed.

Wire To Additional Red Super Auto-Eject Shoreline ILOS.

Mount The ON/OFF Switch Behind The Driver's Seat (Label The Switch).

Bidder Complies YES_____ NO_____

Flashlight Circuit

There shall be two (2) 12 volt relay controlled power and ground circuit(s) for each flashlight.

Specify Location:

(1) Aisle Side of the Electrical Cabinet (Upper Section).

(1) Cab Floor between Seats.

Bidder Complies YES_____ NO_____

AMBULANCE BID SPECIFICATIONS

Flashlight

There shall be one (1) 12 volt model number SL-40 Streamlight(s) installed.

Specify Location: (1) Aisle Side of the Electrical Cabinet (Upper Section).

Specify Color: Orange

Bidder Complies YES_____ NO_____

Custom Electrical Option

Specify Custom Option: Install Dealer Supplied Rear View Camera Cables.

(1) Camera Cable from the Cab Floor Console to the Rear Door

Head Cushion Area.

Bidder Complies YES_____ NO_____

*** INTERIOR LIGHTING ***

Compartment Light

An oxygen compartment light shall be installed and controlled from the action area control panel.

Bidder Complies YES_____ NO_____

Step-Well Light

A step-well light shall be installed in the side door step-well. This light shall illuminate when the side door is open.

Bidder Complies YES_____ NO_____

L.E.D. Compartment Light

The patient compartment shall be illuminated, by a minimum of 8 Whelen # 80COEECR ceiling lights. These lights shall be mounted to .125 ceiling plates.

The left and right banks of lights shall each have their own "high" and "low" switch positions. The right bank "high" setting shall also be activated by doorjamb switches at the side and rear doors. A 5-minute timer shall activate one bank of lights on "high" when the battery switch is off.

Bidder Complies YES_____ NO_____

Interior Light

The patient action area shall have a 12-volt aircraft style dual swivel light installed.

Bidder Complies YES_____ NO_____

Interior Lights

Three (3) fluorescent overhead lights shall be installed in the ceiling of the patient compartment. They shall be evenly spaced down the center of the vehicle. These lights will be capable of operating on either 12 volt or 110-volt power when the vehicle shoreline is activated. Each light will have a separate switch for on/off operation, in addition a separate master on/off switch will activate all the fluorescent lights from the front bulkhead wall.

Bidder Complies YES_____ NO_____

Interior Light

The rear head cushion shall include one (1) chassis brake light indicator(s). These red light(s) shall be recessed into the rear head cushion and mounted to a .125 aluminum plate covered with vinyl.

Recessed Into The Center Section Of The Rear Head Cushion.

To Indicate That The Rear Step On Bumper Is In The Up Position.

AMBULANCE BID SPECIFICATIONS

(Recessed Truck-Lite LED 60 Red.)

Bidder Complies YES_____ NO_____

*** EXTERIOR LIGHTING ***

Stop/Tail Lights

There shall be Whelen 600 Series "LED" stop / tail lights with chrome trim bezels installed.

Use Whelen #60R00XRR Lights (Exceeds SAE Requirements).

Mounted Above The Rear Kick Plate.

Bidder Complies YES_____ NO_____

Turn Lights

There shall be Whelen 600 Series "LED" populated amber turn signals with chrome trim bezels installed. They shall be wired to flash sequentially in the direction of the arrow.

Mounted Above The Rear 600 Series LED Stop/Tail Lights.

Wire To Flash Sequentially In The Direction Of The Arrow.

Bidder Complies YES_____ NO_____

Turn Lights

There shall be additional Whelen 600 Series LED populated amber turn lights with chrome trim bezels installed. They shall be wired to flash sequentially in the direction of the arrow.

Specify Location: Mounted Below The Front Wall Outboard Warning Lights.

Wire To Flash Sequentially In The Direction Of The Arrow.

Bidder Complies YES_____ NO_____

Back - Up Lights

There shall be Whelen 600 Series Halogen backup lights with chrome trim bezels installed.

Mounted Below The 600 Series LED Stop/Tail Lights.

Bidder Complies YES_____ NO_____

Side Scene Lights

There shall be four Whelen 900 series LED 24 Diode #90COENZR scene lights installed. Two scene lights shall be installed on each side of the module body. They shall be located at the top of the module next to the warning lights. The light head refraction design shall create a flood of light and shall be optically projected at a downward angle approximately thirteen degrees from the horizontal plane. The scene lights shall meet or exceed federal specification KKK-A-1822E. All scene lights shall have bright chrome-like flanges.

Bidder Complies YES_____ NO_____

Side Scene Lights

The right side scene lights shall come on when the side entry door is opened.

Bidder Complies YES_____ NO_____

Rear Side Scene Lights

The rear scene lights shall come on when the vehicle is placed in reverse.

Bidder Complies YES_____ NO_____

AMBULANCE BID SPECIFICATIONS

Brake Light

The manufacturer shall wire the rear emergency light flashers to the brake circuit.

Rear Window Level 900 Series Lights IATS Flashers.

Bidder Complies YES_____ NO_____

Recessed Door Lights

There shall be six (6) recessed LED flashing door lights with guards installed. The lights shall be installed on the lower interior door panel.

Specify Location And Color:

- (1) P-1 Interior Door Panel, Middle Outboard Edge, Red
- (1) P-2 Interior Door Panel, Middle Outboard Edge, Red
- (1) P-5 Primary Interior Door Panel, Upper Outboard Edge, Red
- (1) D-1 Interior Door Panel, Middle Outboard Edge, Red
- (1) D-2 Primary Interior Door Panel, Upper Outboard Edge, Red
- (1) D-3 Primary Interior Door Panel, Upper Outboard Edge, Red

Bidder Complies YES_____ NO_____

Recessed Door Lights

There shall be four (4) recessed LED flashing door lights with guards installed. The lights shall be installed on the lower interior door panel. Includes Individual Door Switch Circuit.

Specify Location And Color:

- (1) Side Entry Door Interior Panel, Upper Outboard Corner, Red
- (1) Side Entry Door Interior Panel, Lower Outboard Corner, Red
- (2) Rear Entry Door Interior Panel, Lower Outboard Corners, Red

Bidder Complies YES_____ NO_____

ICC Marker Lights

The exterior ambulance body ICC lights shall be Weldon model number 9186-1500-10 (red) and 9186-1500-20 (amber). They shall be installed above the integrated drip rail extrusion.

Bidder Complies YES_____ NO_____

ICC Lights

The Weldon LED clearance lights shall have stainless guards installed.

Bidder Complies YES_____ NO_____

Fog Lights

A pair of amber PIAA model 1451 Dichroic fog lights shall be provided on the chassis bumper.

Bidder Complies YES_____ NO_____

*** RADIO PROVISIONS AND AIR HORNS ***

Air Horns

A 12" and a 15" Buell Strombo air horn shall be provided. Activation shall be from a weatherproof drivers side floor switch. Horns shall be provided powered by a # 5440 compressor with reserve tank.

Specify Compressor Location: Exterior Compartment
(Include Mesh Cover Over The Pump).

AMBULANCE BID SPECIFICATIONS

Specify Floor Or Button Switch Location: Rubber Q2B Button On Console Near Driver.
Includes One Standard Frame Mounted Air Tank.

Bidder Complies YES_____ NO_____

Air Horns

There shall be one 10" and one 12" Buell air horns mounted thru the front bumper.

Bidder Complies YES_____ NO_____

Air Horns

A second air tank shall be added to the air horn system. The air tank shall include a manual drain valve.

Bidder Complies YES_____ NO_____

Radio Antenna

One RG58U antenna coaxial cable with a PL-259 connector shall run from antenna access port in the roof of the patient compartment and terminate behind the driver's seat. This cable shall have a 36" service loop.

Specify Termination Location:

- (1) Front Module Roof to the D-2 Compartment.
5' Termination Loop in D-2 and 1' Termination Loop in Ceiling.

Bidder Complies YES_____ NO_____

Radio Antenna

Three (3) PL-259 antenna coaxial cable(s) with connector(s) shall run from antenna access port in the roof of the patient compartment and terminate behind the driver's seat. This cable shall have a 36" service loop.

Specify Termination Location:

- (1) Mid Module Roof to the D-2 Compartment.
5' Termination Loop in D-2 and 1' Termination Loop in Ceiling.
- (1) Mid Module Roof to the D-2 Compartment.
5' Termination Loop in D-2 and 1' Termination Loop in Ceiling.
- (1) Rear Module Roof to the D-2 Compartment.
5' Termination Loop in D-2 and 1' Termination Loop in Ceiling.

Bidder Complies YES_____ NO_____

*** SIRENS AND EMERGENCY LIGHTING ***

Siren

There shall be a Whelen Model number 295 HFSDA dual amp siren system installed.

Bidder Complies YES_____ NO_____

Siren Speakers

There shall be C.P.I. Model number SA4319 bumper siren speakers installed.

Bidder Complies YES_____ NO_____

Side Module Warning Lights

There shall be four Whelen model number 900 Super LED side module warning lights installed. There shall be two lights mounted on each side of the body on the top upper outside corners, but below the drip rail. The lenses shall be red.

#90RR5SRR With Red Lens Unless Otherwise Specified.

Specify KKK or Comet Flash Pattern: KKK

AMBULANCE BID SPECIFICATIONS

Bidder Complies YES_____ NO_____

Grill Lights

There shall be two Whelen model number 500 LIN6 LED forward facing grille lights installed.

#50R02ZRR Red LED With Red Lens Unless Otherwise Specified.

Bidder Complies YES_____ NO_____

Intersection Lights

There shall be two Whelen model number 700 Super "LED" intersection lights installed.

#70R02SRR With Red Lens Unless Otherwise Specified.

Specify KKK or Comet Flash Pattern: KKK

Bidder Complies YES_____ NO_____

Rear Wheel Well Lights

There shall be two Whelen model number 700 Super "LED" rear wheel well lights installed.

Specify Whelen Light Number: #70R02SRR with Red Lens

Specify KKK or Comet Flash Pattern: KKK

Bidder Complies YES_____ NO_____

Custom Front Light Bar

Specify Custom Front Light Bar: Whelen 45B88A, 88" Length, 10 Section, With ICC Lights.

R/R/W/R/Opticom/R/W/R/R. All Lenses Clear ILOS.

Add (2) 45LFLASH Internal Flashers.

Wire KKK Outboard Red Lights To Primary/Secondary.

Wire 700 LED Under Light Bar To Primary/Secondary.

Wire Additional LEDs to Front Light Bar Switch.

Wire Opticom to Separate Opticom Switch.

Bidder Complies YES_____ NO_____

Opticom

The ambulance manufacturer shall pre wire for an Opticom to be installed at a later date. The pre wire shall include a park-neutral disable switch.

Bidder Complies YES_____ NO_____

Custom Rear Light Bar

Specify Custom Rear Light Bar:

Whelen 45B88, 88" Length, 10 Section, With ICC Lights.

R/R/LL/R/A/A/R/LL/R/R. All Lenses Clear ILOS.

Install MR Load Lights ILOS.

Add (2) 45LFLASH Internal Flasher.

Wire KKK Lights To Primary/Secondary.

Wire Additional LEDs to Rear Light Bar Switch.

Bidder Complies YES_____ NO_____

Emergency Lights

There shall be one (1) Whelen model number 700 clear Super "LED" light installed.

AMBULANCE BID SPECIFICATIONS

Specify Location: Centered Under Front Light Bar.
Specify KKK or Comet Flash Pattern: KKK

Bidder Complies YES_____ NO_____

Emergency Lights
There shall be two (2) Whelen model number 900 Super "LED" light(s) installed.

Specify Location: Mounted To Show Thru The Rear Window Level.
Includes Brake Override Circuit IATS Flashers.
(Red Lens).
Specify Whelen Light Number: #90RR5SRR with Red Lens
Specify KKK or Comet Flash Pattern: KKK

Bidder Complies YES_____ NO_____

LED Flasher
There shall be one (1) Whelen model number AFM 560 LED/Halogen Flasher installed. It shall include five outlets and be 60 watts.

All Lights Set To Comet Flash But Flash Pattern Must Comply With KKK.

Bidder Complies YES_____ NO_____

Custom Emergency Light Option
Add (2) 500 Series White LEDs in Grill IATS. Wire to Wig-Wag Switch.
#50C02ZCR
NEED: LH52605 and LH52606 Grille Housings For 2009 E-Series Chassis.

Bidder Complies YES_____ NO_____

*** PATIENT COMPARTMENT ***

Cabinet Construction
Cabinets shall be constructed of 5-ply, furniture grade, exterior-rated plywood. Cabinet interiors and exteriors shall be covered with high pressure plastic laminate. All cabinets shall be constructed using both glue and screws for maximum strength. Screws shall be a maximum of 10" from each other. All exterior radius corners shall have a 6063-T5 aluminum extrusion installed. This extrusion shall be screwed in-place from inside the cabinet. THE USE OF STAPLES IN THE ASSEMBLY OF CABINETS SHALL NOT BE ACCEPTED.

Because of the superior sound dampening and insulating qualities of plywood cabinetry, aluminum or other metal cabinetry will not be accepted.

Bidder Complies YES_____ NO_____

Cabinet Dimensions:
In order to facilitate common storage locations for all equipment, all cabinet dimensions shall be the same as the purchaser's newest ambulance, unless otherwise stated. Newest ambulance is available for inspection during normal business hours. Please call to schedule an appointment.

Bidder Complies YES_____ NO_____

Cabinet Doors
The cabinet openings shall have sliding acrylic doors, hinged doors, or a combination of both. The sliding doors shall slide in felt / nylon lined 4-sided aluminum extrusions that completely surround each opening and are removable. Each sliding door shall have a full height, beveled corner extruded aluminum handle on the outer edge. This shall provide additional strength and rigidity. All hinged doors shall have a polished stainless steel hinge with .125" pin diameter.

AMBULANCE BID SPECIFICATIONS

Bidder Complies YES_____ NO_____

Impact Protection

All exterior corners subject to abuse shall have an extrusion installed for added durability and rounded for occupant safety. A 6063-T5 aluminum radius shaped corner with inside X-frame shall be used on any corner not protected by a padded vinyl covered cushion. The use of this extrusion will allow the cabinet exterior corners to be attached from the inside, thereby eliminating the use of screws on the cabinet face.

Bidder Complies YES_____ NO_____

Cabinet Shelves

All cabinets over 14" high shall have fully adjustable shelves laminated with plastic laminate. All shelves shall be fastened to the adjustable track to eliminate rattle. A polished aluminum lip shall be provided on all shelf outer edges.

Bidder Complies YES_____ NO_____

Cabinet Attachment

All interior cabinets including the squad bench shall be bolted securely to modular body frame members and floor. The attachment bolts shall be a minimum 1/4" machine grade bolts. All fasteners and washers shall be stainless steel, or coated to protect from corrosion or another non-corrosive material. All cabinets must be removable for ease of future interior modification.

Bidder Complies YES_____ NO_____

Patient Compartment Testing

The vehicle shall meet or exceed AMD Standard 006, "Sound Level Test Code for Ambulance Compartment Interiors" and AMD Standard 007, "Carbon Monoxide Levels for Ambulance Compartment Interiors".

Bidder Complies YES_____ NO_____

Warranty

The interior cabinet warranty shall be for a period of fifteen years.

Bidder Complies YES_____ NO_____

Interior Laminate

The interior wall paneling shall be laminated with a matte finish plastic laminate. The edges shall be finished smooth and all joints fitted.

Specify Color: Folkstone Grafix Matte #507-58

Bidder Complies YES_____ NO_____

Sliding Doors

There shall be quarter inch gray tinted polycarbonate sliding cabinet doors on all interior cabinets. The sliding door handle shall be made from an aluminum extrusion and shall run the full length of the polycarbonate door. The full length door handle corners shall be cut at forty-five degrees.

Bidder Complies YES_____ NO_____

Cushions

All cushions shall be made of 2 inch high density foam. The foam shall be attached to a low density PVC board to minimize transmission of blood borne pathogens. Cushions will be covered by not less than 32oz. Enduratex vinyl. There shall be no piping or seams on the inboard edge of the cushions. To enhance cleaning and disinfecting, the upholstery shall not include any stitched pattern on the outer surface of the material. The cushions shall be installed using heavy-duty Velcro to allow for easy cleaning and removal.

AMBULANCE BID SPECIFICATIONS

Installed With Heavy Duty Velcro For Easy Removal For Cleaning.
Specify Color: Lapis Blue #HEI-6812

Bidder Complies YES_____ NO_____

Flooring

On top of the .125" extruded aluminum floor surface, shall be a 9mm underlayment sheeting. This sheeting shall be both glued and screwed in place. Indentations from screw heads shall be filled with wood putty to provide a smooth solid surface. The patient compartment floor shall be covered with a heavy-duty, commercial grade, vinyl. The flooring shall meet ASTM F1303-95 and NFPA 253. The flooring shall also have an antimicrobial formulation to inhibit growth of Staphylococcus Aureus, Bacillus Subtilis, Escherichia Coli, and Psuedomonas Aeruginosa.

All edges shall be formed into a curved radius extending upward a minimum of 4" on the left side of the patient compartment and full face on the squad bench side to facilitate cleaning.

A plastic cove molding shall be utilized on the reverse side of the flooring to provide support under the radius portion of the flooring. Flooring shall fit flush with the side interior cabinetry laminate without the use of added trim moldings. Flooring that requires the use of additional molding to trim all floor edges is unacceptable due to the difficulty in preventing dirt, bacteria, mold, mildew, and blood borne pathogens from collecting around and behind the trim pieces. All joints shall be sealed with a silicone sealer.

Specify Color: Lonplate II #424 Gunmetal.
Floor Rolled Up The Full Face Of The Squad Bench.

Bidder Complies YES_____ NO_____

Cabinet Welting

There shall be color matched automotive grade welting placed between the cabinet sections.

Specify Color: Met Blue

Bidder Complies YES_____ NO_____

Counter Top

The counter top shall be a Corian one piece, seamless, nonporous, nonmetallic solid surface material with a formed recessed center area to contain equipment, supplies, and fluids when vehicle is in motion. The counter top lip shall be a minimum of one inch.

Specify Main Counter Top Color: Cobalt Blue
Specify Accent Stripe Color: Glacier White.

Bidder Complies YES_____ NO_____

Cot Mount

A Stryker cot fastener shall be provided. It shall provide for a Stryker cot to be center mounted in the patient compartment.

The cot fastener installation must meet or exceed AMD Standard 004, Litter Retention System.

Bidder Complies YES_____ NO_____

Left Rear Overhead Cabinet

There shall be a left rear overhead cabinet with speed load poly carbonate doors installed. The bottom of the cabinet is to be sweep-out style. The cabinet door frame shall be secured at the top by a full length piano hinge. The entire frame shall hinge upward and be held in place by gas piston hold-open devices. The cabinet frame shall be held in the down position by two spring-loaded dead bolt style slide catches. The vertical ends of the speed load framed cabinet will have EPDM

AMBULANCE BID SPECIFICATIONS

rubber foam to protect the handles from damage. All speed load cabinets that are taller than 23" and wider than 32" shall have an 1/8" x 1-1/2" anodized aluminum support.

Bidder Complies YES_____ NO_____

Left Top Center Cabinet

There shall be a cabinet above the side CPR seat with top hinged polycarbonate doors installed.

Bidder Complies YES_____ NO_____

Left Front Overhead Cabinet

There shall be a left front overhead cabinet with speed load polycarbonate doors installed. The bottom of the cabinet is to be sweep-out style. The cabinet door frame shall be secured at the top by a full length piano hinge. The entire frame shall hinge upward and be held in place by gas piston hold-open devices. The cabinet frame shall be held in the down position by two spring-loaded dead bolt style slide catches. The vertical ends of the speed load framed cabinet will have EPDM rubber foam to protect the handles from damage. All speed load cabinets that are taller than 23" and wider than 32" shall have an 1/8" x 1-1/2" anodized aluminum support.

Bidder Complies YES_____ NO_____

Left Top Center Cabinet

There shall be a cabinet above the side CPR seat with top hinged polycarbonate doors installed.

Bidder Complies YES_____ NO_____

Left Rear Base Cabinet

There shall be a left rear base cabinet with sliding polycarbonate doors installed. The sliding door handle shall be made from an aluminum extrusion and shall run the full length of the polycarbonate door. The full length door handle corners shall be cut at forty-five degrees. The vertical ends of the framed cabinet will have EPDM rubber foam to protect the handles from damage.

Bidder Complies YES_____ NO_____

There shall be a left rear base cabinet with top hinged Polycarbonate doors installed.

Bidder Complies YES_____ NO_____

Telemetry Shelf

There shall be an adjustable shelf installed in the telemetry area cabinet.

With 2" Hole in the Left Rear Corner for Electrical Cords.

Bidder Complies YES_____ NO_____

There shall be a lower telemetry area cabinet with double side hinged wood doors installed.

Bidder Complies YES_____ NO_____

CPR Seat

A 24" wide seat shall be recessed into the street side cabinet wall directly rearward of the main action area. A 2" foam seat cushion with backrest, left and right thigh protection cushions all covered with heavy-duty vinyl shall be provided. There shall be no piping on the cushions to accumulate contaminated material. All seams shall be sealed to repel contaminants. A seat belt with outside wall-mounted retractors shall be provided. Upper cabinets shall have left and right head protector cushions to match the seat cushion.

Bidder Complies YES_____ NO_____

Attendants Seat

There shall be a high back, EVS brand child seat. Model 1802. The EVS seat shall be a captain's chair-type attendant seat located at the front of the patient compartment. This seat shall be covered with color coordinated heavy-duty vinyl with heat sealed seams for ease of cleaning. The seat shall include a 5-point safety harness with push button release. The seat shall have a fore and aft adjustment of six inches on heavy duty sliding tracks. The seat shall be mounted on an EVS swivel pedestal base. This and all seats in the patient compartment shall meet all FMVSS requirements. (EVS states that this is "not an infant seat", it is not to be used by children less than one year old. Recommendations include children who weigh between 20 and 50 pounds, and are 28 to 47 inches tall and capable of sitting upright alone.)

Bidder Complies YES_____ NO_____

Electrical Cabinet

A storage cabinet shall be installed on the left front wall behind the rear facing attendant seat. Access shall be gained from behind the attendant seat. This cabinet shall be for storage of the Power Distribution Center.

Bidder Complies YES_____ NO_____

Right Front Cabinet

A storage cabinet shall be installed on the right front wall, upper section that permits equipment to be accessed from either the patient compartment through polycarbonate doors or through an exterior compartment door. It shall have one (1) adjustable shelf.

Bidder Complies YES_____ NO_____

Right Front Cabinet

A storage cabinet shall be installed on the right front wall, lower section that permits equipment to be accessed from either the patient compartment through polycarbonate doors or through an exterior compartment door. It shall have one (1) adjustable shelf.

Bidder Complies YES_____ NO_____

There shall be an open storage compartment on the aisle side of the right front stack cabinet.

(1) Upper Cabinet behind P-1 Compartment over Lower Walk-Thru Cabinet with Polycarbonate Doors with Metal Trim. Includes One Adjustable Shelf.
Make Cabinet 7.5" Deep ILOS. This Is Different From Previous Unit.

Bidder Complies YES_____ NO_____

Walk-Thru Cabinet

There shall be a cabinet mounted in the lower walk thru area.

Bidder Complies YES_____ NO_____

Squad Bench

The ambulance shall be equipped with a squad bench approximately 73" long by 22" wide. The squad bench lid shall have a 2" foam pad covered with color coordinated heavy-duty vinyl. The squad bench lid shall be one-piece and have two heavy-duty, gas piston hold-open devices. The lids shall be attached to the bench with a continuous hinge. Each lid shall have a self-latching, stainless steel, paddle style-latching device.

The lids shall be finished with minimum 2" thick cushions. There shall be no piping and all seams shall be sealed to preclude absorption of contaminants. These cushions shall be installed with industrial grade, plastic hook and loop Velcro for easy removal and cleaning.

Three sets of encased restraints and seat belts shall be installed on the squad bench. Retractors shall be installed against the outer wall.

AMBULANCE BID SPECIFICATIONS

Bidder Complies YES_____ NO_____

Squad Bench Cabinet

There shall be a cabinet at the head end of the squad bench.

Step Well Side Open for Storage of Fire Extinguisher. Trim Opening With Stainless.

Bidder Complies YES_____ NO_____

Squad Bench Cushion

There shall be a backrest covering the wall directly behind the squad bench. This backrest shall be a minimum of 2" thick and shall be constructed of high-density foam and heavy-duty automotive grade vinyl. There shall be no piping and all seams shall be sealed to repel contaminated material.

Bidder Complies YES_____ NO_____

Bandage Cabinet

There shall be a two section bandage cabinet with top hinged polycarbonate doors mounted above the squad bench.

Specify Cabinet Depth: 8.0"

Bidder Complies YES_____ NO_____

Glove Box

The side door head pad shall include storage for three (3) recessed glove box(s).

Recessed Storage Box with Top Hinged Polycarbonate Door.

Specify Number of Box Cut-Outs: 3

Bidder Complies YES_____ NO_____

Grab Rail

There shall be a formed 2" diameter brushed aluminum overhead assist rail. It shall be located over the patient area on the main cabinet wall.

Specify Custom Length: 100" ILOS.

Bidder Complies YES_____ NO_____

Grab Rail

There shall be a formed 2" diameter brushed aluminum overhead assist rail. It shall be located over the squad bench. One matched stainless steel grab rail shall be located at the side entrance door.

Specify Custom Length: 100" ILOS.

Bidder Complies YES_____ NO_____

Grab Rail

There shall be "L" shaped formed 2" diameter brushed aluminum entrance door grab handles installed on the curbside and both rear entry doors. The "L" shall start horizontally under the door window and turn at a 90 degree angle up alongside the hinge side of the window to provide safe entry from the street level and safe exit from the patient floor.

Bidder Complies YES_____ NO_____

Grab Rail

There shall be a formed 2" diameter brushed aluminum grab assist handrail mounted at the head end of the squad bench.

AMBULANCE BID SPECIFICATIONS

Bidder Complies YES_____ NO_____

IV Hangers

There shall be two CPI model IV 2008 recessed rubber, non-swinging type IV hangers that fold flat when not in use mounted in the ceiling over the lower portion of the patient area. They shall be bolted to the roof framing structure.

Curbside Mounted In The Forward Cot Position.

Streetside Mounted In The Mid/Rear Cot Position.

Bidder Complies YES_____ NO_____

Cabinet Latches

There shall be stainless Southco M1 cabinet latches installed.

Bidder Complies YES_____ NO_____

Clock

There shall be a Trintec/Quartz clock recessed into the rear head pad. The clock shall include back lighting.

Clock Includes Lighting Feature.

Clock Installed With Fast Lead Fasteners.

Bidder Complies YES_____ NO_____

Locking Cabinet Door

The interior cabinets shall include a Southco M1 stainless locking cabinet door latch.

Specify Cabinet Location: (1) L.F.O. Cabinet In Option #65-03-80.

Bidder Complies YES_____ NO_____

Sharp's Container

There shall be a drop in style sharp's container mounted at the head end of the squad bench.

Mount Through Countertop of Head of Bench Cabinet. Install Customer Supplied Sharps Container ILOS.

Bidder Complies YES_____ NO_____

Inventory Control

There shall be holes drilled in all sliding Polycarbonate interior doors to allow for breakaway locks to be used. The breakaway locks shall be used for inventory control.

Bidder Complies YES_____ NO_____

*** PATIENT COMPARTMENT ENVIRONMENTAL SYSTEMS ***

Fresh Air Intake

A filtered fresh air intake shall be mounted on the upper right front (passenger side) corner of the modular body. The heater / air conditioner fans shall control the intake of fresh air. The system shall be a constant flow style with a thermostat to control heating and cooling, therefore providing a fresh environment throughout the patient compartment.

The air return system shall be located within the right front cabinetry. This cabinetry shall include an integral plenum wall and duct system. This system shall allow the blower fans to pull air from the floor, thereby speeding the process of heating/cooling and therefore provide a consistent temperature at all levels of the patient compartment.

Bidder Complies YES_____ NO_____

AMBULANCE BID SPECIFICATIONS

Exhaust Fan

A power exhaust vent fan shall be installed in the rear upper wall below the roofline. The fan shall be controlled from the rear control switch panel. The vent shall be filtered and located on the rear outside body sidewall.

The front fresh air intake vent and the rear (power) exhaust vent shall provide efficient cross through patient compartment ventilation. The exhaust fan shall have a minimum of 100 CFM.

Bidder Complies YES_____ NO_____

Heat/AC

A ProAir brand HVAC system shall be used. The unit shall have as a minimum 32,000 BTU cooling, and 40,000 BTU heating with a 680 CFM fan.

The control switch for the patient compartment heater / air conditioner shall be installed in the main patient area. There shall be a digital thermostat mounted in the patient area to select interior temperature. The heat or air conditioner mode shall be selected automatically by the temperature setting of the thermostat.

An electrically operated vacuum valve shall automatically turn on the flow of hot water to the rear heater whenever the thermostat is adjusted to call for heat, and off whenever the thermostat is adjusted to call for air conditioning. A manual heater shutoff control shall be located in an easily accessible area to provide servicing of the rear heater without draining the entire system. All heater hose and clamps shall be of a type approved by the chassis manufacturer.

Bidder Complies YES_____ NO_____

Heat/AC

A Pro Air brand combination heater / air conditioner unit shall be located in the upper most section of the right front cabinet. Adjustable louvers shall be provided for directional control of airflow.

Bidder Complies YES_____ NO_____

AC Condenser

The vehicle shall have an auxiliary AC condenser installed under the module body.

Mounted Under The D-2 Compartment.

Install Rubber Debris Flap On The Forward Edge.

Bidder Complies YES_____ NO_____

Insulation

There shall be two-inch thick plank, non-deteriorating foam insulation placed between all framing. This shall include the module body walls, floor, ceiling and doors. There shall also be a four millimeter vapor barrier placed in the module walls, ceiling and in all patient compartment doors. This vapor barrier shall serve as an additional moisture barrier for the changing outside environment.

Bidder Complies YES_____ NO_____

Undercoating

The chassis and ambulance module shall be undercoated with automotive grade under-coating. All chassis manufacturer recommendations shall be followed.

Bidder Complies YES_____ NO_____

*** OXYGEN SYSTEM ***

Oxygen System

Flexible oxygen hose from the oxygen compartment to the oxygen outlets shall be certified hose with brass fittings. The entire system shall be subjected to a four hour, 150 PSI leak test and then certified.

AMBULANCE BID SPECIFICATIONS

Bidder Complies YES_____ NO_____

Oxygen Outlet

There shall be one Ohio style oxygen outlet located on the back wall of the front action area.

Bidder Complies YES_____ NO_____

Oxygen Outlet

There shall be one Ohio style oxygen outlet located on the right interior wall at head of squad bench midway between the squad bench and the ceiling.

Mount Forward of the Bandage Cabinet to Recess the Flow Meter.

Bidder Complies YES_____ NO_____

Oxygen Outlet

One (1) additional Ohio style oxygen outlet(s) shall be added to the patient compartment.

Specify Location: (1) Action Area Next To the Standard Outlet.

Bidder Complies YES_____ NO_____

Oxygen Door

Access to the oxygen cylinder gauge shall be provided through a hinged 7" x 16" Polycarbonate door with a passive latch mechanism. The door shall be located on the inside of the patient compartment opposite the exterior oxygen compartment.

Bidder Complies YES_____ NO_____

Oxygen Tank Bracket

The "M" size, oxygen cylinder storage cradle shall be mounted in an exterior compartment. The oxygen cradle shall have three web style restraining straps with ratchet attachments and a front retaining yoke. The bracket shall be securely bolted to a five-inch aluminum channel which shall be welded to the modular body frame compartment allowing for added strength and safety.

The oxygen cylinder storage cradle installation must meet or exceed AMD Standard 003, Oxygen Tank Retention System.

Specify Location: D-1 Compartment On Wall #2/Right Side.

Bidder Complies YES_____ NO_____

*** SUCTION SYSTEM ***

Suction System

A permanent on board suction system shall be installed. The system shall include a quick disconnect outlet mounted on the back wall of the action area and a 12 volt GAST suction pump to be mounted in the power distribution cabinet. The system shall be controlled from the action area switch panel.

Bidder Complies YES_____ NO_____

Suction System

A permanent on board suction system shall be installed. The system shall include a quick disconnect outlet mounted on the back wall of the action area and an electric suction pump. The system shall be controlled from the action area switch panel. The suction regulator and adjustment valve shall be a wall mounted SSCOR 22000 brand. The collection bottle shall be a wall mounted disposable Bemis (or equivalent) collection bottle. Both units shall be mounted on the back wall of the front action area.

Includes Flush Mounted Action Area Panel and Disposable Trap Set.

Bidder Complies YES_____ NO_____

*** PAINT ***

Paint Design

The ambulance manufacturer shall use a Poly-Urethane DuPont Imron paint. Please note, that because of the importance of proper paint preparation and application, any differences in materials, preparations or procedures must be noted and explained in detail. Non-compliance with this requirement will result in immediate rejection of entire bid response.

Prior to assembly, all joints and seams shall be back-primed with a self-etching epoxy type primer. All welds shall be ground smooth prior to priming. The entire body shall be sanded and then washed with a silicone remover and degreaser prior to application of the primer. This process significantly aids in proper adhesion of the primer.

Bidder Complies YES_____ NO_____

The following steps must be followed in sequence to properly apply paint to the ambulance.

- 1) SURFACE PREP
Clean entire modular body with 3919S Prepsol using the two-cloth method
Wipe with a clean cloth wet with 3919S
While still wet, wipe the body clean with a second dry and clean cloth
D.A. Sand with 180-grit paper
Sand the body thoroughly until bright
Hand sand edges thoroughly until bright with 180-grit sandpaper
Final sand body with 120 or finer grit paper
Blow off dust from body using air gun
Clean body with 3939S using the two-cloth method to remove dust and contaminants
Step 1 is essential in achieving proper adhesion and corrosion protection
- 2) PRIMING:
Tack off the unit
Spray one double coat or two medium wet coats of 615S self-etching primer.
A 1.2 mils DFT is required
Allow 30 minutes dry time
Apply three wet coats of 1140S URO Primer
Wet film thickness shall be 6 mils
Allow a minimum of 5 minutes between coats
Drying time before sanding: overnight air dry or bake for 45 minutes
@ 140 degrees and allow 45 minute cool down
- 3) SANDING
Block sand with 280-grit sandpaper
Blow off body with air gun
Clean any sand through areas with 3939S using the two-cloth method
Re prime sand-through areas with three coats of 615S self-etching primer
Block sand with 400-grit sandpaper followed by 500-grit sandpaper
Dry film thickness after sanding shall be a minimum 2.0 mils.
- 4) PRE TOPCOAT PREPARATION
Blow off body with air gun to remove dust
Wipe with 3939S using two-cloth method
Seam seal with non-shrinking silicone free seal
Clean body with 3939S using the two-cloth method
Final wipe with a third clean clothe to remove any further residue
(All wipe down shall be done in a downdraft paint booth)

AMBULANCE BID SPECIFICATIONS

Tack rag unit

5) TOPCOAT PROCEDURE

Mix IMRON polyurethane paint with 193S activator
Apply two medium wet cross coats to the entire body
Bake body for 90 minutes at 165 degrees
Topcoat shall have 2.5 mils DFT
Total topcoat and primer shall be 5.7 mils DFT

Bidder Complies YES_____ NO_____

Base Paint

There shall be a minimum of two separate coats of DuPont IMRON 5000/6000 paint. The body shall be painted to match the chassis color. All DuPont, manufacturer recommended procedures shall be followed, and documentation shall be available to certify compliance.

Bidder Complies YES_____ NO_____

Warranty

A paint warranty between DuPont, the ambulance manufacturer, and the end user shall be provided. The warranty shall be for a period of three years. This warranty shall be a non-prorated warranty. WARRANTIES THAT INCLUDE A METHOD OF PRORATING SHALL BE UNACCEPTABLE. The warranty shall be honored at any DuPont authorized body shop. The vehicle need not be returned to the ambulance manufacturer for warranty paint repairs.

Bidder Complies YES_____ NO_____

Paint Design

The chassis shall be OEM white.

Ship Loose Tube of O.E.M. White Touch-Up Paint with the Unit.

Bidder Complies YES_____ NO_____

Paint Design

The module body shall match the chassis OEM white.

Bidder Complies YES_____ NO_____

Custom Paint Design

Manufacturer shall custom paint the customer supplied design.
18" Wide Beltline Stripe/Paint the Entire Hood.
Add Angled Area On The Rear Module.
Lower Half Of The Module/Cab To Be Painted Gray.
Specify Beltline Color: Blue #K9740.
Specify Lower Module/Cab Color: Polar Gray #71537.

Door Pins

All door Nadar pins shall not be painted. They shall be installed after the paint process is completed.

Bidder Complies YES_____ NO_____

Pinstripe

A quarter inch black reflective pinstripe shall be applied to outline the paint stripe.

Upper Edge of the Blue Stripe ONLY.

Bidder Complies YES_____ NO_____

AMBULANCE BID SPECIFICATIONS

There shall be 2" Scotchlite Reflective, adhesive backed striping tape applied to the vehicle.

White Reflective Between the Blue and Gray Paint Line ONLY.
Bottom of the Tape to Be 20 1/2" Above the Lower Rub Rail.

Bidder Complies YES_____ NO_____

There shall be 4" Scotchlite Reflective, adhesive backed striping tape applied to the vehicle.

4" Wide Red Reflective Stripe.
Install Along The Lower Edge Of The Module Entry Doors.

Bidder Complies YES_____ NO_____

*** EMBLEMS AND DECALS ***

Decal Package

Unit shall be supplied with the Federal Star of Life Decal Package. The package shall include: 2. 4" Star of Life, 2. 12 inch Star of Life, 2. 18" Star of Life, 3. 6" Ambulance decals, 1. 4" reverse Ambulance decals.

Bidder Complies YES_____ NO_____

Decals

No smoking and Fasten seat belt decals shall be installed.

1-Installed In the Cab.
1-Installed In the Module.

Bidder Complies YES_____ NO_____

*** DEALER SUPPLIED/INSTALLED CUSTOM OPTION ***

Dealer Supplied/Installed Custom Option
Install On-Spot Tire Chains.

Bidder Complies YES_____ NO_____

Dealer Supplied/Installed Custom Option

Install Garmin Streetpilot 7500 7" Touch Screen GPS to Fixed Mount on Cab Floor Console. Install Back-Up Camera Over Rear Doors Wired to GPS With Dead Reckoning Cable.

Bidder Complies YES_____ NO_____

Dealer Supplied/Installed Custom Option
Lettering To Match Existing Unit.

Bidder Complies YES_____ NO_____

Dealer Supplied/Installed Custom Option

Install Customer Supplied Tool Mounts On Inside Of D-2 Compartment Doors. Tools Include: Haligan, Pry Bar, Hammer, Bolt Cutters, Safety Triangles, etc.

Bidder Complies YES_____ NO_____

Dealer Supplied/Installed Custom Option

Install (2) Rubber Grommet Tie-Downs For Portable O2 Tanks In Step Well.

AMBULANCE BID SPECIFICATIONS

Bidder Complies YES_____ NO_____

Factory Inspection Trips

The successful bidder shall arrange for two (2) factory inspection trips for two (2) purchaser representatives to travel to the manufacturing facility where the ambulance is being built to inspect the ambulance; once during mid-construction and once upon completion and before the ambulance leaves the factory. All costs associated with these trips shall be the responsibility of the successful bidder, including airfare, ground transportation, lodging, and meals.

Bidder Complies YES_____ NO_____

The Ambulance fuel tank shall be full at the time of delivery.

Bidder Complies YES_____ NO_____

Preventative Maintenance

The successful bidder shall provide Preventative Maintenance Inspections at the Purchaser's location, every six months for five years. Inspections shall include, but not be limited to, all chassis and converter added electrical functions, all door latch mechanisms and weather-stripping, door alignment, on-board oxygen and suction systems, all cabinet construction, hardware, and trim, exterior paint and trim, chassis fluids, tire pressures, and charging system. Any service or repairs, if necessary will be made at the purchaser's location if at all practical.

Bidder Complies YES_____ NO_____

*** END OF SPECIFICATIONS ***